

JOHN F. BARRY JR.

April 1980

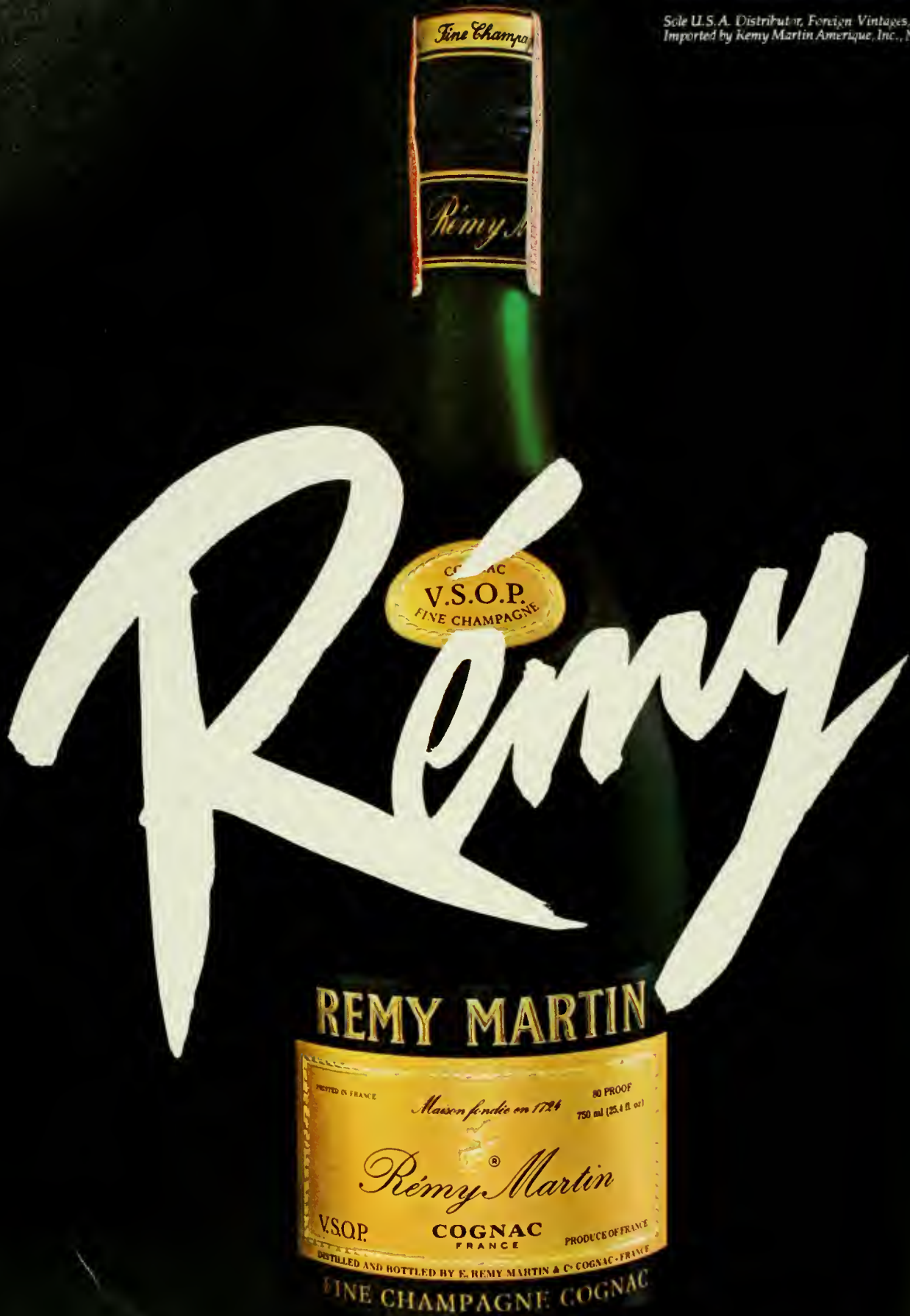
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American Security — or the Lack of it — in the 1980s

In a two-day symposium at Brown, scholars and statesmen discussed the prospects for the nation's military and economic security in the 1980s. The prospects, most agreed, are bleak.

22 Medical Education: Looking Toward the Year 2000

How should medical education — at Brown and other American medical schools — change to prepare for the millenium? asks Pierre Galletti, Brown's vice president (biology and medicine). The time is not far away.

24 A Morality Play (in One Act)

Association of Fraternity Presidents and Office of Student Life (together): "Let's rap about relationships at Brown — you know, sex, dating, living together, the works. Invite everyone to really talk about this stuff." Student: "Hey, sounds good to me."

27 A Seismologist Shakes Up China

No crystal ball does Lucile Jones '76 consult in attempting to predict earthquakes. As a graduate student in geophysics at MIT, she pores over computer tapes and studies seismograms. Last year her research — and her expertise — took her to China: the first American scientist to visit China's Seismology Bureau.

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On the cover: Sayles Hall at sunset — one of the photographs by Uosis Juodvalkis in the new book, Brown: A Pictorial Album. See page 56.

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Don't worry, folks

Editor: I offer heartening words for the alumni who have written *BAM* over the past few months to vent their indignation at how Brown inculcates in its students a critical posture toward corporate capitalism. (David Lewis and I, you may recall, were quoted in the September issue as being deeply troubled by the power wielded by large corporations and the human suffering which results.) In fact, those few of us who have begun to see the relationship between social and economic ills on the one hand and corporate greed on the other have generally arrived at this understanding on our own. Anyone who fears that his alma mater has actually urged its students to question a policy of profits before social welfare and the economic system which sustains it can attend his next reunion affair with a clear conscience.

I must confess, though, that I do not regard the argument "corporations support private universities" as a crushing refutation of our criticisms. That good PR and juicy tax write-offs can be had from such contributions I do not deny. That the inequities and injustices perpetrated by giant corporations are thereby cancelled out I cannot so readily concede. Moreover, I find the argument roughly analogous to the claim that since politicians run our country, they are entirely praiseworthy or exempt from criticism or both.

I am always willing to engage in serious discussion about the consequences of various economic systems. But it is something else again to attempt a dialogue with corporate America's apologists who would dismiss me as a naive, ungrateful "collectivist" whom Brown has failed for not indoctrinating me to their liking.

ALFIE KOHN '79
Chicago

Sports for the majority

The following letter was written to the president, with a copy to the BAM.

President Swearer: No longer can I continue to read in [the] *BAM* about women's and men's intercollegiate athletic feats without asking what is being done for the rest of the student body (pun intended). What about the majority who can't run with a football, sink a basket, or never wanted to? How about the ordinary undergraduate who

would like to learn or improve a lifetime sport skill for the fun of it and incidentally for the health of it?

When I was at Pembroke, there was a four-year physical education requirement which "turned me off" (temporarily) and probably turned some others against sports forever. From that extreme, Brown has now reached another — no requirement and no credit. As far as I know, there are no successful P.E. programs in the country which have neither credit nor a requirement.

I have learned that at Brown some coaches during their off seasons teach some physical education classes. I also discovered that, although there is much initial enthusiasm, classes fall off drastically, e.g., from sixteen registrants to six finishers. Hardly a successful program.

Brown has done some remarkable things for its undergraduates; however, I feel it is time it reassessed its P.E. program and recognized the value of regular participation. As the pressures of academics build, it is only natural that the student drop out of his P.E. class in favor of credit rewarded work. With the added incentive of a small amount of credit with a pass/fail grading system, he would probably follow through in a tennis class, for example, and feel better, study better, and add an important dimension to his life.

It is my hope that Brown will not only continue its intercollegiate program for the skilled athletes but initiate a system of credit for P.E. so that the program will have some meaning and that sports will benefit a majority of students — not just a few.

RUTH EDDY '44
Durham, N.C.

'End of the World'

Editor: Unfortunately, Professor Borts (*BAM*, November) has neglected the sixth actor in the "End Of The World" drama — the economist who has never considered (1) that the environment is not a "free" dumping ground for anyone who wishes to exploit the resources of the earth, and (2) that when the rate of consumption of a resource grows at a fixed percent per year, the growth is exponential. So the time required for the growing quantity to increase its size by a fixed fraction is constant.

A growth rate of 5 percent per year will result in the doubling of, for example, oil use

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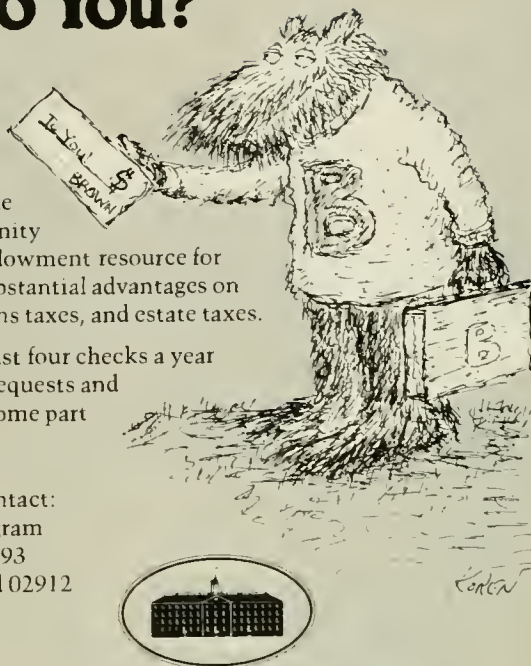
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in fourteen years. In twenty-eight years, oil use would double twice. (President Carter has called for a growth of 5 percent in coal production; President Ford asked for 10 percent.) Another aspect of exponential growth — the increase in any doubling is approximately equal to the sum of all the preceding growth.

Professor Borts should have been listening when President Carter told the American people (Patriot's Day — April 18, 1977), "In each of these decades (1950s and 1960s), more oil was consumed than in all of man's previous history combined." This was simply the consequence of a growth rate whose doubling time is ten years, or 7 percent per year, the rate of growth deemed necessary by most economists. Economists should instead be taking the lead in telling us that the consumption of oil (or electricity) increasing by 7 percent per year means that the total consumption in one decade will exceed the total of all previous consumption.

So, the end of the world may not be coming — but the end of oil certainly is. And the end of coal is. Perhaps it has been overlooked that in every prediction of the centuries which coal will last, it always says: "at present rates of consumption." The only reason we have any coal left is because its use has not been doubling every ten years (there was no growth from 1910 to 1972). Present plans will change that in a hurry.

Obviously, exponential growth in the use of a limited resource cannot continue for long. Whether we use the estimates of coal and oil reserves by the noted geophysicist, Dr. M. King Hubbert, or *Newsweek*, it matters not. If all the horrible controls and taxes on the energy companies were removed as Professor Borts suggests, and new reserves equal to all the oil used to date were found as a result, it would be sufficient for only one doubling time, or one decade at 7 percent growth rate in use. Shouldn't our students learn this from our economists, instead of who is to blame? There's enough blame for anyone who uses energy — even conservationists, environmentalists, scientists, friends of the poor, trust busters — and even economists who can't do simple computations. Perhaps it is the energy companies alone who are so blameless that they do not qualify as "actors." Professor Borts's blackboard should show the formula for doubling time — $T_2 = 70/\text{percent growth}$

MATTHEW J. BRENNAN '3
Alva, Fla.

Editor: Having been thrice accused of villainy in the article by Prof. George Borts, I am moved to say that he has produced the most biased and intemperate piece of writing which has ever appeared in the usually civilized pages of this magazine.

Professor Borts identifies five "actors" in the "energy drama": "the conservationist, the environmentalist, the scientist, the friend

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of the poor, and the trust-buster." These people, he tells us, have created the energy crisis by interfering with the operation of the free market system. And just in case we might not approach his article with the proper set of biases, we are loaded up on the first two pages with an appropriate set of pejoratives; these actors behave like a "holy man" who cries "the end of the world is coming," who takes an "emotional approach," who "ignores the logic of cost and return," who has made a "circus" of the energy situation, etc., etc.

Nowhere in his list of dramatis personae do we encounter any of the other characters who surely play a role in this drama: the Detroit executives who persisted, in the face of enormous opposition, in giving us a two-ton vehicle which gets eight miles to the gallon; the utility executives who for decades pumped billions into a campaign to promote energy consumption (a particularly sordid case in Seattle where a million dollars per year was spent, much of it to circulate slick brochures in the public schools — urging students to consider the virtues of electric can openers, electric toothbrushes, electric trashmashers . . . a campaign which extended well into the '70s until public pressure finally put a stop to it); the can and bottle company executives who pump millions every year into the fight to kill recycling initiatives which would put a stop to the endless bulldozing of aluminum and iron and glass into landfills, etc., etc.

Those of us out here who have qualified for inclusion in Professor Borts's rogues' gallery of select villains might forgive him his antediluvian version of laissez faire and his sins of omission, but the errors in fact and the outright distortions go well beyond what any reasonable person can accept. What are we to make of his statement that "the greatest victims of higher energy prices are the rich, not the poor . . . the reason is that the rich spend a higher fraction of their income on energy-using activities." This statement translates as follows: the rich are being victimized by higher energy prices because they have the terrible burden of operating yachts, private aircraft, three Cadillacs, and multiple television sets . . . whereas the poor have it relatively easy because they only have to scrape up the dough to pay for home heating oil! Is Professor Borts joking? That anyone can hold such a view, let alone utter it publicly, does not strain credulity — it shatters it beyond repair.

What are we to make of his impatience with the long delays in power-plant siting, in opening new mines, in constructing factories — delays which he attributes solely to the nefarious activities of environmentalists and bureaucrats. Professor Borts is so busy worshipping at the altar of Adam Smith that he seems to have forgotten, or at least forgotten to mention in his article, what lies behind the environmental protests and the subsequent legalistic entanglements. Has he seen the

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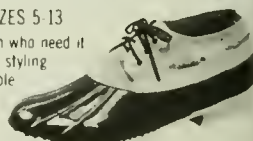
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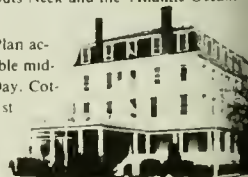
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sted agony of mercury-poisoned men, men, and children in Minamata? Has he n the 400-acre wasteland created at Se- io when a chemical plant sprayed the local ulation with one of the most potent te-ogens known? Closer to home, does he w about the infamous Love Canal, the alley of Drums" in Tennessee, the kepone soning of Chesapeake Bay, the countless er poisoned acres of soil and water turn- up all over the place? The operation of egulated industry and the free market ated these messes long before the first ervationist crept out from under a bush. d we have seen that the mess only gets ined up when one of Professor Borts's oly men" starts raising holy hell in order tiffen the backbone of the government ulators. Professor Borts is surely correct in ing that the costs of regulation are delay i increased expense, but has he bothered nform his audience of the costs of not ulating? Let me offer one example. The cer risk at the Love Canal site, where nes were built directly on a chemical np, are now estimated by the EPA as one en. The state of New York had to pur- se 239 homes built directly on the dump 1550 homes on adjacent property.

Professor Borts in his article engages in antediluvian effort to paint an image of in- ent and benighted industry reeling before emotional excesses of bureaucrats and dlovers. A similar effort was made here in shington state a short while ago when a corporation announced that it would be sing a local mill because it could not afford nstall the antipollution devices forced on h shortly after the announcement, a cou- eous local congressman published evi- nce to the effect that the company had n planning to close the mill for years be- se it had become so antiquated that it was ser long before pollution became an ie. Surely if Professor Borts wanted to en- ter his readers in evenhanded fashion, en he claimed that holy men of the envi- nment have "created scapegoats of all the iness participants in the marketplace," he ht have just once pointed out business ticipants have done a little unethical fin- pointing as well.

Perhaps what bothers Professor Borts so ch, what makes him so intolerant of bird- ers and defenders of furbish louseworts l snail darters, is his deeply held con- tion that everything has its price in the rketplace, while other voices, equally in- ent, hold stubbornly to the idea that some ngs in this world are priceless, but have ight, nonetheless, to continued existence.

WALTER HALPERIN '54
Seattle, Wash.

Writer is associate professor of botany at the iversity of Washington. — Editor

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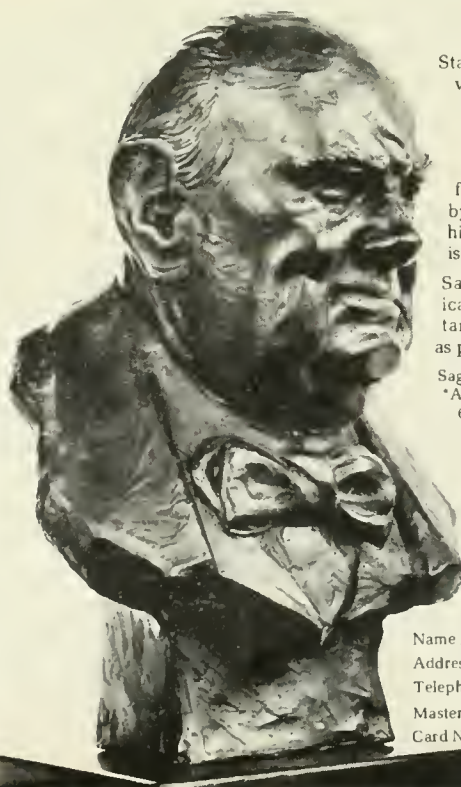
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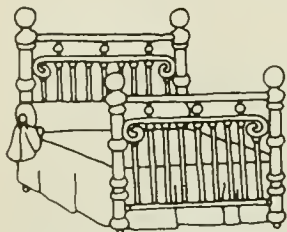
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strides being made in Brown's counseling services, notably with the addition of the Randall Counselors Program (Under the Elms, February). Can such a service suffice to meet a growing need for academic counseling?

The upsurge in numbers of students seeking "faculty contact" reflects, I think, the widening emotional and intellectual vacuum between the lone student and the increasingly specialized University, which is Brown. An occasional gifted student has the ability to pull together the confusing array of information and experiences which he/she confronts at Brown, but the typical student does not. It is precisely this integration of experience which should continue to be the heart and soul of the liberal arts education.

Many schools are already reacting to this crucial need by reinstating the core curriculum. Short of doing that, what can Brown do to assist its students?

One way would be to institute a highly visible group of counselors-advisors with a well-defined role, that of "learning strategists." The responsibility of the learning strategist would be twofold: first, to help the student focus on the totality of his or her educational experience, on its goals and directions; second, to aid students in developing the skills needed to assimilate their experience. Such skills could include studying skills, reading and writing techniques, and planning strategies. The learning strategists might also provide forums for developing critical thinking, group discussions, advice on independent concentrations, and so on.

The Randall Counselors are a step in the right direction. Yet, a handful of well-intentioned, already overworked professors, Deans Romer and Ward, and a few active students in the Student Resource Center may not be enough to put together the pieces in an expanding University. Nor, for that matter, were "all the King's horses, and all the King's men..."

FREDERICK BAUMGARTEN '79
New York City

Student diaries

Editor: The February BAM article on student diaries in early Brown days reminds me that I once tried to tackle the same subject in the early 1920s when I was on the *Brown Jug* staff.

Since the 150th anniversary of the Revolution was approaching we thought we would examine what student life at Brown was like in the 1770s, including the students' costs of living at that time.

I went to the John Carter Brown Library and told the librarian what I was seeking, and asked if they had any student diaries of the period. The librarian made a search and said: "No, but I have here a journal of expenses of that general time," and handed me a little red leather book with black ink entries of the costs of various items. I asked whose

journal it was.

"It is George Washington's, in his own hand," the librarian replied, and I nearly dropped it in my astonishment at actually clutching such a treasure.

I do not remember how much use we made of it, but I recall vividly the excitement of that moment. I suppose that journal must be still on campus somewhere.

RICHARD H. ANTHONY '25
New York City

It's still in the John Carter Brown Library. —
Editor

Editor: As a Hobart graduate I was deeply moved to see Professor Eschenbacher's reference to my college as the "Botany Bay" of higher education in the 1840s. Andrew D. White, the first president of Cornell, lays out the whole Hobart scene in his *Autobiography* (1905): a president routed by a fusillade of beer bottles; a professor, "an excellent clergyman, buried under a heap of carpets, mattresses, counterpanes and blankets"; cannon-balls rolled down the corridors, sometimes heated in order to burn the hands of any tutor who tried to confiscate them. White escaped to found Cornell, intending to tolerate there none of the enormities he had known as a student at Hobart.

Until I read Mr. Eschenbacher's article I was unaware that Brown's considerable goodness also stems (in part) from that small Episcopal college.

Though most of us live bestial and riotous lives, Hobart graduates are secretly proud of the strongly moral influence our *alma mater* has had over the years on its sister institutions.

WILLIAM E. BRADY '58 Ph.D
Galesburg, Ill.

Editor: I know! I know! Wayland's book [referred to in Professor Eschenbacher's article] is entitled *The Elements of Moral Science*. I have two copies of the thing in my office, one of which I've actually read. Not even Sigmund Freud, who is said to have observed that on some occasions a cigar is merely a cigar, could explain how I transformed *Science* into *Philosophy* in the piece on nineteenth-century undergraduate life.

HERMAN F. ESCHENBACHER '52 A.M.
Professor of Education

The Lamphere case

Editor: I have not followed the Lamphere case in detail, and my following remarks may be out of line — but I feel impelled to make them nevertheless. I am truly bothered by the legal fees incurred in defending the Lamphere case, and I think the size of these fees raises questions about the trial tactics of the lawyers who defended the case for the University and the wisdom of the University administration in allowing the

vers to incur such huge expenditures of
ble time.

My understanding of the case is that
nen academics at Brown alleged sexual
rimination in career advancement and
this allegation has been sustained.
ren was not found guilty of discrimination
nst women faculty. The consent decree signed
ie Lamphere case is neither proof nor admis-
of guilt. Rather, it signified the desire of both
ies to settle the case without a trial. — Editor]

February *Alumni Monthly* reports that as
ult of the suit, four original women
niffs and twelve other claimants will re-
e a total of \$107,008 and that costs for
ch the University is also responsible will
n expense to Brown of an additional
2,578 (\$252,601 to plaintiffs' attorneys and
9,977 to Brown's attorneys). On top of all
President Swearer is reported to have
ed a "conservative" estimate of "several
dred thousand dollars" of other costs to
University.

Two things strike me as noteworthy
at the fees, in addition to their size. The
as the small proportion of the total
unt — less than 10 percent — that will go
mburse the plaintiffs who all agree have
disadvantaged by University policy.
lawyers are the chief beneficiaries. Sec-
is the three-to-one ratio of plaintiffs' law-
fees to the University's lawyers' fees. I
sure that the fees can be justified on the
s of actual time spent; the question re-
ns whether this time should have been
or whether the case should not have
concluded much more expeditiously
a readier concession on the part of the
iversity that harm had been done. Surely
e is some discrepancy when the success-
awyers receive only a fraction of the
mpense secured by the unsuccessful
ers.

Perhaps the University's lawyers can de-
themselves with the argument that they
d the University from much additional
ntial liability. Nevertheless the case de-
es continued discussion, not on its
ts but as a problem in legal ethics.
ld eleemosynary institutions be subject
gal fees of this magnitude for adversarial
resentation in a situation appropriate for
of-court compromise? Should eleemosy-
nstitutions be expected to pay fees of
magnitude, particularly in a losing
e? Could the University's fees be renegot-
d in the light of the lack of success of its
self?

I am sure the University and its lawyers
good answers to these questions; my
ng is they still demand debate. A million
ars is not a small sum for the University
sburse when there is so little to show for
expenditure. President Swearer has said
"the award for plaintiffs' attorneys is
equivalent to the support of fifty finan-
aid students or fifteen assistant profes-
and it comes at a time when most uni-
ities are hard-pressed financially. . . ."

He could have also pointed out that the fees
of the unsuccessful University attorneys
might have supported an additional 150
needy students or forty-five more assistant
professors.

JONAS ROBITSCHER, J.D., M.D., '42
Atlanta, Ga.

The writer is Henry R. Luce Professor of Law and
the Behavioral Sciences at Emory University. —
Editor

A lyrical response

Editor: Here is my response to Dr. Da-
vidson's letter in the February 1980 *BAM*,
concerning liquor advertisements:

David L. Davidson, with his three
degrees,
Seems to be quite a tough guy to please.
When you print liquor ads, he disagrees —
For he only wants to see cereals and
cheese.

It seems he's afraid of coming down
with D.T.'s

But doesn't give a hoot about calories.
And the products he mentions have no
guarantees

That the additives in them will cause no
disease.

I guess he'd object to an ad for B.V.D.'s
Or one of a woman — in a chemise.

And how about doctors who advertise
their fees?

Would he call these all, catastrophes?

So in these days of adversities

You deal with various hypotheses —

I say: Take the ads from wherever they
come —

Increase your income to the maximum.

JANE FEDER (parent)
Brooklyn, N.Y.

Supporting private colleges

Editor: I read in the April 1978 *BAM*
(Carrying the Mail) that Eugene Parrs '67 has
joined the ranks of those alumni who believe
that financial support of Brown is no longer
warranted. I can well understand his feel-
ings. However, inasmuch as he has benefit-
ed from a private college education which
was partially financed by the generosity of
others, it would appear that he has the obli-
gation to support a private college. Many pri-
vate colleges are in difficult financial posi-
tions and need every dollar in gifts which can
be obtained. His contribution to one of those
colleges would have a greater impact on one
of those colleges than would a similar gift to
Brown. For example, a few years ago Alfred
University, which is located in upper state
New York, chose to upgrade admission
standards at the risk of lowered enrollments.
The policy paid off and today the school has
both a good academic reputation and an in-
creased enrollment. I was happy to have
played a role, albeit a small one, in that ef-
fort. Perhaps Mr. Parrs, and the other non-

giving alumni, would like to play a role as
well.

DAVID S. PARENT '61
Wallingford, Conn.

John Nicholas Brown

Editor: I submit an epitaph on John
Nicholas Brown which has been rolling
through my mind since his passing. He was
part of my second trip through Brown and
was a most impressive man, quietly given to
watching over his inheritance and fixing,
physically or intellectually, whatever he saw
needed. I enjoyed my time as alumni trustee
because of having a chance to know him, see
him closely in action and really learning why
I had gone to Brown in the first place. Watch-
ing him was an enviable experience that I am
grateful for and I can see how his attention to
detail was really carrying out the terms of a
trust that he had inherited, and it makes
Brown not only unique but a better than
usual institution.

JOHN O'LEARY NOLAN, M.D. '36
West Hartford, Conn.

EPITAPH: JOHN NICHOLAS BROWN
Oh, I must go down to the sea again, to
where it all began

And see the wharves and ships, with which
they bought the land.

Then mount the hill up to its top
Where they had sown a precious crop
Of boys and brains they hoped would never
stop.

And going up I'll pass his house, his simple
bed

Mindful of the trust they left
To guard the past but always spread
Yes, I must trod the paths he took with slow
and measured gait

Unnoticed by the swirling crowds but really
never late

To check a line, a root, a gate.
Then joined his peers to lend some sense
In quiet words of elegance.

His job, he knew, called for a son
The job, he knew, would never be done.

Yes, I must go down to the sea again and see
the succession of men

He led with grace to great renown
He had led them well, the name was Brown.



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UNDER THE ELMS

ASSOCIATED ALUMNI:

Putting Brown alumni on the map

It's easy to assume that more Brown alumni live in Rhode Island than in any other state. But that's not so, according to a new map showing distribution of Brown men and women throughout the United States that was distributed to members of the executive committee of the Associated Alumni at its March meeting.

Rhode Island is edged out by Massachusetts, though not by much, and New York is just behind Rhode Island. The figures: Massachusetts, 5,751; Rhode Island, 5,592; and New York, 5,331. Other states with over a thousand Brown alumni are Connecticut, 2,828; California, 2,612; New Jersey, 2,122; the District of Columbia, 1,833; Pennsylvania, 1,627; Florida, 1,202; and Illinois, 1,042.

Eighteen states have fewer than 100 alumni, but North Dakota and South Dakota have the fewest: eight and seven, respectively.

The total count for the alumni of the University, including those living in foreign countries, is approximately 42,500.

THE CAMPAIGN FOR BROWN: Chemistry professorship honors Vernon Krieble '07

An endowed professorship in chemistry — to be called the Vernon K. Krieble Chair — has been established by Gladys Krieble Delmas in memory of her father, a Brown alumnus, chemist, and teacher. The Campaign for Brown announced in early March. The first recipient of the Krieble Chair will be Aaron Wold, a solid state chemist and a Brown professor since 1963.

Vernon Krieble graduated from Brown in 1907, a member of Phi Beta Kappa and Sigma Xi. He received his

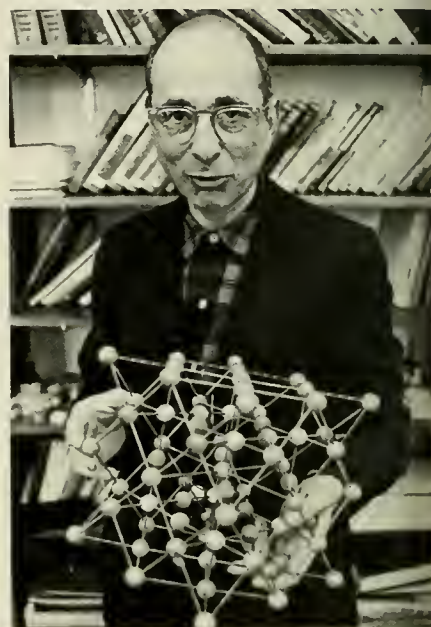


The late Vernon K. Krieble '07.

master's and Ph.D. degrees from McGill University and in 1912 was awarded the Canadian Governor General's Medal for the best research paper of the year in Dominion universities. After thirteen years of teaching chemistry at McGill, Krieble joined the faculty of Trinity College in Hartford in 1920. He stayed for thirty-five years, became Scoville Professor of Chemistry and chairman of the department, and built the Trinity chemistry department into one of the best of his time.

While at Trinity, Krieble invented "Loctite," a sealant compound now used around the world. The Loctite Corporation today, headed by Dr. Krieble's son, Robert H. Krieble, is among the nation's leading chemical specialty companies and is still dominant in the field of industrial glues.

When Vernon Krieble first arrived at Trinity, however, the chemistry department had one large laboratory, a few anterooms, and a lecture room. There was no place to teach organic chemistry, and physical chemistry was not even taught. In 1929, Krieble asked



Aaron Wold.

if he might have several hundred dollars to rebuild an abandoned coal bin into a research laboratory. The college president told him the trustees would never hear of it.

"I will keep on begging," Krieble told a colleague, "and I will get that laboratory. In fact, I will get a whole building for chemistry." Indeed, even though he resorted to raising the money himself when promised funds failed to materialize, Krieble got his building. He designed most of it himself, and it was considered a model structure for the teaching of college chemistry. Many of the features were innovations for that time — exhaust hoods placed in the middle of the rooms, for instance, rather than against the windows where they would have blocked off light. The horizontal rods mounted at each table were Krieble's own innovation; almost any chemical apparatus could be attached to the rods, thus rendering obsolete the old tripod stands that cluttered up work space in other labs.

Vernon Krieble did not intend to be a chemist, however. When he entered

Brown, after graduating from the Perkiomen School in Pennsylvania, which his father helped found, he planned to be an electrical engineer. But that plan faded when he took his first college chemistry course. "It was entirely too interesting," he later said, "ever to consider anything else."

Aaron Wold received his B.S., M.S., and Ph.D. degrees from the Polytechnic Institute of Brooklyn. He taught at Hofstra University and worked for several years as a staff chemist at the Massachusetts Institute of Technology's Lincoln Laboratory, before joining the Brown faculty. His research interests, which are several, involve the synthesis and characterization of materials with new electronic and magnetic and chemical properties for application in energy generation and conversion, catalysis, and electronic devices. He is particularly interested in the conversion of solar energy to electrical energy, the photodecomposition of water by solar energy, the synthesis of platinum-metal compounds, and properties of transition metal catalysts. *D.S.*

IN THE NEWS:

U.S. expecting 'too much' in China relationship

The honeymoon with China may soon be over, according to a Sinologist at Brown. Dean of Student Life Eric Widmer, an expert on Chinese history and an associate of Harvard's East Asian Research Center, told an audience at St. Stephen's Church on campus last month that relations between the U.S. and China are bound to cool, because China has relatively little to offer this country economically and is not likely to soften its Marxist ideology — despite its recent flirtation with more liberal policies.

"The expectations of this new relationship are too high," Widmer said. "The Chinese don't have the money to pay for the things they want" from us, and they "would much rather be self-reliant and independent" economically than dependent on other countries. Widmer noted that China had already reneged on a number of contracts with American businesses, and he said, "I see a time when our good will in a commercial sense will run out, or become more calculated."

Widmer was critical of the current U.S. policy of "playing the Chinese

card" to counterbalance Soviet influence in international affairs, maintaining that the U.S. should focus its efforts where "the stakes are highest" — namely, on improving our relations with the Soviet Union. He foresaw the development of a China-Japan alliance, since the two countries are geographically, culturally, and linguistically close, and have complementary needs and assets: China needs Japanese expertise and technology, and the Japanese (unlike the U.S.) badly need Chinese raw materials.

