

BROWN

ALUMNI MONTHLY

JANUARY 1966



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FRONT COVER

NO BRUNONIAN needs to have identified for him the subject of our cover this month, but President Keeney's picture was the inevitable choice in an issue which includes and so transmits to all Brown men his most recent Report to the Corporation of Brown University. "Toward the end of one's tenure, it is natural to look back," he says, "and evaluate what has been done." But the Report is entitled "Unfinished Business." (The photo was taken for Editorial Projects for Education.)



Landing party . . .

THE STORY has been delayed in reaching us, but the time angle is not important, though the incident occurred when our forces in Europe were engaged in some exercises involving a landing on a Spanish shore. On hand as a witness was the former Brown Dean, Dr. Robert W. Morse, Assistant Secretary of the Navy for Research and Development. He had been accorded courtesies due his position, and he had a prize spot from which to observe an important phase of the operation, right where the first troops would come ashore and clamber up a slope.

The first man to scramble up into view was a Marine Captain, whose surprise at encountering the spectator was obvious. His greeting was a most unmilitary one: "Professor Morse, what in hell are you doing here?"

► DELANEY KIPHUTH, Director of Athletics at Yale, has made a post-season confession about his trip to Providence for the football game with Brown. "We were in sort of a rush when we hit town," he explains, "and, when we saw the Waterman St. sign at the bottom of the hill, we made a quick right turn—into the tunnel. It was dark in there, and an oncoming bus almost side-swiped us. But we did make the game on time."

► THERE ARE ENOUGH DEVOTEES of Indian pudding that at least one Providence club retains it as a standard item on its dessert menu each day the year around. To this club, a certain Westerner delights to go each time he is in town, and one of the reasons is a little ritual which has become habit with him. When the time comes for the waitress to take the dessert order, she will run down the list of possibilities. And the guest will say, at the proper moment, "Indian pudding? Are the Indians fresh?"

Red compromise . . .

► IGOR STRAVINSKY'S LECTURES at the University of Texas were well reported in *Alcalde*, including the following anecdote quoted: "When I returned to Russia a couple of years ago, it was a sort of formal visit, and I had letters that said I was a special guest. At the border, though, we had some trouble. The guards saw my birthplace on my U.S. passport—St. Petersburg. 'But that cannot be,' they said. 'There is no such place.'"

"I told them that of course there was; that was where I had been born in Russia, and of course that city was still there. There was much consultation. Then they returned to me and offered to let me through quietly if I would just let them mark down Leningrad as my place of birth as a compromise. I said that was not much of a compromise. More consultation."

"Finally they came back, and I made them a compromise offer. I said they could call it 'St. Leningrad.'"

► THEY USED TO CALL THEM Resident Fellows' Luncheons; they call them Univer-



sity Luncheons now. But they still attract their Tuesday audiences in Sharpe Refectory with lively and varied attractions. A recent speaker was Prof. Reinhard Kuhn, who was talking about the contemporary French theater and told a story out of the Show-Must-Go-On School. A famous actress, although she had broken her leg, appeared on stage with the leg swathed in plaster and bandages and gave her performance.

Dr. Fred Barnes interrupted the story. "Of course," he said. "The star with the supporting cast."

► AFTER OUR BICENTENNIAL, we take a little more interest in anniversaries on other campuses. Of note is the enterprise of the University of New Hampshire, which will observe its Centennial in 1966. It has canned "Pure UNH Air" with the following instructions for use: "Breathe deeply of contents while thinking of UNH Campus. Recovery should be immediate. Excellent for the blues and other low-spirit attacks." The can's label vouches for the contents: "Pure, unadulterated Oyster River air, taken from the Campus of the University of New Hampshire at Durham. Canned specifically for the use of Alumni and friends of that institution to carry them over at times when in need of vital stimulation."

When Brown was moved to College Hill, the site was commended over one in downtown Providence. The Corporation was able to justify its new location "above the smoke and stir of this dim spot" and in the "regions calm of mild and serene air." Perhaps we missed a bet during the Bicentennial by not going into the canning business.

► LONGFELLOW HALL at Harvard was not named for Henry Wadsworth Longfellow but for his daughter Alice, as Bernice Brown Cronkhite, Dean Emerita of Radcliffe, reminded the *Harvard Alumni Bulletin's* scholar who writes as "Primus." (Mrs. Cronkhite is wife of Leonard Cronkhite '05 and sister of Prof. Sharon Brown '15, as you probably know.) She also provided this anecdote:

After her two sisters married, Alice lived in the Longfellow House. A sight-seeing bus stopped daily in front of the gate, and the driver with his megaphone could be heard saying, "The house is now inhabited by the poet's daughter, Alice. Miss Alice never married." Miss Longfellow said she was often tempted to call back, "From her own choice."

► A HAMILTON STUDENT paid a visit to one of his Professors, and "Hill Talk" in the *Hamilton Alumni Review* reported the conversation. The student said he was making a real effort to pick up his grades. "How?" asked the Professor. "Piece by piece?"

► "NOW," SAID THE PROFESSOR to one of his students as they walked across The College Green. "Let's talk about you. What did you think of my lecture this morning?"

The lesser evil . . .

► WE COMMEND TO YOU the new book by Brown's Director of Admission, Charles Doeblor '48 and proceed to relay a couple of stories from *Who Gets into College—and Why* (G. P. Putnam's Sons).

He's puzzled why there are so many requests for new application forms after one has been sent. But he remembers the reason in one instance, which stands out: "May I have another application?" said the letter. "I have been sick and threw up on the first one."

Doeblor speaks of asking a brilliant undergraduate at Brown (a National Merit Scholar) how he happened to choose us rather than another Ivy League college "that was much more strongly represented in his part of the country than we were." The answer came in a soft drawl. He had been interviewed in his home town by a graduate of the other college. "He was pretty bad," said the boy. "Brown didn't have an alumnus in town, so I decided on the lesser of two evils."