In an interview later with the *BAM*, Widmer emphasized that the bases for any mutual, long-lasting relationship between the U.S. and China are rather flimsy. "It's fine for us to have a strong anti-Soviet Asian friend, and it's certainly in our interests to try to keep them from becoming a close ally of the USSR again. But we don't want them to force us into a more anti-Soviet view than necessary," he said. "However nationalistic, patriotic, and therefore anti-Russian Americans may feel today, and however much one may support the Olympic boycott, the fact remains that the world really revolves around détente and our relationship with the USSR. *Nothing* is more important in the world today than making sure that relationship doesn't break down."

Widmer pointed out that the Soviet Union's motives for moving into Afghanistan were similar to our motives for intervening in Vietnam — "but no one bothers with historical lessons," he said. "It became hard for the Russians to regard the events in Afghanistan as purely local. The Soviets have for a long time been used to having a dependably cooperative neighbor in Afghanistan, which was a perfect buffer and saw its role as a buffer quite intelligently. But the Marxist regime there was not doing very well, and the Islamic uprisings in Iran and Afghanistan were stirring embers of discontent among the many Moslem inhabitants of the USSR. It was easier for the Soviets to move against Islamic rebels outside the country than inside; they were banking that their willingness to be tough on this issue would quell any internal troubles."

"The Soviet reputation in Afghanistan had been rather good," Widmer said, "but the USSR has blown its image as the protective northern neighbor. There's a sufficient amount of myopia on the part of world leaders that they always get themselves halfway into

something and think they're all the way in and back out again. The question is how to help the Soviets get out, and that's what we should be doing." *J.P.*

COMMENCEMENT:

Carol Lawrence to sing at Pops Concert

Carol Lawrence, whose performance as Maria in the original cast of *West Side Story* in the late 1950s made her a star, will come to Brown as the featured vocalist at the 16th annual Commencement Pops Concert, to be held on the College Green on Saturday, May 31. She will sing with the Rhode Island Philharmonic Orchestra, George Kent conducting.

A lively combination of actress, singer, and dancer, Carol Lawrence has starred on the stage in such musicals as *The Unsinkable Molly Brown*, *The Sound of Music*, *Funny Girl*, and *Sweet Charity*. She has also appeared in the film version of Arthur Miller's *A View From the Bridge* and has achieved success on TV and records and in nightclubs.

Tickets for the Pops are \$8 and \$5, with groups of ten able to reserve private tables at \$80 and \$50. Patron subscriptions are \$135, with all patrons receiving ten tickets and a table in a preferred location. Reservations may be made by writing to Commencement Pops Concert, Box 1859, Brown University, Providence, R.I. 02912. Checks should be made payable to Brown Club of Rhode Island.

The Pops is sponsored by the Brown Club of Rhode Island and the Pembroke Club of Providence. Co-chairmen are Robert Halkyard '56 and Jane Kirwan '46. Honorary chairman is Muriel Port Stevens '40. *J.B.*

Aaron Roitman '30 to be chief marshal

Aaron H. Roitman '30, a man who has been described by one University official as the type "who is always there when he is needed," will lead the Commencement procession down College Hill June 2 in his role as chief marshal.

By tradition, the chief marshal is selected from the 50-year class on the basis of leadership and service to Brown.

The long-time head of Roitman & Son furniture company, a familiar land-

mark on South Main Street near the University, Roitman has been cited several times for his service on the Boy Scout Council, the Chamber of Commerce, the Masons, and for his work with the senior citizens. He also helped to start the annual and now popular Italian Festival and is a persistent patron of the arts in Rhode Island.

"I feel very strongly that Aaron Roitman, by what he believes, has been one of the most influential representatives for Brown in this community for fifty years," said Vice President Robert A. Reichley. "His work in the Boy Scouts, with the underprivileged young people, and as a very strong advocate of racial and religious understanding make him a true representative of Brown in the exact meaning of its Charter.

"Aside from this, Aaron has also served the University well, most recently as chairman of the house committee at Maddock Alumni Center. In this capacity, he preached preservation and set in motion a long-range financial plan destined to keep Maddock Alumni Center standing for another century."

The entire Roitman family is Brown oriented. His wife, who works with him on many projects, is *Rose Miller Roitman* '31, '32 Sc.M., and all three children are Brown graduates: *James* '63, *Barbara* '67, and *Cborah* '70. J.B.

STUDENTS:

The admission office called him 'Shell Man'

Question: When is a hobby no longer a hobby?

Answer: A. When it takes up most of your spare time.

B. When you get to be so good at it that you publish papers and give lectures on it.

C. When your friends and family can no longer understand what you're talking about.

D. When you plan to make a career out of it.

Eric Dolin's answer would be (E): All of the above. Eric, a freshman, is without a doubt the only student at Brown who can unblushingly call himself a malacologist — an expert on mollusks. Which is to say that he collects shells, and that he knows a great deal about them and the creatures that inhabit them. So much, in fact, that his nickname in high school was "Shell



Eric Dolin and part of his collection.

Man" — the moniker by which he became known around the admission office when he applied to Brown.

"No one in my family really remembers how I got started," he says. "All I know is that when I was about seven, I started accumulating shells." He was living on Long Island at the time, although his family (his father is Stanley Dolin '50) later moved to Stamford, Connecticut. By the time he was twelve or thirteen, people were buying him shell books — and he was saving money from mowing lawns to buy hundreds of dollars' worth of unusual specimens, and to pay for membership fees in half a dozen shell clubs. He gave his first lecture on shells when he was fourteen, to two fourth-grade classes in a Darien elementary school, and had given nine more lectures before he graduated from high school.

Two years ago, Eric stopped collecting shells and started studying them in earnest. His first research experience was at the Summer Practice School in Oceanology at St. George's School, Newport, after his junior year. As a senior, he undertook his biggest research project to date: an independent study of the mollusks of Long Island Sound, for which he wrote a 147-page paper. He submitted part of that report, on the hypothetical ancestral mollusk from which all present-day mollusks evolved, to the leading shell magazine, *Of Sea and Shore*, where it was published last fall. And he scored another coup last summer: he persuaded the Bruce Museum in Greenwich, Connecticut, to hire him

as the summer naturalist at their Seaside Center, although they wanted someone with a minimum of two years of college who was majoring in biology.

Not surprisingly, that's what Eric intends to major in. "It's not a hobby any more," he says. "I'd like to go into marine or invertebrate biology. When I was sixteen, I had lunch with the curator and chairman of invertebrates at the Museum of Natural History in New York — I'd like to have his job someday, but there's only two or three jobs like that anywhere. And there are no real job positions in malacology per se." This summer, however, he's landed a paid position in the mollusk department of the Harvard Museum of Comparative Zoology, where he will be classifying specimens, setting up independent projects ("I'd like to study up on sharks"), and conducting field trips for area residents. He's also been recommended for a teaching assistantship in Bio 61 (invertebrate biology) next year, a rare honor for a Brown sophomore. And he's still in demand as a lecturer — at the Atheneum, Moses Brown, the Pawtucket Library, and so forth — for which he receives a modest honorarium.

Still, Eric's is not a one-track mind. Besides shells, he's also collected TV Guides, rocks, stamps (especially stamps depicting shells), war medals, coins, and kitsch. And he divides his remaining free time at Brown among volunteering for Jericho at the local juvenile prison, yoga, weight-lifting, running, the Natural History Club, and the

Rhode Island Public Interest Research Group. "I don't want to narrow myself too much," he says. "I'm trying to keep my options open." J.P.

FUND-RAISING:

Lacy Herrmann's 'Operation Pride'

Three years ago, Lacy B. Herrmann '50 found himself alone out on a limb after he had strongly supported the athletic department's plea for \$250,000 to renovate Brown Stadium. After all, where do you get \$250,000 to redo a fifty-two-year-old football stadium that is used only five times a year? The University was in no position to help, having many pressing financial needs of a higher priority.

But Herrmann, president of Family Home Products of New York City and a Brown Football Association director, stuck to his guns. He created a structure, sold it to the administration, organized a committee, and went to work.

Operation Pride was the name Herrmann gave to his campaign. It involved creation of the Bruin 1000 Club, with membership consisting of 100 alumni and friends and 100 organizations, each of whom would pay \$1,000. In return, each contributor would receive two tickets for each home game for ten years (a value of close to \$800) their name on a bronze plaque at the Stadium, and a copy of the special 100th-anniversary football poster.

"I've always felt that among many alumni and friends of Brown there was a latent interest in the College just waiting to be tapped," Herrmann says. "Operation Pride supplied that tap."

For three years money flowed through the tap, and when the drive for individual members closed on December 31, the campaign had passed its goal. Instead of getting 100 alumni and friends at \$1,000 each, Operation Pride showed 138 individuals on the books.

The benefits of Operation Pride began to show last fall. The old wooden seats were removed and replaced by anodized aluminum seats. The playing field was enclosed to keep spectators off during games and to help protect the new running track that encircles the gridiron. The lavatories were cleaned, painted, and spruced up in other ways. And the two towers to the south stand were painted in cardinal, white, and

brown.

Phase two of Operation Pride, the solicitation of 100 or more organizations a \$1,000 each, started with a bang when the Brown Football Association contributed \$40,000. Final work on the Stadium will probably take place in the summer of 1981, and will include extensive masonry work on the ancient structure as well as complete refurbishment of the press box. J.B.

SPORTS

BASEBALL:

Brown's 'piece of the Rock'

One of the first men to go to bat for college baseball is Peter Reilly '80. But this year's captain and starting catcher has one qualifier: Don't let baseball become a bigger part of your life than it should.

Baseball first became a part of Peter Reilly's life at Trinity High in Manchester, N.H., where he played for his father, John "Jumbo" Reilly, a former professional ball player at the minor league level. The high school years were kind to Peter, who was starting catcher for four years and team MVP for two. During that same period he also played American Legion baseball, again with his father as coach, and received an "outstanding player" award.

"Pete got a jump on most players in his area because his dad, a smart baseball man, had him out in the back yard with a glove on almost from the time the kid was able to walk," says Woody Woodworth, Brown's baseball coach. "Peter grew into a strapping kid, sort of dominated the leagues he played in, was drafted by the Red Sox out of high school, and came to Brown thinking the entire success of the team rested heavily on his shoulders."

Brown had a fine catcher, Rich Hand, during Reilly's freshman year, so Woodworth put him at first base "to get his bat in the lineup." The only problem with this strategy was that Reilly didn't hit his weight.

Reilly didn't respond well to his troubles at the plate, which was a new experience for him. "He tended to be a head-hanger," Woodworth explains. "He didn't realize that a catcher is judged on his defense first and his hitting second. And Peter was a very



Peter and Brandon Reilly.

sound receiver."

By 1978, Rich Hand had graduated, and the starting job belonged to Peter Reilly — until he became injured and missed the entire campaign. It wasn't a lost spring, however. He married his high school sweetheart.

The 6'1", 190-pound Reilly reported for practice last spring with a different attitude toward life and toward the game. He was more relaxed and more confident. His .310 batting average was among the best in the Eastern Intercollegiate Baseball League. Reilly also hit for power and did a fine job behind the plate.

"I had tended to put too much pressure on myself when I first went out for baseball at Brown," Peter says. "Last year I relaxed more. I put baseball in its proper perspective. And you know, I found that I really enjoyed playing the game again. I'm convinced now that baseball is a psychological game. If you press, you can't perform."

Woody Woodworth expects Reilly to be one of the best all-around catchers in the EIBL this season. "The kid has a good arm, a fast release, calls an excellent game, and knows his pitchers. All the pitchers love to throw to him.

"There's another thing. Even though Peter is a New England Yankee who doesn't say much, he's a born team leader. Of all the catchers I've coached, he more than any other conveys the impression that he *belongs* out there. I played him in right field a few times as a freshman. The position was new to

him. He's not a particularly fast runner. But when he trotted out to right field, he *was* the right fielder. You couldn't imagine anyone else out there. I guess you could call Peter Brown's piece of the rock."

Reilly feels that this will be Brown's year to blossom in baseball, "if the pitching comes around." But win or lose, the Bruin catcher is going to have more vocal support than ever before. His son, Brandan, who accompanied his father to most home basketball games this winter, has his lungs well-conditioned for his first baseball season.

After graduation, the mathematics/economics major will have to make a decision on whether or not to give pro baseball a try. "Everyone's fantasy today is to play pro sports," he says. "That's where the big bucks are. I guess if a real good opportunity comes along I'll give it a try. But with a wife and son I can't afford to settle for being a fringe player. Too many guys hang on too long because they just love the game. If I don't make it, I think I'll know when to get out. That's the key." J.B.

WOMEN'S GYMNASTICS:

Winter sports' biggest winner

One of this year's big "sleepers" was the women's gymnastics team, which vaulted (so to speak) from a 6-4 record last year — its first winning season — to a stunning 10-1 record this year, beating out such tough teams as Connecticut College (by .2 of a point), URI, and Boston State. The team's only loss was to Northeastern, after junior Suzy Brooks — last year's top scorer — injured herself during warmup for the meet. Coach Jackie Court wouldn't go so far as to say they would have beaten Northeastern without that injury, but, she says, "it would have been close."

"This is the best team I've ever coached at Brown," Court says. "Everyone was outstanding — it was really a team this year." Among the top performers were sophomore captain Anne Smythe, an all-around competitor whose specialties are floor exercise and balance beam; sophomore Elizabeth Au, another all-rounder whose specialty is "being consistent" and who was competing for the first time this year; Suzy Brooks on the beam; freshman Carolyn Ross and sophomore Kim Kee in vaulting.



Elizabeth Au does a press handstand.

JOHN FORSHUL

Women's gymnastics is now reaping the benefits of the gymnastics craze sparked by Olga Korbut in the 1972 Olympics and fueled by the pyrotechnics of Nadia Comaneci in 1976. Last year's Brown team was among the first generation of gymnasts who had been inspired by Olga during their formative years; this year's record speaks for itself, and "next year's team will be hopelessly even stronger," Court says. "Of course, our competition will be just as strong. The better you are, the harder you have to work." J.P.

HOCKEY:

Mark Holden's moment at Yale

It was one of those rare moments in sports, the kind that once having seen you're not likely to forget. The Brown hockey team had just concluded a disappointing season by beating Yale, 3-0, at New Haven, the teams had left the ice, but both the Brown and Yale fans were still on their feet, applauding. Then a chant — "Holden, Holden, Holden" — broke out and echoed from the rafters of Yale's Ingalls Rink.

"They want you out there," Coach Paul Schilling told goalie Mark Holden '80 in the locker room. "Who, me?" asked Holden, who was sitting on a bench unlacing his shoes. When Holden skated back on the ice and waved to the crowd, the cheers grew louder — and continued until he gave another

quick wave and disappeared down the runway.

Holden had earned his salute. In sixty minutes of pressure hockey, he had kicked out 51 shots on cage, including 22 in a frantic third period while the Elis were pouring through a sometimes porous Brown defense and peppering the cage in a late effort to get back in the game.

Coach Tim Taylor of Yale was lavish in his praise of Holden's effort, terming it "the best performance by a collegiate goalie I've seen in twenty-one years." Paul Schilling agreed, and added: "I think Mark was the finest goalie in the East this year and one of the two or three best in the country."

Others apparently agreed, because late in March, Holden was named to the Coaches All-American first team for the East. He is the eleventh Bruin to gain All-American recognition and the third goalie, following Don Whiston '51 and Mike Laycock '79.

A standup goalie quick with the glove, feet, and stick, Holden was a solid performer in most games he played at Brown and spectacular in some. His career average of 3.69 goals allowed per game is impressive, as is the fact that he stopped 91 percent of the shots fired at him in fifty-four games.

Despite winning some big games against Cornell, Boston University, Providence College (an 8-3 victory over the number-one team in the East), and Dartmouth's Ivy champions, the Bruins ended 10-14-2 and out of the ECAC playoffs for the second successive season. Schilling hopes that this year's recruiting efforts will bring him two solid goalies, several defensemen, some large forwards, and a scorer who can carry a team. A tall order. J.B.

In brief . . .

Writing in the *Boston Globe* at the end of the season, Sports Editor Ernie Roberts said: "The best basketball coaching in New England this past winter was by the old master, Joe Mullaney. Despite having three starters leave in preseason, Mullaney rallied his squad to victory in his last six Ivy League games for a 9-5 record and a third-place finish."

Even though Brown's final record was only 12-14, Mullaney's fellow coaches in Division One selected him New England Coach of the Year, an

honor he first received in 1965 when he guided Providence College to a 24-2 record. The talent Mullaney had on this year's Brown team did not in any way compare to the material available to him fifteen years ago, but the Bruins played up to potential and were among the top teams defensively through most of the season.

"We had certain weaknesses," Mullaney says, "mainly our ability to get the ball up court against the press. For some reason, very few teams used a full-court press against us. On defense, we went to the old combination zone that we had some luck with when I was at Providence College twenty years ago. It bailed us out of some tough spots, although I wasn't sure it would still work."

Capt. Peter Moss (*BAM*, March) ended the season with 540 points, giving him 1,240 for his career and placing him sixth on Brown's all-time scoring list, only seven points behind Phil Brown '75. He led the Ivy League in scoring with a 21.2-per-game average and was selected as the league's basketball player of the year. He is the first Bruin to win the player-of-the-year award, which was originated four years ago. Moss ended the season with a 20.8 average, followed by Bob Stanley, a fast-improving forward, who averaged 14.4 down the stretch and 8.0 for the year.

□ On the men's track front, Tim Bruno had a good spring, winning the New Englands in the 35-pound weight and coming in second in both the Heptagonals and the IC4As. Bruno's distance in the New Englands was 64'1½". He bettered that with a heave of 65'¼" at the IC4As at Princeton, only to lose in a duel with the Tigers' Dave Pelligrini, who had a 67'3". In the Heps at Cornell, John Sinnott, former co-captain in football, had a third in the shot-put at 53'10¼"; Brett Ferrari was fifth in the 500-meter run; and the distance medley relay team of Brian Blue, Mark McCabe, Tom Jirele, and Roland Laird came in fifth.

□ The men's swimming team finished 11th in a field of 23 at the Easterns held at the University of Pennsylvania. Junior Chris Hug placed sixth in the 1,650 for Brown's best single performance. In the consolation finals, Tony Melo placed in the 400 individual medley, and the 800 freestyle relay team was eighth in the new varsity record time of 6:54.0. The unit was made up of Mark

Munroe, Howie Fife, Glenn Levin, and Hug. Also in the consolations, Bruce McCormack set a new varsity record with a 2:10.2 in the 200 breaststroke.

□ The men's fencing team finished third in the New England regional championships held at Marvel Gym. Five of the Bruins made it to the final round: Richard Jerome and Rick Olson in the foil, Henry Chang and Peter Bookheimer in the epee, and Augusto Bastidas in the sabre.

□ The women's swimming team finished second to Princeton in the Ivy League championships, held at Tiger-town. Depth was the factor in Brown's best showing in the five-year history of this event as the Bears failed to gain an individual title but scored heavily in most events.

For example, in the 1,650-yard freestyle, Brown took five of the final twelve places. Carol Downey led with a third place in 17:23.9, a new Brown record. In the 100 free, Brown had four in the top 12, with Downey again leading the way with a sixth. Lori Pride was second in the 50 backstroke, leading four Brown scorers in that event. Pam Heggie led three Brown scorers in the 200 backstroke in 28:34. Maria McClellan established a school record of 26.99 in the 50 butterfly while finishing fourth.

□ Anne Sullivan (*BAM*, December) captured the 3,000-meter run in 9:48.6 in the Ivy League Heptagonal women's track championships held at Princeton. Teammate Karrie Booth took second place in the same race at 10:09.4. In the 5,000-meter run, Ellen O'Malley took a second in 17:39.

□ The Pandas went into the Ivy championships at Princeton with high hopes of coming home with the title. A victory over Harvard brightened the chances but then Cornell, with an awesome display of power, blitzed the women skaters, 9-2. Playing for third place in the tourney on the final day, Brown defeated Dartmouth, 4-1, on two goals by Stephanie Sanders and one each by Sue Curley and Pam Boone.

□ The women's basketball team started fast but tailed off badly near the end of the season and then finished sixth in the Ivies held at Yale. Trish Wurtz (*BAM*, March), the Bruin center, turned in the best performance of the tourney in Brown's 83-63 loss to Penn. The 6'2" junior scored 27 points, grabbed 17 rebounds, and blocked six shots.

J.B.

Scoreboard

Men's Basketball (12-14)

Brown 68, Cornell 47
Brown 55, Columbia 48
Brown 85, Harvard 76
Brown 60, Dartmouth 51
3rd in Ivy League

Women's Basketball (12-13)

Connecticut 74, Brown 60
Yale 78, Brown 44
Penn 68, Brown 54
Dartmouth 75, Brown 40
Harvard 77, Brown 55
Brown 70, Barnard 21
Penn 83, Brown 63
5th in Ivy League

Men's Hockey (10-14-2)

Yale 4, Brown 1
Vermont 5, Brown 3
Dartmouth 7, Brown 0
Brown 6, New Hampshire 3
Brown 5, Dartmouth 4
Brown 3, Yale 0
5th in Ivy League

Women's Hockey (10-10-1)

Providence 9, Brown 0
Princeton 1, Brown 0
Brown 6, Colby 2
Brown 3, Harvard 1
Cornell 9, Brown 2
Brown 4, Dartmouth 1
3rd in Ivy League

Men's Swimming (6-6)

Brown 71, Penn 42
Dartmouth 62, Brown 52

Women's Swimming (7-2)

2nd in Ivy League
7th in EAIAW

Men's Track (1-8)

8th at Heps

Wrestling (4-12)

Brown 45, Bridgewater 6
Boston University 37, Brown 8

Women's Gymnastics (10-1)

Brown 107, Rhode Island 99
Northeastern 113.5, Brown 108.5
Brown 105.6, Westfield 83.7
Brown 112.9, Mount Holyoke 100.2,
Bridgewater 80.3
Brown 118.5, Boston State 111.8
Brown 118.2, Connecticut 106.1
Brown 109.8, Connecticut College 109.6,
Dartmouth 89.5
Brown 115.8, Salem State 98.9,
Rhode Island College 89.8

Women's Squash (5-6)

Brown 7, Tufts 0
Harvard 6, Brown 1
Dartmouth 7, Brown 0
Yale 7, Brown 0
Trinity 5, Brown 2
Brown 5, Smith 2
Penn 5, Brown 2
Brown 7, Franklin and Marshall 0
Princeton 5, Brown 2
Brown 6, Wellesley 1
Brown 4, Vassar 3

AFFAIRS OF THE MOMENT:

American security — or the lack of it — in the 1980s

By Debra Shore

It would have been difficult — indeed, nigh impossible — for even the most incorrigible optimist not to have been daunted by the picture of United States security in the 1980s unveiled at a two-day symposium at Brown in early March. The symposium — jointly sponsored by Brown's Department of Political Science (Professors Lyman Kirkpatrick and David Hall were chief planners) and its national security studies program, New York University, and the National Strategy Information Center of New York — brought states-

men and scholars to Brown to discuss our nation's military and economic security during the next decade. Though they did not come wearing cloaks of doom, the message sounded by most of the speakers was this: the United States faces serious threats to its military and economic security, the two are inextricably bound, and the prospect for any successful resolution of our present dilemmas is bleak, at least for the next five to ten years. We are, in short, in for a rough time of it.

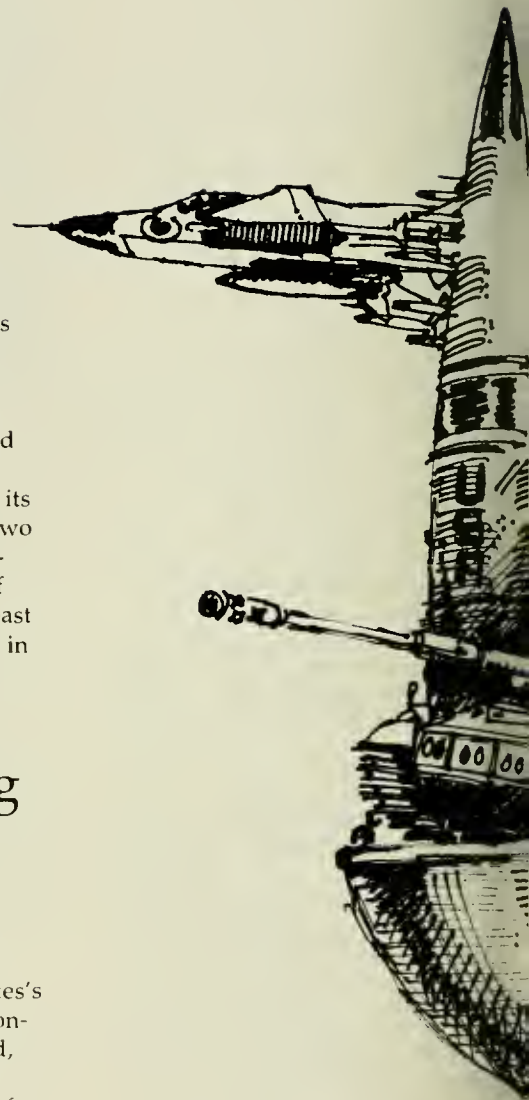
'The world knows the U.S. is slipping into an inferior strategic position'

Let. Gen. Samuel V. Wilson, USA (Ret.), who has had a long and distinguished career studying and shaping our nation's military security — he served as defense attaché in Moscow, deputy to the director of the Central Intelligence Agency for intelligence community affairs, and director of the Defense Intelligence Agency — launched a pre-emptive first strike on the topic by describing three sets of problems affecting the current and future military environment.

First, according to Wilson, are problems along the East-West axis, principally involving the Soviet Union. "I would assert as a key intelligence judgment," he said, "that the essence of our security difficulty along this East-West axis is the fact that parity between the United States and the Union of Soviet Socialist Republics as it pertains to all forms and modes of military power is

being lost.

"I am not going to list in detail what is happening to the United States's strategic posture while the Soviets continue to improve theirs," Wilson said, "but what I have in mind are such things as the growing obsolescence of our B-52 fleets, the absence of a follow-on air-breathing system, the B-1 and the F-111 modifications, the growing vulnerability of our ICBM's to enemy counterforce attack, and the absence of any U.S. strategic defensive measures whatsoever in this country — that is, no bomber defense, no ABM defense, no civil or industrial defense, no planned measures for post-attack recovery in the event of a nuclear conflict. Only the third leg of our strategic triad — the Poseidon SLBM submarines now being equipped with little Trident missiles — continues into the 1980s in my view as a credible strategic offensive system. . . .



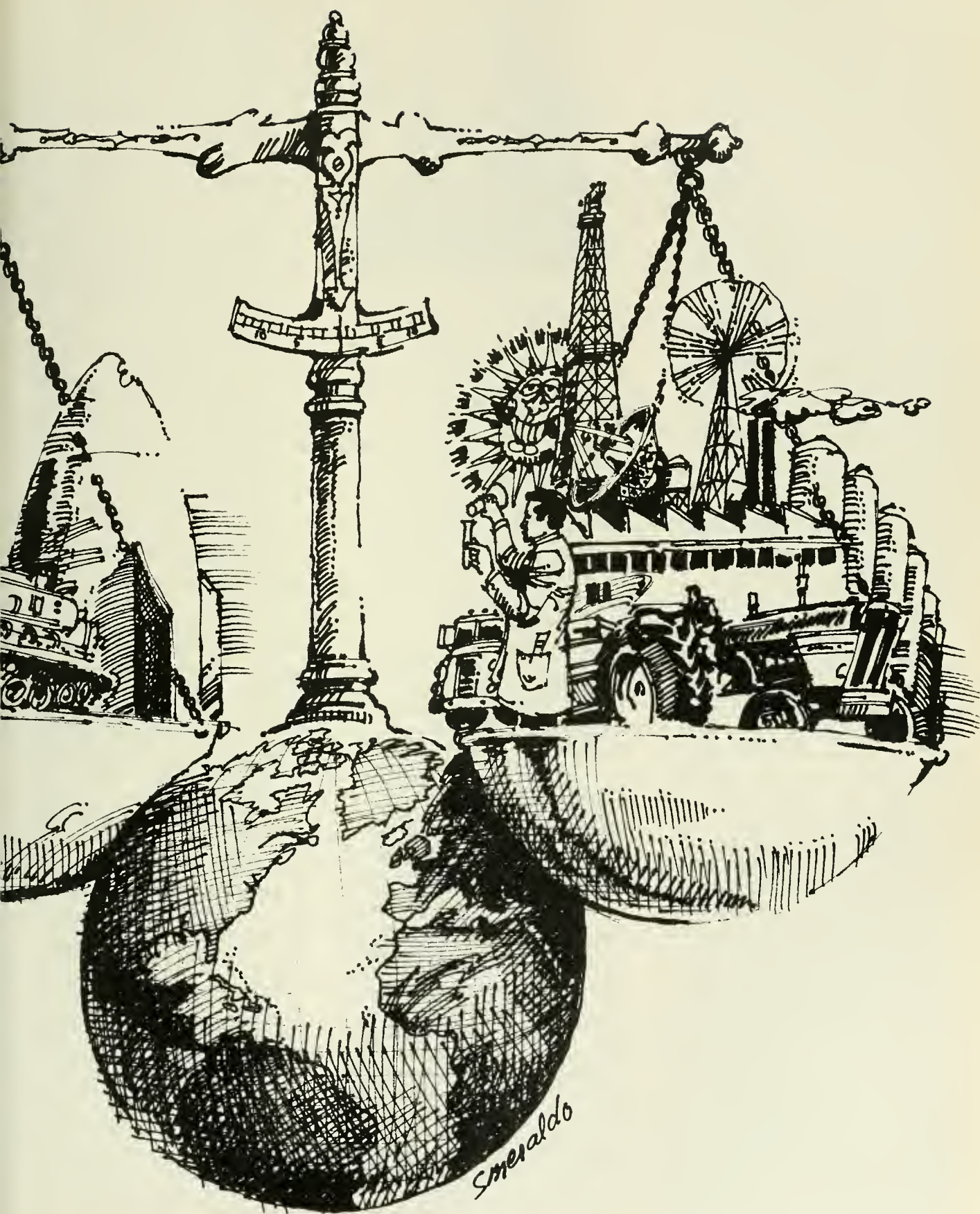
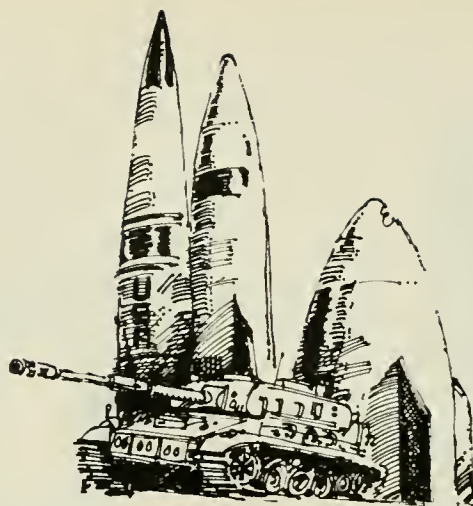


Illustration by Raymond Smeraldo

"Meanwhile, as the Soviets continue to increase their superiority in strategic weapons systems, we can no longer threaten escalation if their adventurous behavior displeases or threatens us, for they know that the United States is slipping into an inferior strategic position and they know that we know it. Of equal if not greater importance is the fact that the rest of the world knows it also and reacts accordingly. Hence the importance of how the relative strategic power or the might of the U.S. and the U.S.S.R. is perceived in the rest of the world. Hence, also, the importance of the United States maintaining a strategic capability which is not perceived by the rest of the world, including our allies, to be significantly inferior to that of the Soviet Union. And finally, the critical imperative to cap the strategic arms race via the SALT process is triply underscored, lest we — we and the Soviets — commit mutual economic suicide while rendering world peace more and more tenuous in the process.

"Concerning the second threat posed by the Soviets, a conventional conflict initiated at the theatre level by them, a clash involving so-called general purpose forces, the Soviets have us badly outmanned and badly outgunned as they have had for some time," Wilson said. "Now we no longer can compensate for our general purpose force inferiority by holding a superior position on the strategic higher ground. I think only the U.S. Navy can still pretend to a position of equality — in some instances even slight superiority, which is fading — to its opposite number, the Soviet Navy. This margin is rapidly being closed. . . .

"It is in the third threat area — the threat of economic or political subversion or Communist revolutionary warfare — that the Soviets now move with relative impunity and find us all but defenseless, having left the field to them practically by default. For about a quarter-century or so, following World War II, we enjoyed some success in the covert action field and we also had our fling from about 1960 to the early '70s with something we called counterinsurgency in the Kennedy era, euphemized later in some quarters as stability operations and nation-building. Following the debacle for us in Southeast Asia and the subsequent and related period of intelligence inquisition in this country, we effectively dismantled our capabilities in both of these fields. Again, this is not



to say that the Soviets have achieved unqualified success at this lower end of the conflict spectrum, but the aggregate results do represent net gains for them and corresponding net losses for the United States, largely in a directly economic and political sense, and indirectly militarily. When we look at a world map now as opposed to ten or fifteen years ago, it is clear that the Soviets have steadily improved their strategic dispositions around the world, with particular focus on eventually controlling the world's sea lanes, especially the vital choke points."

The second set of problems, Wilson held, falls along a North-South axis. Since World War II, he said, the United States has tended to focus on the security problems posed by the Soviet Union, almost to the exclusion of problems elsewhere. "In a sense we have been standing guard to the East as difficulties have been mounting in the South. I am referring," he said, "to the rather sharpened competition, at times confrontation, resulting from the present stage of political mobilization of the Third World, following several centuries of Western, or Northern, dominance. Involved are more than a hundred countries that did not have sovereign status at the end of World War II. These countries, including almost all of Africa and Asia and Latin America, do not consider that the process of de-colonization has been completed by the achievement of their political independence, considering that the economic domination of the world market by the industrial democracies creates for them conditions of economic dependence and exploitation — in other words, neo-colonialism. Their primary

complaint is the poverty gap. What is the struggle about? What is it for? The struggle is for the world product."

The third set of problems, according to Wilson, are those arising from man's global mismanagement. Indeed, he said, until the recent Soviet invasion of Afghanistan, the Soviet threat had slid to eighth place on his list. Preceding the Soviet threat are what he called the Four Horsemen of the Apocalypse; the first, he said, is a Horseman called world hunger. "That Horseman represents the fact that out of the world's four billion people, a conservative figure of 400 million live on the ragged edge of starvation. Many authoritative sources say that as many as one person in eight is starving."

The Second Horseman, Wilson said, is a running mate of the first: overpopulation. "He is the millions of kids being born, more often than not, in areas that are already short in food supply. If people are starving now, what's it going to be like when the world population count is two and a half times larger — one trillion?"

Wilson's Third Horseman is waste and pollution. "He is what we're doing to the world's ecosystems, to the world's grasslands, croplands, forest lands, to the fish in the sea, the fact that we are using up the world's ecosystems, the world's produce, faster than it can be regenerated. Remember that North Africa, along the southern stretches of the Mediterranean, was once the granary of the Roman Empire."

The Fourth Horseman, Wilson said, is the diminution of the world's finite energy resources.

And what lie between these four and the Soviet threat in Wilson's position number eight? — the dangers posed by the recent phenomenon of domestic and international terrorism, nuclear proliferation ("What happens when a small dwarf nation-state headed by a dictator steals or manufactures a nuclear device and then tries to hold the rest of the world hostage, or uses this device cunningly to set the two superpowers at each other's throats?"), and the "sad and shaky state" of the United States and western European economies, plagued by the twin evils of unemployment and inflation at the same time. "These problems are transnational in character," Wilson concluded, "global in nature, and no one single country in the world, however powerful, can handle them alone. They

have to be handled internationally, and they belong to the Soviets as much as they do to us."

R. J. Woolsey, Undersecretary of the Navy from 1977 to 1979, proposed not a counterattack to General Wilson's pre-emptive first strike, but, rather, he came in with some support forces — and figures. "In general," Woolsey said, "we've become too convinced that there are no things that we can usefully *do* militarily in regard to the prevailing Soviet threat, because we have confused obtaining and using military force. This attitude has arisen in large measure because of the Vietnam war, where [our use of force] was not successful. The notion of obtaining military power — unused — for deterrents has been tarred, badly tarred.

"A second source of confusion," Woolsey said, "is that many people in the United States tend to project our own democratic debates and discussions and our real hesitancy about the use of military force onto the Soviet Union and assume that they will not be able to profit from the use of military power any more than we did in Vietnam. Many who hold that view also believe that acquisition of military power by the Soviet Union, even unused, does not make much difference because their use of it would be as unsuccessful as ours was in Vietnam."

In the last ten years, Woolsey pointed out, the United States has spent considerably less on defense than the Soviet Union, a reflection of our national hesitancy and confusion. "In 1980 dollars," he said, "we spent about 230 billion dollars on the Vietnam war. In the last decade, the Soviet Union has spent 265 billion dollars *more* than we have on defense; that is, measured in dollars, the Soviet Union has spent roughly what we spent on the Vietnam war *more* than we have in this period.

The Soviets have been spending about 12 percent of their gross national product on defense, Woolsey said; the United States has been spending 4.5 to 5 percent of its GNP on defense. "Last year the U.S. spent a smaller share of its GNP on defense than at any time since the beginning of the Korean War. . . . Defense programs have to respond to some degree to what is going on in the defense programs of other countries," Woolsey held. "We often forget that the most important social service a government can perform for its people is to keep them alive and free."

'The key to national security is the vigor of our economy'

Though General Wilson, R. J. Woolsey, and the other participants of the day principally addressed themselves to the faltering state of our nation's defense, one thing became rapidly — and dismayingly — clear: the physical security of the United States is inextricably bound to the nation's economic well-being. And so, during the second day of the symposium, a number of economists and political scientists — in case the economists had no answers — bravely faced the faltering state of our nation's economy.

On this day Richard N. Cooper, Undersecretary of State for Economic Affairs (since 1977) and former professor of economics at Yale, launched the first strike, speaking on "Economic Threats to U.S. Security in the 1980s." What do we mean by security? Cooper asked, and he suggested three definitions.

First is the conventional notion of security or, in other words, freedom from attack on our country and on ourselves. The conventional response to this notion of security, he said, is to have a strong defense establishment.

A second notion of security involves threats to our economic well-being, Cooper said, especially threats posed by interruptions in the supply of things that are crucial to the way we live — oil, for instance.

A third and still broader notion of security, Cooper held, is that of security in pursuit of our deepest values — our moral and religious and political values. "This last notion is not usually considered a security issue at all," Cooper said, "yet it continually thrusts us into foreign affairs in a variety of ways and therefore gets mixed up with more conventional notions of security and with economic issues. It is, I think, a secular reflection of the still-strong missionary tradition in the United States, in which we are not satisfied as individuals and as a society simply to look inward on ourselves and to look at the way we organize our own society, but we take great interest in the way other peoples organize their societies and whether they are consistent with our views of how they ought to organize their societies.

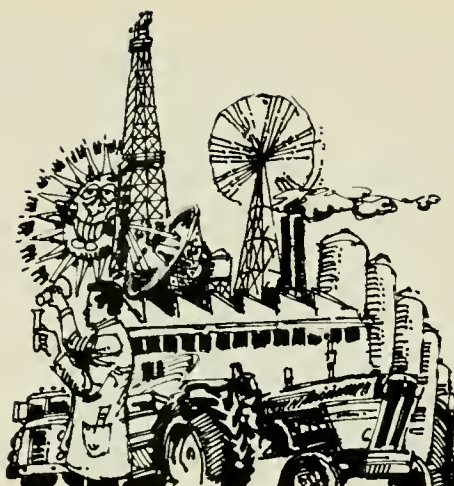
"What is the relationship of economics to the security of our moral values?" Cooper asked. "It may be that we simply cannot provide enough resources effectively to assure that the evils of hunger and poverty, and the social consequences that flow from widespread hunger and poverty, are diminished in a finite period of time, or even eventually eliminated. We have to recognize that, although we may wish it, we are not really in charge of the world and we cannot be in charge of the world. That's just not within our province. Other people don't want us to be in charge of the world and therefore we're not in control of the disposition of resources, assuring the effectiveness of their use, etc. The best we can do is to provide guidance, to provide technical help, and to provide the financial resources that facilitate the process of the alleviation of hunger, of the establishment of social stability, and so on. Most important in my judgment, we can strongly influence the overall economic environment in which economic progress in developing nations can take place. That means that we've got to maintain stability and growth in our own economy. We are, it is true, a diminishing share of the world, but we are still the largest single national unit, accounting for over one-quarter of gross world product and, therefore, our macroeconomic policies represent the largest single influence on the global economic environment. And, of course, our trade policies represent, again, the largest single influence on the possibilities for developing countries to specialize, to use their labor effectively, to export the things that they do well and import the things that they need. . . . But we cannot assure prosperity," Cooper said, "and furthermore, we cannot assure that prosperity, if achieved, will lead to the adoption of our values and our standards of life — that's really beyond our control.

"The second notion of security, that is, the secure enjoyment of our economic well-being, has become a matter of widespread public concern in the last decade, particularly since the oil embargo of 1973. The first sign — to the ordinary American — that something was wrong was in 1973, when sugar prices

went up by a factor of six, and oil followed sugar. The very sharp rise in sugar prices followed by the sharp rise in oil prices indicated that we were, in spite of our relatively low trading ratio, very sensitive to what was going on elsewhere in the world and that that could have a powerful impact on our well-being.

"There are, in fact, two conceptually different but in reality inter-related problems with oil: one is the vulnerability that we have to short-run interruptions in supply, and the other is the five-to-ten year outlook in the overall balance between demand and supply. When Saudi Arabia embargoed oil to the United States and the Netherlands in the wake of the Yom Kippur war in the fall of 1973, we actually didn't feel that embargo in this country — we read about it, but we didn't feel it because the international oil companies had sufficient flexibility in their distribution patterns that they could quite legitimately divert Saudi Arabian oil away from the U.S. and the Netherlands and shuffle other oil in, so that there was a minimum of disruption. But what that did was signal to OPEC the possibility of exercising its monopoly power, and the Shah of Iran led OPEC in the oil increase of December 1973. We saw interruptions again in 1979 when, because of an internal revolution in Iran, Iranian oil production dropped sharply from 5.5 million barrels a day down below two million barrels a day, later recovered to about three million barrels a day. Again, a major chunk of the world's oil supply was taken out of the system all of a sudden, not according to anyone's design, but just as a consequence of social turbulence and political instability. So that we have this kind of vulnerability — not only the U.S. but Europe, Japan, and many of that growing number of developing countries that have in fact established some kind of industrial base. Indeed, our own vulnerability in the U.S. is rather less than other countries because we produce, still, about half our own oil and have many other indigenous sources of energy."

The United States has devised a three-part strategy to address the problem of interruptions in the supply of oil, Cooper explained. The first move was the creation of a strategic petroleum reserve, one billion barrels of oil stored in underground tanks. Unfortunately, he said, the world oil market has been



under such heavy pressure in the last year that the United States, not wishing to place further pressures upon it, has made no purchases toward this strategic reserve beyond the one million barrels — one-tenth of the goal — already collected.

A second strategy to meet short-run interruption in oil supply is the internationally collaborative emergency oil-sharing system managed by the International Energy Agency (IEA), a twenty-nation organization with headquarters in Paris. Although, paradoxically, France is not a member, the IEA includes all the other major industrial countries, which account for 75 percent of the purchases of OPEC oil. "If the shortfall in oil to the IEA countries exceeds 7 percent," Cooper explained, "a kind of international rationing system goes into effect whereby each country gets its pro rata share. We have not actually used that system — the shortfall in oil supply in 1979 was not as great as 7 percent — but we have run the equivalent of fire drills in the IEA system and it seems to work."

The third part of the strategy, according to Cooper, concerns the United States's relations with the oil-producing countries of the world. "We want to maintain good relations with these countries," Cooper said, "so that when, as happened in 1979, we lose a major component of supply, the other OPEC countries, and non-OPEC-member oil exporters — like Egypt, the United Kingdom, and Norway — insofar as possible can fill in. Indeed, in 1979 the other OPEC nations increased their production substantially in order to fill in for the decrease in Iranian production.

"The second problem in the oil area

is the median-term problem," Cooper continued. "If one projects over the rest of the decade on the basis of historical relationships between the demand for oil and the supply of oil, this commodity is going to become scarcer and scarcer. We will not have adequate supplies of oil prospectively to satisfy the demand for it, so the question therefore is, How are we going to bring the projected demand for oil and the supply together in the future? There is the traditional market mechanism, which is that if demand exceeds supply, the price will rise; that will induce people to cut back on their demand, it will also evoke some additional increases in supply, and that will solve the problem. That's what we normally do with markets where there's a prospective imbalance between supply and demand. The problem with that solution in the case of oil is two-fold: first, at least as far as some of the OPEC countries are concerned, they have what the economists call backward-bending supply curves, that is to say, their revenue needs are such, and the inelasticity of demand for oil is such that as prices go up, their revenues go up, not down, and therefore the incentive for them to produce more oil is actually diminished. That is especially true of countries like Saudi Arabia, like Kuwait, like the Arab Emirates, where they have trouble even now using all the revenues that they have. So supply does not respond, at least fully, in the conventional way.

"The other problem with just allowing the market to do it is that the sharp rise in the price of oil has powerful macroeconomic effects — it simultaneously contributes to inflation and has a depressing effect on the world economy and therefore greatly complicates the sound macroeconomic management of our economies. My own view is that price does represent part of the solution — we have to let prices rise; but price is also part of the problem — and therefore we have to take actions to avoid price increases to the extent that we can do so. It is that proposition that really underlies President Carter's energy program, designed to keep U.S. demand for oil from growing and, in a way, to de-link the demand for oil from economic growth. We'd like to break that historical relationship between demand for oil and economic growth. We have had discussions with other major consuming countries — Japan, Germany, Britain — so that they are on a

roughly analogous track. I suspect the upcoming economic summit in Venice in June will have a similar focus.

"If we fail to solve this problem," Cooper continued, "we can look forward, during the 1980s, to slower growth in the world economy with devastating effects for developing countries; to more inflation in the 1980s; to a highly divisive and corrosive competition among countries that have become close allies — the major countries of western Europe, the United States, and Japan; to a scramble for a crucial limited resource — oil; and finally, a dangerous vulnerability to interruptions in supply, either as a consequence of political turmoil like we saw in Iran or as a consequence of military action, such as the Soviet movement towards the oil fields of the Persian Gulf. It is worth noting here that the perception of Soviet actions in the Middle East is one of encirclement — they see the Soviet Union coming through Ethiopia, South Yemen, and now see the invasion of Afghanistan, and this looks to the Arabs like a vast pincer movement right around the oil fields of the Persian Gulf."

In closing, Cooper returned to national security in the more traditional sense of the term. "The key to national security," he said, "is the vigor of our own economy, its innovative capacity, and the share of resources that we are willing to devote to defense. . . . While it is true that the Russians have outspent us over the last decade by a considerable margin, we believe it to be true that we maintain a very substantial technological edge on them in terms of our military capacity. This remains the balancing item between the Soviet Union and ourselves. It is important, however, particularly if we are to continue to restrain our spending, that we maintain that technological edge and, therefore, it is important to direct expenditures to those kinds of things that create a base for future technical change and for future innovation." The United States has not, Cooper said, been spending enough on basic research—in universities and in non-university research institutes. "Basic research requires more support," he said, "for not only does it provide a base for innovation in our military system but also for future technical improvements in the civilian economy as a whole, which historically has been the most vigorous part of the American economy."

'We don't have a real consensus about what our problems are'

For those who did not find Richard Cooper's message sufficiently dismaying, his presentation was closely followed by that of Peter G. Peterson, president and chairman of Lehman Brothers Kuhn Loeb and former Secretary of Commerce (1972-73), who sprayed forth such a barrage of devastating statistics — rather in the manner of a Gatling gun — as to leave his audience riddled. Here, in summary form, are some of them:

□ Between 1870 and 1950, the United States's growth in productivity was about 1.8 percent a year compounded. Compared to such countries as France, Great Britain, West Germany, and Japan, the difference was only about .7 or .8 percent annually, but compounded over eighty years, this made the difference between the United States and the United Kingdom, and it enabled the U.S. to become a true power.

□ Our serious decline in productivity in the last ten years, projected ten years into the future, shows that France, Japan, and West Germany are quickly catching up and in ten years will have higher purchasing power than the United States.

□ There are several countries that paid workers more in dollars in 1978 than the U.S. worker was getting paid.

□ Up until about five or six years ago, an American could expect that his real standard of living would approximately double every generation. But for the last six years there has been no real increase in the standard of living for typical Americans and there is a very real connection between the slowdown in productivity and what is happening to the standard of living of our people.

□ Our rate of growth in productivity in manufacturing is exceeded by every major country except the United Kingdom, often by two-to-one or four-to-one margins. One of the few areas where growth in productivity is improving is in communications. Also, one of the few exceptions continues to be our absolutely astounding productivity, vis-a-vis the rest of the world, in agriculture. Our trade pattern is beginning to look more and more like that of a developing country.

□ The Japanese economy, which is

still much smaller than ours, has also had a roughly comparable number of deficits in absolute terms, but a much higher percentage in relative terms. Their economy has had to absorb, relatively speaking, a much heavier burden of oil imports than we have. Our trade balance on food has increased dramatically — it's gone up over \$12 billion since 1970. The Japanese have fallen about \$10 billion, so in addition to a \$30-billion oil deficit, they have had to absorb a \$10-billion larger food deficit. In addition, they have had to absorb a \$10-billion larger deficit in raw materials because they have neither food, energy, nor resources. In spite of what's happened to their exchange rate, in a period of only eight years the Japanese trade balance on manufactured goods has gone from \$12 billion-plus to \$76 billion, or a \$64-billion improvement in their manufactured-goods trade surplus. There is a corresponding surplus in the West German trade balance.

□ If you project a 12-percent rate of inflation to the end of this century, for instance, \$1 today would be worth about 9 cents at the end of the century.

□ Our savings rate in this country is but a small fraction of what it is in other countries — one-third to one-quarter of the consumer savings rate in Japan — and in the last five years it has been falling off considerably.

□ Our share of investment abroad is four or five times greater than foreign investment in this country.

□ Our support of the Western system — the Third World countries — is significantly less than in 1970, yet Japan continues to put a tiny share — about 1 percent of its GNP — in support of the Western system.

□ We have a tax system in which at every level tax revenues go up much more than incomes do: if your income goes up 10 percent, taxes go up 15 to 17 percent. This encourages spending what's available.

□ We alone among industrial nations are now spending significantly less on research and development than we used to spend.

□ Our technical trade with Germany and Japan has deteriorated dramatically; the deficit now with Japan on technologically intensive products is up

to \$13.5 billion.

□ We have not developed many growth fields for export. Not only do exports create jobs, but they are also anti-inflationary in two ways: they strengthen our dollar, but more than that, they lower unit cost, and this is one of the lessons we haven't fully learned from our foreign competitors.

□ Estimates of what the debt of the non-oil-producing developing countries will be, using conservative assumptions, is something approaching \$650 billion dollars (the aggregate number). What percentage of exports will it take just to service that debt? These countries won't be able to buy other products, so the question is, Who's going to lend them this money and what will happen if they don't?

□ We have let our productive plant not only become out of date, but become unproductive. In the next ten years, we're going to have to put a great deal more into re-tooling it and this will turn out to be anti-inflationary. But we can ask, Why hasn't this been done and what does it take to get it done?

□ One of the alarming things is not that we have special-interest constituencies, but that we don't seem to have a political mechanism for resolving these different points of view in a way that doesn't aggregate to total expenditures. Setting limits on the percent of income we're going to put in government expenditures forces all of us in a democratic way to have our debates but also to say that some of our programs are not for the general good. With the Social Security system, for instance, in which the public today is not aware of the aggregate costs and the projected costs, small differences announced now could make an absolutely dramatic difference ten to twenty years from now. A small change like moving the retirement age from sixty-five to sixty-eight would make a decisive difference with respect to costs.

What can we do about some of these things? Peterson had three suggestions. We can ask our allies to contribute more to the common defense — why shouldn't Japan be contributing substantially more than it now does to the naval defense of the sea lanes, given its resources, its steel capacity, its ship-building capacity, and its heavy dependence on imported oil? We can ask the oil-producing countries to contribute much

more than they yet have to support the developing countries of the world. And, Peterson said, we should be willing to consider reforming in some ways the world economic institutions.

"You can look at the American economy very pessimistically at the present time," Peterson concluded, "but you can also remember three or four things. Our agricultural productivity is the marvel of the world. We have resources that would make Helmut Schmidt drool. We have the best-educated work force in the world. While our percentage in technology is slipping, it is still much more than in other countries. Finally, as I think the Watergate phenomenon indicated, we are a responsive society if it is clear to us what we are responding to. I think part of the problem at the present time is that we don't really have a consensus about what the problem is."

Other participants included: Vice Admiral Julian Le Bourgeois, former president of the Naval War College; Robert Bathurst '76 Ph.D., Russian intelligence specialist and former attaché to the U.S. Embassy in Moscow; Frank Trager, director of national security studies at New York University; Steven Van Evera, Ph.D. candidate at Harvard; Benjamin J. Cohen, William Clayton Professor of International Economic Affairs at the Fletcher School of Law and Diplomacy; Charles Lipson, assistant professor of political science at the University of Chicago and a visiting scholar at the Harvard Center for International Affairs; Robert G. Wilson, manager of energy policy for the Exxon Corporation; Penelope Hartland-Thunberg '40, director of economic research at the Center for Strategic and International Studies at Georgetown University; George Borts, professor of economics at Brown and managing editor of the American Economic Review; and Robert L. Paarlberg, assistant professor of political science at Wellesley College and research associate at the Harvard Center for International Affairs.

MEDICAL EDUCATION

Preparing for the year 2000

By Pierre Galletti

The students of the Brown M.D. class of the year 2000 are already in grammar school. 1984 is upon us, and if 2000 sounds remote, it is only because of our inability to predict the future. Or could it simply be reluctance to face the image of a world in which we are not comfortable?

Medical education at Brown has changed markedly since the fall of 1963, when the first master of medical science (M.M.S.) students entered the College. These changes, while motivated by local considerations, have also reflected shifting viewpoints of medical educators in the past twenty years: curricular emphasis on basic sciences versus clinical orientation; official projections of a scarcity, then suddenly a surplus of doctors; accent on the unique doctor-patient relationship versus concern for the societal and communal aspects of health care.

In the process of increasing governmental interventions in the affairs of American medical schools, a new image has grown: educational institutions are now expected to participate actively in resolving social problems outside of their academic boundaries. This trend has blurred the distinction between public and private medical schools. It has also stretched student and faculty loyalties beyond their home institutions toward nationwide interest groups. The Association of American Medical Colleges (AAMC) entertains the dream that it will replace the American Medical Association (AMA) as the main professional force that will shape the future of American medicine.

Will it? Will educational institutions indeed assume an increasingly greater role in shaping the society of tomorrow, or will they withdraw to a more traditional position, that of formulating ideas and reflecting on

broad issues while staying away from the firing line?

Here we face a paradox. In 1980 the fiscal support of medical education from government sources, national organizations, and foundations will be actually less, in percentage terms, than it was ten and twenty years ago. This shift has not decreased the appetite of national agencies for regulation and influence. It is the unwillingness of medical academicians to question and resist their professional peers on the other side of the influence line that seems to encourage pressure and even interference in the affairs of individual schools.

Perhaps a balance will be found between ivory tower attitudes and itching for the front line. It may result from a better appreciation that



Pierre Galletti.

individuals can be committed to social action without dragging along their institutions. Private schools may also find out that they can be involved in facilitating and coordinating public services without necessarily assuming responsibility at the operational level.

Among the major lines of societal impact on medical education at Brown, I see at least four that will be reflected progressively in our curricular offerings:

□ The American population is growing older and the health problems of the elderly, complex and chronic as they are, will increasingly have an impact on the health care system. Aging as a biological problem, geriatrics as a medical specialty, gerontology as a pluridisciplinary

approach to the quality of life in the golden years, will of necessity attract the attention of our faculty and students. Brown will have the opportunity to build an academic basis for a field of study that should bring together biological and behavioral sciences, epidemiology, sociology, anthropology, economics, and more.

We have already made a start with the organization of the Institute for Rehabilitation and Restorative Care. Adequate treatment of chronic and degenerative diseases is in significant part a matter of imaginative coordination of services founded on longitudinal outcome studies. We seek to develop for the Institute academic strength on campus, a hospital focus, and a network of agencies involved in ambulatory and home care, all served by the same data base. The challenge is to insert this orientation into the traditional frame of reference of our medical and University faculty.

□ Emphasis on health problems of the elderly and the disabled will reinforce the trend toward a more diversified setting for medical education. Hospitals will continue to be the focus of organ system or specialty-oriented education, but ambulatory and satellite facilities, hopefully related to teaching hospitals, will provide the setting for continuing person- and family-oriented care. Here again, we have made a remarkable start with our network of associated institutions, both in Rhode Island and out of state. Our proposed association with the Dartmouth Medical School [BAM, March] could expand these opportunities toward rural New England.

□ Industrial medicine is a much neglected problem in the U.S. One of the most effective ways to deal with the human impact of environmental pollution is to study it where most people spend most of their waking hours — at the work site. Concern for environmental health in our curriculum and in research will require strength in fundamental sciences such as toxicology, pharmacogenetics, and environmental pathology, as well as clinical sciences such as oncology and respiratory pathophysiology. This is an area in which Brown could extend its partnership with the

private sector of our local economy, and truly expound the concepts of preventive medicine.

□ Neglected in most medical curricula is a study of the growing impact of technology on all aspects of tertiary care. The current emphasis on social and behavioral sciences in the early stages of medical education sometimes conveys the notion that these problems are primarily ethical or legal, and that the physical sciences are not as important a background for medical therapy as was once thought. This is dangerous and irresponsible. If we follow that route, we will educate a generation of physicians incapable of appreciating the impact of complex drug delivery systems, computers, implantable devices, and electro-mechanical prostheses of all sorts, which will represent a major share of medical treatments and medical costs by 1990.

There is no intrinsic conflict between social concern and scientific competence in physicians. Indeed, personal and social problems deriving from increased reliance on biotechnology certainly require humanistic orientation on the part of physicians. However, the technical and economic aspects of the same biotechnology cannot be appreciated without a solid foundation in the physical sciences. This is why medical schools must devote curricular time to biomedical engineering in order to expose future physicians to concepts of treatment that are becoming increasingly common. If the next generation of medical doctors cannot formulate scientifically informed judgments on such matters, the control of a major part of therapy may fall into the hands of a new "medico-industrial establishment" reminiscent of the military-industrial complex denounced by Dwight Eisenhower in the late 1950s.

How much of this will happen at Brown and how soon? It will be a matter of imagination and resources, but please reflect, the next millennium is not far away, and we must prepare for it.

Dr. Galletti's essay first appeared in Signs and Symptoms, a publication of the Program in Medicine, and is reprinted with permission.

By Janet Phillips

A MORALITY PLAY (in one act)

Characters

THOMAS BECHTEL, dean of counseling.

JOHN ROBINSON, dean of students;

JOHN ENG-WONG, assistant dean of students; RABBI RICK MARKER, associate chaplain; and various other administrators.

CHUCK KELLER '80, chairman of the Association of Fraternity Presidents.

JEFF LEVY '80, T.L. HILL '82, JOAN MUNVES '80, JANE McILMAIL '81, student discussion leaders.

Seventy Brown undergraduates.

(Scene: Arnold Lounge in the West Quad, on a weeknight in March. The occasion is a "candid discussion" of "Relationships at Brown: An Exploration of Dating, Living Together, and Marriage in the University," sponsored jointly by the Association of Fraternity Presidents and the Office of Student Life. Orange posters announcing the forum — illustrated with the balcony scene from Romeo and Juliet — are tacked to the walls, and several dozen chairs and couches are arranged in a large semicircle. BECHTEL, ROBINSON, the discussion leaders, et al., are milling around as a slide projector and screen are set up in the center of the room. Students start to arrive, first in trickles, then in droves, until the room is filled to capacity. There is a sustained buzz of conversation.)

GIRL (in a loud whisper to her neighbor): This could be mega-bad. I see a lot of people here I don't like.

(CHUCK KELLER gets up and stands in front of the projection screen.)

KELLER: Hi, I'm Chuck Keller, and I'd like to welcome you all here on behalf of the Association of Fraternity Presidents. Tonight's discussion of relationships at Brown is jointly sponsored by the Office of Student Life, and our moderator is Tom Bechtel, dean of counseling.

BECHTEL: I think we're all very



impressed, even surprised, by the turnout tonight. The AFP approached this seriously; it's a topic that touches on something very important that's often not dealt with in helpful ways on this campus. One of our local alumni who's very involved with Brown was asking about the social atmosphere on campus. He and his wife often hire Brown students as babysitters, and he told us that three different girls — none of them social misfits — had told him they liked Brown a lot and were getting a lot out of it, but that they were terribly lonely here. Admittedly, three is a very small statistical sample, but it raises some questions that we hope to address tonight. We're going to see a slide show first, then break up into discussion groups, although we may be somewhat hampered by the size of the turnout. I'd like you to count off by one's and two's so we can split into two groups — and please remember who you are.

(Everyone counts off out loud. The lights are dimmed, and the slide show — with a loud rock soundtrack — proceeds by fits and starts. Lots of pictures of fraternity parties. Students eating in the Ratty, students playing hall hockey, couples necking on the Green, more fraternity parties. Interspersed with the rock numbers on the soundtrack are students' comments on relationships at Brown.)

MALE VOICE: I think relationships at Brown are a matter of seeking rather than finding. You have the seekers, and then you have those who don't even bother seeking.

MALE VOICE: Relationships at Brown are all sex and no play.

FEMALE VOICE: When I was a freshman, I wanted to find a boyfriend my first month — you know, that whole Barbie and Ken image. But now I'd rather just date people casually without any commitment. I've got a lot of work to do, and commitment just takes up too much time. It's too much of a hassle.

MALE VOICE: Relationships at Brown? Don't hold your breath. *(Loud laughter.)*

FEMALE VOICE: I was at a frat party one night and this guy I know comes up to me and says, "Hey, I've got a gram of coke in my room. Let's go up and do some coke and then have sex." I wanted to say, "Wow, man, you're offering me a gram of coke when I would have done it for free!" *(More*

laughter.)

FEMALE VOICE: I know I'm thought of as someone who sleeps around, because I have sex with more than one guy — I see more than one person at a time. But I think there's a real double standard. If a guy sleeps around, he's considered a stud, but if a girl does the same thing, she's considered cheap, an easy lay.

MALE VOICE: You know you want something more than sex, but you don't know how to deal with that. How do you go about getting it without your identity being submerged in this other person?

(The lights go on. Students look keyed up — shifting in their chairs, talking to each other.)

BECHTEL: Okay, let's have the one's on that side of the room and the two's on this side. Just arrange the seats in a circle.

(Chairs and couches are dragged around the room to form two large ovals. Each group contains about forty people. BECHTEL remains standing in the middle of the room.)

BECHTEL: We find that people's attitudes and values come out when they're asked to give advice to someone else. That's when they say what they really think. We have copies here of some of the questionnaires we passed out last week to students about relationships at Brown, and one of the questions was "What advice would you give to next year's freshmen about relationships at Brown?" I'd like to ask the discussions leaders to read out loud the answers that people gave.

DISCUSSION LEADERS *(by turns)*: "Don't go overboard in your first two months at Brown." "Don't be pressured into anything." "Be cautious in relationships — don't feel rushed. Make sure you're ready for various commitments you're making." "Be looser, freer, and date without the constraints of sexual expectation." "Take risks."

BECHTEL: Now, I'd like to ask you all to close your eyes, relax, take a few deep breaths, and we're going to take you on your own slide tape through your own experiences. *(Everyone obediently closes his or her eyes.)* You're on the Green next fall, sitting on a bench or the grass, and up to you comes a good friend from your home town, someone you really care about. He or she is a

freshman and has just arrived on campus. What do you say to each other in greeting? They start talking about their feelings about Brown, and they say they're glad to be here, but they've really had a tough time this week — everybody's on the make, and they'd like to just cash it in and go home. What would you say to them? Then they ask if that's how it was for you, if you're telling it straight. What do you say?

(Students open their eyes and look expectantly around the group. Silence.)

JEFF LEVY: Anybody want to volunteer?

BOY *(nudging his neighbor)*: Come on, Mark. *(Mark laughs and shrugs. More silence.)*

BECHTEL: Why don't we split up into four groups instead of two. . . . Just divide in half, like so, and each discussion leader take one group.

(Again, with much shuffling of chairs, the students regroup into circles of twenty or so. People have to speak up to be heard above the voices in the neighboring groups.)

JEFF: What advice would you give to a freshman? What was freshman year like for you?

FIRST GIRL: I found my first week at Brown that people either lived together or hung out in groups. It's difficult to break out of that, to take the time to figure out who you want to see and go through all those hassles.

FIRST BOY: I've never really gone on a "date" here at Brown, where you call someone up and ask her out to a movie or whatever. Usually, the people you date are people you hang around with, and you just go to dinner together, stuff like that.

SECOND BOY: When I first got here, I really made an effort to meet people and be friendly. But I found that if you try to meet people, and if they're of the opposite sex, they assume you're just out to score.

SECOND GIRL: I was nervous about being here from a very small high school, and I felt sort of overwhelmed at first — I was scared of people. It takes a while to feel confident enough in yourself to trust other people.