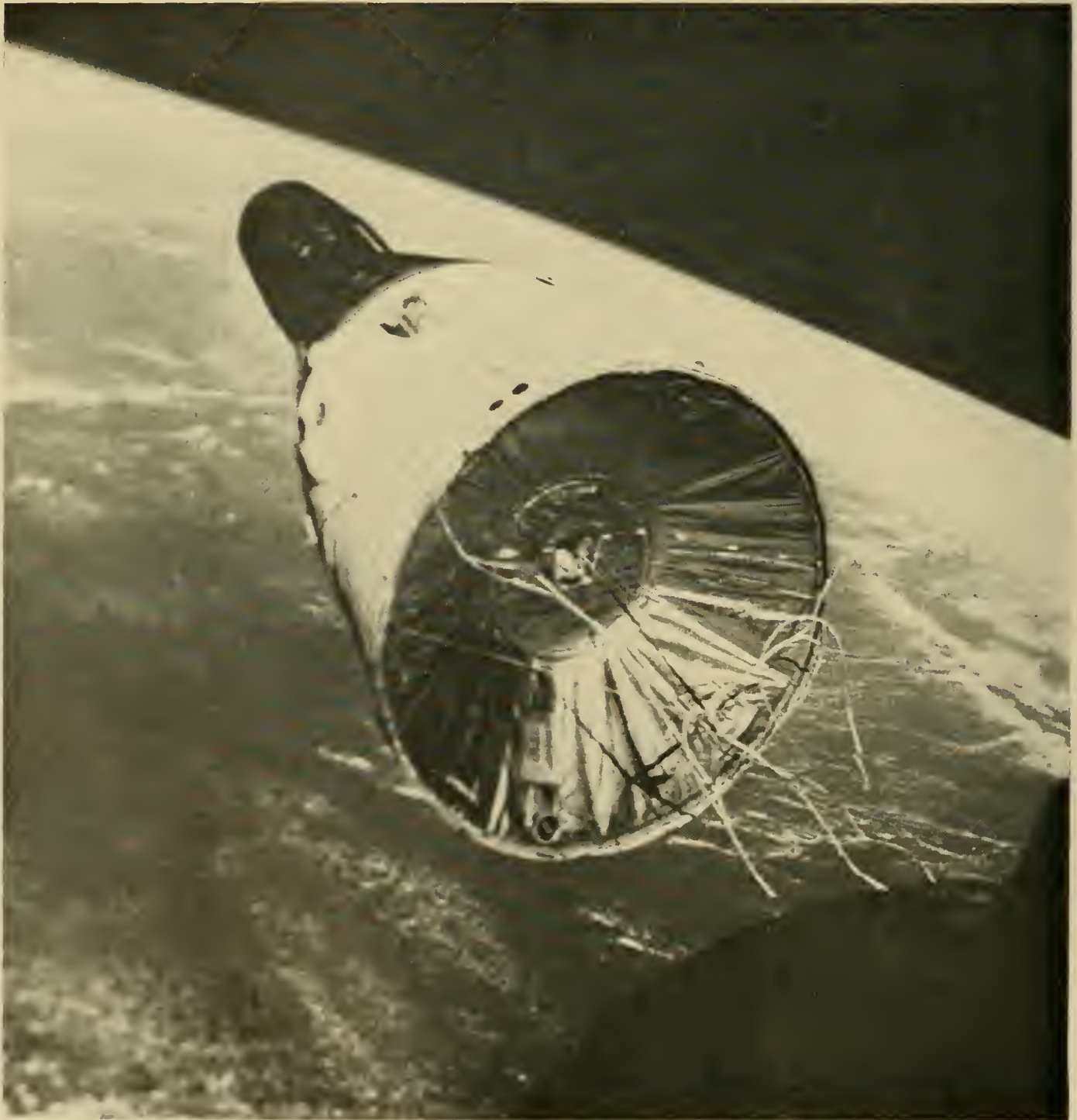
► "I REMOVED this newspaper clipping from the *Boston Herald* some time ago," writes Robert L. Undergood, Jr., '52. "It warmed my heart to learn that a famous General and President of the United States expressed an opinion of our University."

The item had a headline which read: "U.S. Grant for Brown."

► IN SIMILAR VEIN, we've refrained from mentioning that a Brown Freshman has the name of Land Grant, feeling sure that he is weary of comment on it. But we'd better change our decision now that the Associated Press has picked it up, noting that someone flipped through the 730 Freshman names and found Land Grant among them. "Unfortunately," the AP added, "Brown is a private institution and cannot capitalize on the name."

BUSTER

The man who planned the space rendezvous



"CLOSER THAN A KITCHEN STOVE to a dining table," Gemini 7 from Gemini 6. Photo released of the Monned Spoce Center, via Wide World.

"Feet out of the mud"

THE NEW YORK TIMES chose its "Man in the News" for Dec. 16 with discernment and justice. Though the front pages had naturally featured the exploits of the four Gemini passengers, the "special" from Houston was the medium for giving credit to the "Rendezvous Planner, Howard Wilson Tindall, Jr." Our own recognition of this 1948 graduate therefore begins with that feature article, copyright 1965 by the New York Times Company and reprinted by permission.

AS THE MOMENT of space rendezvous approached, so did the moment of truth for an unassuming 40-year-old engineer on the ground. His long hours of planning and extraordinarily detailed calculations were being put to the ultimate test. For Howard Wilson Tindall, Jr., it was the culmination of three and a half years of preparations, going back even before John Glenn, in February, 1962, became the first American to orbit in space.

Bill Tindall is the Assistant Chief of the Mission Planning and Analysis Division at the Manned Spacecraft Center near Houston. As such, he is responsible for the higher mathematics of a mission, especially the computations of launchings, trajectories, and orbits.

During the rendezvous maneuver, he sat tensely in the trajectory staff support room at the Mission Control Center. He was surrounded by six control consoles. Giant computers stood steps away. He was ready to answer any questions from the flight director, ready to make any last-minute computations to see the astronauts of Gemini 6 and Gemini 7 through their historic meeting in space.

Decision in the Brown Placement Office

There was little calculation, however, in Bill Tindall's own rendezvous with the space station. In high school, he played trumpet in a small swing band and, as he says, "thought engineers were only people who drive trains."

He was born in New York on Feb. 20, 1925, and moved to Scituate, Mass., as a teen-ager. His parents now live in Orleans, Mass. (His father is also a Brown man, Howard W. Tindall '19.—Ed.)

After young Bill Tindall graduated from Scituate High School in 1943, he entered the Navy and served in the Pacific on destroyers. Working in the ship's radar room, he became deeply interested in mathematics and engineering. He never could remember history dates, he recalls, but he discovered that he could remember formulas and equations.