THIRD GIRL: I had this image when I came here that we were all going to get along. But freshman week when everyone was hanging out together and engaging in all these high-school pur-

suits like drinking beer, it seemed forced and unreal. So I basically withdrew and stayed alone, because I didn't want to be phony — although I didn't want to be shy either.

FOURTH GIRL: I spent a lot of Saturday nights in the Rock my freshman year to block out that loneliness. Freshman year can be pretty hairy — it seems like everyone's out to impress someone, to just collect as many friends as they can.

BECHTEL (*interrupting*): Okay, now we'd like you to sit back, close your eyes, relax, and think about your parents — or if that doesn't work for you, think of an older, wiser person you know, someone you trust and feel close to. You're at your desk and you're writing a letter home to your folks or to that older person. You tell them, "I was at a meeting tonight, and we talked about life and relationships at Brown, and I wanted to write you an honest letter. I want to tell you about my best friend at Brown — the things we have in common and enjoy talking about, the things we have a hard time with, that get between us. This friend is really important to me, and I think the most important thing about this person to me is . . . In spite of them, I'm lonely here sometimes, and I think that's because . . . One of the things I wanted to say about being lonely is . . . What I've really wanted to hear from you sometimes is . . ."

FIRST GIRL: That's funny, I just wrote a letter like that to my parents. They've always been very negative and disapproving of the choices I've made and the things I do, and I wanted to try and get through to them.

FOURTH GIRL: I wrote a letter like that, too. I'm a senior this year, and my boyfriend and I are planning to live together after we graduate. My parents thought it was a bad idea when I first told them, so I sat down and wrote them a letter explaining why we wanted to do it and how I felt about it. I got a great letter back from my mom — I wanted to Xerox it and paste it up all over campus as a perfect example of the kind of letter parents ought to write to their kids. She said they understood and respected my decision, and that they love me for making my own decisions, for being who I am. She said, "I'd almost rather be young in 1980 than in 1940, because you have so many more choices than we had."

FIRST GIRL: My parents respond-

'You want more in a relationship than sex'

ed negatively to my letter.

THIRD BOY: One of my big problems here is that my life is so piecemeal — classwork, social life, and athletics are all separate from each other — and it's hard to find one person I can share all those things with. And I found that the only place I was meeting women was at frat parties. It's hard to get to know people well in that kind of atmosphere, if you're interested in more than just picking someone up.

FIRST GIRL: I agree, it's really hard to find someone you can share everything with — even when it's someone you've known and loved for four years (*she turns and smiles at her boyfriend next to her*).

FIFTH GIRL: I think it's a lot to expect our parents to understand us completely, because we're partly still their kids and partly grown up and *not* their kids any more.

BECHTEL: Once more — and this'll be the last one, since we promised to let you out of here by 9:30. Close your eyes, relax, and imagine you're in a comfortable, familiar place with your parents, and it feels good to be with them. One of the things you want to tell them is about a time when you were younger and you felt really good and special, and what they did for you that made you feel that way. Then think of a difficult time with them. Tell them something you appreciated about their relationship, and also something you wish they'd done differently as spouses and as parents. Imagine yourself ten years from now. Tell them where you'd like to be, what you'd like to be doing — do you see yourself married or single, with or without children?

THIRD GIRL: My dad passed away four and a half years ago, and my mom and I have gotten really, really close since then. If something happens, she's usually the first person I think of calling. But since my dad died, she's blown up her marriage to him into this magnificent relationship, and I feel this tremendous pressure on me to have an equally magnificent marriage.

THIRD BOY: I guess my best mo-

ment with my parents was my sophomore year, when I scored a touchdown in a football game. They were here watching the game, and my dad was really excited and proud. The worst moment was when I was in high school. My mom and dad and I were in the kitchen, and Dad started giving her a hard time and getting on her case. I knew she didn't deserve it and he was in the wrong, and I said so. That was the first time I'd ever really stood up to him man to man, and he said, "Don't tell me what to do — I'm your father." The upshot was that he and I got into this physical wrestling match, and I beat him. I felt terrible about that, and I still feel bad now when I think about it.

JEFF: Anybody else want to share anything about their parents?

FIRST GIRL: I can't really think of anything my parents ever did that made me feel good, but I can think of a whole lot of things that were negative — too many to pick out one in particular. Every time I've felt good or special, it was because I'd done something on my own and felt proud of myself or good about myself, not because of any feedback I got from them.

JEFF: I guess one of the problems we're dealing with is that you want your parents to be happy with what you do, but you also want to be your own person, and those two don't always mix. (*Everyone nods.*)

BECHTEL: I want to thank you all for coming tonight, and I want to thank all the people who helped put this together. As you know, there's wine and cheese over in the Delta Tau lounge in Wriston Quad, and those of you who want to can adjourn there.

(The crowd files out and disperses into the night in couples and small groups of three or four. About fifteen people amble over to Delta Tau, where a spiked fruit punch and cheese and crackers have been laid out in the lounge. Within five minutes, the cheese is gone. Amid the low hum of conversation, a blond girl in one corner is talking to her former boyfriend and absently picking at the crackers.)

GIRL: I don't get it. This was supposed to be about relationships at Brown, and we never even talked about sex.

CURTAIN



'At a commune in the mountains of northwestern Sichuan [in China], I took this picture from inside the Revolutionary Committee's headquarters while I was eating lunch. These people had not yet seen me, but heard I was inside and were waiting for me to come out. I was the first Westerner to visit this place.'

— *Lucile Jones '76, one of the first foreign scientists to work in China since the late fifties*

A Seismologist Shakes Up China

By Susanne Woods

If you are ever caught in an earthquake, move under a door frame away from a window. And if you happen to be in a New England wood frame house, you will probably be quite safe no matter how severe the earthquake is.

So says Lucile Jones '76, who is quickly becoming one of this country's foremost authorities on earthquakes and earthquake prediction. Jones, who is completing her doctoral work in geophysics at MIT, last year became one of the first foreign scientists to work in China since the Russians left twenty years before. Despite her youth, the blond Californian was a natural choice for the new exchange program sponsored by the National Science Foundation and the Committee for Scholarly Communication with the People's Republic of China. Her degree from Brown is in Chinese language and literature, the culmination of a long-standing interest in China that arose quite naturally from her background. Her grandfather, a missionary and scholar, first went to China in 1915 and her father, two uncles, and an aunt were all born there.

"My dad and aunt and uncles were all ecstatic that a Jones was going back to China," she says. "They were really happy about it."

What was ultimately a personal visit was first and foremost a scientific one. Like Jones's native California, China is a center of earthquake activity. The Chinese welcomed her expertise in seismology and rock mechanics, and she was able to study some important work being done there.

"The Chinese have successfully predicted several earthquakes," she says, "and while some of their work may not be useful here in the United States, earthquake prediction is something we can really learn about from the Chinese."

According to Jones, current thinking attributes most earthquakes to the interaction of the vast areas of the earth's crust known as tectonic plates, which encircle the planet like large pieces of a jigsaw puzzle. Unlike jigsaw-puzzle pieces, however, the earth's plates do not fit perfectly together and are in continual motion, adjusting to each other and to the energies that reside below the earth's surface. California's famous San Andreas fault is in fact simply the border between two plates — the North American, on which most of the continent is set, and the Pacific, which stretches out under that great ocean. The fault runs directly under San Francisco, takes a dog-leg turn just north of Los Angeles, and moves down

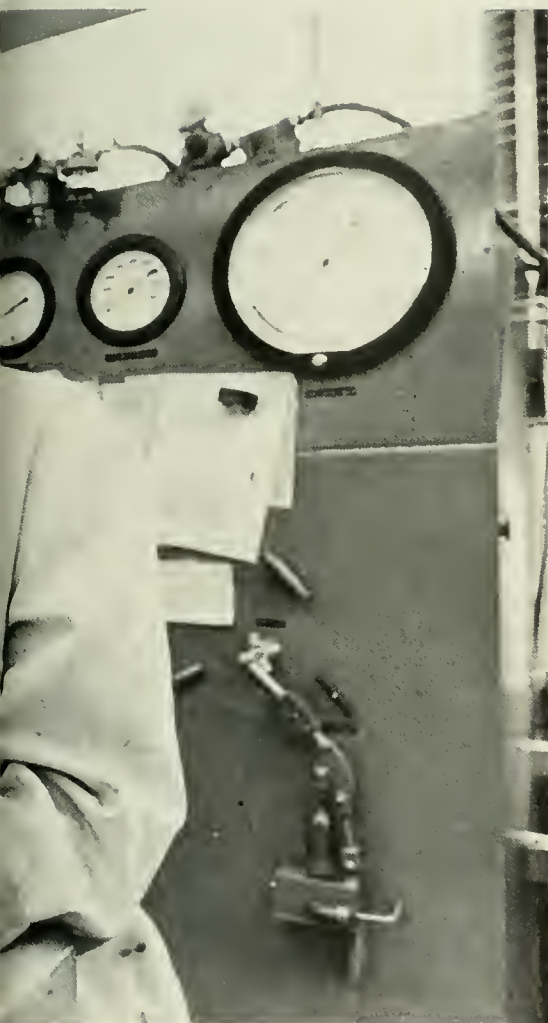
The author has been on sabbatic leave this year in California engaged in "nice dusty scholarship" not far from the San Andreas Fault. She is an associate professor of English at Brown, specializing in Renaissance literature.



through San Bernardino past the Mexican border.

"Most earthquakes occur at the boundary between two plates," Jones explains. "Rock is being created at one plate ridge, and it moves outward and overlaps another plate so that one of them goes down beneath the other plate. This is what is happening in Japan, Chile, and Alaska, for example, and it's a fairly straightforward process. The San Andreas fault is a more complicated situation, in part because of the bend in the plate just north of Los Angeles. In addition, the two plates involved, the Pacific and the North American, are not overlapping. They are moving side by side, and that creates slippage without one plate going under another or new rock being formed."

Lucy Jones pauses for a cup of coffee in the MIT laboratory where she is working on her Ph.D. in geophysics.



JOHN FORASITE

Earthquakes are triggered when "two blocks of rock move with respect to each other," Jones adds. "If rock surfaces were frictionless, then when the impetus came for the rocks to move, they would just move. But friction makes the rocks stick together, and energy gets stored in the rocks until it accumulates enough to move them. Although the energy has been stored very gradually over the years, it moves very suddenly. It snaps in an elastic movement, just like a violin string, and a wave passes through the earth. That's why an earthquake can be felt far away from its center — one in Malibu, say, could be felt in Beverly Hills, or one in Providence could be felt in Newport."



The largest earthquake ever recorded in the continental United States occurred in the early nineteenth century in Cairo, Missouri, and Jones notes that it was felt in New York and all over New England. "We have clear evidence that it was felt in Boston, and that's a long way from Cairo, Missouri. You still get small earthquakes in Cairo, but no one knows what made that one so large."

The toll in lives, suffering, and property damage can be very great when a strong earthquake hits, particularly in highly populated areas where structures are not designed to handle the shock. A series of recent earthquakes in California have reminded the public how important preparation is, and a very large earthquake is generally predicted

In China, Lucy located the summer house used by her family when her grandfather was a missionary.

for the southern California area within the next few years. But despite recent concerns about that one, Jones insists that California is not going to fall into the ocean.

"That's a novel-writer's device. It's not going to happen. All that will happen is that one plate will slip a few meters beyond the other one. The energy that could come out from that could throw off a lot of buildings, but it's not going to throw California into the ocean."

While a major earthquake is expected in California, there is no agreement among seismologists as to precisely when it will come. And it is this problematic area of earthquake prediction that drew Jones to work in China. Jones was particularly interested in studying earthquake foreshocks in China, but she also investigated other aspects of Chinese earthquake prediction, such as the behavior of animals.

"In my request to come to China," she says, "I had specifically asked to study the Haicheng foreshocks, and the Chinese scientists were wonderfully cooperative. I was up in Shenyang, Manchuria, reading the seismograms for the area, ten days after I arrived in China." It was hard on the eyes, she says, but she came away after four days with considerable data for American computers to analyze.

"The problem with using foreshocks — that is, small earthquakes that precede a larger one — to predict a large earthquake is that we still don't know until after the fact whether a small earthquake is a foreshock or just a small earthquake, with no big one to follow. There were nearly 500 small earthquakes that preceded the large Haicheng earthquake of February 4, 1975, and the Chinese had located these small earthquakes by means of compass and graph paper. There is only one computer, an old-fashioned tube computer, for the whole Chinese Academy of Science, and the Seismology Bureau cannot easily get computer time. We have more advanced techniques with our computers for locating earthquakes, and we should be able to reduce the error and see more exactly where the Haicheng foreshocks occurred, with the possibility that there could be some distinct pattern in their distribution that might say they were foreshocks rather than other earthquakes."

According to Jones, Chinese science is very bureaucratic, so when she turned from studying foreshocks to other aspects of earthquake prediction, she had to move from the Seismology Bureau's Institute of Geophysics to its Institute of Geology. While there, she heard about the Institute of Biology, which is the smallest of the Seismology Bureau's research units, with about twenty to thirty scientists working on animal behavior in relation to earthquakes. Although its work is not central to Jones's own investigations, she found it particularly interesting.

"There are many fully verified reports of anomalies in animal behavior before large earth-

quakes," she says. "In the commune of Ping Wu, in Songpan in northwestern Sichuan, for example, there was a series of three very large earthquakes — magnitude 7.2, 6.7, and 7.2 — on August 16, 1976, that the Chinese successfully predicted. Part of that prediction was based on animal behavior. One night several weeks before this earthquake a pack of dazed rats appeared in a village in the area. They didn't react at all to human beings, and so over a hundred of them were killed in one night. About a week before the earthquake, birds showed up in a plains area where they had never been seen before. It turned out that they were indigenous to a mountainous area very near the epicenter of the earthquake. There was also a case where pigs broke out from their enclosure and ran away. Fish in a pond all came up to the surface and tried to jump out. A wild rabbit jumped up onto a farm roof and wouldn't come down. And there were more."

Although there was no recorded evidence of foreshocks for the Songpan earthquakes, one theory is that the animals were reacting to unobservable foreshocks.

"There's also a theory that gases might be coming out of the ground, and they're reacting to that," Jones says. "Before the Songpan earthquake there were reports of gases bubbling up out of wells and rice paddies, and of changes in the taste and chemical composition of the water. There were fireballs seen coming up out of the ground, about a foot across, shrinking as they rose up to a height of about three meters. They were described as looking like 'the flame of a newly lit match.' Although they insist in Sichuan that they don't really know what it is, their theory is that it could be methane gas. And that's a definite possibility. Or there may be changes in the electrical output of the ground, with ionization of the air."

The importance of this research cannot be questioned. Most scientists agree that lives can be saved — and that in China in recent years they have been saved — by research in earthquake prediction. The preparation of the people at Ping Wu was quite a change from the situation in 1556, when the most destructive earthquake ever recorded worldwide killed 850,000 people in the ancient capital city of Xian, in Shaanxi Province. Most of the people lived in caves, where loose dirt buried them when the earthquake hit.

Jones emphasizes that earthquake safety depends on general preparation as well as prediction. The greater the magnitude of the earthquake, the more important it is to be prepared. "Magnitude," Jones notes, "is a very rough way of measuring how large an earthquake is. The strongest ever recorded registered a magnitude of 8.7, although at that level the recording mechanism itself, which is based on the amplitude of a wave over a period of twenty seconds, is probably inadequate. There is no way of identifying the lowest magnitude of an earthquake, but to give you an idea of what these rough estimates mean, mag-

**'California
is not going
to fall into
the ocean'**



In China, Lucy posed with her fellow authors of a paper for the Journal of Seismology.

nitide 5 is where you start to do damage." Although scientists prefer to use a more accurate measure of energy called "moment," the more quickly accessible magnitude measure still provides a good general idea of a quake's force. And it is at about magnitude 5 that you would be glad to be living in a wood frame house.

"Structures that are flexible are important for earthquake safety," Jones maintains, "and a frame house is one of the best things you can have. Wood will bend, rather than crack or break. With a magnitude 5 earthquake, some dishes might be thrown off your shelves, but that's all. At magnitude 6, dishes would definitely be thrown off your shelves. At 6.5, you might get some serious cracks in your chimney. If a 6.5 earthquake comes, you don't want to be living in a brick house. Unreinforced brick can easily collapse at that level. But a 6.5 earthquake is unlikely in areas of the United States where brick houses are common, such as the Eastern Seaboard. Wood frame houses have been seen at magnitude 8.5 coming out fine."

Jones frequently returns to Los Angeles, where her parents live, and is disappointed when she misses the larger earthquakes in the area. She doesn't feel at all unsafe in southern California.

"I love earthquakes," she says, "and Los Angeles is generally pretty well prepared for them. The San Andreas fault itself runs through fairly unpopulated territory, and the smaller faults are well charted. The building codes have taken earthquakes into account for a long time, so as long as your water heater is tied down to prevent a gas leak, and your heavy dishes are on the lowest shelves, you are probably quite safe in Los

Angeles."

San Francisco, according to Jones, is quite another matter. "The fault runs under the city itself," she notes, "and much of the city is built on landfill. Also, a lot of the buildings are very old. The risk of injury in San Francisco from a major earthquake is much greater than it is in southern California."

Jones has always been interested in science, but she has other interests as well. An accomplished amateur musician, she has often played her viola da gamba for chamber and Renaissance music groups, including one at Brown when she was an undergraduate. And her interest in Chinese culture took her to Taiwan for a total of two years.

"The first time I went to Taiwan I stayed with my uncle and his family and went to the American high school," she says. "Frankly, I couldn't imagine how Chinese would ever be useful to me, so I studied French. But I did meet Jimmy Wrenn while I was in Taiwan, and he persuaded me to come to Brown."

James Wrenn, Brown's popular professor of linguistics who specializes in Chinese, was in Taiwan on sabbatical that year, and Jones was very impressed with his description of Brown. "The decision to come to Brown was one of the best I ever made," Jones says. "Brown not only provided me with a great education, it gave me the flexibility to discover what I really wanted to do with my life."

When Jones finally decided on a career in geophysics, with a specialty in seismology, "it was

'The risk of injury in San Francisco from a major earthquake is much greater'

like coming home. Everything came together," she says. "I had always loved physics, but I was bothered by some of the destructive implications of nuclear physics. Seismology is physics, but it is unquestionably concerned with saving lives."

Seismology involved coming home in more direct ways as well. It brought her back to California, where her mother's family had lived for several generations, and of course to China, where her father was born. "When my work at the Seismology Bureau in Beijing was over," she recalls, "I had originally intended to take a trip through Europe before going back to MIT. But my Chinese hosts made it easy for me to tour the country, and I had the visa, so I decided to visit some of the places I'd heard about all my life."

Jones had done some touring in connection with her work trips, including nine days in Sichuan, where she visited some mountain areas where foreigners had never been seen before. During that visit she was also able to see one of the universities where her grandfather had taught. After her work was over, "I took a trip to southern China, through Shanghai where my dad had gone to school, and on to Nanking where the family had lived for seven years," she recalls. "My grandfather took the family back to the States for his sabbatical in 1937, only shortly before Nanking authorities rounded up and imprisoned all the foreigners. It was a close call."

While she was in Beijing, Jones had a visit from her aunt, who lives and works in Hong Kong, and was able to arrange a visa for her aunt to see Nanking. "When she got back to Hong Kong she sent me a four-page single-spaced letter, describing where she went and how to find the places. So when I went there I found the family house, and my grandfather's office building, and took a day-and-a-half boat trip up the Yang Tze River to a place called Jiu Jang. Right near there is a mountain resort town called Lushan, where the missionaries all had summer houses. The area is now mostly tuberculosis camps, but my family's summer house was still there and in good condition. Nobody wants to live in it now because it's too high up the mountain, and it's not worth it to put in water and other modern features."

The whole experience, says Jones, was wonderful. "I had always heard stories about China from Dad and my grandparents, and it was never quite real. This was a way of understanding something about my whole family, and I could also compare their stories with what China is now and how much it has changed."

About China itself, Jones confesses mixed feelings. "There's no doubt that the revolution has accomplished great things," she says. "The greatest is that the people do not starve. And before the revolution many people did starve. The role of women is new, too. You see women in all walks of life, and there is full legal equality for them. But," she adds, "if the women are now expected to work along with the men, they are also still ex-



Her colleagues at the Chinese Institute of Geophysics gave her a farewell party.

pected to do most of the housework and fix the meals."

In China, Jones stayed in the Peking Friendship Hotel, where foreigners are segregated from the populace in a large and near-luxurious environment. Since she was in China to work with the Chinese, the enforced social separation from her scientist colleagues was a difficult one.

"Right about the time I arrived, at the end of March 1979, there was a big crackdown on dissidents and on association with foreigners," Jones says. "The authorities said there had been too much influence from the West, so the official word was that foreigners were okay to get technology from, but there should be no undue association. So the people I worked with were very nice to me and very cooperative at work, but if I asked them over for a visit, they wouldn't come, and they didn't invite me over. I often felt I was not quite a human being to them. I was a foreigner, and there's a longstanding tradition in China that foreigners are not quite human. It's a hard thing for them to get over, especially when they've been so isolated. It's lonely in China. There were times when I used to sit in Beijing and think longingly of Taiwan. There I could go to the market, where I had my chicken lady whom I always bought my chicken from, and who would ask how my sister and brother-in-law were. Even that was unavailable in Beijing."

If the cultural differences are profound, scientific cooperation is still possible. Mutual cooperation in the study of earthquakes has at its root one of the most basic human values: the effort to save lives and prevent destruction. And on that level, Jones is happy to note, her work in China shows signs of being quite productive. She has already published articles with several Chinese colleagues, which begins the process of making available to scientists worldwide the pooled resources of American and Chinese expertise. American computers have already analyzed the data from the Haicheng foreshocks, adding some important material to the pool of information on this promising area for earthquake prediction. And two highly sophisticated American calculators now reside at the Chinese Seismology Bureau — one at the Institute of Geophysics and the other at the Institute of Geology — left as gifts by Lucile Jones.

**'A foreigner
is lonely
in China'**



Voices of Spring

This is an old-fashioned things-are-alive-and-well-up-here-on-the-Hill kind of message.

We've skated our way through a blizzardless winter and our only flood (thus far!) has been a welcome one — the now annual deluge of eager applications to the Admissions Office. The budget has been brought in line, and (like good Brunonians) we've been able to bear up under it. The Campaign for Brown (in a chillier economic climate than even our Providence winters) is marching along on schedule — a vote of confidence for the University, for the higher endowment goal, for the long awaited new sports complex at Dexter and in Brown's new Geo-Chem research building. And the Brown Fund's on target too — though we hope you'll shoot your pledge along to us, if you've been waiting till after tax time.

But behind all the greenery, the scenery, the stone walls and cages (athletic) that *do* a campus make lie the voices and faces of Brown. It's the

faces of 5,200 undergraduates, 1,200 graduate students, 520 faculty voices, 50,000 alumni in tune and in touch with Brown's hopes and needs, and all the others around the Hill who keep the magnificent "learning tree" in shape.

It all adds up to the right kind of pride. A dash, a pace, a tempo, a sense of acuity, a wealth of curiosity. A distinctive style. Dartmouth, Princeton, Harvard, Yale, they've known what they are and where they're going. So does the new Brown.

Maybe that's why Brown's in pretty fine voice. In all seasons.



The Brown Fund - if we don't, who will?

14 Six members of the Pembroke class met for luncheon and a talk "fest" at Eileen Darling's in Seekonk, Mass., in November. *Ruth Cooke Peterson* reports that the event was fun. She says that class members living outside the Providence area are staying active and pursuing their various interests.

Ruth, who lives in Providence, is a teacher of old-time decoration including tolework, furniture, and glass and maintains a studio in Pawtucket. Her classes include both men and women, professional as well as retired.

19 *J. Chester Scott* and his wife, *Flora*, have a permanent home in Westport Point, Mass., and spend the winter months in their apartment in St. Petersburg, Fla. *Chet* reports that community and church work together with Marine Corps veterans affairs have replaced business travel for him.

20 *Lyman G. Hill*, Omaha, Neb., reports that his ninth grandchild was born in August to his son, *Peter W. Hill*, and *Peter's* wife, *Joan*. *Lyman* obtained his copyrights on two books, *The Hills of York* and *The Sagas of Larkin Moir*.

Marion Raybold Whipple, Warren, R.I., has a "Brown family" that includes her daughter, *Shirley Whipple Hinds '49*, Oconomowoc, Wis., her daughter-in-law, *Sally de Veer Whipple '49*, Glastonbury, Conn., and her son, *Dr. Harvey A. Whipple '49*, Warren.

21 *Joel M. Nichols, Jr.*, Trucksville, Pa., moved there after his wife, *Dorothy*, suffered a massive stroke in December 1976. Before then they had been lucky enough to get in a cruise to Tahiti, Fiji, and Hawaii.

H. Stanton Smith, Providence, reports that he won the senior handicap golf championship at Agawam Hunt, East Providence, for the second time (first was in 1973). He writes, "I become 80 this summer. I got used to playing against big hitters by playing with (former hockey coach) *Dick Toomey*, who could belt it 380 yards to my best shot of 180 yards. We had many interesting matches."

22 *William C. Greene, Jr.*, Wellesley, Mass., reports that he broke his hip last March, but nevertheless was able to tour Scandinavia in June. He taught a theory of art class in the Wellesley Lifetime Learning program last fall.

23 Your reunion committee is at work on our annual get-together for the weekend of May 30 to June 2. Our class was the first to include wives and now has an unbroken yearly reunion record of thirty years running. Plan now to come.

George R. Decker, *Elsie Decker*, and *Bob Litchfield* returned in early March from an eleven-day cruise in the Caribbean on board the *MS Mermoz*. The *Deckers* and *Bob* live in Stuart, Fla.

Kilgore MacFarlane, Jr., Scottsdale, Ariz., and his wife, *Libby*, went to New Zealand for five weeks beginning in January. He has been interviewing prospects for Brown, including "some great athletes." He also received an appointment to go on an economic study tour to China in June for six weeks. He writes, "I am really excited about the opportunity given me."

24 Several members of the class gathered for lunch in Sarasota, Fla., this spring when *John Lewis '64* of the Brown Development Office paid a call. The group included *Carleton Scott*, *Clarence Chafee*, and *Mrs. Jack Monk*, the widow of our late classmate and bon vivant, *Jack Monk*. *Jim Fullerton*, Brown's former hockey coach, has purchased a home in Florida and has seen a number of our classmates.

The sympathy of the class is extended to *George Sauté*, Winter Park, Fla., on the death of his wife, *Marie Louise*. *George* reports that he is fortunate to have two daughters, a daughter-in-law, and eight grandchildren.

25 The best laid plans for the men of '25 should bring a great reunion this spring when the 55th is held. The dates are Friday, May 30, to Monday, June 2. By now, you have received a flyer on the weekend events. But, just as a reminder, keep these things in mind: headquarters at Delta Phi Lounge, meals at *Laura Carr's* and *Agawam Hunt*, and an opportunity to partake of all the well-arranged University events, such as the Campus Dance, Commencement Forums, Pops Concert, and the Commencement march. The weekend will offer an opportunity to see Brown's new theater arts building and the music facility as well as the enlarged and renovated Faculty Club. If there are any questions, call or write *Chairman Richmond Sweet* at 1 Stone Tower Ln., Barrington, R.I. 02806 (401-245-3736). The committee includes *Ben Roman*, *Pat Kenny*, *Henry MacIntosh*, *Walt Whitney*, *Jim Rogers*, and *John Pemberton*.

Richmond H. Sweet, in addition to being chairman of the 55th reunion committee, is class bequest chairman. He is also governor of the Rhode Island Society of Founders and Patriots of America and a volunteer guide with the Rhode Island Historical Society. Recently he was given a 76th-birthday celebration by over a hundred members of the First Unitarian Church, of which he is a treasurer and past president. He was given a volume

of Robert Frost's poems, autographed by those present.

26 *Dr. Anthony E. Peters* reports from his home in Portsmouth, N.H., that he is enjoying his retirement after a couple of cataract operations.

Edith Remington Vehse ('29 A.M.), Wakefield, R.I., reports that her grandson, *C. Theodore Vehse*, Morgantown, W. Va., is a freshman at Brown.

27 *Fred Barrows, Jr.*, Providence, remains chairman of the board and owner of Barrows Industries. "Am in the process of building a summer home at the Bald Peak Colony Club on the shores of Lake Winnepesaukee, N.H.," he writes.

Dorothea Pearson Jennings ('29 A.M.), Woodbine, Md., writes to say that she moved last June to a farm "where she is enjoying the luxury of retirement and the kindness of a delightful landlady."

George P. Richardson, Jr., Fairfax, Calif., is actively engaged in advertising with his own company, *Richardson Promotions*, in Fairfax. He is about to be a great-grandfather for the third time, he writes.

28 *Dixwell Goff* writes, "Since I retired, I have been rebinding and restoring rare books in my bindery at home in Rumford, R.I. It is interesting and keeps me very much occupied."

Ruth Hill Hartenau, Larchmont, N.Y., reports that her first grandchild, *Christiane Sara*, was born Aug. 13 to her daughter *Veronica* and her husband, *Roger Madigan*.

Col. Joseph "Ray" Hyman, USAF (Ret.), Pompano Beach, Fla., and his wife, *Peg*, celebrated their 50th wedding anniversary June 10 at the officers club in Newport.

Paul F. Thomas, East Wenatchee, Wash., reports that his family-owned fruit (primarily apples and pears) trading and exporting business is very active and sending large quantities of apples to the Middle East, Far East, and Taiwan. He hunts duck and geese on weekends during the season and in the summer plays golf and goes salmon fishing in Canadian waters past the straits of Georgia.

29 *Roland Formidoni* remains president of Woodbridge Pottery Co. in Trenton, N.J. His residence is 926 Bellevue Ave. in that city.

Edwin H. Hodsdon has retired from active employment as rental manager for the *Glen Burnie, Md.*, office of *Charles H. Steffey, Inc.*, and has moved into an apartment in *Asbury Village*, Gaithersburg, Md.

David Novick writes from Santa Monica, Calif., that writing books and articles — in

addition to managing his company, David Novick Associates, consultants in economics — has him "somewhat more occupied than when in Providence in 1929." His fourteenth book, *Management: What Is It*, is in preparation. His thirteenth book, *A World of Scarities*, is in its second printing and, he says, is selling well.

Grandon E. Todd, Thomaston, Conn., writes to say that he deeply regrets that he and his wife did not attend their 50th reunion last June and missed the many activities. He reports that he has enjoyed being a NASP representative and is happy that four of the young people whom he interviewed were accepted, and three enrolled at Brown last September.

30 Our 50th reunion is approaching rapidly. Already, there are many reservations in hand, and arrangements are complete, as you know from our recent mailing. Each classmate has received a schedule of reunion events and each has reservation forms. Class happenings will be supplemented by College-sponsored programs to create a full, pleasant weekend. Considerable interest is being shown in this particular reunion, and so if you have not as yet signed up, why not do so, now! Plan to be with your classmates and friends starting on Friday, May 30, and ending on Monday, June 2 after Commencement. The suggested target date for the closing of reservations is May 1.

Dr. Herman Bloomstein now confines his medical practice in Port Jefferson, N.Y., to performing vasectomies and teaching the techniques involved in helping reduce the population explosion.

Ellery W. Carpenter, Rehoboth, Mass., is treasurer of the public library and the Antiquarian Society.

Henry J. Cooper, Warwick, R.I., has been elected state deputy of the Scottish Rite for Rhode Island. He is a past grand master of the Rhode Island Masons.

Irving M. Disraeli is serving his second term as city councilman in Tamarac, Fla.

Edward Freehafer, retired director of the New York Public Library, is living in Pelham, N.Y., and is an officer and director of several historical societies and libraries.

Rhode Island College has established an English department scholarship named the Elizabeth R. Gunning Scholarship Award, in honor of Betty Gunning ('61 A.M.), an English professor at the college.

Harry W. Nelson's latest book of poetry, *Encounter at the Aquarium*, 1979, is receiving a good press. The resident of Groton, Conn., has a number of other books to his credit.

Aaron Roitman, Providence, has been awarded the honorary degree of doctor of public service by the Rhode Island Board of Regents for Education.

The Rev. Everett Sherwood, Milton, Mass., is serving as a non-resident retired interim minister in churches around the Melrose, Mass., area.

Karl E. Stein, Chicago, is busy producing and then presenting travelogues of the places he visits on his many trips around the world.

Harry P. Taylor, Houston, Texas, has presented the manuscripts of several of his lengthy poems to the library at Duke University.

31 James Sanek, Pawtucket, R.I., reports that he is active as a manufacturers' agent and a wire mill consultant. Jim has been in the copper industry since 1942.

32 John E. Baldwin reports that he is "following the 'snow bird' routine: six months in [Winter Park] Florida, six on Cape Cod. I especially enjoy my volunteer work teaching Shakespeare to a gifted class of sixth graders in Winter Park."