He was discharged an Ensign in 1946 and decided to become an engineer. In 1948 he received a Bachelor's degree in Mechanical Engineering from Brown University.

Shortly before graduation, still uncertain about what he wanted to do, he walked into the University's Placement Office and picked up a brochure about job opportunities at the Government's Langley Research Center in Virginia. He was sold on it. He filled out an application and was offered a job.

While at Langley, he worked on wind-tunnel instrumentation problems for the testing of aircraft. He was also stage manager of an amateur theater group. The scene designer, Jane Smith of Hampton, Va., became his wife. They have four children—Dana, 11; Mark, 9; Amy, 7; and Claudia, 4.

When sputnik came along and the United States followed

with its own space program, Mr. Tindall said he felt as though he had his "feet in the mud." He wanted a part of space. So he became a specialist in orbit computations for Project Echo, the balloonlike communications satellite. He helped set up the tracking range, computer program, and control center for manned Mercury shots.

650,000 Instructions Fed into His Computers

In 1961 he went to the Houston space center. Planning for the rendezvous came even before the Gemini spacecraft had been designed. Compilations made by Mr. Tindall and his staff helped determine the design of the thruster rockets, radar, fuel tanks, and other equipment. He also directed the establishment of the logic and program for a computer that makes rapid calculations of orbital maneuvers.

For rendezvous, these computers were fed 650,000 instructions. It takes months of preparation to make a split-second decision. Last week, when Gemini 7 had to be shifted into a near circular orbit for rendezvous, the chore of making the rapid calculations fell on Mr. Tindall and his staff of 250, including 175 engineers. The maneuver was a great success.

But sometimes there are slight mistakes. Two errors in re-entry guidance brought Gemini 5 to an off-course splash-down. Someone had fed the computer some erroneous figures. "We just failed to catch that one," Mr. Tindall confessed.

Five more rendezvous exercises are planned before the end of the Gemini program next year. When they are over, Bill Tindall wants to pick up those activities, such as sailing and woodworking, that he had to abandon when he picked his "feet out of the mud" and got into the mathematics of space rendezvous.

The Tindalls live in Friendswood, a community near the space center. In his office is an oil portrait of Gemini, which was painted by his wife.

He wanted to flunk out

LIKE HIS FATHER, Howard Wilson Tindall, Jr., '48 is the sort of alumnus who has kept in touch with the Alumni Office at Brown and has been meticulous in the provision of new addresses and other information as he progresses. Our own files in Alumni House helped piece out the story of how he found his way to the Houston Manned Spacecraft Center and became the "Rendezvous Planner."

WE WERE PUZZLED when we found no picture of Howard Wilson Tindall, Jr., in the *Liber Brunensis* for 1948, his Senior year at Brown. And then we remembered: this was the period of wartime acceleration when Brown was in year-round session, with three terms and three Commencements a year. He had not graduated when the 1948 *Liber* came out; he was gone from the Campus before the next yearbook appeared.

While most of his Brown contemporaries had their military service ahead of him, Ensign Tindall's was behind him. He presented two years' credit from Tufts, where he had been sent by the Navy under its V-12 program; he'd been there in 1943 and 1944, before going off to destroyer duty. At Brown he covered four semesters' work in a year and a half (with grades that were all A's and B's, too) between February, 1947, and September, 1948. His Sc.B. in En-

gineering became official in June, 1949, for the only degrees awarded the previous fall were from the Graduate School.

A month after finishing his studies at Brown, Tindall reported his status to Alumni House: as of Oct. 4, 1948, he was a "Mechanical Engineer P-1, National Advisory Committee for Aeronautics, Langley Field." The following year he described his work as "aeronautical research" in the Instrument Research Division.

Still at Langley Field in 1961, he reported his specialty was "orbital mechanics." And, though this was probably the first mention of such a field to enter our records, some young lady seems to have filed the new blank without batting an eye or making any special notation. A few months later, it might have attracted more attention, for John Glenn in February, 1962, became the first American to orbit in space. The Tindall title was now "Assistant Branch Head, Mission Analysis Branch, NASA Space Task Group."

Another item in the Tindall dossier told of his high school activities. He'd been President of his Class for two years at Scituate, but music was a major interest. He listed band, orchestra, and glee club, as well as dramatics and yearbook.

His Father Was Air-Minded, Too, Before Him

In the file of his father, Howard W. Tindall '19, there are a couple of interesting parallels. The senior Tindall was hardly earthbound, either: he'd flown in the U.S. Army Aviation in World War I, and he, too, had been stationed in

Hampton, Va., and in Texas along the way. His commission was that of 2nd Lt., A.S.A., U.S.A., which he explained as "meaning commissioned pilot." Despite his 18 months in the military, he returned to Brown in his Senior year and graduated with his Class. He took his A.M. in 1920. His career was in the furniture business, in manufacture and sales, most of the time as factory representative.

A card in the Tindall file shows a baby framed in a life-preserver, with these details attendant: "Name of ship—Minetta II. New member of Crew—Howard Wilson Tindall, Jr. Signed on, Feb. 20, 1925. Howard W. Tindall, Captain; Dorothy Cook Tindall, First Mate."

"He's always been a son in whom we have taken a parents' pride," the father wrote us the other day, when we asked him to. "Only once were we worried. That was during the war when he was in V-12 at Tufts. He wanted to flunk out, so he would be sent to 'Boot Camp' and play a more active part in the war effort. He listened to our argument that the Government had no problem getting enlisted personnel but needed leaders; it was his duty to offer his country his best.

"I've been sitting here for five minutes trying to recall anything in the life of my son that might be of interest to you. But, how can I do that when he is about as average a young man as you can find? He does have dedication such as I have never seen before, but that is the norm for all in the space program. He is getting credit for an effort which should be shared by many."

Something, indeed, to tell his children

A PROUD FATHER was good enough to send us a clipping from The Cape Codder of Dec. 23, a story headlined: "Orleans Parents Watch: Local Son Computes Rendezvous." We're sorry not to give credit to the writer, for the fine interview with Mrs. Tindall did not carry the by-line it deserved.

YOU NEVER KNOW what you're going to be able to tell your grandchildren. Howard Wilson Tindall, Jr., was worried about it in 1943, 1944, and 1945. He was in the Navy, and the Navy was beginning to recover its balance from the Japanese sneak attacks. . . . And young Mr. Tindall, who joined the Navy in 1943 fresh from Scituate High School, was sitting there in Tufts, cracking the books, learning to be a Navy officer, reading about the drama in the Pacific.

Mrs. Tindall, Sr., sitting relaxed in her knotty pine living room on Mill Pond Road, Orleans, chatting recently about her son, smiled a little when she remembered his reaction to being desk-bound during the war. "He hated it," she said. "He kept asking what he was going to tell his grandchildren."

It worked out all right for Mr. Tindall, Jr. He can tell his grandchildren about Rendezvous.

Mr. Tindall finally got to the Pacific and was mustered out as an acting Chief Engineer (he was actually an Ensign) from the destroyer Knox, on which he finally had a chance to serve. He went to Brown University for two years to get his degree in Mechanical Engineering in 1948, and then went to work at Langley Field at the Government Research Center. Little by little, he found himself getting more and more involved in the space program, with special emphasis on orbits and computers.

When Gemini 7, a little late for its date with Gemini

6, finally got off the ground at Cape Kennedy and began probing its way toward Rendezvous, it was Howard Tindall, Jr., who was in charge of mathematical calculations that governed the incredibly accurate flights.

When the two spacecraft came closer together, at 17,500 miles per hour, out of sight in space, than a kitchen stove to a dining table, it was the result of calculations that had been going on from before the first American took the first space ride, and before the first Gemini craft was even designed. Mr. Tindall, who was Assistant Chief of Mission Planning for the Gemini Rendezvous flight, was responsible for the final calculations. Something, indeed, to tell his grandchildren.

Another Case of the "Late Bloomer"

Nothing much in his scholastic background prepared anyone to expect such a performance. "He did reasonably well in high school," his mother told *The Cape Codder* reporter. "He had some ability in math. But I would say he was not an outstanding student."

His principal interest in high school was the band, where he played trumpet and French horn. He likes very much to sail and has had a boat when he was near water and able to have one. The boat he had while he was at Langley, in Virginia, gave him scope for his other interest, woodworking. He did the interior cabinet work on that.

He and his wife and four children get down to the Cape when they can. "They came from Houston last summer and the summer before for a couple of weeks in July," Mrs. Tindall said. "He was down here two weeks ago, too. Happened to be at MIT where some scientists were gathering to discuss the Apollo program. He isn't in that, but he has had some experience with space now, so they called him in."



IT'S NOT ALL TRIUMPH. This was the October scene when the Gemini 6 mission was scrubbed. In this NASA photo, white-shirted men are John

Dodge, Chief, Flight Control Division, left, and Christopher Craft, Flight Director. Howard Tindall is behind the former.

Mr. Tindall, who became a specialist in orbit computation for the Echo launch and who helped set up the tracking figuring for Mercury, enjoys his work today. "Few men," said his mother, "enjoy what they are doing as much as Bill." Few men even understand what Mr. Tindall is doing, she added. There is a new mathematics, a new vocabulary, connected with computations required for space exploration, that most people don't comprehend. "All those men are so young," the mother said.

There are five more Gemini projects before the program ends, and Mr. Tindall is talking about having some time to sail a boat, possibly down here. Mrs. Tindall doesn't think it likely: "With the moonshot, the Apollo program, coming along next," she said, "it doesn't seem likely they'll waste his experience. I guess he won't have much spare time."

Howard Wilson Tindall, Sr., is retired to the Orleans home now, after a good many years in the furniture business, as a factory prerepresentative. It may be from him that the space mathematician gets his feel for tools and woodworking. In any case, when the Tindalls moved to Orleans in 1952 and bought a small group of cottages, Mr. Tindall made over the garage which is now the snug home in which they live and built a neighboring full-sized house entirely by himself.

Whenever a Gemini flight is on the air, the Tindalls stay by the TV set to watch it. They want to see what Bill is going to do next that he can tell his grandchildren.

"Not as sad as it sounds"

THE ULTIMATE AUTHORITY, of course, was the younger Tindall himself. His letter, written during the holidays, was gracious and modest in answering our questions. He said, in part:

YOUR IDEA of a story about me is very flattering. I don't know that I can add much to the *New York Times* story that would help you. In fact, I was really quite amazed that they were able to put together such a good profile considering the material.

It struck me as I talked to the reporter that, aside from my space work, there weren't many things to tell him that were particularly interesting. I guess this is partly due to the fact that I have been spending almost all my time on this job and have given up most outside activities. This isn't as sad as it sounds, for I find this work awfully exciting and interesting. In many ways it is just like a hobby. I am really lucky to have been allowed to do this job.

The *Times* story is essentially pretty good on accuracy. The author somewhat overdramatized my role during the mission since, if we have really done our job properly, it should be finished prior to the mission. (Mission planning,

(Continued on page 18)

Man's Dialogue with the Machine



DR. SOLOMON LEFSCHETZ of the Center for Dynamical Systems.

PUERTO RICO was the scene of an unusual honor which Brown University paid one of its Faculty during the Christmas holiday. As a compliment to Prof. Solomon Lefschetz, Brown's Center for Dynamical Systems organized an international symposium which brought together 100 of the world's leading mathematicians. They spent the time discussing new research and recent advances in the theory of differential equations.

Following so closely on the triumphant work of American astronauts in their space rendezvous, the Puerto Rico Symposium took on added significance. The branch of mathematics discussed is of great importance in the development of mathematical theory and of central relevance to the workings of modern technology.

Many of the fundamental laws of science can be formu-

lated in the language of differential equations. Such diverse phenomena as the flight of an artificial satellite, the vibration of the reed in an oboe, and in the automatic steering mechanism in a large vessel can be analyzed with these mathematical tools. Differential equations have application in mathematics itself, of course, and, through the efforts to solve some mathematical problems, whole new fields of study have been created.

Man's Communications with His Sophisticated Machines

What are non-linear differential equations? They are the language of the computer, the language of the missile guidance system, and, in short, the language men use when they communicate with the complex and sophisticated machines that play an ever-increasing part in the life of the 20th Century. The military and practical applications of this type of mathematics are extremely broad, but just as broad are the applications to mathematics as a pure science. Dr. Lefschetz's major contributions have been in the realm of theory—he has left the application to others.