Arthur A. Lewis ('37 A.M.), Fiskdale, Mass., reports that although he has retired as a social studies teacher at Tantasqua Regional High School in Sturbridge, he is active as a member of the executive committee of the

Central Massachusetts Council for the Social Studies. He enjoys his hobbies of collecting antique cameras, photography and musical instruments, especially violins.

Dave Scott, now retired in Blue Hill, Maine, is wearing two hats these days. He's working on a reference book for someone else and also has a book of his own in the works. "The best part of these jobs is that I can tackle them when the spirit — and energy — move me and, conversely, I can lay them to one side when I'm so inclined."

33 Helen Hazard Harpin, Newport, R.I., reports that her son, Paul, is an Army major currently assigned to West Point as a history instructor. "Our son, Bill,

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is an attorney in Anchorage, Alaska," she writes. "We had an enjoyable visit with him there last summer and found many changes since we were stationed there some twenty years ago."

The Rev. Prescott L. Laundrie reports that 1979 was another reunion year, with the fiftieth reunion of the Cranston (R.I.) High class of 1929; fortieth for his wife, Dorothea, from the University of California, Berkeley; thirty-fifth for his transfer from Antigua Base Command as priest. He traveled 18,000 miles last year.

John Hazard Wildman ('34 A.M., '37 Ph.D.), Baton Rouge, La., has had some of his short stories included in the "one hundred other distinguished short stories" list in *Best American Short Stories* for the last two years. He is an English professor at LSU.

34 Jerome M. Herman and his wife, Rosalind, have been spending the winter in Sunrise, Fla.

Gertrude Daly Heyck, Houston, Texas, reports that her son, Theodore Daly Heyck '63, was recently appointed assistant district attorney for New York City.

Alexander Resko, Jr., Mifflintown, Pa., re-

tired in 1978 from his job as earned income tax officer for Juniata County (Pa.) School District, a position he held for five and a half years after being employed by F.M.C. Corp. for thirty years as employment supervisor.

35 When the women of '35 gather for their 45th reunion the theme will be "the past and the present." Everyone has been asked to dig up old photos and slides to share for reminiscence along with current pictures. Those who cannot make the reunion are also asked to "send a bit of yourself" with a letter or pictures. Our program calls for the usual class luncheon and meeting at Carr's, the Brown Buffet, Campus Dance, Pops Concert, Sock & Buskin Alumni Show, to name just a few events. There will even be a cocktail party with the men of '35 Friday afternoon. Several members of the class have volunteered to present a skit and supply favors for the four-day get-together. So, if you haven't got your card in as yet, please do so — today!

The men's mini-reunion last fall at the Press Lounge in Marvel Gym was very enjoyable and effective. The program for our 45th this spring will be one of the best gath-

erings the class has ever had. After registration Friday afternoon at class headquarters, there will be a social hour, at which the Penn-brokers will appear with their "dates." The Brown Buffet will follow, with classmates dining in a private dining room of Sharpe Rectory. A large class table has been reserved for the Campus Dance. Saturday is a full day, starting with cocktails at Agawam Hunt at noon followed by the class picture, a lawn party for the professors emeriti, a social hour and dinner at the Hope Club, and then the Pops Concert on the College Green. One of the Sunday features will be a social hour and lunch as guests of Al Joslin and his wife, Roberta Grant Joslin '70, at their Bristol home on Narragansett Bay.

Warren F. Groce writes from Selinsgrove, Pa., to report that, though retired, he is still the chairman of the board of William F. Groce. The company buys silk from China, processes it, and ships it to Japan. "Can you believe that?" Warren writes. He also reports the birth of a second grandchild, a girl.

Dr. William J. McClafferty, Towson, Md., has retired from the practice of general surgery in Baltimore.

Gerry W. Rupprecht has been retired two years from Mosler, Inc., where he had been a security consultant for fourteen years. Writing from his home in San Mateo, Calif., Gerry noted that he is now "enjoying home, family, some travel, weather, golf, and no work — especially no work."

36 Dr. C. Douglas Hawkes, professor and vice chairman of the department of neurosurgery of the University of Tennessee Center for the Health Sciences in Memphis, has been named archivist of the Neurosurgical Society of America. He is a founding member and past president of the society.

Mildred Cohen Horvits, New Bedford, Mass., reports that her son, Frank, has been with the Internal Revenue Service for fifteen years and has been named "supervisor of the year" at the IRS office in Government Center in Boston.

Wendell B. Lund is serving this year as president of the Biddeford-Saco (Maine) Chamber of Commerce. He is also on the Small Business Administration Advisory Board for the state of Maine as well as serving as financial advisor to the mayor of Saco. He writes, "These keep me busy in my retirement in Saco."

37 Edmond J. Schiller, Barrington, R.I., is manager of electrical engineering in the research division at ITT-Grinnell Corp., Providence.

38 Charles C. Cain III, Grosse Pointe Park, Mich., retired on Sept. 1 after thirty-eight years' service as an Associated Press editor in Detroit and Boston and is now a freelance writer.

Fred A. Forbes and Elke B. Tennatt were married last May and are living at 1314 Quincy Dr., Wilmington, Del. "I am still with the U.S. government," Fred writes. "Am serving with the Community Services Administration, the 'old Poverty Program,' Region III, as public affairs officer. I am also the alcoholism and drug abuse counsel for the entire agency."

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James A. Swallow, Verona, N.J., has retired as circulation supervisor of the *Newark Star Ledger*.

39 Samuel N. Bogorad, South Burlington, Vt., Frederick and Fannie Corse Professor of English Language and Literature at the University of Vermont, was the Phi Beta Kappa speaker at the annual luncheon meeting of the Rhode Island Alpha during the Commencement weekend last June. Sam spoke on "Some Aspects of Teaching Holocaust Literature." Also present at the meeting was F. Carter Childs, who had spoken for the Phi Beta Kappa initiates exactly forty years earlier.

David B. Wilnot, Buskirk, N.Y., was recently elected supervisor of the town of Cambridge. Serving with him on the board is John E. L. McCall '43; they are both former justices of the peace.

40 Dorothy Naiden Ellis, Westlake, Ohio, is a school media consultant with the state Department of Education in Columbus. "This year I was president of our state association for media specialists, the Ohio Educational Library/Media Associates, and was able to put on a conference for 1,100 people in Cincinnati."

Donald L. Ranard retired from the U.S. Foreign Service in 1974 after thirty years, with much of his service spent in Asia. He is now director of the Center for International Policy, a foreign policy think tank in Washington, D.C.

Bernard C. Reiss retired from the marine

supply business in 1976 and he and his wife are now living in Miami, Fla., where he is busy with diverse activities such as training in the Gestalt Institute of Florida, volunteering at "Switchboard," a program for assisting and counseling by phone, various business activities, and a new-found love — sculpting.

41 George Kennedy, Arlington, Va., has completed thirty years with *The Kiplinger Washington Letter*, where he started as a staff reporter in 1950. He has been executive editor for the past five years and a member of the board of directors for the past eight years.

Dr. Paul L. Pollinger, Calabasas Park, Calif., and his wife, Jan, visited Boston in June, and had an enjoyable reunion with Sam Sepinuck and his family. Stephen Sepinuck '81 gave the reunion party a nostalgic tour of the campus for a few hours. Paul reports that he is enjoying his practice in obstetrics and gynecology in Encino, Calif., that he opened after medical training.

Elizabeth Potter, Jerusalem, R.I., has been elected president of the South County Hospital board of trustees, thus becoming the first woman president of that group in thirty-five years.

Frances Tompson Rutter, Grantham, N.H., co-founder of Shoe String Press and of Tompson-Malone, has established a publishing house in Grantham with her husband, William Rutter. They offer consultation and production services and publish several titles annually in non-scholarly areas.

Dr. Abraham Schwartz, Providence, reports that his son, David, received his D.M.D. degree from Boston University in May and has joined him in the part-time practice of restorative dentistry while David is pursuing further studies at Boston University School of Medicine. Abraham's daughter, Mrs. Jane P. Kramer, graduated from Mount Holyoke College in May and is with the pension division of Metropolitan Life in New York City.

42 William C. Giles, Jr., and Louise Whittier Giles, Longmeadow, Mass., report that their daughter Mary Low is a customs inspector at Logan Airport, Boston, and daughter Meg is a freshman at the University of Tampa.

Mary Natale Nocera is an English-as-a-second-language teacher at the Adult Learning Center in Providence, where she has been working with some Indochinese refugees. She lives in East Providence.

John M. Sapinsley, Providence, recently completed a "tour of duty" as vice president of academic affairs at Rhode Island College, after which he went on a sabbatical in Southeast Asia. He returned to teaching economics at RIC in February.

Howard H. Williams, Falmouth, Mass., was recently appointed president of Cape Cod Dry Cleaners, a multi-store chain of dry cleaning and laundry services serving Cape Cod and southeastern Massachusetts.

Barbara Wriston (A.M.), New York City, has published a book, *Rare Doings at Bath*, available from the Art Institute of Chicago. It

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is an account of the people who visited Bath, England, in its heyday and left accounts of it. The book is illustrated with contemporary views from several collections.

Late flash! The class will hold a late-Sunday afternoon cocktail party at Barker House on June 1.

43 Philip F. Hartung, East Greenwich, R.I., was granted five patents in 1979 for plastic container designs. His Hartung Product Design Service, East Greenwich, has designed over 1,500 containers for manufacturers in the packaging industry.

John R. Hess has the sympathy of classmates on the death of his wife, Gwendolyn, Sept. 17 in England while undergoing surgery. She was the sister of Daniel Fairchild '45. John is president of John R. Hess & Sons of Cranston, R.I.

John E. L. McCall is a member of the board of the town of Cambridge, N.Y. Serving with him is David B. Wilmot '39, who was recently elected supervisor.

Bernice Parvey Solish, Brooklyn, N.Y., reports that her son, Alfred, graduated from Downstate Medical Center, Brooklyn, and is interning at Monmouth (N.J.) General Hospital before becoming a resident in ophthalmology at the Jules Stein Institute at UCLA. Her daughter, Sharyn, is an M.D.-Ph.D. candidate at Downstate Medical Center, and Samuel Solish '79 is a research assistant at the Retina Foundation, doing eye research in Boston.

44 Dorothy Kaplan Bernstein, Pawtucket, R.I., reports that she has two children in graduate school and another due to start next year.

Charles H. Collins, former financial manager of the Rhode Island Air National Guard, has been appointed vice president and general manager of Executive Jet Aviation, a commuter airline at Newport State Airport. He lives in Rumford, R.I.

Roy S. Fine, Trumbull, Conn., is vice president and group executive, Process Control Group, Acco Industries. He is also president of the Bristol-Babcock Division in Waterbury, Conn.

George M. Hindmarsh and Janet Lindsay Hindmarsh, Lebanon, Pa., have the sympathy of the class on the recent death of their only grandson, age 3, from pneumonia. He was the son of their daughter, Helen, in Santa Ana, Calif.

45 The men of '45 will be housed in Alpha Delta Phi house, the best location on campus. It's going to be a great 35th. You have all the information, including the schedule of events. Hope to see you at Brown between May 30 and June 2.

Don't be missing from the picture of the 1945 women when it's snapped at our 25th reunion. There's so much to catch up with—old friends, new buildings, old haunts, old buildings with new uses. So, color your calendars Brown for May 30 to June 2. Headquarters for the weekend are at Champlin Hall on the Pembroke campus. Highlights of the weekend include Friday evening cocktails in the Pembroke Room at Maddock Alumni Center, the Brown Bear Buffet at Sharpe Refectory, and then the class table at the always popular Campus Dance. Saturday

morning and afternoon there is grist for the mind at the various Commencement Forums. There will be lunch and the class meeting at the Goldberger Terrace of the List Art Building. Then on Saturday night there will be the nostalgia of the Pops Concert, surrounded by friends and classmates. Be sure to answer our March letter. We'll be waiting to hear from you.

Jean Short Beliveau, Demarest, N.J., became a grandmother last May, when Benjamin John Berna was born to her daughter Jean Beliveau Berna '72 and her husband, John, of Demarest.

Louise MacKay Bell has the sympathy of her classmates on the death of her husband, Ray, in October. She lives at 4106 Blackpool Rd., Rockville, Md. 20853.

William J. Dwyer, a teacher at West Islip High School in West Islip, N.Y., has been elected commodore of the South Bay Cruising Club of southern Long Island. The club's 400 member-families own auxiliary sailboats and cruise to Block Island, Cape Cod, Maine, and sometimes the Chesapeake. "They also race, have raft-ups, sing-alongs, and cook-outs, but seldom all at once," Bill says. "Our most famous boat is the highly sophisticated and ingenious 37-foot inflatable Chinese Junk, *Hierah Qum*, which has received wide publicity in yachting circles." Bill and Barb have two daughters, Karen, who is studying for her master's at Chapel Hill, and Cindy, who is living in Key West. Their son, Barry, is a junior in high school and a member of the varsity soccer team. Last summer, Bill raced in the Block Island Race Week and in the Around Long Island Race but doesn't feel ready to take on the Ted Turners and Ted Hoods yet.

Leonard S. Michelman, Longmeadow, Mass., has been listed in *Who's Who in American Lawyers* for the past two consecutive years. He and his wife returned recently from a mission trip to Israel. Their son Jay is in his second year at Western New England Law School, and son Eric will graduate in June from Brown, thirty-five years after his father.

Roberta Wheeler Mullin, Ormond Beach, Fla., reports that she has received an associate in science degree in marketing and mid-management from Daytona Beach Community College, which, she says, helps her as a realtor. Her daughter Mary Hale is a sophomore at Wellesley, and her son Mark has earned his casualty insurance license for Florida. Her daughter Patricia is a photographer-writer for the *Berkshire Courier* in Great Barrington, Mass., where "Bobbie's" parents still live.

Richard J. Shapiro, a tax attorney, is associated with the New York City law firm of Stroock & Stroock. "My wife, Rhoda, is a financial analyst with Pepsico, Inc.," he writes. They live in Rye, N.Y.

46 The Rev. Donald G. Lester is serving as chief executive for the Presbytery of Detroit, which consists of 110 United Presbyterian churches in southeast Michigan. He lives in Birmingham, Mich.

Elwin E. Linden, New Canaan, Conn., reports that the firm he formed in 1973 has moved to larger quarters in Darien, Conn. E.E. Linden Associates provides consulting services in energy management and conser-

vation to universities, hospitals, and businesses.

Paul T. Mielke (Sc.M.) has taught for a total of twenty-five years at Wabash College, Crawfordsville, Ind., in all professorial ranks, serving as chairman of the mathematics department for fifteen of those years, resigning the latter post in 1978. He writes, "My photography is a serious hobby. In 1978 and 1979, photographs that I contributed to the annual auction of Indianapolis Channel 20 (WFYI) were each awarded third prize among approximately 300 entries which were judged as art."

Robert Nason had a retrospective exhibition of his drawings from the last twenty years at the Bartlett Gallery of Atlantic Union College, South Lancaster, Mass., last fall.

Erwin E. Strasmich, Providence, is a member of the board of directors of Jetronic Industries, Philadelphia; vice president of Ross Matthews Corp., Fall River, Mass.; and president of Lilly Realty Corp., where he has been employed for thirty-four years.

47 Alumnae, your reunion is coming . . . a wonderful time of friends, memories, and conversation. It all will center on an "off-year reunion luncheon" May 31 at the newly redecorated and expanded Brown Faculty Club. It's being brought to you by Betty Asadorian Kougasian, '47 class president, and Betty Montali Smith, '48 class president, and their six class officers, who met at the Maddock Alumni Center in late February to plan for reunion activities. Be on the lookout for details from class secretary Louise Iannucillo Makepeace '47.

Robert Irving, Northridge, Calif., has the sympathy of the class on the death July 21 of his wife of not quite three years, following complications while recovering from an auto accident in May. She is also survived by their daughter, Dorothy-Jean, age 2. Bob is a consultant on management systems, management sciences, and systems integration and planning.

48 Alumnae, our reunion plans are on. Betty Montali Smith, '48 class president, and Betty Asadorian Kougasian, '47 class president, and their six class officers have seen to that. They have arranged for an "off-year reunion luncheon" May 31 for the '47 and '48 women, to be held at the newly redecorated and expanded Brown Faculty Club. Be among the first to initiate the club, meet friends, and make some new ones. Details will be coming your way soon.

Harlan J. Espo, Pawtucket, R.I., recently joined Hospital Trust National Bank's trust and investment management division as an assistant vice president in the personal trust and estate section. He was president of Espo & Co. in Pawtucket.

Gilbert R. Graydon reports that through a chance meeting in London with a friend of Gustavo A. Tavares '50, Santo Domingo, Dominican Republic, he and Gus have begun corresponding, and are planning on seeing one another sometime in 1980, either in Cranbury, N.J., where Gilbert lives, or in the Dominican Republic.

George F. Heckler, Media, Pa., has been elected president of the Williamson School in Media, from which he graduated in 1942. The school is a modern academic vocational-

technical school that provides tuition-free career education for about 220 students. George and his wife, *Marion Heim Heckler* '50, have two children, Celia E. Humeston, Barrington, R.I., and Gordon F. Heckler, a senior at Drexel University, Philadelphia.

Annette Caust Martin, Oakhurst, N.J., reports that her daughter, *Sandra*, transferred to Brown last year and is a member of the class of '81. This makes her a third-generation Brown student. She is the granddaughter of *Jeanne Cooperstein Caust Feldman* '18. Annette's son, Matthew, graduated from Cornell University in June and is an electrical engineer working for Westinghouse.

Harrison Sussman, New York City, is the new head class agent. He is with the individual investor department of Morgan Stanley & Co. in New York City.

Mary Glaser Whipkey, associate professor of mathematics at Youngstown State University in Youngstown, Ohio, is co-author with her husband of *The Power of Calculus*, third edition, a 373-page textbook recently published by John Wiley & Sons of New York City.

49 *Adele Anthony* lives in Marin County, Calif., and works as financial aid officer and publications assistant at San Francisco Theological Seminary in San Anselmo, Calif. Her youngest son, *John Bauman* '81, is in his junior year at Brown. Her oldest son, *Ethan Bauman*, graduated from St. John's College, Annapolis, in 1978 and is in Washington, D.C., working in the office of Congressman William Brodhead of Michigan.

Arthur D. Bobrick and his wife, Anne, report that they are enjoying their son, *Jeffrey Paul*, who is now 4 years old. They live in New York City.

Dolores Pastore DiPrete, Cranston, R.I., works part-time at her husband *Walter A. DiPrete's* '46 real estate office in Cranston. Their daughter Susan and her husband are in Anchorage, Alaska, for two years, where he is with the National Weather Service, and she is a cartographer for the government. Roberta is in her first year at New College of California School of Law, Francis is a waiter at the Biltmore Hotel, and Peter is taking a year off before going to college and is employed at Sound Works in San Francisco. Dolores is class reunion chairman and writes to say, "I would like to hear from anyone in the class with ideas and suggestions for 1984." She lives at 151 Woodstock Lane, Cranston 02920.

Chester J. Dudzik has been appointed associate professor of mechanical engineering and director of cooperative engineering education at the University of Hartford. He had been operating his own service as a consulting engineer in Warwick, R.I., with special reference to patent and product liability matters. He has lectured extensively abroad and was an instructor at the School of Mechanical Engineering at Purdue from 1948 to 1954. He and his wife have seven children and live at 9 Deerfield Rd., Avon, Conn. 06001.

Maurcen Wilkinson Maris, Sunnyvale, Calif., is working in the finance department of the Measurex Corp. in Cupertino. Her son, Greg, is a junior at the New England

Conservatory of Music, and her daughter, Peg, is a senior in high school.

Jean E. Miller, Hastings-on-Hudson, N.Y., began working at AFS International in 1978 as a student affairs consultant for the Southwest. Last July she was promoted to regional director in charge of the total program in the Midwest and the South, including Texas. She is once again living close enough to her Vermont home to get there weekends for golf and cross-country skiing.

D. Rhodes Morean, Litchfield Park, Ariz., is president and a member of the board of Associated Lithographers, Phoenix.

Alice Jean Kirk Overton, Ballwin, Mo., is the assistant supervisor of the Grand Glaize Branch of the St. Louis County Library after ten years with Parkway School District as a junior/senior high school librarian. Three of her children graduated from the University of Missouri, Columbia. Cynthia, 22, is managing a cutlery store in Philadelphia while looking for a position in which to use her political science degree and experience. Bill, 23, is using his finance and banking degree at a savings and loan firm in Colorado Springs, Colo., and Don, 26, is a news photographer with WTEV in Providence-New Bedford. Carol, 20, is working full-time and going to college full-time in alternating semesters.

Adele Goodman Pickar, Albany, N.Y., is a social worker at Parsons Child and Family Center, a treatment center for emotionally disturbed children and their families in Albany. Her husband, *Irving Pickar* '43, started a new career with Massachusetts Mutual Insurance Co. in 1978. They are actively re-

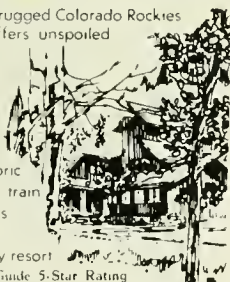
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cruiting and interviewing for Brown in the Albany area. They have taken up cross-country skiing for leisure-time activity as well as bicycling. Their three eldest sons live in California. Joel '73 is a chiropractor in Anderson, Calif. Jeff (Swarthmore '76) and Danny '78 live in Berkeley, Calif., where Jeff works in a school system and Danny works for a mental health agency. Andy '81 is at Brown.

50 Capt. Robert I. Backstrom, USN, has been named commanding officer of the Naval Reserve Center at Great Lakes, Ill. Bob had been chief of staff of the Ninth Naval District at the Great Lakes Naval Base. During his twenty-nine-year naval career, he has commanded four ships and taught at the U.S. Naval Academy and the Navy's Officer Candidate School. He and his wife, Evelyn, have two children, Sharon, recently commissioned a Navy ensign, and Kristen.

Paul Daube, Deerfield, Ill., reports that his son is taking the fourth year of his five-year program at the University of Paris. "Am getting a vicarious pleasure out of his reports," Paul writes. He is president of the Daube Co. of Northfield, Ill.

Stanley R. Greenberg's television play *FDR's Last Year*, based on the Jim Bishop book, will be telecast on NBC April 12 on the 35th anniversary of President Roosevelt's death. Stanley lives in Kensington, Calif.

Marion Heim Heckler's husband, George F. Heckler (see '48), is president of the Williamson School in Media, Pa. Their children are Celia E. Humeston, Barrington, R.I., and Gordon R. Heckler, a senior at Drexel University, Philadelphia.

R. Anthony Pearson is president of Organization Development Associates, a management consulting firm in Cape Elizabeth, Maine.

Janet Reeh Pinkham, coordinator of experiential learning at Berkshire Community College in Pittsfield, Mass., has been named by the college as a circuit-riding career counselor to communities with populations of less than 3,000. Janet is providing such services as interest and aptitude testing, referral to training programs, and is acting as job liaison with job placement sources.

William Wurtz, owner of the Chicago Black Hawks of the National Hockey League, is serving this year as the chairman of the league's board of governors.

51 Ronald J. Burns, executive vice president for investments of the Home Insurance Co. of West Lebanon, N.H., has been elected a director of the Dartmouth National Bank.

Nancy Skutch DeBare, New York City, is employed at Colbert Artists Management. "Ilana is a senior at Harvard, Debbie a sophomore at Brown, and Robert a freshman at MIT," she writes. "The dad in the family is president of ABC AM radio stations."

James A. Garland, Mansfield, Mass., is professor and chairman of group work at Boston University's School of Social Work and was elected president of the Boston University chapter of the American Association of University Professors — the bargaining agent for the faculty, which formed a union in the face of continuing discord between the faculty and the central administration.

Maxine Rosenbaum Goldman, Swamp-

scott, Mass., has been tutoring children with learning disabilities in Marblehead and Winthrop elementary schools. She is a master's degree candidate in special education at Lesley College, Cambridge, Mass. Her daughter Nancy is a graduate of Boston University, Betsey is a senior at Tufts, Jeffrey is a member of the class of '83 at Brown, and Robert is a member of the class of '83 at Dartmouth.

After twenty-seven years with Raymond International, most recently as a senior vice president and a director, based in London with company responsibility for all work in Europe, Africa, and the Middle East, Alvan K. Gustafson, Houston, Texas, resigned last summer. He and his family have returned to Houston after "thoroughly" enjoying London and Europe, and he is now president of Foundation Technology, Ltd., an international construction group based in Houston.

Pierre Papazian, Dumont, N.J., is a graphic designer.

Donald G. Rich, Fayetteville, N.Y., was promoted to manager, central engineering services in the research division of the Carrier Corp. last April. He was appointed a fellow of the American Society of Heating, Refrigeration and Air Conditioning Engineers last June.

Tekla Torell Steuart, Dunedin, Fla., reports that her husband has retired from banking and is now in real estate and mortgage brokerage. Their daughter Bonni is an administrative assistant at the American Heart Assn. office in Atlanta. Her twin, Holly, is a TV news reporter with the ABC affiliate in Albany, N.Y. Carrie will graduate in May from Hood College.

Albert G. Watkins is with *Time* magazine in Dallas as division sales manager for the Southwest.

52 Lucy Lavenhol Brody, Teaneck, N.J., has received her M.A. in music from Columbia University and is now administrative assistant with The Waverly Consort, an early music organization based in New York City.

Dr. Leon B. Leach, Belmont, Mass., has completed training as a lay psychoanalyst at an institute in New York City called I.P.T.A.R. He practices both dentistry and psychoanalysis in Cambridge, Mass. He recently spoke to a dental study group on the psychological aspects of dentistry, titling his talk, "Treat Me as a Person Not a Tooth."

Annette Barabash Leyden, Irvington, N.Y., reports that her husband, Stanley, is working as a hearings examiner with the New York State Department of Social Services in New York City. Their daughter, Gabrielle, graduated in January from Cornell University and is attending the University of Strasbourg, France. Annette had a mini-reunion last spring with Lucy Lavenhol Brody and Marjean Armitage Ingalls and their spouses.

John J. Pietro, Jr., has been elected a director of the Professional Insurance Agents of New England. He is president of Midstate Insurance Agency of Worcester, Mass.

Raymond B. Perkins has been vice president and national corporate bond product manager of Merrill Lynch, Pierce, Fenner and Smith in New York for more than two years. His daughter, Stacey, is a sophomore at Brown after a year off spent working in Australia and traveling extensively in the

Middle and Far East.

Elizabeth Kissane Shequine, Millbrook, N.Y., who was re-elected town judge in November, recently had a visit from Priscilla Wilder Andre, who received her master's degree in library science in June. Together they visited Barbara Bahnson Volcker, now a book-keeper-accountant.

53 John C. Day has been promoted to export credit manager of the William Carter Co. of Needham Heights, Mass. He and his three children live in Walpole, Mass.

Diane Schwimmer Ellison, San Rafael, Calif., has been named regional director of the Camp Fire Golden Gate Council in Marin. She is married and the mother of two children.

In October Thomas H. Geismar, New York City, and his partner, Ivan Chermayeff, received the 1979 Gold Medal of the American Institute of Graphic Arts for outstanding achievements in graphic design. His office designed all the exhibits at the new John F. Kennedy Memorial Library, which opened in Boston in October.

Edward A. Johnson, New London, N.H., teaches English and is the coordinator of English and language arts for the Kearsarge Regional School District, in North Sutton. He is also chairman of the Kearsarge Regional Accountability Committee and junior warden of St. Andrew's Episcopal Church in New London. One daughter has just graduated from the University of New Hampshire, where a second daughter is a sophomore. His twin daughters are sophomores at Kearsarge Regional High School. He reports that there is "nothing overly exciting or unusual here, we are happy and enjoy living in New Hampshire."

Priscilla Dillingham Kissick, Philadelphia, reports that on her recent visit to Brown with her son Jonathan she felt the University had weathered well and looked better than she remembered it. Two of her sons are already in college, and she has a daughter in tenth grade at Germantown Friends School. Priscilla is working full-time at the University of Pennsylvania School of Medicine, coordinating a kidney disease study and collecting relevant data.

Erna Giesinger Laves, South Orange, N.J., writes that she held a local elective office for two years and is now a member of a committee organized to spearhead the revitalization of the central business district. She writes, "This suburban community shares the grave problems of suburban towns all over the country and we're hoping we can solve them! My husband practices medicine here and my only child, Peter, is in our junior high."

Donald F. Tavares, Calgary, Alberta, a chemistry faculty member at the University of Calgary, was among twenty-two chemists, biochemists, and chemical engineers elected Fellows of the Chemical Institute of Canada for 1979. He and a colleague at the university are doing research for the Alberta Oil Sands Technology and Research Authority, exploring new techniques for upgrading the bitumin extracted from the sands.

Ann Peterson Zablocki is teaching English as a second language in an international school in Queens, N.Y. She received her

master's in teaching English as a second language in June from Hunter College.

54 Willbur N. Curtis, Jr., Pawtucket, has been named vice president and secretary of Providence Mutual Fire Insurance Co.

C. Peter Heaton, New London, Conn., recently returned from the Magat River Multipurpose Project in the Philippines, where he worked as resident engineer for tunnels. He had previously worked in Pakistan for seven years as resident engineer for the construction of intake structures, tunnels, stilling basin, and powerhouse on the Tarbela Dam project.

Rebecca Anderson Huntington, Dover, Mass., has moved from her position as director of alumnae/i affairs and director of the Milton Academy annual fund into the capital campaign office as manager. She reports that the funds from the \$15-million campaign will be used for endowment, faculty salaries, and student scholarships.

55 There once was a class at Brown U.;
A diverse and intelligent crew.
This group will reunite
In May and in June.

Don't miss it; we want to see you

Remember, your 25th reunion begins on Friday, May 30. The registration packet should be in your hands. Won't you fill in the reply card promptly? We really do want to see you.

Arva Rosenfeld Clark has been appointed director of the Institute for Case Development and Research within the graduate programs in management at Simmons College, Boston. She has been coordinator and curriculum specialist for the Summer Institute on Women in Organizations at Simmons, where she is also a candidate for the M.A. in management degree. She lives in Lexington, Mass., with her children, Sarah, 14, and Paul, 13. Her daughter, Rebecca, is a member of the class of '82 at Brown.

James C. Davis, Jr., has been named patent counsel for the General Electric Company's Corporate Research and Development section and will work out of the firm's headquarters in Schenectady, N.Y. The graduate of George Washington Law School is a member of the New York State Bar Assn. and the American Patent Law Assn. He and Hazel have a son and three daughters.

In the last three years, Anthony William Del Visco has been working in Europe, writing poetry in several languages, and acting in films. His film appearances are under the name William Del Visco.

James T. Egan has been elected a vice president of The West Co. in Phoenixville, Pa. He had served as corporate director of personnel and organizational planning. Jim is president of the United Way of Chester County. He and his wife and three children live in Paoli, Pa.

William P. Hunckley, Mount Holly, N.J., has been in the insurance business for a decade and now owns his own agency and has seen it grow to six times what it was in 1968. At the same time he has maintained his interest in building scale model aircraft of World War II planes. His collection of one-fourth scale models has been acquired by the Con-

federate Air Force, Harlingen, Texas, where they are now on display after the CAF B-29 "Fifi" flew them the 2,000 miles to the museum. The collection took over 1,600 hours to build and is valued at over \$5,000.

Daniel B. Hoik has been appointed a vice president of the Providence-based public relations firm of Creamer Dickson Basford of New England. Dan had been city editor of the *Washington Daily News*, director of economic development for the State of New Hampshire, executive assistant to former New Hampshire Gov. Walter Peterson, press attaché at the U.S. Embassy in Bogota, Colombia, and a writer for a business magazine.

Helen Johnson Loschky, Columbia, Mo., reports that she is looking forward to the 25th reunion this June. She last attended a reunion on her 15th. Helen is an associate professor of English at Lincoln University, Jefferson City, Mo., where she has also assumed duties as the coordinator for a new freshman honors program. Lester is finishing his first year of college as an art major. Terri, 12, "loves horses, disco, and boys!"

Elinor Mavor, Scottsdale, Ariz., is working as a freelance graphic designer and editor and art director of two adult-theme, national science fiction/fantasy short story magazines. Her sons are Scott, 22, a graphic designer with *Phoenix Magazine*; and Glenn, 18, a student at Trinity University in San Antonio, Texas.

William T. Prifty, East Greenwich, R.I., reports that he enjoyed seeing old friends at the '54 football reunion and the victory over Princeton, as well as the get-together at the Agawam Hunt. "It all combined for a perfect day last fall."

Cherry Collins Provost, Glen Ridge, N.J., writes that she has been on the board of education for six years. "Am also a trustee of the Montclair Art Museum and do docentry work there. At last I'm putting my college major to work."

56 Barbara Fruehauf Bristol's son, David, is a freshman at Brown. Barbara and her husband, David, live in Lynnhaven, Mass.

John H. Golden, Marietta, Ga., reports that he has operated his own business in Atlanta for the past several years and would like to hear from his old classmates. "Just beginning to thaw out after ten years in Buffalo," he writes.