With the co-sponsorship of the U.S. Air Force's Office of Scientific Research, the symposium was held at the College of Agriculture and Mechanical Arts of the University of Puerto Rico at Mayaguez the last five days of December. Joining Professor Lefschetz there were mathematicians from Brazil, Canada, Czechoslovakia, England, Iceland, India, Italy, Japan, Rumania, Sweden, and the United States. In the group were 10 colleagues of Professor Lefschetz from Brown. The program had the official designation as an International Symposium on Differential Equations and Dynamical Systems.

The Brown Center for Dynamical Systems became an agency within the Division of Applied Mathematics, when Dr. Lefschetz came to Brown in 1964. The Symposium was the latest of many received by this distinguished Visiting Professor of Applied Mathematics, who is still active in his field at the age of 81. Widely recognized as an innovator in several branches of mathematics, he was awarded last year the National Medal of Science when President Johnson thus recognized his accomplishments.

The Accident That Led Him to Mathematics

Dr. Lefschetz came out of retirement at the age of 73 because of his concern over Russian success in missile and space technology, so dramatically demonstrated at first by Sputnik. A former Chairman of Princeton University's Department of Mathematics, Dr. Lefschetz organized an outstanding group of younger men to work at the Martin Com-

pany's Research Institute for Advanced Study (RIAS) in Baltimore. Moving to Brown with Dr. Lefschetz eight years later, the group became the Center for Dynamical Systems on College Hill. Noted scientists from all over the world, including Soviet bloc countries, regularly visit Brown to discuss their current research with the men here.

The 81-year-old giant of modern mathematics became a mathematician because of personal tragedy. In 1907, while he was a young mechanical engineer with Westinghouse, Dr. Lefschetz lost both of his arms in a laboratory explosion. Undaunted, he turned to the more cerebral life of a pure mathematician.

When, four years after his retirement, he became alarmed over Russia's scientific progress, his decision to return to research was not without its irony, for Dr. Lefschetz was born in Moscow, the son of Russian emigre parents who were permanent residents of Paris. His early education was in France; his mechanical engineering degree was from the Ecole Central, Paris. He came to the United States near the turn of the century, earning his doctorate at Clark. He taught at the Universities of Nebraska and Kansas before going to Princeton in 1924.

Only 17 Americans have received the National Medal of Science, established in 1950 by act of Congress. This permitted the nation to honor persons for outstanding contributions in physical, biological, mathematical, and engineering sciences. It was first presented in 1962, to a single individual; five additional recipients were named in 1963. The group of 11 which received medals in a White House ceremony in February, 1965, from President Johnson had originally been nominated while President Kennedy was alive. The citation to Dr. Lefschetz, deferred because of the Kennedy assassination, spoke of his "indomitable leadership in developing mathematics and training mathematicians, for fundamental publications in algebraic geometry and topology, and for stimulating needed research in non-linear control processes."

Outstanding Honors from Three Continents

The significance of Dr. Lefschetz's work, particularly in algebraic topology, has been recognized throughout the world. He is one of the few American scientists who have received honorary degrees from the Sorbonne, and he is one of only about 75 non-British scientists to hold membership in the Royal Society of London. He is a member of the National Academy of Sciences in this country, and he has honorary doctorates from Clark, Princeton, the University of Prague, and the National University of Mexico. He has been a Visiting Professor at the last institution and continues to devote some of his time there. A former President of the American Mathematical Society, he edited for 30 years the distinguished publication, *Annals of Mathematics*.

Dr. Lefschetz was a participant in discussions of a panel of scientists at Brown's Bicentennial Convocation a year ago. At that time, the University conferred an honorary Sc.D., with this citation: "Most versatile of mathematicians, you have contributed uniquely to the development of at least three branches of theory. Your colleagues have quickly applied your theoretical work in ways vital to science and technology. Your many students occupy positions of importance and continue to be stimulated by your teaching long after leaving you."

Dr. Lefschetz's writings include three definitive textbooks on topology. His work has been recognized by three of the

top prizes for men in his field: the Bordin Prize of the French Academy, the Bocher Prize of the American Mathematical Society, and the Feltrinelli Prize of the Academia dei Lincei, Italy.

A Challenge to Russia's World Leadership

When Dr. Lefschetz and his colleagues left Baltimore in September, 1964, their move to Brown was prompted in part by a desire to be more closely associated with graduate students and a major university. Brown's eminence in mathematics made it a logical locale. The Dynamical Systems Research Center here has focussed on the study of non-linear differential equations, a field beyond the comprehension of most laymen. But it has widespread ramifications in the development of modern technology.

This point has not been lost on the Russians, who had led the world in the development of this form of mathematics. In the judgment of many, however, Dr. Lefschetz and his team at the Center have clearly matched the Russians in the quality of their research.

The Dynamical Systems Research Center at Brown is supported in part by the Air Force Office of Scientific Research, the Army Research Office at Durham, N. C., and the National Aeronautics and Space Administration. At the outset they pledged about \$150,000 a year toward the \$200,000 estimated as the Center's annual cost.

When Brown announced the impending arrival of Dr. Lefschetz and his associates, Prof. Rohn Truell expressed the University's pleasure. The Chairman of the Division of Applied Mathematics said the new affiliation was bringing to Brown "some of the world's best scholars in this important area of science." "The arrival of these men will have profound implications for us," said Dr. Truell. "Our teaching and research will be greatly diversified. Our undergraduate and graduate teaching programs will be considerably strengthened. The work of our Computing Laboratory will be broadened significantly because the work of these men touches on such computer problems as machine logic, numerical analysis, probability, and statistics."

The use of non-linear differential equations and their application to dynamical systems occupy a broad territory in modern mathematics, it was emphasized. Research in the field is essential in solving many crucial problems of technology relating to information-handling and control of machines—problems involving such things as space exploration, guidance systems, communications, and automation.

In the field of satellite guidance, for example, this kind of mathematics is needed in answering such questions as these: What is the least information one can have and still control performance to the degree required? What are the best means of exerting the desired control? What kinds of controls are possible with a given amount of information available?