Judith Kveskin Greenfield, Mamaroneck, N.Y., reports that her daughter, Susan, is a freshman at Brown.

Carl H. Seligson, New York City, has the sympathy of the class on the death of his wife, Paula Medd Seligson, who died suddenly in October. Carl is managing director of Merrill Lynch White Weld Capital Markets group, where he raises capital for electric utilities.

Richard A. Strickland, Enfield, Conn., was recently appointed a director of the group claim department of the Aetna Life and Casualty Co. in Hartford.

David B. Walker (Ph.D.), Washington, D.C., attended and addressed an international conference on federalism and regionalism at Belgrade, Yugoslavia, in May.

Theodore Zinn, New York City, has been promoted to senior editor of life sciences for *Collier's Encyclopedia* and Merit Students En-

cyclopedia. In October he successfully completed the 1979 New York City marathon.

57 Evagene Hargrove Bond, Washington, D.C., operates Words/Pictures, a small editorial consulting firm specializing in work with architectural firms. Her husband, George, is on the national desk of the *Washington Star*. They have just finished the renovation of a 1905 rowhouse in the Capitol Hill section of Washington, D.C.

Thomas A. Burke is an account executive with Smith Barney, Harris Upham & Co. in New York City.

Arthur R. Hirst has been named operations manager of Eastman Savings & Loan Assn. in Rochester, N.Y. He lives in Pittsford, N.Y.

Dr. Frederick Lee, Burlingame, Calif., reports that he has been in private practice of general dentistry for eight years in Burlingame. He also does part-time track coaching for Westmoor (Daly City) High School, where his team won a championship in 1979. He plays tennis as a hobby, and is looking forward to welcoming classmates in the area.

Artemas M. Pickard and his wife, Mary Bayley Pickard, have been living in Connecticut for the past eight years. Art is still with IBM Corp. in White Plains, N.Y., where he is manager of the technical staff of the Corporate Information Systems Department. Mary is the editor of two monthly puzzle magazines published by Penny Press in Stamford, Conn. "My volunteer work on the Brown Fund brings me in contact with many of our classmates, but mostly by phone," Art writes. "However, I saw Gerry Vander Veer this winter at the Stamford phonathon. He is with Metropolitan Life in New York City and lives in New Canaan, Conn. Our daughter, Kathy, is enrolled at Cushing Academy in Ashburnham, Mass., and Tom is a freshman at the King School in Stamford. Mary has served Brown for many years as NASP regional director and currently as a director of the Associated Alumni. I started off as president of the Fairfield County Brown Club, became a regional director of the Associated Alumni and of its executive committee, and then turned to development work and am now head class agent and chairman of the head class agents for the Brown Fund. Lots of work but rewarding."

58 Bruce L. Fowler has been promoted to president of Waite Hill Assurance Ltd. of Bermuda, an insurance subsidiary of A-T-O, Inc. He will remain at the A-T-O corporate headquarters in Willoughby, Ohio, and will continue to serve as corporate risk manager, as well as assuming overall responsibility for the subsidiary's growth. Bruce and Marilyn have three children and live in Chagrin Falls, Ohio.

Robert J. Lawton, recently with Singer Sewing Machine Co. in Mexico City, has been promoted to general manager and transferred to Jakarta, Indonesia.

Edward W. Poitras, Winter Haven, Fla., reports that, after a gap of nearly eighteen years, he is doing some work in radio broadcasting again. For a year Ted has been producing a fifteen-minute daily radio show for Christian Prison Ministries, Orlando, Fla., called "Behind Prison Walls," for use in that

area and in other East Coast markets. The show centers around interviews with convicts, tape-recorded in various prisons throughout the country.

Ronald Prouty is teaching English at Auburn High School in Auburn, Mass. He has served on the conservation commission of the community for seventeen years and has been a trustee of the library.

H. Meade Summers, Jr., a St. Louis, Mo., attorney, has been elected a trustee of the Missouri Historical Society, in St. Louis. He continues to be active in historic preservation as counselor to the Landmarks Association of St. Louis and as a member of the St. Louis County Historic Buildings Commission.

59 Wyndham Eaton, Hamburg, N.Y., is the owner of Eaton Golf & Tractor, Syracuse, which distributes power mowers, snow equipment, and golf course supplies and equipment throughout the eastern half of upstate New York.

Albert Hanser, Wayzata, Minn., is the new chief executive and director of Resource Trust Co., a non-bank trust company that provides money management for individuals, families, and pension and profit-sharing funds in Minneapolis. He had been senior vice president of the brokerage and investment banking firm of Dain, Kalman & Quail. James C. Smith is president of Exsel International in Los Angeles, consultants to management on executive selection in the fields of insurance and employee benefits.

Dr. Reuben I. Weiner has been practicing internal medicine in Ithaca, N.Y., since completing his residency in 1967. He and his wife, Marta, have three children, Karen, 12, Walter, 9, and David, 8.

60 One of the many highlights of the 20th reunion will be a boat ride to Newport and back with the class of '55. Brunch will be served on board and there will be sightseeing in Newport. That's just one highlight! There will be more. So, do come.

Elena deRosa Cary, Edison, N.J., has had her composition for gamelan entitled "DNA" performed on the record "Gamelan in the New World," issued by Folkways, FTS 31313.

Marvin M. Crutchfield (Ph.D.), Creve Coeur, Mo., is a fellow in the research and development department of Monsanto Industrial Chemicals Co. in St. Louis, where he has been employed for the last twenty years.

Jonathan Dolger, New York City, has announced the formation of the Jonathan Dolger Agency for authors' representation, and its association with two other agencies. He has been in publishing for seventeen years, most recently as a senior editor at Harper & Row, and as vice president, managing editor of Simon and Schuster.

Ronald P. Formisano has been promoted to full professor of history at Clark University in Worcester, Mass. He has been on leave this year while serving as a fellow at Harvard's Charles Warren Center for Studies in American History, where his research is focused on early Massachusetts politics.

Arthur J. Giorgini, Amityville, N.Y., reports that he and his wife had dinner with Fred Katz and his wife, Mary Ann, who live in Los Angeles with their son, Jamie. Both

men plan to attend the 20th reunion.

The Rev. David J. Hogarth, Boston, presented a paper titled "A Model for Suicide Intervention by Inmates/Institutional Residents" at the recent Ottawa Tenth International Congress on Suicide Prevention and Crisis Intervention. He is the chaplain of the Charles Street Jail in Boston, where he is also director of Lifeline, a group of eight inmates who provide suicide prevention services inside the prison. He works full-time at the Wentworth Institute.

Dorothy Kushner Miller expects to receive her master's degree in English literature from Boston College next month. For the past two years she has been a teaching fellow there in freshman English. Dorothy has three children: Lisa, 18, Karyn, 15, and Alison, 13.

Peter S. Oberdorf, Hastings on Hudson, N.Y., and his wife are the parents of Patricia Marie, born Sept. 24. Sara Victoria is 2.

Paul H. Way is with General Electric in Bridgeport, Conn., serving as general manager of the International Contractor Equipment Department.

61 Nina His Atwater, Philadelphia, is an emergency medical technician and works full-time on a mobile intensive care unit in the Philadelphia area. Her children are Elizabeth, 21, Rosemary, 18, and Aubrey, 16.

Batiste DeLuca and Nicholas J. Spiczio '63 have announced their association for the practice of law at 1828 L St., NW, in Washington, D.C.

Robert I. Finkel and his wife, Judith, have announced the adoption of a baby girl, Jessica Jean. They live in Toledo, Ohio.

Comdr. William H. Isc, JAGC, US Navy, has been reassigned from San Francisco to Newport, R.I., where he is attending the Naval War College. While in San Francisco, he served as a trial attorney with the U.S. Department of Justice, admiralty and shipping section, and as staff judge advocate with the Navy on Treasure Island.

Emily Arnold McCully, Brooklyn, N.Y., continues to illustrate children's books and has been awarded a grant in creative writing from the National Endowment for the Arts.

Dr. Stephen W. Parker, Newton, Mass., is a neurologist at Massachusetts General Hospital and Massachusetts Eye and Ear Infirmary, Boston. He is also director of the otoneurology laboratory at Mass General.

Edward D. Rotmer is president of Paramount Office Supply in Providence. "Have two children, Michelle, 16, a member of the girls' tennis and basketball teams at Cranston West High, and Greg, 14, a ninth grader at Western Hills Junior High in Cranston."

James W. Shircliff, Lynchburg, Va., is president of the Jamarbo Corp. (WGOL and WLL radio) and corporate vice president of GCC Beverages.

62 Helen Garretson Berkley is director of social services at Children's Hospital in Boston.

Roy Hunter, Jr. (Ph.D.), Atlanta, Ga., a biology professor at the University of Atlanta, has resigned as chairman of the department and is now director of the office of graduate school advisement for the National Science Foundation-sponsored Resource Center for Science and Engineering at the

university.

William J. Ryan has been appointed vice president of management information systems at CBS Records in New York City. He had been with IBM in a variety of capacities during the past seventeen years.

Rosemary Rice Walton, Hampton, Va., reports that she is in school again, completing courses toward a second M.A., this one in speech pathology at Hampton Institute. Her husband, Bill, is doing research on helicopter vibrations at NASA's Langley Research Center. Her son, Aaron, is 9, and her stepdaughters, Sabrina and Valerie, are at the University of Maryland and already have graduated from Berklee College of Music, Boston.

63 Karen Greene Berkley, Tallahassee, Fla., is on the faculty of the department of psychology at Florida State University, doing research in neuroanatomy. Her husband is also in the psychology department, doing research on the visual system. Their daughters are Lara, 11, and Tamara, 9.

Robert L. Broten has returned from Geneva, Switzerland, and is "selling contemporary European art and representing artists." His address is 52 East 72nd St., New York City.

Thomas Generous, Wallingford, Conn., has been the coach of girls' varsity squash racquets at Choate Rosemary Hall for the past four years. Last year his team was 17-1 in dual match competition. Four of the girls were nationally ranked at the conclusion of the season. The team won the New England Interscholastic Championship. Tom writes, "It was a once-in-a-lifetime treat, believe me. Maybe it wasn't once in a lifetime; we'll be everyone's toughest opponent this year, too."

Bill Hetzel and his wife, Nancy, moved to their ninth home in Jacksonville, Fla., in December when Bill began his new job as senior vice president of administration with Blue Cross and Blue Shield of Florida. They write that they are right off I-95 and a good rest stop for anyone heading into Florida or to Disneyworld.

Robert E. McKenna, San Diego, Calif., reports that after leaving Brown he spent four years in the U.S. Navy, the last year of which he commanded a patrol boat in Vietnam. After leaving the Navy, he joined Merrill Lynch, Pierce, Fenner & Smith as an account executive. He has since established his own company, McKenna Financial, a financial advisory firm. He and his wife, Ann, a former school teacher, have four boys, Timothy, 10, Christopher, 8, John, 6, and James, 2. He writes, "After growing up in Maine where the golfing season is exactly twelve weeks long, it is great to be in San Diego, which has 365 golfing days a year."

Roger L. Riffer and his wife report the birth of Morgan Elizabeth on Oct. 7. Her brother, Adam, is 6. Roger is chairman of the department of sociology at Le Moyne College, Syracuse, N.Y., president of the United Nations Assn. of Central New York, vice president of the New York State Sociological Assn., and convener of the Interreligious Instruments for Peace, a Syracuse group of clergy and lay people seeking to reverse the arms race.

continued on page 45

Top of the pops

JOHN PECK '64

POSTER BY GAIL CARTNER

JOHN FORASTÉ



John Peck '64 is slight and dark, with the wiry poise and the direct, round-eyed gaze of a Siamese cat. His speech, gestures, and movements are quiet and precise, and his manner is guardedly friendly. He keeps an unlisted phone number. He does not grant interviews lightly. But behind that self-effacing facade lurks one of Providence's most notorious "underground" figures: Dr. Oldie, a.k.a. the Mad Peck.

Dr. Oldie is well-known to fans of WBRU-FM's "Giant Jukebox" oldies show, which has been riding the nostalgia wave for almost a decade now — a wave that shows no real signs of cresting, since the request line on Sunday nights is even more jammed now than it was a few years ago. The "Giant Jukebox" is *all* requests, covering a span of twenty years from roughly 1950 to 1970: early R&B, "doo-wop," Motown, Beatles, you name it. There are enough record-trivia buffs in the audience to keep the staff hunting for those really esoteric, off-the-wall recordings (like "Jail Bait" by Andre Williams, which

has achieved a certain local fame and gets played at least as often as "I Wanna Hold Your Hand") — and that's where Dr. Oldie, "dean of the University of Musical Perversity," comes in.

Dr. Oldie has a private record library of 30,000 singles and 10-15,000 LPs. "It's a library, not a collection," he points out. "Nobody in their right mind would have a collection that big." He used to have a lot more — in fact, he used to own *two* houses in Providence to accommodate himself and his records — but he pared it down to where he and his library and several roommates can all fit now into one medium-sized house. (He'd like to pare it down still further by turning over most of his records to the John Hay Library's special collections.) Any requests that can't be filled from WBRU's own library get passed along to Peck, who also has access to what is possibly the world's largest private library of 45's — 150,000 of them — owned by a fellow Rhode Islander named Big Al, a sort of brother in the record-collecting fraternity.

Each week's bizarre requests are hunted down and put on tape by Peck for the Dr. Oldie segment of the show, which is then aired the following Sunday.

"When I was a kid, I thought I'd like to have a radio format where people could call up and ask to hear *any* record, and that's essentially what the 'Giant Jukebox' is," Peck says — although the records have to be at least ten years old. "The real aim is to play records that don't normally get played in the course of the week." Many of them wouldn't normally get played in the course of the year. One little oddity, "(Walk Walk Walk Down) Thayer Street" by Sammy and the Streetmeeters, which should bring a nostalgic flush to the cheek of anyone who attended Brown before the '70s, is reserved for a special once-a-year airing the Sunday before Spring Weekend.

Peck was born in Brooklyn and grew up in Fairfield, Connecticut, listening to New York radio in the golden days of Alan Freed and payola scandals. "Like any kid growing

up in the '50s, I collected records, but I also realized that this was another valid form of literature. That sense of permanent value was reinforced around 1960 when people started collecting group records — 'doo-wop' records — Frankie Lyman and the Teen-agers, that kind of stuff. Mostly, it was juvenile-delinquent types hanging around Times Square swapping records. I used to scrounge around for group records in the Woolworth's cut-out bin, pay 19 cents for them, and get four or five dollars toward the records I wanted by wheeling and dealing in Times Square."

Peck was onto a good thing, in more ways than one. From collecting records, he went on to become a sort of professional devotee of pop culture — TV, comics, and the "collectibles" of the nostalgia craze. He developed a connoisseur's sense of value and a hustler's instinct for marketability, which he parlayed on the principle that one man's trash is another man's treasure. For instance, he says, "I used to hustle stuff like Fiesta Ware from the '30s and '40s, which is very collectible, and that paid the money for me to go back and buy records at flea markets and swap meets. When I decided a few years ago to cut back on the records I owned, I went out to Hollywood, where they're about four years behind New York in nostalgia, and managed to unload it all on the Arabs. I made quite a killing on Rodeo Drive."

Peck majored in engineering at Brown and hated it. It took him seven years to graduate ("with probably the lowest grade-point average of the decade"). During that time, Brown got its IBM 360/50 computer — the first 360/50 in New England — and Peck switched to computer science and decided to teach the computer how to play Monopoly. He even figured out the odds for Monopoly ("I found out later I was the first person in the country to do that") — for instance, that the red and green blocks get landed on more often, and that Park Place is a bad deal because the odds of landing on it are relatively low. But the applied-math faculty who were busy trying to debug the new computer's programs got very upset when they found out what Peck was up to. He, as usual, was a few years ahead of his time; the computer now plays everything from Star Trek to chess to three-dimensional tick-tack-toe. (But not Monopoly.)

Engineering did pay off in one respect: it gave him mechanical-drawing experience. In the late '60s, Peck started writing record reviews for the underground press — *Village Voice*, *Creem*, *Fusion*, *Rolling Stone*, *Berkeley Barb*, *East Village Other* — and, with the encouragement of a friend at RISD, began cartooning. Eventually, he started doing his record reviews in cartoon form, then branched out to become an underground cartoonist in his own right. His work has appeared in or on a variety of media: the *National Lampoon*, *New Times*, the Warner Brothers house organ (for which he created a character named

THE UNIVERSITY OF MUSICAL PERVERSITY

PRESENTS

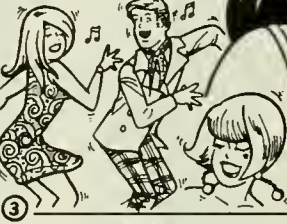
GREAT CONCATENATIONS IN ROCK 'N' ROLL HISTORY



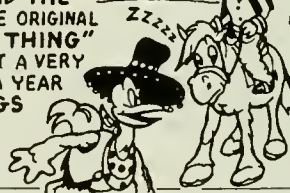
DR. OLDIE

① IN 1962, WHILE MAKING THE MOVIE "CLEOPATRA," ELIZABETH TAYLOR STOLE RICHARD BURTON AWAY FROM HIS WIFE SYBIL!

SYBIL THEN HOOKED UP WITH A YOUNG SINGER, JORDAN CHRISTOPHER AND OPENED A DISCO-THEQUE CALLED ARTHUR. SHE INSTALLED JORDAN AND HIS GROUP THE WILD ONES AS THE HOUSE BAND.



③ IN 1965, JORDAN AND THE WILD ONES CUT THE ORIGINAL RECORDING OF "WILD THING" (U.A. 947). IT WASN'T A VERY GOOD RECORD. BUT, A YEAR LATER, THE TROGGS RECORDED THE SONG AND HAD A NUMBER ONE RECORD WITH IT.



② JORDAN HAD BEEN MAKING NEO DOO-WOP RECORDS SINCE 1961 WITH LITTLE SUCCESS, THO "I'LL BE FOREVER LOVING YOU" (DAPT 203) DID END UP ON ONE OF JERRY BLAVAT'S OLDIE ALBUMS.



④ BY THAT TIME JORDAN HAD GONE TO HOLLYWOOD AND WAS APPEARING IN "RETURN OF THE SEVEN," AN INEFFECTUAL SEQUEL TO THE FAMOUS COWBOY MOVIE "THE MAGNIFICENT SEVEN." VERY LITTLE HAS BEEN HEARD FROM JORDAN SINCE THEN, BUT HIS NICHE IN ROCK HISTORY IS SECURE, JUST AS SURELY AS LIZ TAYLOR IS THE GODMOTHER OF PUNK ROCK!

One of Peck's cartoons, for the rock magazine *Creem*.

© MAD PECK STUDIOS 1979

On page 43, he sits (incognito) in the Graduate Center Bar beneath a mural of his Providence poster.

Polly Promo), posters, postcards, and T-shirts. In the early '70s, he and a former girlfriend, Margery Peters, got a head start on the T-shirt craze by founding Cheez Louize, which created, among other things, the one-and-only official J. Geils Band T-shirt. Cheez Louize was another victim of Peck's foresightedness. "The bottom dropped out because everyone got into the T-shirt business. And one of the first things to get hit by the economic crunch was cotton, which made it hard for us to get quality material." Peck is philosophical about such failures: "Some people, myself included, have no business sense. We just live on a day-to-day basis. And if I'm strapped for cash, I can always dig out some record that somebody wants and will pay money for." Peck himself hasn't had to buy a record in years — the record companies supply them all, ever since he established himself as a rock critic.

Mad Peck Studios, originally formed as a clearinghouse to connect local artists and writers with the Underground Press Syndicate, is the umbrella name for all of Peck's ventures, including Dr. Oldie. Early this year, he had a retrospective showing at the

School One Gallery in Providence, at which his more famous creations were on display — cartoon characters like I.C. Lotz (his former wife's pseudonym), Polly Promo, the Masked Marvel (a distant cousin of Wonder Woman); T-shirts like the J. Geils Band and "The Fabulous Hamptons"; and the Providence poster/postcard, which alone has made the Mad Peck a household name in these parts. The latter was done in collaboration with Les ("Doc") Daniels '65, a fantasy writer, who is the co-author of another Mad Peck creation: *Comix — A History of Comic Books in America*, published in 1970. Rock writer Robot A. Hull '72 has also lent his talents to Mad Peck Studios, mostly on cartoon record reviews.

And where is the author of all this madness when he's not doing cartoons, combing through flea markets, or playing Dr. Oldie? Watching TV. His Sony Trinitron is on about twelve hours a day, and Peck can talk non-stop to an interviewer without missing a beat of "I Dream of Jeannie." He claims to have watched more TV than anyone, starting in 1949, and he has a complete set of TV Guides — which he reads cover-to-cover — going

back fifteen years or so. "Those of us who grew up with TV and take it seriously don't approach it the way the *New York Times* critic does. A lot of people bitch about how terrible TV is. Maybe it is and maybe it isn't, but it overshadows all other forms of culture, so how can you be a snob about it?" His favorite series is "The Rockford Files," but he regards "Monty Python" as "the state of the art in terms of what's possible for TV." Peck would like to be a freelance TV critic as well as a rock critic, but he concedes there's little demand for that. "And unless you can be a TV critic for the local paper," he says, "there's no free product in television." J.P.

CLASSES *continued*

Barbara H. Stanford (Ph.D., '60 Sc.M.) is acting chief administrative officer of the Sidney Farber Cancer Institute in Boston. She continues as director of research administration at the institute, a position the Boston University graduate has held since joining the staff in 1978.

James Seed is president and owner of Container Manufacturing Co. in East Providence, R.I.

Nicholas J. Spiezo and Batiste DeLuca '61 have formed an association for the practice of law at 1828 L St., NW, in Washington, D.C.

64 Dr. Kenneth V. Anderson (Ph.D., '63 Sc.M.) has been named professor of anatomy and chairman of the department at the University of Mississippi Medical Center in Jackson. Dr. Anderson had been on the School of Medicine faculty at Emory University since 1966.

David Allan Garbus and Barbara Cohen Garbus '65, Buffalo, N.Y., report the birth of Adam Phillip on Oct. 22. Their other children are Peter, 14, Samantha, 12, and Emily, 3.

Dr. Joseph E. Godard, New Smyrna Beach, Fla., was recently elected chief of the medical staff at Fish Memorial Hospital, New Smyrna Beach, where he has been director of the departments of radiology and nuclear medicine since 1974.

Dr. Frederic E.J. Helbig, Irvington, N.Y., recently was appointed clinical assistant professor of surgery at the College of Physicians and Surgeons, Columbia University. He is practicing orthopaedic surgery at St. Vincent's Hospital and St. Luke's Roosevelt Hospital Center, Manhattan.

Dennis S. Kennedy, Wichita, Kans., is director of compensation at Pizza Hut, Inc., in Wichita.

A. Thomas Levin, Rockville Centre, N.Y., has been elected a director of the Legal Aid Society of Nassau County, N.Y., and to a second term as director of the Nassau County Bar Assn.

Charlotte Cook Morse, Richmond, Va., has published a book, *The Pattern of Judgment in the Queste and Cleanness*, a study of the Vulgate romance of the Holy Grail, Malory's translation of it, and the fourteenth-century poem "Cleanness." She writes, "I am teaching as usual, working on the 'Clerk's Tale' for the *Variorum Chaucer* and on the Harley manuscripts in the British Library for the *Index of Middle English Prose*. I'm also grants coor-

dinator for the latter project, an international undertaking."

Maureen Walsh Myers and Duncan H. Leach were married in July and are living in Bethesda, Md., with Maureen's children, Amanda, 10, and Michael, 6. Maureen entered the grants associate program at the National Institutes of Health in November. Duncan is the international corporate accounts representative for the Hong Kong-Shanghai Banking Corp., based in Washington, D.C.

David Prescott and his wife, Margaret Hayes Prescott (see '66), are living in Princeton, N.J. David is vice president and general counsel for Gund Investment Corp. in Princeton, enjoying his five-minute commute after years of working in New York City.

Lucia Staniels, New York City, has been named director of subsidiary rights for McGraw-Hill.

Charles B. Weinberg is associate professor of the faculty of commerce and business administration at the University of British Columbia in Vancouver.

Edward H. Zinn is marketing research supervisor of Owens Corning Fiberglas in Toledo, Ohio.

65 Freda R. Egnal (M.A.T.) has been appointed community participations representative with the Philadelphia County Office of Mental Health and Mental Retardation.

Barbara Cohen Garbus and David Allan Garbus '64, Buffalo, N.Y., report the birth of Adam Phillip on Oct. 22. Their other children are Peter, 14, Samantha, 12, and Emily, 3.

J. Michael Griem ('66 Sc.M.), Sao Paulo, Brazil, has been elected vice president and director of Cresap, McCormick and Paget, an international management consulting firm. He was previously regional director of operations services in Chicago.

Dr. Jeffrey S. Hanzel, Richmond, Va., is in the practice of general pediatrics and developmental disabilities in Richmond, and is teaching a course in the education department at Virginia Commonwealth University this semester "relating the medical aspects of handicapped children to educators and the educational system." He and Marsha are the parents of William Stephen, born last July, and Michael, 3.

Dennis A. Holt and Ulle Viirjoa Holt '66, Wellesley, Mass., report they were "joined by our children, Nicole, 11, and Denise, 9, in welcoming William Edward, born on Nov. 24." Dennis is a vice president dealing with fixed income securities and the financial futures markets with Smith Barney Harris Upham & Co. He completed the New York Marathon in October in two hours, forty-nine minutes in 420th place, which qualifies him for the Boston Marathon. He writes, "I guess I peaked just in time."

After spending three and a half years in Dallas with Home Box Office, the pay-TV subsidiary of Time Inc., William G. Hooks, Upper Saddle River, N.J., is relocating to New York City as HBO's eastern regional general manager.

Karen Louise Horny, Evanston, Ill., has been elected vice president and president-elect of the Resources and Technical Services Division of the American Library Assn.

J. Webster Hull, North Tarrytown, N.Y., recently married Marika Hannshevsky and has been promoted to senior management consultant with Touche Ross & Co., New York City.

Allan Odden and his wife, Eleanor Rubottom Odden, are living in Denver. Allan is director of the department at the Education Commission of the States that administers the Education Finance Center and the Law and Education Center. Eleanor continues as the reading coordinator in the Jefferson County Public Schools.

Michael Oullette, a graduate instructor at Southern Methodist University and a former teaching fellow at Harvard, has been named a visiting instructor in English at Union College in Schenectady, N.Y. He is completing his Ph.D. on Verdi's Shakespeare.

Marjorie Harvey Purves (A.M.) is living in Worcester, Mass., with her husband and two daughters. She works for the palliative care service at the University of Massachusetts medical center as coordinator of volunteers.

Bart Rozell, Juneau, Alaska, is serving as president-elect of the Alaska Bar Assn.

Roger Wardle and his wife, Marilyn Wallace Wardle (see '69), report the birth of their first child, Margaret Constance, on Oct. 27. Roger is completing his Ph.D. thesis in mathematics at the University of Delaware. The family lives in Wilmington.

66 Frederick E. Angilly, Jr., Cranston, R.I., is chairman of the national membership development committee of the American Society of Mechanical Engineers.

Philip L. Guldeman, Cardiff by the Sea, Calif., is a manager with the Los Angeles management consulting department of Peat Marwick Mitchell & Co.

Ulle Viirjoa Holt and Dennis A. Holt (see '65), Wellesley, Mass., report the birth of William Edward on Nov. 24. Their other children are Nicole, 11, and Denise, 9.

Roger L. Ludin, Medford Lakes, N.J., has been elected to his second term as president of the Board of Education. He is a professor of physics at Burlington County College, Pemberton, N.J., where he also serves as coordinator of physics. He and Diane Wilson Ludin '67 have two children, Stephen, 9, and Joyce, 7.

Kenneth R. Lundstrom, Dayton, Ohio, recently was appointed director of special services in the Wayne local schools, Dayton.

John J. Macisco (Ph.D.), Scarsdale, N.Y., is serving as the co-chairman of the population and social change seminar at Columbia University.

Robert C. Maddox reports that he "married Trudi Lee on December 9, 1978. We have two daughters, Ronda, 13, and Jamie, 10." He is a partner in the Tahoe City, Calif., law firm of Maddox and Olsen, which specializes in real estate and litigation matters. He graduated from Harvard Law School in 1970 and worked with a large San Francisco firm until moving to Tahoe City in 1975. Robert was recently elected a director of the Tahoe City Public Utility District, the principal local government agency in the area, and also remains active in NASP and the Brown Club of San Francisco.

After three years in Africa, Alexander Newton, Washington, D.C., has joined the Foreign Service with the Agency for Inter-

national Development.

Carl B. Pomerance, Athens, Ga., is associate professor of mathematics at the University of Georgia.

Margaret Hayes Prescott and her husband, David (see '64), are renovating a Victorian farmhouse in Princeton, N.J. She is also "busy chasing after" Elizabeth, 1, and Kate, 5.

Lawrence A. Quinn has been named director of western operations for Raichle Molitor, USA, a ski equipment subsidiary of Raichle Switzerland. Chip is also the managing partner of The Wellington Group, a Denver real estate investment partnership specializing in offices and warehouses in Colorado. He and his wife and two daughters live in Denver.

Robert J. Schwensfeier, Jr., Attleboro, Mass., has taken a managerial position with Texas Instruments in Attleboro. He writes, "Great to be close to Providence and Brown again."

Jean Alexander Small, Westerville, Ohio, has been named loan secretary at the Franklin Bank in Columbus, Ohio. "My daughter is in seventh grade and my son in sixth," she writes. "My husband, Joe ('62), is minister of the Presbyterian Church in Westerville."

Dr. Robert Wesselhoft, Boston, is working as a primary care physician at the Boston Evening Medical Center on Commonwealth Avenue in Boston, and filling in at other Boston community health centers. He is hoping to go to public health school in the fall before heading toward Asia where he and his wife, currently studying for her nurse practitioner's degree, plan to become involved in health care delivery.

67 Paul B. Bailey has been promoted to associate of Kagan & Associates, in the architectural division of the New Haven firm. He and his wife and two children live in New Haven in an historic house that he extensively renovated.

Wendy A. Cooper, Boston, returned last fall to her position as assistant curator of American decorative arts and sculpture at the Museum of Fine Arts in Boston, after a two-year leave of absence. During her leave she worked as guest curator on a major exhibition of American decorative arts, entitled *In Praise of America, 1650-1830*, which opened at the National Gallery of Art in Washington, D.C., in February.

Douglas C. Franke, Fair Haven, N.J., and his wife, Joan, report the birth of their first child, Brian Douglas, on July 31.

Jeffrey S. Goldman writes from Northbrook, Ill., that he and his wife, Judith, now have a second son, Joshua. Jeffrey is practicing civil rights and labor law in Chicago as a principal in the newly incorporated law firm, Fox and Grove, in the Sears Tower.

Jeffrey L. Heidt, Rockport, Mass., and his wife, Susan, report the birth of their first child, Sarah Burr, last April 7.

Dr. B. Frederick Helmkamp, Miami, Fla., is finishing a two-year fellowship in gynecologic oncology at the University of Miami School of Medicine. In July, he will become associate director, division of gynecologic oncology, at the University of Rochester Medical Center, Strong Memorial Hospital.

Lee M. Heltterline received his M.S. in counselor education at San Diego State Uni-

versity in 1978 and is working with the Vietnamese boat people at San Diego City and Mesa Community Colleges.

Lynn Mooney Hickey ('69 A.M.) and Clifford Hickey (see '77), Edmonton, Alberta, are the parents of two boys, Clayton, 2, and Travis, born in June. She has retired from her job as assistant director of research at the Indian Association of Alberta to become a full-time mother.

Lt. Comdr. H. B. Lemon, Civil Engineer Corps, USN, and his wife, Judith, and their children, Andrea and Henry, are living in London, England, where Bruce is assigned to the staff of the Commander in Chief, U.S. Naval Forces Europe.

Diane Wilson Ludin and Roger L. Ludin (see '66) live in Medford Lakes, N.J., with their two children, Stephen, 9, and Joyce, 7.

R. Dennis Macks, Mackenzie, British Columbia, has formed his own company, Wilderness Valley, Ltd., to carry supplies by air to isolated mining camps that are the result of a recent boom in mining exploration in the area. He retains his position as a meteorologist in Mackenzie for the federal government.

Dennis Murphy (A.M.), Des Moines, Iowa, is vice president of education at Professional Training Associates.

Dr. Wayne E. Pasanen and Susan Anton were married in May 1978 and are living in Lexington, Mass., where Wayne is president of the Merrimack Valley Emergency Associates, and is chief of emergency medicine at Lowell General Hospital. He is also president of the Massachusetts chapter of the American College of Emergency Physicians.