The Remarkable New Team on College Hill

Even without Dr. Lefschetz, the group which came to Brown from the Martin Company's RIAS would have been one of eminence in basic research. Some of the men had been associated with Dr. Lefschetz since the early years of RIAS. Such a scholar is Dr. Joseph P. LaSalle, who was Associate Director of RIAS from 1958 on. With a doctorate from Cal Tech in 1941, he has been on staffs of Princeton, Cornell, and Notre Dame at various times. Dr. Jack A. Hale, also with

(Continued on page 18)

Paperback protege

Josiah Carberry should
be excited about his
former Brown student,
new undercover hero

PETER WARD'S NAME does not appear in the Alumni Directory of Brown University, nor does that of David St. John, but their devotion to College Hill, its Faculty, and its memories is unmistakable. The evidence of this is unobtrusive, but it is there. Thousands of paperback-readers can tell you so.

If you didn't encounter Ward in *On Hazardous Duty*, you should in *Return from Vorkuta* (Signet Books: the New American Library). The latter paperback, appearing during the fall, provided new adventure for "CIA's spy in disguise, playboy Peter Ward," as the blurb describes him. His latest mission was to find out if the Conde de Prados, ex-prisoner of the Russians, is a true pretender to the Spanish throne or a Soviet pawn. But Brown men will find a bonus interest among others which are not so germane to our purpose here.

Our introduction to Peter Ward came through Prof. Donald G. Rohr, History, who sent a book across the Campus with instruction to turn to page 16. We did, and we trust author and publisher will not object to our quoting:

Peter blinked. "What kind of access do I have to Spanish Royalists—to the Conde de Prados in particular?"

Thorne sat forward, sighed, and lighted a cigarette.

"You underestimate the Squirrel System. Electronic data retrieval is becoming the heart of our business." Exhaling smoke, he sat comfortably back. "Remember a Professor Carberry? Professor J. S. Carberry?"

"I had some classes with him in pre-law."

"Odd type, I gather."

"Chimerical."

Thorne chuckled. "Squirrel clicked and chattered, lights glowed, and behold—Carberry's name popped out."

"In what connection?"

"His avocation—researching the juridical basis of monarchies past and present."

Peter sucked on his pipe. "I remember him—unbuttoned coat and trailing scarf heading untidily down College Hill. Some said his feet never touched the ground."

We were hooked. We would probably have been, anyway, but it was imperative to learn more about a former student of Carberry. This, to be sure, was not the first time that Josiah Carberry has crossed a checkpoint between fact and fiction. The point was that Peter Ward must also be a Brown man.

Certainly, he purported to be. In his personal office in Washington, D. C., our undercover agent made a show of practising law. The legend on the door called him attorney, "an assertion substantiated by framed diplomas on the reception-room walls from Brown and Yale Law, and a membership certificate from the District Bar Association." But this was, admittedly, a cover office which Ward could use on occasion. The Brown diploma could have been fabricated, too, especially since Brown diplomas are more often found in their leather, book-like cases than in frames.

Ward's secretary was used to his subterfuges and inclined (even trained) not to accept everything at face value. When she had taken a letter dictated to Dr. Josiah S. Carberry at Brown University, her nose wrinkled and she asked, "Is there really a Dr. Carberry?" Peter's answer was, "We'll see if he replies."

A reply came on the next page:

A letter postmarked Providence waited for him, a letter from Dr. Carberry that began "Dear Ward" and went on to express the professor's gratification over Peter's grant from the Blackstone Foundation and his coming research in Spain. He had sent a letter to Professor Sainz in Madrid, carbon enclosed, describing Peter in flattering terms and assuming the unqualified cooperation of Professor Sainz. In return, Carberry requested a copy of Peter's treatise after publication.

Peter felt uneasily guilty over deceiving old Carberry, and when his secretary came in he dictated a note of appreciation. Since no paper would ever be drafted, much less published, Peter decided to send the professor something he might prize—an illuminated palimpsest from the monastery at Burgos or San Juan de la Pena, possibly a Colonial Codex, or some Etruscan ceramics. The agency could afford the tab.

Our reservations about the Brown diploma are doubtless unwarranted, for the author, David St. John, makes the definite assertion shortly that Peter Ward had been right wing on the Brown team that "retired the Ivy League cup" and still played occasionally with the Washington Potomacs. On the eve of his departure for Spain, Peter is called on to fill in for an injured player. Hockey is out of the question, in view of CIA priorities of course, and Peter regretted the lost opportunity. He would have liked nothing better than hitting the ice again with the Potomacs; two of his classmates

were regulars on the team. (It so happens, by the way, that there is a Brown alumnus in the current lineup of the Potomacs—Donald W. Arsenault '57, Mid-Atlantic Sales Manager for Motorola; others have played for the club in the past.)

Professor Sainz, who is the archivist of the Spanish Royalists, readily acceded to the request of his colleague, Dr. Carberry, of course. The letter from Madrid said he would be "honored to help a former student of Carberry's in any way he could." It was not long before Ward presented himself at the Sainz home. The Spaniard's first inquiry was for Carberry's health, which Ward reported as good, he trusted, though he had not seen his old mentor for 14 or 15 years.

"In his way he is a genius, that one," said Sainz with a nod.

"And like yourself Senor Profesor a legendary figure to those who know and understand his work."

To our sorrow, Josiah Carberry plays no important role thereafter, but there is one further Brunonian reference. The book's heroine is a beautiful young *condesa*, whose overtures to the irresistible Ward are innocent but undeniable. In one episode she takes Peter to a studio party in Madrid:

The scene reminded him of an off-campus apartment he and a half-dozen classmates had inherited in their senior year. In an ancient frame building at the foot of College Hill, the place held the dust and red plush furnishings of the 1870's, and its bizarre features had proved a lodestone for pretties from Boston, Wellesley Hills, and Hamp. There had been considerable drinking and *amour*, he recalled, but all in good humor and with a certain amount of flair. On graduation, he and his fellow conspirators awarded the keys to another group of blades in a tradition three quarters of a century old.

For any further recollection of this old grad, we must await the next in the Peter Ward series, but we do hope he had the decency to remember the Etruscan ceramics as thank offering to the Carberry who had been of such assistance.

And now, what about David St. John, Ward's chronicler? His ties with Brown must be strong, although there is no file card for him in Alumni House under that name. With suspicions of our own, we resorted to another Squirrel System right on College Hill. His retrieval of information is no less impressive than that of the electronic counterpart of the CIA. His name is Prof. I. J. Kapstein.

Yes, David St. John is one of several names under which a genuine Brown man writes. Though the Rockefeller Library and the University Archives are not aware of him in this particular manifestation, he is not without representation on shelves at Brown. One very good novel, with his real by-line, is based on his wartime experiences. He has a son named David and another with St. John in the middle of his name.

"He is a good Brown man," says Dr. Kapstein. "And I don't think he would mind if you were to say who David St. John really is." But perhaps he should take off his own mask; we won't.

P.S. In *On Hazardous Duty*, the book which introduced Peter Ward last June, our hero returned to his desk after long absence and went over three months' mail. He separated it "by category." In the pile were "alumni magazines from Brown and Andover." Alas, the author does not specify the category into which these items were placed.



"THE SCENE reminded him of an apartment at the foot of College Hill."



—Liber Brunensis photo

CHARLES H. DOEBLER '48, Director of Admission at Brown, author of "Who Gets into College—and Why." The Virginia Kirkus Bulletin speaks of him as "astringent, pragmatic, and obviously informed."

"It SCORES 800 all the way," said the Virginia Kirkus Bulletin of the new book by Brown's Director of Admission, Charles H. Doeblar. The title is *Who Gets into College—and Why*, and the Kirkus Bulletin calls it the "best which has appeared on the subject."

In the publisher's foreword, we are told that "Mr. Doeblar brings us the view of Brown University but points out that, while each college differs in policy, the tools used to arrive at decisions are quite similar." This is his second book on the subject (253 pages, \$3.75). While it deals with the whole range of the admission process and its problems for the applicant, we asked permission to reprint the final chapter on "Career Plans and Course Choices in College." The publisher and copyright-holder, G. P. Putnam's Sons, New York, consented to such use.

Who should choose your^{*} college course?

By Charles H. Doeblar '48

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THE IMPORTANCE of a college education to a career, and the increasingly high cost of that education have been instrumental in maintaining a golden umbilical cord between parents and students that is severed far later than it should be.

From my own experience in college admission work, I know that the ultimate choices of which colleges to attend are often made by parents. The reasons for this are obvious: parents are vitally concerned about "the best" for you,* and in such an important decision as which college or career to choose, they probably prefer to rely on their own judgment, even though they have respect for your ability to make your own decisions.

Fortunately, most colleges have a prescribed curriculum for a year or two. This prevents confusion between what you might like to study and what your parents feel you should study. It is only when presented with real choices that any conflict between you and your parents comes to a head. The results of such conflict can be infinitely more damaging to a future career than the wrong choice of a course could ever be.

It's Not Like a Vocational High School

The essential problem goes back to the fact that, for the most part, your parents see "education" as the means to get you better jobs and salaries. The fact that the educational process is long and expensive heightens their concern. In other words, it means that your parents view college as a vocational high school of sorts which can train you to perform well in a specific area, such as business or engineering.

In the case of institutions that prepare engineers with a major emphasis on technical training, with little or no thought given to the theoretical side of the physical sciences and still less to the peripheral subjects of history, literature, philosophy, art, religion, etc., this assumption is quite correct.

* The author is addressing himself to the college-bound student when he uses the second person, but he hopes the parent is listening.—Ed.

There are institutions of higher learning that are organized almost entirely to produce highly trained technicians—not just in engineering, but in other areas as well. Since, however, there is little choice of courses in such an institution anyway, let us bypass them and consider the problem where choice of course will constitute one of your major concerns.

The crisis often does not arise until the end of the Sophomore year. It is at this time that, having completed the pattern of courses required by the college in the fulfillment of its requirements for a liberal education, you must now undertake to find a field of interest which will serve you properly in years to come and present you with a proper return on the investment of time, money, and effort in your education.

Suppose You Plan to Go into Business

The answer is quick and obvious in hundreds of colleges; more than likely you may find yourself saying: "I will be in business, therefore I will take business administration." In many of the colleges that can be considered in the "competitive" area there is no such curriculum, these colleges being uninterested in becoming vocational high schools. On the other hand, "economics" is a highly respected liberal arts subject and no self-respecting college could dream of not being represented in that area.

It does not take any great amount of research to determine that a college major in economics in an institution that does not offer its students business administration is close enough both in spirit and in course content to satisfy your parents if they are worried about how you are going to make a living in the world. Since many college students will indeed go into business, it is not surprising that economics is the most popular area of concentration in many colleges.

The alternatives are spoken of in the most forthright way, as if any one course must inevitably lead to a foregone goal. Thus, if you are urged to study English because you like it and have a flair for writing, you may very well hesitate painfully over the decision because you are not sure whether you want to teach English or not. The concept of specifically training for a profession through the courses a student takes leads to a considerable amount of agony; both you and your parents are probably convinced that any student who concentrates on English literature in college will naturally make a career of teaching English.

It will be easier for your college counselor to convince you to the contrary than your parents. You know that you must have a diploma and know further that it will be easier for you to study hard enough to earn the diploma if you study English, which you like, than economics, which you have decided you hate.

You Are Choosing Courses, Not a Career

However, you still have the problem of persuading your parents that a major in English can be extraordinarily advantageous even to a businessman. And even if it is possible to persuade them on this one point, there are still insurmountable obstacles to their understanding that a good part of the purpose of a liberal education is to enable a man to escape temporarily from the problems of making money by teaching him to understand and appreciate other things.

Never was this put so graphically or feelingly to me as in a discussion on education I had with a banker I met on a train and have never seen since. He said, "Thank heaven I didn't study business administration in college. When I get home at night, I'm sick of banking. I want to be able to refresh my

spirits with good literature or the appreciation of art—things I first learned about in college."

The real conflict that arises from associating subject matter with eventual occupation is that you may think you are choosing a career, when you are actually only choosing courses. You may want to major in philosophy or art, but you are reluctant to do so because these don't seem to be practical choices, or they may not appear to you to be part of the proper preparation for the career goal you have already set in your mind. Thus a future lawyer, when entering college, earnestly inquires about the pre-law course, the set of prescribed subjects which will inevitably give him the best education a lawyer can have.

When you find out that "pre-law" at most liberal arts colleges is not a set curriculum but a state of mind, you are reassured only momentarily. At the end of your Sophomore year you will reappear at the Dean's Office with a worried frown to ask if law school admission offices will be prejudiced against you if you major in philosophy instead of political science or history.