Victoria M. Robin writes to say that for the past three years she has been traveling in the western United States and Canada with several friends. "My activities in the last ten years have included a marriage and divorce with Mark Lediard '67, homesteading in northern Wisconsin, designing and building from chassis up our motorhome, birth control counseling through Rocky Mountain Planned Parenthood, working as an auto mechanic, and counseling through various church, government, and private organizations. For seven of these years I shared these adventures with Terri Wellman '67. I am 'retired,' and work only on a volunteer basis. Future plans include travel around the world."

Nicholas Robinson is an attorney with the New York City firm of Marshall, Bratter, Greene, Allison, and Tucker. He is a graduate of Columbia Law School.

Jean Carroll Scott (M.A.T.), Montreal, Canada, has been headmistress for ten years of The Study, an independent school for girls in Montreal. She reports that several of her graduates have attended Brown in the last few years.

Dr. Joel J. Wideltz, Long Beach, Calif., has opened a new office for the practice of pediatrics in El Cerrito, Calif.

68 John N. Anglin has become a partner in the firm of Mailman, Ross, Toyes & Shapiro, certified public accountants, North Plainfield, N.J.

Joel P. Bennett, Washington, D.C., is the treasurer and director of social and cultural activities of the Brown Club of Washington, D.C.

George H. Christoph, Aston, Pa., is a staff

consultant for General Electric in Philadelphia. He and his wife, Barbara, have a daughter, Jennifer.

Dr. Peter J. Gates has been in private practice in Ledyard, Conn., since finishing his residency in Brown's family medicine program at Pawtucket Memorial Hospital in 1978. He and his wife, Claudia, and their five children live in Ledyard.

Gerard E. Giannattasio, Massapequa Park, N.Y., graduated from the Benjamin N. Cardozo School of Law in June and has passed the New York state bar exam.

Marcia Knight, New York City, received her Ph.D. in clinical psychology in September from Yeshiva University.

Robert S. Lyle has joined Citibank as an assistant vice president in the energy department of the national banking group. He and his wife, Barbara, and their three children live in Darien, Conn.

William C. Mack, Philadelphia, and his wife, Patricia Rhyné Mack (RISD '70), report the birth of Allison Marie last June. She is their second child.

E. Susanne Gall Richert ('76 Ph.D.) is director of gifted education at the Educational Improvement Center in Sewell, N.J., where she is an educational policy fellow. She recently wrote the teaching guide for the film series, *Equal Justice Under Law*, produced for the U.S. courts on the occasion of the Bicentennial. Susanne is also consulting nationally on gifted education.

Laurie Overby Robinson, Washington, D.C., was recently named director of the section on criminal justice of the American Bar Assn., with offices in Washington, D.C.

Dr. Steven M. Sagar and Susan Semonoff Sagar live in Boston, where he is a research fellow in neuroscience at Massachusetts General Hospital and is again seeing patients on a limited basis. Susan is a commercial lending officer for New England Merchants National Bank in Boston.

L. Robert Smith has been elected "Young Engineer of the Year" by the Rhode Island Society of Professional Engineers. He is vice president of Waterman Engineering Co. of East Providence.

Jerrold Solomon, Newton, Mass., reports the birth August 2 of his third son, Aaron Lee. In September Jerrold began a sabbatical year in a mid-career master's of public administration degree program at the John F. Kennedy School of Government at Harvard.

William D. Stewart, Jr., and his wife, Katy, New York City, report the birth of their first child, James Alexander. Bill is a senior broker and a director of Chester, Blackburn and Roder, Inc., shipbrokers, located in the World Trade Center.

After three years as an assistant professor of theory at the Oberlin College Conservatory of Music, Gaymeth Walker, New Canaan, Conn., has left teaching in order to compose on a full-time basis, and is working on a commission for the Hartford Chamber Orchestra.

69 Eve Barak Briles, Birmingham, Ala., is an assistant professor of anatomy at the University of Alabama in Birmingham, where her husband, David, is an assistant professor of microbiology.

H. Theodore Cohen and Cynthia Breitherg Cohen, Cambridge, Mass., report the birth of

a son, Alexander, on June 27. Ted recently became a partner in the Boston law firm of Tyler & Reynolds, where he specializes in municipal and environmental law. Cindy is associated with the Boston law firm of Parker, Coulter, Daley & White, where she specializes in civil litigation.

David K. Duffell is practicing law in Providence with the firm of Edwards and Angell and is living in Warwick, R.I. His children are Kerri, 4, and Andrew, 2.

John Gardner, Ann Arbor, Mich., received his M.B.A. from Michigan in 1971 and is working as a management consultant for Ford. Jay and his wife, Gwyn, whom he married in 1977, are living on a farm north of Ann Arbor.

James Greenfield has become a member of the Hartford, Conn., law firm of Hebb & Gitlin. He holds both a law degree and a master's in business administration from Columbia.

Dr. Allen H. Heller, West Roxbury, Mass., has completed his neurology residency and is an instructor in neurology at Harvard Medical School, where he devotes most of his time to laboratory research in neuropharmacology.

Lloyd D. Keigwin, Jr., Newport, R.I., received his Ph.D. in oceanography from URI in May and is doing postdoctoral research for one year at URI.

Molly Hurley Moran, and her husband, Mike, Lawrence, Kans., are both teaching English at the University of Kansas in Lawrence.

Thomas D. Petes and his wife, Rosann, are both assistant professors at the University of Chicago in the field of genetics.

John J. Seater and Susan Harris Seater '71, Bala-Cynwyd, Pa., report the birth of their second child, Robert, December 1.

Dr. Ronald Alan Seff, Baltimore, Md., reports that he completed his first marathon in three hours and forty-six minutes, and is planning on continuing to run, "at least till I can qualify and run in the Boston Marathon."

Kenneth R. Sloan, Jr., is a research associate and instructor in the computer science department of the University of Rochester.

Elizabeth Pfeiffer Tumbas and Stephen Tumbas (see '72) announce the birth of their first child, Elizabeth Anne, last June. Betsy "finished the run of Joe Orton's *Ruffian on the Stair* in San Francisco, then devoted herself to the role of mother until November, when she came out of her 'semi-retirement' to play Amanda in a local production of *The Glass Menagerie*." They are living in Coalunga, Calif.

Marilyn Wallace Wardle and her husband, Roger (see '65), report the birth of their first child, Margaret Constance, on Oct. 27. Marilyn has returned to her job as research physicist for DuPont. The family lives in Wilmington, Del.

70 Our 10th reunion is little more than a month away, and it's not too late to make plans to renew old friendships and catch up on the "Brown scene." The Blue Room, the Rock, the College Green certainly will evoke some memories. Reunion activities have been slightly modified since the most recent article in this magazine. The class buffet will now take place on Saturday evening at Alumnae Hall. Of course, on

Friday night there is the Brown Bear Buffet, along with strolling musicians! This will take place in Sharpe Rectory, right near Harkness House, which is serving as class headquarters. In fact, the entire weekend is filled with our own class activities to go along with the traditional University-sponsored events. There is something for everyone. See you on Friday, May 29.

Patricia Allen Benjamin and her husband, Mark (Berkeley '70), celebrated their daughter Sarah's first birthday on Nov. 17. They live in Los Angeles.

Malcolm H. Byrnes has joined Texas Bank in Dallas as a senior vice president in the commercial loan department.

Capt. Tommie G. Cayton, San Antonio, Texas, is chairman of the behavioral medicine committee at Wilford Hall USAF Medical Center, Lackland AFB, Texas.

Sharon Sweet Deluca, East Providence, R.I., writes that she "retired" from her job as assistant director of financial aid at Brown to have a baby. Peter was born last June 9. She is keeping busy making bread and pasta, serving on the Junior League board, and consulting in the financial aid area.

Ann Bromberg Ewalt reports the birth of her second son, Mark David, on June 21. Her first son, Andrew, was 2 in May. "I'm currently a lecturer in math at Dutchess Community College, on leave from my job as future memories qualification support manager at IBM," she writes. "My husband, John, is manager of advanced processor manufacturing at IBM in Poughkeepsie." The family lives in Poughkeepsie.

John G. Gantz, Jr., Andover, Mass., reports that the holidays started early at his house, with the birth of Brian John on Dec. 14. John and his wife, Elaine, also have a daughter, Jennifer, 2.

Harold V. Lyons, Jr., and his wife, Jean Linklater Lyons, Cincinnati, Ohio, report the birth of their first child, Jennifer Marie, on August 30. Jean, the sister of Thomas E. Linklater, is a high school learning disabilities teacher. Harold is associate actuary at Western-Southern Life Insurance Co.

Reese L. Milner II, Beverly Hills, Calif., graduated from Stanford Law School and Stanford Business School in 1974 and, after practicing law for four years, is now in the real estate development business in southern California.

John Salinger will locate in the States this spring after finishing an assignment with an affiliate of the Chase Manhattan Bank in Nigeria.

Richard J. Shapiro, Port Chester, N.Y., is a tax attorney associated with the law firm of Strock & Strock & Lavan in New York City. His wife, Rhoda, is a financial analyst with Pepsico.

Roger E. Wakefield, Derry, N.H., reports that he and his wife, Betsey, have moved into a new home. She is a fourth-grade teacher in Merrimack, N.H., and he works for General Electric aerospace instruments in Wilmington, Mass., as a CAD/CAM development engineer.

Donald R. Williams and Geraldine Lemon Williams are living in Newtown, Pa., where Geri is busy raising Scott, 5, and Kristin, 4. Her hobbies include stained glass, candle-making, pottery, tole painting, and decorative lamp-shade cutting. She is also active in

the local Welcome Wagon Club and Brown class of '70 fund-raising. Donald received his Ph.D. in organic chemistry from Colorado State University and is working at Rohm and Haas Co., Bristol, Pa., in the plastics research department. His outside interests include landscaping the new home and leading a wine-tasters' group.

71 Alan F. Arcuri (Ph.D.) has been promoted to professor of political science at Stockton College in Pomona, N.J. He has a joint appointment in political science and criminal justice. Recently, Alan was selected as a Dantorth Fellow.

Frank Giso III and Deborah Jean Kracht were married May 5 in the chapel at Bradford College, Bradford, Mass., and are living in Melrose, Mass.

Thomas T. Hanold is international banking officer in the Asia/Pacific division of the Harris Bank in Chicago. Tom writes, "Now that I am at the crossroads of the world, near O'Hare Airport, I expect to hear from Brown friends and roommates."

Dr. Richard W. Harbison ('75 M.D.), San Antonio, Texas, is completing a two-year fellowship in pediatric infectious diseases at Wilford Hall Medical Center, Lackland AFB, San Antonio. Rick and his wife, Doris Lundberg, M.D., report the birth of their first child, Kim Maria, on Dec. 4.

Russell C. Hertzog, Missouri City, Texas, is a section head with Schlumberger Well Services in Houston.

Cornelius J. Madera, Jr., Bernardsville, N.J., is general counsel to and a member of the board of directors of the ShopRite Supermarket chain. He and his wife have two daughters, Meghan, 3, and Caitlin, 2.

Lynda R. Mandell, Richmond, Va., received her Ph.D. in philosophy and literature from George Washington University in 1977 and is a third-year medical student at the Medical College of Virginia. She is planning on doing a residency in either neurology or oncology.

Thomas J. McDonald, Jr., Attleboro, Mass., and his wife, Sheila, report that they have a 1-year-old son, Zachary Devin. Tom is working as a manufacturing manager for Leach and Garner Co., a precious metals manufacturer.

Dr. Mary Jane Minkin, Wallingford, Conn., has a private practice in obstetrics and gynecology in New Haven. She writes, "I seem to specialize in delivering future Brown candidates, namely alumnae/i children, including Bev Hodgson '70 and John Leventhal's '69 new son, Adam, and Fran '73 and Steve Rasmussen's ('77 M.D.) son, Benjamin. The all-Brown deliveries are fun. There's an entire Brown contingent in OB at Yale — Stephanie Spargler '76 is chief resident, and Bonnie Saks '75 takes care of OB-related psychiatry problems."

David G. Pires and his wife, Fatima, report the birth of Allan David on Oct. 5. They are living in Stone Mountain, Ga.

Alfred K. Potter II, Bethlehem, Pa., received an M.B.A. from the Graduate School of Business of the University of Chicago in December, with concentrations in finance and marketing. He is a development engineer at Bethlehem Steel Corp., involved in market development of new products. He

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Creating an imaginary world

ELIZABETH ABBOTT '64

On a recent Sunday afternoon eighteen potential candidates (p.c.) for the Presidential election in 2012 blithely disregarded the impending primaries and gathered in Yonkers, New York, to celebrate Tamar Blumberg's sixth birthday.

1:15 p.m. Two moms pass out cheese pizza to the eighteen potential candidates perched on the floor in front of square cardboard blocks, painted green, with paper plates and cups on top.

1:20 p.m. First p.c. cries. "Tamar, hey Tamar, Jody's crying." One mother: "Debbie [Tamar's mother], you know one little girl is crying." Debbie: "Yes, I know."

1:23 p.m. "We have the right stage frame but it is upside down." Elizabeth Abbott '64, a puppeteer hired for the party, is setting up the puppet stage for her performance of "Punch and Judy." (Elizabeth Abbott, her assistant Mike Gordon, two suitcases containing puppets, two large bags containing supplies, the collapsible stage, a long box with curtains, and a BAM reporter had traveled — wedged in a Toyota — from East 96th Street in Manhattan, where Elizabeth lives, to Tamar's party in Yonkers.)

1:35 p.m. Elizabeth explains the stage to a few curious p.c.'s. "It looks weird," one says. "Aren't there supposed to be some windows over here?" Elizabeth and Mike continue to set up the stage.

1:50 p.m. Tamar's mom: "Listen, it will take a few more minutes to set up, so Tamar, would you like to open your presents now?" Tamar: "Oh, Yeeees!" Tamar's mom: "Wait, wait, wait, Tamar. Just a minute. Just a minute. Don't do anything yet. All right everybody, sit down, on your tush, on your tush."

2:03 p.m. The puppet show is ready. Tamar's mom: "Before we get started, one rule: *Nobody* leaves his seat. If you have to go to the bathroom, go now. All right?" The show begins. Elizabeth Abbott stands before the puppet stage. "Boys and girls," she says, "today you're going to see my puppet show. Raise your hand if you have puppets," she says. Four or five hands wave. "That's good," Elizabeth replies, "but I bet all of you have puppets in your home." Elizabeth Abbott makes a puppet out of an empty plastic bottle, out of a powder puff, out of a pink fuzzy slipper. She holds up a limp white object. "Boys and girls, what is this?" "A sock," Jason says, "a stinking sock." "It is a sock," Elizabeth says, "well, at least it's clean." Jason: "It stinks!"

2:12 p.m. The music starts (from a cassette tape player). All watch production of "Punch and Judy." No one leaves his seat. Scene III: "Boys and girls, as witnesses to



the event, did Punch knock off Mr. Scaramouche's head?" Boys and girls: "Yes!" Punch, muttering: "He never used it anyway. . . ."

"I do not ever recall having a puppet in my hand until I was over thirty," Elizabeth Abbott says later. "I didn't have

puppets as a child; they just weren't around as toys as they are now." Elizabeth was an only child and, playing by herself, she created her own imaginary world — "to quite a big extent, actually," she says. "I used to have a doll's house that I played with all the time. With that, there is no sense of performance, so your mind really has to be in the

doll's house and in the characters, which was much better really."

For about ten years Elizabeth, who was an English major at Brown, aspired to write children's stories. "Recently I went into a drugstore with some much younger cousins and they headed straight for the racing forms and I headed for the children's books." Eventually, however, Elizabeth relinquished her ambition to write children's books — "You just don't get the audience feedback," she says. "You get the editor's feedback, which may be 'We don't want your story at all' " — to pursue an interest in children's theatre. She earned an M.A. in theatre at NYU in 1975 and that led her, eventually, to puppetry.

"I got some books out of the library about how to make puppets," she recalls, "and I tried everything possible with papier-mâché. . . . I love animals and I particularly like making animal puppets and working with the relationship of human puppets with animal puppets, and even the anatomy of animals. If you look at an alligator and take him apart you'd almost see a whole anatomy just to make his jaw work right." Elizabeth's first puppets were a cat, a pig, and a fox.

There was one problem, however. Elizabeth's puppets were mute: she never used them. "I never performed," she says, "but Lee Wallace [a New York puppeteer with whom Elizabeth was studying] really did lead me over the bridge there. She was very good about encouraging people to use their puppets."

Elizabeth selected "Punch and Judy" — one of the few shows written for the medium of puppetry — to develop as her first production. "Punch and Judy is a nice, violent, bloody show, of course, and six-year-old boys can't get enough of that." Elizabeth crafted each of the puppets — Punch, Judy, Scaramouche, The Policeman, The Hangman, The Devil, Toby the Dog, and The Alligator — from plasticine, a plaster cast, and plastic wood, except the Hangman who, because he must be light enough to swing from the gallows, is papier-mâché. A cabinet-maker friend made Elizabeth's stage, which is, she says, "the envy of every puppeteer in New York." It will fold up and fit into a cab. Puppets in hand, Elizabeth went into rehearsal. Watching herself in a mirror, inflecting a different voice for each character, writing her own script, Elizabeth produced a thirty-five-minute show and, just over two years ago, she took her show on the road.

Her first performance was at Yeshiva Law School in New York. Since then Elizabeth and her puppets — called Abbott Road Puppet Shows — have performed at Lord and Taylor, Barnes and Noble, public schools, and, of course, at birthday parties. December is her busiest month and in the holiday season she averages one show a day. She charges \$60 for a birthday party — more if she has to take a cab. "No way," she says "can I support myself on this." (Though she

does not now have a full-time job, Elizabeth worked for New York's Department of Social Services for six years.) But Elizabeth has grossed three times as much this year as last, and she is hoping to take to the street fairs in the summer.

Each semester Elizabeth speaks to the drama therapy class at the Turtle Bay Music School about using puppets as therapy and she periodically brings a small show — "I call it a soap opera with puppets" — to the psychiatric ward at Bellevue Hospital. "There's a quality in a puppet that allows you to identify with it, but also it can really be a 'not-self'," she says. "Some things people say through puppets are really very revealing." For this work Elizabeth received an award from Mayor Beame.

"What I love in being a puppeteer," says Elizabeth, "is working with my hands."

2:45 p.m. The show is over, and Elizabeth shows the children how to make puppets with brown or white paper bags, magic markers, tufts of yellow, red, or black fuzz (for hair or heavy nostril growth), and swatches of material. One boy: "Ilana, what are you going to make?" Ilana: "I'm going to make a devil." D.S.

CLASSES *continued*

started working towards the M.B.A. part-time when employed at Bethlehem's Chicago district sales office.

Dr. W. James Robbins and his wife, Sandra, are living in Geneva, N.Y., where James is in private practice as a pediatrician. He writes, "We are enjoying the Finger Lakes region, especially the sailing on Seneca Lake."

Robert L. Scalise, West Roxbury, Mass., is head coach of women's soccer and men's lacrosse at Harvard. He reports that the soccer team won an Ivy championship and EAIAW co-championship. "Ironically, we beat Brown, 5-1, in the Ivy championships at Harvard, and then beat Brown again, 4-2, in the eastern regionals! The Easterns were the first ever for women's soccer, and were held . . . at Brown!"

Milt Schmidt, Jr., has been appointed assistant director of undergraduate admissions at Babson College. He had served as assistant hockey coach at West Point, Penn, and Princeton.

Susan Harris Seater and John J. Seater '69, Bala-Cynwyd, Pa., report the birth of their second child, Robert, in December.

72 Joan Beliveau Berna and her husband, John, report the birth of their first child, Benjamin John, last May. They live in Demarest, N.J. "B.J." is the first grandchild of Jean Short Beliveau '45.

In August Christine S. Boueman, Evanston, Ill., left her editing job at the college division of Scott, Foresman and Co. to become an editor with *Consumers Digest* and *Money Maker* magazines in Chicago.

John Boyd and Eileen Rudden ran into each other last October at the New York City Marathon. They were both entered in the race. Their spouses, Susan Adams Boyd and Josh Posner '71, cheered them to the finish.

Another spectator was Bruce Posner '73.

Donald D. Deignan is a graduate student in history at Brown and reports that he is pleased to be living on his own in Providence.

Nancy Wang Dudgeon and her husband, Scott, report the birth of their first child, Andrew McBain, on Nov. 15. Nancy is manager of data processing production control at Manufacturers Life Insurance Co. in Toronto, Canada.

Dr. Jonathon L. Elion ('75 M.D.) has been named assistant professor in the department of medicine at the University of Wisconsin. "I am the director of the Introduction to Clinical Medicine (Physical Diagnosis) course for second-year medical students and am researching computer applications in medical education," he writes. "Starting this July, I will be getting further subspecialty training and have accepted a position as a fellow in cardiology at Duke University. My wife, Kathleen, and I are proud to report the birth of our first child, Christopher Jon, on Nov. 5. He has not as yet announced his career goals."

Stephen A. Glassman and Mark Basile have jointly acquired and refurbished a sixty-three-year-old house in Guilford, Md., and decorated it to show off their art collections. Stephen operates an art and architectural design service, Stephen A. Glassman, in Baltimore.

Larry P. Hageman reports that he has been living in "beautiful downtown Cleveland, Ohio." He is director of risk management at Mount Sinai Hospital of Cleveland. He writes, "Still single, I spend most of my spare time in search of the elusive 'good woman' companion."

Christian Keitel and his wife, Cheryl, report the birth of their first child, Laura, on Aug. 28. The family lives in Cincinnati.

Peter LeWitt ('75 M.D.), Stanford, Calif., is a resident in neurology at Stanford Medical Center.

Jill Grant and Christopher Lovett were married on Aug. 12, 1978, in Newton Centre, Mass. Jill is a doctoral student in clinical psychology at Adelphi University in Garden City, N.Y. They are living in Glen Cove, N.Y.

Elaine A. Rich is an assistant professor of computer science at the University of Texas at Austin.

William J. Roland and his wife, Carolyn, report the birth of their second son, James King, on Dec. 9. They live in Providence.

Paul M. Rosenberg, Cincinnati, Ohio, was admitted to the Ohio bar this year, and is working at the University of Cincinnati Medical Center as associate to the director, patient care standards. He deals primarily with risk management and professional liability questions.

Lisa Sarasohn, Concord, N.H., is with the state's Office of Community Education. During the past two years she has been writing on a number of women's health issues, and the quarterly journal, *WomanWise*, has published several of her articles. To round out her schedule, Lisa teaches classes in yoga and stress management.

Peter J. Simon, Boston, returned to New England as a consultant for Bain & Co., Boston, after his 1978 graduation from the Stanford Graduate School of Business. He announces the birth of his first child, Todd Bruml Simon.

Margaret M. Stroock and Andrew M. Low were married March 31, 1979, at her parents' home in Jackson, Wyo. Martha M. Greenwood, now in her third year at Harvard Medical School, was maid of honor. Andrew is a lawyer with the firm of Rogers & Wells in New York City. Margaret is associated with the law firm of Webster & Sheffield in New York City and specializes in tax law.

Daniel G. Synakowski, Wellsville, N.Y., is practicing law in Wellsville, where he is living with his wife, Connie, son Jason, 4, and daughter Sarah, 2.

Stephen Tumbas and Elizabeth Pfeiffer Tumbas (see '69) announce the birth of their first child, Elizabeth Anne, in June. Stephen left his job as banquet captain with the Hotel St. Francis in 1979 to become the manager of the Harris Ranch Restaurant in Coalinga, Calif., which specializes in grain-fed beef from the Harris feedlot and in ranch-style cooking.

Matt Savage Walton III, New York City, is a consultant with the firm of Towers, Perrin, Forster & Crosby, where Bob Freedman also works. Matt's wife, Sarah, works as a designer for Skidmore, Owens and Merrill in New York.

Larue Allen Washington is an assistant professor in the psychology department at the University of Maryland.

73 Benjamin Sato Ambush spent 1978-79 as resident directing assistant at Washington, D.C.'s Arena Stage. Benny is now apprenticeship specialist for a new employment and training program for the arts, entertainment, and media industry sponsored by the Washington, D.C.-based Labor Institute for Human Enrichment. He is developing federally registered national apprenticeship standards for selected arts occupations, the first being for stage actors. He received his M.F.A. in directing from the University of California, San Diego in 1977.

Dr. Linda-Lee Barton, Brunswick, Maine, received her V.M.D. from the University of Pennsylvania School of Veterinary Medicine in May and reports that she is now "enjoying time to ponder questions of larger significance."

Donna M. Bryant received her Ph.D. in experimental psychology last May from the University of North Carolina, Chapel Hill. She is now working as a research associate at the Frank Porter Graham Child Development Center in Chapel Hill. Her research concerns the effects of two types of early intervention, day care and parent education, on high-risk infants and their families.

Rich Cureton is assistant project manager of Continental Illinois National Bank Properties Development Division in Chicago.

Donald W. Delson and Cordelia Hebble Delson (see '74) report the birth of their first child, Madeleine Irene, on June 8, 1979. He received his M.B.A. from Harvard in 1977 and is a third-year student at the University of Virginia Law School, where he is an articles editor for the *Virginia Law Review*.

Charles M. Dunn and Nancy Ann Goldstein (Wheaton '76) were married April 29, 1979, in Providence, where they are living. Attending the wedding were Norbert Donnelly, Neil Kiely '74, Peter Rotelli '74, and Jeff Brodhebb. Charles is general manager of the Real Reel Corp. in East Providence. Nancy is a

personnel representative with Industrial National Bank, Providence.

Richard A. Fine is assistant professor of English and coordinator of the American Studies program at Virginia Commonwealth University, Richmond. He received his Ph.D. from the University of Pennsylvania in 1979.

Joel J. Goldstein recently accepted the position of manager of employee and organization development at Digital Equipment Corp., Salem, N.H. He is living in Reading, Mass.

Lance B. Hackett and Ann Fritz were married Sept. 9 (BAM, December). The best man was Robert Daly, and Jim Burke and Jim Rothstein were ushers. Ann attended Dartmouth and Stanford Business School. Lance graduated from Harvard Business School in June, and they are both working for Strategic Planning Associates as management consultants in Washington, D.C.

Dr. Mark Haffenreffer ('77 M.D.) reports that he is enjoying life in Boston "working on my place and occasionally playing squash. I attempted to run again, but those muscles which hitherto responded to 'go' now respond much better to 'stop.' The door is always open." Mark lives at 190 Beacon St. #2, Boston.

Denise Freeman Hawkins and her husband, Joseph, Washington, D.C., report the birth of their first child, Alison Denise, September 26.

Mark D. Lacedonia and his wife, Jane, report the birth of their first child, Jill Nancy, last June 12. Mark was recently promoted to senior accountant in the C.P.A. firm of Coopers and Lybrand in Hartford, Conn. They are living in Middletown, Conn.

Jim Lollar was appointed a municipal judge in Fort Worth, Texas, in December 1978. He received his law degree from Baylor Law School and was hired in 1976 as a member of Fort Worth's legal department as a court prosecutor.

David M. Malone, Durham, N.C., is working on his doctorate in child psychology at Duke University.

Kevin J. McCormick is a personnel development advisor with Conoco in Houston, Texas.

Gary Melillo and his wife, Sharon, North Plainfield, N.J., report the birth of their first child, Michael Patrick, on July 31. Gary is a computer sales representative for Hewlett-Packard Co. while pursuing his M.B.A.

Russell J. Pistone and his wife, Susan, have moved to Englishtown, N.J. Russ works for Ingersoll-Rand Co. in New York City as a sales engineer in its gas compression and turbo machinery division.

Mike Raymond is manager of new product development for Adolph Coors Co. in Golden, Colo., moving there from Chicago where he had been an account executive for the Leo Burnett Co.

Glenn R. Rudy writes that he and his wife, Pat, and two boys, Jason, 5, and Michael, 2, are living in New Paltz, N.Y. He is working for Merrill Lynch in Kingston, N.Y., as an account executive.

Carol H. Stewart (M.A.T.), Nashua, N.H., received her M.S. in rehabilitation counseling from Boston University in 1979 and is a coordinator of rehabilitation services for a small rehabilitation workshop in

Nashua.

Frank Szofran (Ph.D., '68 Sc.M.) is living in the St. Louis area with his wife, Janet, and their two children, Adam, 9, and Sarah, 6. Frank is a research scientist in the McDonnell Douglas Research Laboratories, working on crystal growth and characterization of semiconductor materials for infrared detector applications.

Samuel W. Woolford II, Worcester, Mass., received his Ph.D. in applied math from Purdue University in August and is teaching in the department of mathematical sciences at Worcester Polytechnic Institute.

74 Cordelia Hebble Delson and Donald Delson (see '73) report the birth of their first child, Madeleine Irene, on June 8, 1979. Cordelia received her M.E. in biomedical engineering from the University of Virginia in May and is a computer programmer in the department of physiology at the university.

David Ferster has completed his Ph.D. in neurobiology at Harvard and is in Sweden on a postdoctoral fellowship at the University of Göteborg.

Faye V. Harrison is an anthropology student at Stanford University and spent a year in Jamaica doing research for the doctoral dissertation she expects to finish by next summer.

Roscoe C. Howard, Jr., Alexandria, Va., is an associate with the law firm of Crowell & Moring, Washington, D.C.

William L. Hyde, Tallahassee, Fla., is the assistant general counsel for the Florida Department of Environmental Regulation. He lives with his wife, Cela, and Labrador retriever, Strider, at 3612 Shoreline Dr.

Richard E. Johnson, Providence, is supervisor of tumor registry in the department of medical oncology at Rhode Island Hospital. He has been certified as an assistant instructor by the National Assn. of Underwater Instructors and helps to teach scuba diving at Brown.

The Rev. Robert Kuntz and his wife, Mary Elizabeth Merkle, Canton, Ohio, began work in July as co-associate pastors of the Church of the Savior, United Methodist, in Canton. They both work full-time for the church and are one of the few clergy couples in the country to work together. He received his M.C.E. from Garrett-Evangelical Theological Seminary in June and his M. Div. there in 1978.

Leo R. Ladefian and his wife, Gay, Jamaica Estates, N.Y., report the birth of their first child, Richard Robert, on Dec. 3.

Jim Lollar, a Fort Worth, Texas, assistant city attorney, has been appointed judge of a newly created municipal court in that city. He is a graduate of Baylor Law School.

David D. Moore received his Ph.D. in molecular biology recently from the University of Wisconsin at Madison. He is a postdoctoral fellow at the University of California Medical Center in San Francisco.

Marc I. Raphaelson is a resident in neurology at Stanford University School of Medicine.

Marcia E. Whithead received her Ph.D. at the University of Texas at Austin last May and is serving as an instructor in the English department there.

75 Yes, the Class of '75 will have its reunion this spring during the week-end of May 30-June 2! Come for cocktails, campus dance, barbeque, music, sports, and just plain nostalgia. You will be getting a letter from us soon, but direct any questions to: Class of 1975, Reunion Headquarters, Mad-dock Alumni Center, Brown University, Box 1859, Providence 02912.

Susan Becker is teaching fifth and sixth grade at Paideia School in Atlanta. She is living at 1067 Alta Ave., NE, Apt. 28, Atlanta 30307.

John J. Bonacum, a law student at Boston University, is living at 34A Park St. #3, Brookline, Mass. 02146.

Christopher B.R. Brown and Jocelyn Chertoff (see '77) are living in Winooski, Vt., "and are as happy as clams. If you're in the neighborhood, do drop in."

Elizabeth B. Carder, Washington, D.C., is an associate with the Washington, D.C., law firm of Pierson, Ball & Dowd.

Dr. Claire M. Flanagan graduated in June from Mount Sinai School of Medicine, New York City. At graduation she was awarded the senior class prizes in surgery and pediatrics. She is a first-year resident in pediatrics at Children's Hospital of Philadelphia.

Aimée J. Grunberger is "still living in Providence" and works as a psychotherapist at the Providence Veterans Hospital. Her address is 9 Elton St., Providence. She asks her old buddies to come to the reunion with sleeping bags: "We have lots of floor space!"

When Peter C. Hansen and Elaine Carroll were married in June (BAM, December), the wedding was attended by Charles Danchess, Mark Scott, Digian Filippo Scott, James DeWolf, Tonda Holwerda Barrett '76, and Tony Barrett '76 A.M.

Patricia Henry Hill and her husband, George, Grafton, Mass., announce the birth of their daughter, Rebecca Eria, on June 9, 1978, and the birth of their son on Nov. 8, 1979.

Kenneth Hoadley, Sunnyvale, Calif., is a senior systems programmer for Amdahl Corp., Sunnyvale.

Eric E. Keitel and Cindy Wedding (UCLA '75) were married on Aug. 20 and are living in Canoga Park, Calif. Chris Keitel '72 was best man and Jim Ottinger was an usher.

David Landau is a staff attorney in the ACLU's Washington office. Speaking for the ACLU in February when President Carter proposed registration for the young people of the country, David was quoted in wire reports as saying that the day the President "signs male only registration, we will be in court."

Steven M. Lewis, Bayside, N.Y., has been named general partner at D.H. Blair Investors Corp. in New York City. He is a municipal bond specialist.

Jonathan B. Lowell, Northboro, Mass., is a corporate modeling analyst in the economic planning department at New England Electric.

Ward J. Mazucco, Danbury, Conn., was elected in November to a two-year term on the zoning commission of Danbury.

Gary E. Miller, Palo Alto, Calif., is co-founder and vice president of Elecon, and uses his new 4,300-square-foot facility to test computers on contract.

Richard D. Morford, Bernardsville, N.J.,

has left teaching and is working in marketing and product management in the flavor and fragrance division of Chemical Dynamics Corp. in South Plainfield, N.J.

Norma Nice Murphy (Ph.D.), Des Moines, Iowa, is an assistant professor of French at Drake University.

Helayne Oberman and Dr. Paul Stoopack were married on Nov. 18 in Queens, N.Y. Nina Abdun-Nabi was maid of honor and Joseph Lichtenger was an usher. Also in attendance were: Dr. Ellen Gurney, Dr. Joseph Deltilo, Amy Maurer Goldstein '76, Dr. Stephen Kotler, Dr. Philip Kantoff '76, '79 M.D., Steven Gottlieb '77, Mitch Berg '76, and Julie Deutsch '79. Helayne is a second-year student at Harvard Law School, and Paul is an intern in medicine at Newton-Wellesley (Mass.) Hospital. They can be reached at 17 Everett St., Cambridge, Mass. 02138.

Mary B. Pietsch has been appointed assistant curator of collections at The Old Gaol Museum in York, Maine. She is involved with cataloging and photographing the museum's collections as well as preparing and planning new exhibits.

Dr. Thomas Carroll Platt ('78 M.D.) and Aline Miller were married May 18 in Providence, and are living there.

Donald M. Porada and his wife, Nancy, report the birth of their first child, Theodore Phillip, in October. They live in La Plata, Md.

Joan E. Potterfield is working in Valley Forge, Pa., as a programmer/analyst for the General Electric Space Center. She lives in King of Prussia.

Albert L. Rao, Medway, Mass., is a realtor with the Boston Real Estate Board and a broker with Page Realty in Medfield, Mass.

Dr. William L. Roberts, San Diego, Calif., graduated from the University of Rochester School of Medicine in June and is a first-year resident in internal medicine, serving as a lieutenant at the Naval Regional Medical Center in San Diego. He expects to take a year's leave from the program in 1980-81 to serve as a physician with the Fleet Marine Force.

Beth Shadue has completed her M.F.A. degree at the University of Illinois-Chicago. "I continue to work as a professional artist," she writes, "and have been exhibiting widely. My work was recently included in a national invitational exhibition at Purdue University, titled 'Works on Paper,' and I am having a large exhibition this month at Arizona State University." Beth lives in Evanston, Ill.

Mark J. Weston, who had been working in the prosecuting attorney's office in Houston, Texas, has moved to Portland, Oreg., where he expects to take the Oregon bar exam.

76 Todd K. Abraham is finishing his Ph.D. in chemistry and his M.B.A. in finance at the University of Pennsylvania. He has been coaching the University of Pennsylvania's women's soccer team.

Bradley W. Brockmann is the Taiwan correspondent for the *East Asian Executive Reports*, a Washington, D.C.-based trade journal that reports on legal and business developments in East and Southeast Asia. He will also do occasional reporting from other Asian countries, particularly the Philippines. So far in Taipei, he has met Eric Ocy,

who is studying Chinese and doing freelance writing, and Jim Stigler and his wife, Helen. Jim is teaching psychology in Chinese and Helen is studying Chinese at the Stanford Center. Bradley promises a party for any Brown people who look him up % the International House, 18 Hsin Yi Road, Section 3, Taipei, Taiwan R.O.C.

Thomas J. Burke, Jr., reports that he graduated with honors from The Way Corps, a leadership training program of The Way College of Emporia, Kans., sponsored by The Way International, a non-denominational biblical research and training ministry. He is coordinating ministry activities in Lawrence, Mass., and completing the preparatory research for an early-church history book.

Maria E. Defino writes: "I'm keeping busy in Austin, Texas. I have an internship in the school district, a second job waitressing in a 'classic Texas' barbeque restaurant, and a dissertation in the offing. Spare time is filled with ice skating and caring for my several household critters."

John Eickhof, Grand Forks, N.D., has started a general contracting company called Construction Engineers, Ltd. "We are doing business in northern Minnesota and eastern North Dakota," he writes. "I incorporated the business with my father and brother. The volume of business for our first six months of operation was \$500,000."

Carcia J. Fisher, Washington, D.C., reports that "after working as a community organizer in Providence for a year, spending a summer in Japan, and then two years studying industrial and labor relations at the University of Wisconsin-Madison, I am now living in Washington next to (by coincidence) Jean Parviri '73. Meanwhile, I'm finding out what the federal government is really like at the Department of Labor (Employee Protections)."

Richard W. Ghigna and Nancy Louise Holmes (Wheaton '79) were married Aug. 11 at Cole Memorial Chapel on the Wheaton campus. Steve Ramsey and Richard Brown '77 were in attendance. The couple is living at 1280 West 24th St., Apt. #10, Yuma, Ariz. 85364. Richard is a first lieutenant at the Marine Corps Air Station in Yuma.

Doretta Katzer Goldberg, Manhasset, N.Y., graduated from New York University School of Law in June and is an associate with the law firm of Dornbush, Mensch and Mandelstam in New York City. Her husband, Joel, is a second-year resident in internal medicine at North Shore University Hospital.

Jill Grigsby, Princeton, N.J., reports that "after two years in the 'real world' I am back in graduate school at Princeton University, working on my doctorate in sociology and demography."

Dr. Daniel Harrop ('79 M.D.), Providence, is completing his internship in internal medicine at the Miriam Hospital in Providence and the Memorial Hospital in Pawtucket. He has accepted a residency in psychiatry at Butler Hospital in Providence, to start in July 1980. Dan is also serving as alumnus advisor for Sigma Chi fraternity on campus, and as vice president of the University's Thomas Becket Foundation, which supports the Catholic chaplaincy.

Andrea S. Katz, San Francisco, is working as research director for the Pacific Coast Fed-

eration of Fishermen's Assn., a commercial fishermen's advocate group. She received her master's degree from the Institute for Marine Studies at the University of Washington in international marine policy and hopes to attend law school at night while continuing to work in commercial fisheries.

Dr. Scott S. Kelly, Maumee, Ohio, received his D.D.S. degree from the Ohio State University College of Dentistry in June and is a general practice resident at the Medical College of Ohio at Toledo.

Robert A. McNamara has been appointed vice president of marketing and sales for Marshall Contractors of Rumford, R.I. He is responsible for business development and the servicing of new and existing industrial accounts.

Elizabeth Nichols and Gary Cohen were married in New York City March 26, 1978, and are living in Washington, D.C. Jeff Chanin, Dana Cleary '78, and Barb Basuk attended the wedding. Elizabeth is in international education, and Gary is a teaching fellow at Georgetown University Law Center.

John Charles Paul, Norwalk, Conn., received his J.D. degree in May from Case Western Reserve University's Franklin Thomas Backus School of Law in Cleveland. He recently passed his Ohio state bar examination.

Luis Salinas, Tucson, Ariz., is the field operations supervisor for the 1980 census in southern Arizona.

Victor M. Sauerhoff began graduate studies at the Wharton School of the University of Pennsylvania in January.

Alan I. Taub, Schenectady, N.Y., and his wife, Gaye, report the birth of Carrie Belinda on Oct. 23. Alan received his Ph.D. in applied physics from Harvard in September and is a staff scientist at the General Electric Research and Development Center.

Philip J. White, Solon, Ohio, is working for General Electric Co. He and his wife, Elizabeth, have two sons, Kevin, 2, and Neil, born in August.

Andrew Wingate has been named assistant vice president-administration of Hamden Steel & Aluminum Corp. of New Haven.

77 John Arthur and Amy Satran are living at 6 Crawford St., Apt. 8, Cambridge, Mass. John is a graduate student and research assistant in the MIT physics department. Amy is a technical editor at the MIT Press and also does freelance textbook editing.

Robert Barron, Exeter, N.H., writes, "Still making boys and girls into men and women at Exeter, as I teach them about drama, film, and the real business of living. This is my third year of teaching at the Phillips Exeter Academy — next fall I'll be moving on . . ."

Thomas Bute and Barbara Wolf (Boston University '77) were married recently and are living in Cleveland, where Thomas is a senior quality engineer at Goodyear Aerospace Corp. in Akron, Ohio. Barbara is a law student at Case Western Reserve University Law School in Cleveland.

Amy Calhners has left New York City to attend Harvard Business School.

Jocelyn Chertoff and Christopher B.R. Brown (see '75) are living in Winooski, Vt. They write, "If you're in the neighborhood, do drop in."

Michael J. Cook (Ph.D.), Sandy Bay, Tasmania, Australia, is a lecturer in the department of sociology at the University of Tasmania, in Hobart.

Kathleen R. Cote is completing her first year at the Dartmouth Medical School. "In 1978, I earned an M.S. degree in human genetics/genetic counseling from Rutgers," she writes. "Following that, I worked for a year as a genetic associate at Massachusetts General Hospital."

Kenneth I. Dill, Cambridge, Mass., received his master's from the Sloan School of Management at MIT last June and is a marketing consultant with Management Decision Systems in Weston, Mass.

Ann-Christine Duhaime is a third-year student at the University of Pennsylvania School of Medicine.

Robert I. Foster and Carol Ann Evans were married on Aug. 9 in St. Charles, Ill., and are living in Chicago, where Rob is working as an environmental engineer. Carol is teaching and attending graduate school.

Clifford Hickey (Ph.D., '69 M.A.) and Lynn Mooney Hickey (see '67), Edmonton, Alberta, are the parents of two boys, Clayton, 2, and Travis, born in June. Cliff is chairman of the anthropology department at the University of Alberta, Edmonton.

Carol Leon and John S. Boyd were married Sept. 2 in Old Town Alexandria, Va. The maid of honor was Lisa Ellis. Carol, who goes by the name of Carol Boyd Leon, is an economist for the Bureau of Labor Statistics, U.S. Department of Labor, and John is a musician in the U.S. Marine Band in Washington, D.C. The couple lives at 10125 Walnut Wood Ct., Burke, Va. 22015.

William J. Marinelli and Karen J. Simmons (see '78) were married in Manning Chapel July 28 and are living in Berkeley, Calif., where he is a doctoral candidate in chemistry at the University of California and is working as a research associate at Lawrence Berkeley Laboratories. Attendants included Prof. Thomas Morton, Walter Breen, and Roberta Marinelli '82.

Mary Dolan Miller is a first-year student in an M.F.A. program in cinema production at the University of Southern California. She spent November as part of a crew on an archaeological excavation on St. Catherine's Island, Ga., that was sponsored by the American Museum of Natural History. One of the two crew chiefs was Debby Mayer, who works at the museum.

When Robert E. Spatt and Lisa B. Malkin were married in Roslyn Heights, N.Y. (February BAM), Peter Fern was an usher at the wedding, which was also attended by Judith DeBickish, David Lesser, Gordon Hutt '76, Linda Hutt, and Mike Baumstein '76. Robert will clerk for Federal Judge Henry Bramwell in the Eastern District of New York beginning in the summer, after he graduates from the University of Michigan Law School.

Barbara Anne Sunderland, Houston, Texas, is the executive director of the Houston Area Parkinsonism Society, and reports that she is enjoying it very much. She is also active in the Brown Club and NASP.

Brent Taylor spent the summer following graduation traveling throughout southern Europe and Great Britain. Then, after a year in the Procter & Gamble sales training pro-

gram, he began studying law at The National Law Center of George Washington University. "Am now in my second term," he writes. "Last summer I clerked in the law firm of Peck, Sharkess & Hunt in Hartford, Conn. Last fall I met Barry Sholem in New York City, where he is working for Goldman-Sachs. We had a great time, including a stop at Studio 54."

Bruce A. Winter is a third-year medical student at George Washington University in Washington, D.C.

Jo M. Woolf writes that after graduation she took a couple of years off before "plunging into more school and/or career." Last fall she was accepted into the new M.S.W.-degree program at Rhode Island College. "Am involved in the program full-time, with assignment to St. Luke's Hospital in New Bedford. In my spare time, I'm working as a bartender on the East Side."

78 Andra D. Barnash, Cambridge, Mass., is a second-year law student at Harvard.

Steven L. Bloom is pursuing an M.F.A. in film production at the University of Southern California. "All bills and threats should be sent to 8567 Chalmers Dr., Apt. 2, Los Angeles, Calif. 90035," he writes.

Alexis J. du Pont is an assistant producer in radio and TV production at Grey Advertising in New York City.

Howard B. Feldstein, Madison, Wis., reports that he has moved into a co-op in Madison and joined a bakery collective. He writes: "Love it very much and hope you folks in law school and medical school don't eat your hearts out too much."

Steven M. Fields is a second-year medical student at Hahnemann Medical College in Philadelphia.

Eve Gordon, New Haven, Conn., and Benjamin Magee are both at the Yale School of Drama, Eve for her second year in the acting program, and Rusty as the musical consultant of the Yale Repertory Theatre and Drama School. They write, "We would love to hear from you."

Gary J. Katzenstein, Los Angeles, Calif., has started his work toward a master's in computer science and management at UCLA. He writes, "I really enjoy the warm weather here in southern California."

William Lichtenstein, New York City, is an associate producer for ABC-TV's new magazine show, "20/20."

John Luzena writes from Denver, Colo., "I head the fastest moving exploration crew in the Williston Basin. Over-educated, unemployable, or otherwise disaffected college folk with some empathy for work and lonely, wind-swept spaces might find it a good place to pass some time and save some wages. Request the whereabouts of crew 521 at 303-571-1143."

Alan T. Sherman is working on his Ph.D. in theoretical computer science at MIT.

Karen J. Simmons and William J. Marinelli (see '77) were married in Manning Chapel on July 28 and are living in Berkeley, Calif. Karen is an account manager with Control Data Corp. in San Francisco. Attendants included Prof. Thomas Morton, Walter Breen '77, and Roberta Marinelli '82.

Craig D. Townsend, Cambridge, Mass., is a first-year student at the Episcopal Divinity

School in Cambridge, and is working toward a master of divinity degree and ordination.

Raymond C. Wilson and Paula J. Batt (see '80) were married Aug. 11 in Buffalo, N.Y., and are living at 3 Garden St., Attleboro, Mass. 02703. Ray is a tribunal administrator with the American Arbitration Assn. in Boston and plans to start law school this fall.

E. Colette Wallace is a junior data analyst at ABT Associates in Cambridge, Mass.

79 *Kathy Bradley*, East Burke, Vt., is teaching, coaching (lacrosse), and bookkeeping at Burke Mountain Academy, a small private school for developing ski racers. Last year she taught a postgraduate-level social science program. She writes, "If anyone ever skis this far north, they are welcome to drop in."

David W. Cheney is working for Core Laboratories as a hydrocarbon well logger and will be traveling extensively in Europe, Africa, and Asia from a base in the Middle East. He still carries an Austin, Texas, home address.

Bryan G. Forley, New York City, is a student at the Mount Sinai School of Medicine.

Alon A. Garay, Washington, D.C., is a first-year student at Georgetown University School of Medicine in Washington, D.C.

Christiana R. Geffen is an editorial assistant on the staff of the *Pediatric Research Journal*, with offices in the Georgetown University Medical/Dental Building in Washington, D.C.

Judith Ann Gintz, Boston, recently took a position with Cole and Associates, a management consulting firm in Boston.

Cynthia Hansen, Woonsocket, R.I., writes that she is enjoying her job as a child-care worker at Tannerhill Group Home in Woonsocket. Cindy says she would be glad to hear from classmates.

Kathleen A. Hirsch (A.M.) and Mark Staples Morrow (Williams '77) were married Oct. 13. Kathleen is press officer at Wellesley College, supervising a student journalism board there, and is freelancing and writing fiction in her spare time. Mark is attending Boston University Law School. The couple is living in Boston. Kathleen has kept her maiden name.

Jill S. Liebster writes that she is "an astrological counselor in New York City."

Kevin Rivkin writes that he is "meandering in the Khumbu region of eastern Nepal, searching for the Yeti."

Karen Ohott Senft, Brighton, Mass., served as head coach of the women's hockey team at Boston University this winter. She is a marketing specialist with United Marine Publishing in Boston.

80 *Paula J. Batt and Raymond C. Wilson* (see '78) were married Aug. 11 in Buffalo, N.Y., and are living at 3 Garden St., Attleboro, Mass. 02703.

DEATHS

Henry Olsen Huggenvig '18, New York City, an advertising official in New York City and a member of the 1915 Brown football team that played in the first annual Rose Bowl game on Jan. 1, 1916; July 2. A Navy veteran of World War II, Mr. Huggenvig served as assistant Naval aviation intelligence officer in Brest, France. Delta Phi. Survivors include a daughter, Ann Fisher.

Gaston Maurice Welton '20, Brooklyn, N.Y., a teacher of biology and guidance counselor in the New York City high schools for most of his career; June 13. Following his retirement, Mr. Welton volunteered his services as educational consultant to a large medical care outpatient clinic for adolescents in Brooklyn, where he worked closely with the disadvantaged teenagers of the Bedford-Stuyvesant area. He served with the Army Medical Corps during World War I and was an inveterate traveler most of his life, circling the globe twice. Mr. Welton wrote poetry and charmed children of all ages with his skills of magic, story telling, and ventriloquism. Survivors include his wife, Fannie, 2651 Palm Aire Dr., Apt. A-308, Pompano Beach, Fla. 33060.

Arthur Edwin Bjorklund '22, Sarasota, Fla., a former associate with the New York Telephone Co.; Nov. 24. Phi Delta Theta. Survivors include his brother, Carl '21, 49 Oaklandvale Ave., Saugus, Mass. 01906.

Martin Mulcahey '22, Cranston, R.I., a salesman in the Providence area; Jan. 21. Survivors include his wife, Anna, 28 Blaisdell St., Cranston 02910; and a son, Robert.

William Eugene Ryon, Jr. '22, Winter Haven, Fla., a retired mechanical engineer with Olin Paper Mill Co. at its Ecusta Paper Division near Asheville, N.C.; Jan. 1. Mr. Ryon served with the Army in World War I and was an industrial consultant to the War Manpower Commission in World War II. Since moving to Winter Haven in 1967, Mr. Ryon had been a substitute teacher at Winter Haven High School. Lambda Chi Alpha. Survivors include his wife, Priscilla, 912 Avenue S, S.E., Winter Haven 33880; three sons, Alden, Eugene, and Dale, all physicians; and a brother, Charles '19, of Stonington, Conn.

The Rev. *Charles Sumner Johnson* '25, Sudbury, Mass., a pastor in every New England state during his forty-two years of service to the Methodist Church; Sept. 27. Reverend Johnson did his postgraduate work at the Hartford Seminary Foundation. He was an Army chaplain during World War II, crossing the Atlantic nineteen times with troop ships. Survivors include his wife, Pearl, of Sudbury; a daughter, Myrtle; and sons Charles, Gardner, the Rev. Raymond, Russell, and the Rev. Shephard.

Angelo Antonio Adamo '26, Providence, a clerk at the Superior Court in Providence for forty years prior to his retirement in 1971; Oct. 13. In 1930, at age 28, Mr. Adamo won

election as a state representative while attending Boston University Law School. He served as second vice president of his class and as chairman in 1926 of the Brown Housing and Development Campaign. He is survived by three brothers and two sisters.

Beatrice Luther Grace '27, Middletown Springs, Vt., former owner of the Beatrice L. Grace insurance agency in Spotswood, N.J.; Jan. 10. Mrs. Grace had been president of the PTA in Spotswood and had written a history of St. Peter's Church. Survivors include her husband, Carleton, North St., Middletown Springs, Vt. 05757; a son, Alan; and a daughter, Meredith.

Charles Augustus Richardson '29, West Palm Beach, Fla., retired vice president of the Marine Division of the Perini Construction Co. of East Boston; Jan. 17. Mr. Richardson was instrumental in the building of the Mystic River Bridge in Boston for the Perini firm. He was a former president of the Engineers Club of Boston. Survivors include his wife, Mabelle, Suite 301, 2500 Presidential Way, West Palm Beach 33401.

John Adrian Riddenhof '29 Ph.D., Detroit, a long-time chemist with Hooker Chemical Corp. of Detroit; Oct. 8, 1978. Survivors include a daughter, Gretchen Bloch, of Zurich, Switzerland.

David Edwin Alper '30, Boca Raton, Fla., former president of Morris Alper & Sons and Morris Alper Associates, food brokerage firms in Brookline, Mass.; Dec. 30. Mr. Alper was a past president of the Boston Food Brokers Assn. and a former chairman of the Brookline Redevelopment Authority. Pi Lambda Phi. Survivors include his wife, Marjorie, 1420 N.W. 2nd Ave., Boca Raton 33432; a daughter, Judith; sons *Frederic* '60, *Daniel* '63, and *Norman*; and a brother, *Marcus* '33.

Dr. *William George Hardy* '31, Baltimore, Md., director of the Division of Communicative Sciences at Johns Hopkins University and one of the world's foremost pioneers in the skin-reaction testing of hearing in young infants; Jan. 8. Dr. Hardy was a founder and director of the Hearing and Speech Center at Johns Hopkins Hospital from its inception in 1947 until his retirement in 1975. This was the first such center in this country established in a medical setting. He received his A.M. from New York University in 1933 and his Ph.D. from Cornell in 1943. He served as a consultant, executive secretary of a subcommittee in his field, and a member of the advisory council of the National Institutes of Health. He was also a past president of the American Speech and Hearing Assn. and a consultant to the United States Children's Bureau and the state Health Department. During World War II, Dr. Hardy was involved with a program of hearing and speech rehabilitation at the U.S. Naval Hospital in Philadelphia. Delta Tau Delta. Survivors include his wife, Miriam, 2533 Pickwick Rd., Baltimore 21207; sons Robert and John; and a daughter, Virginia.

Oscar Paul Herzig '31, St. Petersburg, Fla., a former director and chief engineer of

the Houston (Texas) Gas & Oil Co.; March 1979. Mr. Herzig was an Army veteran of World War II. Survivors include his wife, Rachel, 5850 13th Ave. S., #202-B, St. Petersburg 33707.

Marion Soforenko Heymann '31, Providence, a former insurance agent with New York Life; Feb. 2. Survivors include her husband, Paul, 2 Jackson Walkway, Providence; a daughter, Maryjane; a son, Michael; and a brother, *Edwin Soforenko* '36.

Thomas Robley Louttit '31, Bristol, R.I., chairman of the board of Louttit Laundry Co. of Providence and a former treasurer of the Brown Club of Rhode Island; Jan. 28. For more than forty years, Mr. Louttit had been an officer of the laundry firm founded by his father in 1896, and which today has eighteen retail outlets. His civic interests included nature and conservation organizations. Recently, he donated a tract of land to the Audubon Society in Rangeley, Maine, for a wildlife preserve. He was a former president of the Rhode Island Society for the Prevention of Cruelty to Animals. Theta Delta Chi. Survivors include his wife, *Charlotte Gies Louttit* '32, North Farm on the Bay, 78 Windward Ln., Bristol 08209; a son, *T. Robley Louttit, Jr.* '55; and a daughter, Lee. A brother was the late *W. Easton Louttit, Jr.* '28.

Charles Edward Carroll '38, Woonsocket, R.I., president and treasurer of J.B. Farnum Co. and Monument Square Realty Co., both in Woonsocket; Dec. 9. He was an Army officer during World War II, serving in the China-Burma-India Theater. Kappa Sigma. Survivors include his wife, Laurian, 428 Prospect St., Woonsocket 02895; sons Charles and Michael; and daughters Jane Ann and Laurian.

Donald Timberlake Estes '40, Freeport, Maine, a dairy farmer, housing contractor, and owner of a nine-hole golf course; Jan. 9. Mr. Estes was a selectman in Freeport and was a charter member of the Lions Club. He was an Army Air Force officer during World War II. Survivors include his wife, Phyllis, Old County Rd., Freeport 04032; sons Donald, Wayne, and Kevin; and a daughter, Priscilla.

Benjamin Premack '40, Providence, professional violinist, violin teacher, and a music consultant to the Rhode Island Department of Education for many years; Jan. 27. Starting at age 12, Mr. Premack performed as a soloist throughout New England. He began to teach violin at age 16. For nearly forty years he was a high school teacher in Providence. Mr. Premack was a choir director at a number of temples and was one of the organizers of the Young People's Orchestra at the Jewish Community Center. He was the author of *Violin Methods*, a text for students of violin, and was a graduate of the Boston University College of Music. Survivors include his wife, Sara, 191 Eighth St., Providence 02906; and a son, Joel.

Norma Rainone '45, '47 A.M., Providence, a real estate agent; Nov. 30 after being shot as she emerged from her car in the

driveway of her Doyle Avenue home. Survivors are not known.

The Rev. *Noah Edward Fehl* '46 A.M., Nashville, Tenn., a retired Episcopal priest who at one time served as chairman of the department of world history at the Chinese University of Hong Kong; Sept. 17. The Reverend Fehl was graduated from Bucknell, received his B.D. degree from Andover Newton, and his Ph.D. from the University of Chicago. He served as chairman of the department of history and philosophy at Seabury Western Theological School in Evanston, Ill., before going to Hong Kong in 1959 under the auspices of the National Episcopal Church to be chairman of the general education program at Chung Chi College. Survivors include his wife, Ethel, 685 Shawnee Dr., Nashville 37205.

Thomas Richard McGetchin '61 Sc.M., Barrington, R.I., a former director of the Lunar Science Institute in Houston, Texas; Oct. 22.

Mr. McGetchin was graduated from Occidental College in 1959 and received his Ph.D. from Cal Tech in 1968. He was an assistant professor of geology at MIT and the U.S. Air Force Academy before becoming a group leader (geosciences) at Los Alamos Scientific in Los Alamos, N.M., for several years. Survivors include his wife at 27 Woodbine Ave., Barrington 02886.

Edmund Webster Kittredge '66 A.M., Wakefield, R.I., a lecturer at Manchester Community College, Manchester, Conn.; Feb. 6. Mr. Kittredge was graduated from Yale in 1933 and earned his M.S. from the University of Rhode Island in 1960. Survivors include his wife, Virginia, 599 Ministerial Rd., Wakefield 02879; a son, Edmund; and a daughter, Virginia.

Emmett Vaughey Blackburn '73, Sweeney, Texas, operator of Sugar Valley, the Blackburn ranch in Matagorda County, Texas; Oct. 3 in a fire in Houston. Survivors include

THE WAY IT WAS

Apparently it was the custom a century ago for a class to gather outside its laboratory for a class picture. This group, dressed in coat and tie and hat — another custom of the times — is on the steps of Rogers Hall. The year: around 1870.



his parents, Mr. and Mrs. W.I. Blackburn, 930 E. Seventh Ave., Denver, Colo. 80218.

John Van Gaasbeek Elmendorf, Sarasota, Fla., vice president of Brown from 1961 to 1965, president of New College in Sarasota from 1965 to 1973, and most recently a consultant with the Academy for Educational Development in Washington, D.C.; Feb. 10. While John Elmendorf was attending the University of North Carolina (he graduated in 1937), he became friendly with a fellow student, Barnaby Conrad Keeney. The two met again on the battlefield during World War II when Captain Keeney and M/Sgt. Elmendorf served together in the 35th Division. Mr. Elmendorf came out of that engagement with a Bronze Star and three battle stars. After the war, Mr. Elmendorf earned his M.A. at the University of North Carolina in 1948 and his Ph.D. there in 1951. He served as executive director of the Mexican-American Cultural Institute from 1951 to 1953 and was vice president and dean of the

faculty at Mexico City College before leaving in 1961 to team up for the third time with Barney Keeney, by then president of Brown. John Elmendorf was a scholar who built a fine record as an administrator. One of his chief functions was to represent Brown at alumni gatherings from coast to coast, where his charm, personality, and easy-going style made him an ambassador of good will for the University. As popular as he was with alumni, Vice President Elmendorf was also a student-oriented administrator. The door to his first-floor University Hall office was always open and Mr. Elmendorf was usually at his desk, sleeves rolled up and a Coke at his elbow. Students frequently took advantage of this situation to drop in to discuss a problem or just for a quick chat. *Charles Bakst '66*, writing in the *Providence Journal* when Mr. Elmendorf left Brown in 1965, said he would be remembered by a generation of Brown and Pembroke students as a man "who proved that charm could have depth and who showed that a fund-raising-orient-

ed office could at any time be converted into a student-oriented one." Mr. Bakst added: "He will also be remembered as the man whose Spanish-speaking parrot, Pancho, was constantly getting lost and becoming the object of campus-wide searches. He will be remembered as the man who once delivered a banquet speech made up solely of reasons and excuses why he had no speech — and got away with it. He will be remembered as the man whose 15-year-old daughter, Suzie, wrote a poem in tribute to the Brown hockey team, a poem that was inscribed on a scroll several feet long and was posted in the squad's locker room as a good luck symbol. He and his wife, Mary, will be remembered as frequent visitors to undergraduate sherry hours. They were a smooth, handsome couple who spoke with polish, candor, and enthusiasm — and knew what they were talking about." Mr. Elmendorf is survived by his wife, at 535 Blvd. of Presidents, Sarasota 33577; a daughter, Susan; and a son, Lindsay.



Some personal comments about a new book

A few days after becoming editor of the *Brown Alumni Monthly* in February 1971, I attended my first Alumni Council. President Donald F. Hornig was attending his first Council, too, and he said something in his address to the assembled alumni that I have remembered ever since. When he was making his decision on whether to return to Brown (where he had once been a chemistry professor), he recalled the "number of Brown alumni whom I knew in various parts of the country who were deeply attached to the University." When he and his wife did return, he continued, "we found that Brown was still Brown, it fitted like an old glove. . . ."

During the nine years that have passed since that night, I have found both parts of that statement to be true. There is a feeling of warmth, attachment, affection — call it what you will — about this place among a larger percentage of its alumni than is generally true of educational institutions. It takes only a short time for an editor of the *Brown Alumni Monthly* to learn that little truth. (A couple of errors of fact during the first year I was editor made me realize that our readers care.)

Don Hornig's comment about Brown "still being Brown" is similar to my own reaction when I arrived on the campus in September 1970 to interview for this job. I had been on College Hill only once before — in 1959 — and my long-time friend Chet Worthington had taken me on a tour of the campus. When I arrived at Nicholson House eleven years later and looked at the Green, I felt a great sense of timelessness. The campus had the same feel, the same look of 1959 — yet the changes that had taken place here, as elsewhere, were of greater magnitude than in any other period in the University's history.

It is this timeless quality that we have attempted to portray in a new book about the University, being published by the magazine in May. *Brown: A Pictorial Album* is the first full-color photographic book about this University. It includes eighty-seven color photographs (eighty color pages) of the campus taken by former University Relations Photographer Uosis Juodvalkis, whose work appeared monthly in the *BAM* from March 1971 until July 1972. The book, which also contains twenty pages of text, is handsomely designed by Joseph Gilbert.

Around the magazine offices, we have come to refer to this project as "the book." Several members of the staff have been involved in its production, and there have been some exciting — and frustrating — moments. During some of the latter, we wondered if "the thing" would ever get published. Indeed, the book has had several lives.

A former Providence printing executive first had the idea for a full-color photographic book about the University — four years ago. Uosis did some preliminary photography at that time, but then the idea was shelved for a time. It popped up again two winters ago, this time with the University as the possible publisher. Vice President Bob Reichley invited me to lunch a few days after the big blizzard of February 1978 and in the middle of a hamburger stunned me with the question, "How would you like to edit a book?" My reaction, as he explained all the work involved and the financial implications of such a project, alternated between elation — at the thought of what a beautiful book it could be — and stark terror — as I thought about the financial pressures.

Obviously, I said, "Yes," and the next few months were spent working out the contractual agreements, getting printing estimates, and setting up financial arrangements. Uosis, who had continued to take photographs in the hope the book would eventually be published, had about 700 slides for me and the designer to look at; after we had "digested" those, it was necessary to take more pictures to fill in the gaps where we felt we didn't have a representative selection. We looked at more slides than I really care to look at again for a long time, but those we selected make a beautiful album.

Although this is a photographic book, we wanted a small amount of text that would complement the pictures. Associate Editor Jay Barry, who loves to browse in the Brown Archives, went on a research mission, spending two weeks in the Archives, and came back with enough material to fill two books of nothing but text. Some of it may well appear in the magazine soon, but we have selected for the book a series of vignettes of life at Brown over its two centuries that make good reading.

So that's *Brown: A Pictorial Album*. Immodestly, we believe that it's a book that people who love Brown will want to have. You will forgive us, we hope, for using one of the photographs as the cover of this issue — and for pointing out the advertisement on the opposite page. We hope to receive your order — and we hope that you'll like the book. R.M.R.



Brown: A Pictorial Album

The first full-color photographic
book about Brown.

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