"Pre-meds" suffer more in the choice of courses, because, unlike law schools which have no specific entrance requirements, medical schools have complicated and fairly explicit requirements to be met. Generally speaking, the medical schools are concerned about students' having the foundation which will enable them to get through the first two years of medical training safely; therefore there is a heavy emphasis on science requirements. This, however, does not mean that you must major in a science in college to get into medical school. Although often a student's strong interests will drive him into the study of biology, psychology, or chemistry as a major, about half the students who go on to medical school have majored in non-science areas.

The Argument When Directions Seem to Change

Although the problems of achieving goals which you set for yourself through your own understanding of the special talents and abilities you have is difficult enough, a still more vexing situation develops when you discover that your new interests and directions which your talents are likely to take in college are directly opposed to the career you and your parents decided on a long time ago. With the best intentions in the world, you and your parents may disagree more about this than any other aspect of your education.

Because college is so often undertaken as the means to a specific end, and because it is planned for so far in advance, the student agrees to the end before he is old enough or sophisticated enough to realize the ramifications of the educational goal which has been set for him. Thus any girl who shows an inclination toward nursing after seeing an inspirational movie may be so encouraged by her parents. With this ambition suitably reinforced, she may arrive in college with the blind ambition of nursing, but none of the specific abilities or talents that should accompany it.

Preparation for medical school and a career as a physician also requires considerable innate ability and a rigorous program of courses in chemistry, physics, mathematics, and biology at an advanced level and in the face of considerable competition. It is not unusual to talk with a student who has dutifully followed his parents' ambitious ideas for him by taking the science courses that are necessary for admission to medical school and at the same time has tried to squeeze in the subjects he likes as well. This kind of planning almost always shows up on a transcript—the second course in physics

or in mathematics or the final course in organic chemistry have been postponed till the last possible minute.

This, incidentally, is one of the arguments against too much reliance on the view that medical schools want liberally educated candidates, and that a major in literature or philosophy is as desirable as one in biology. While it is true that medical schools are interested in the broadly educated candidate, it is also necessary for the admission committees to be convinced that the student has sufficient knowledge and ability to be able to cope with the sudden mass of highly technical information he must master in the first two years. Therefore, the dilemma of their committee is to find students who show an interest and ability in the humanities but who are adept enough in the sciences to survive the first two years.

Many students are pushed into pre-med science courses as long as feasible. And, more than likely, there will be a slightly lower achievement in the science courses, which of course tells its own story.

A typical academic tragedy occurred a year or so ago to a student of my acquaintance. In the last semester of his Senior year he failed a Sophomore science course. Not surprisingly, he was a pre-med battling unsuccessfully against an education he didn't want, until finally he was prevented from graduating on time by a comparatively low-level course of the sort that has to be second nature to the medical school student. Whether or not his parents relented at this point I can't say, but medical schools, aware of this problem, often take the solution into their own hands.

What Educational Investment Is Most "Practical"?

Because higher education has become so long and so expensive in the last few years, your parents will understandably be concerned that this investment bring in the best return possible. Thus a "practical" education like engineering seems to guarantee such a return better than an "impractical" liberal arts course. This point of view can almost certainly cause friction between you and your parents if you find you are more interested in the impractical than the practical.

For example, if you have gone to college to study engineering because you are good with your hands, competent in math and physics, and not afraid of hard work, your parents are likely to applaud the idea—as an engineer you will surely be able to earn a good return on your educational investment.

But if you go to a university where engineering is taught as one curriculum among many and you lean over your roommate's shoulder to see what kind of English literature he's reading, talk philosophy until all hours of the night with other students, and see all around you a great variety of courses that you would love to know more about but which are forbidden to you while you are undertaking the engineering curriculum, you are likely to be restless. Then one day you sit down to do engineering problems and realize you'd rather read philosophy, and that the idea of a lifetime of engineering problems appalls you. That night you phone your parents and precipitate a crisis—you want to leave engineering and study philosophy!

A practical-minded father who has already discovered what General Electric will pay beginning engineers may absolutely panic at information of this sort. In rapid succession he is likely to tell you that you are crazy, that you are too young to know what you want, that you are a quitter, and finally that you will starve to death, because what can you do that people will pay money for after you study philosophy in college except teach other soft-headed Freshmen philos-

ophy. If Father is really adamant—and in my experience he is likely to be—he may threaten to cut off your income if you don't return both to reason and to engineering.

When You Take the Problem Home with You

At this point, you may have to decide whether choosing your own education is worth what may be a struggle with your parents. You need to gain your parents' understanding of your ability to make good decisions despite your youth, and to make them realize that even if you change your mind several times in its pursuit, education is your prime goal. It will be hoped that your parents may eventually not only understand the turmoil that is going on in your mind, but even come to appreciate it. In the end, if you are successful you will achieve an important victory—an education tailored to your specific needs and interests.

First your parents have to understand what has been going on since the beginning of the Freshman year. Even more important than exposure to new ideas and the glittering temptation of a prodigious variety of courses is the development that seems to take place in boys at this time, a switch away from science and toward other things. For many, this happens in college. It is the underlying reason for the number of drop-outs from engineering and science courses, even in the institutions that boast the very highest and most stringent standards of selection. The switch is often accelerated in a liberal arts college by the presence of attractive distractions in the form of literature and philosophy courses, but it is likely to happen anywhere. Engineers, of course, are not the only "victims" of this switch in point of view; other students in sciences and "pre-med" go through this sea change.

The important point for your parents to understand is that changes will take place inevitably; they will come about because of your response to the varied challenges of college environment. In changing your goals or ambitions, you are not necessarily demonstrating a lack of stability, drive, courage, or anything else. This last is particularly important for your parents to understand, because if you have announced publicly since the age of nine that you plan to be a doctor, and if you discover at nineteen that this isn't really how you want to spend your life, you may feel that in abandoning a plan of action that you have committed yourself publicly to, you will be labeled a quitter.

Even worse, you may actually feel you are a quitter when in fact you have yielded sensibly to the dictates of your experience. It is at this point you can turn to your parents in the hopeful expectation that they can understand and appreciate the struggle in you between the dream of medicine and the reality of your lack of aptitude for science at a high level.

Why Some Students Leave College for a Bit

Even more baffling to your parents than the change from a long-standing goal would be your decision to withdraw from college entirely (but temporarily). To your parents, none of your reasons for the withdrawal will seem to make sense. You, however, caught up in the daily grind and pressure of education today, may want to take time out, to stand to one side in order to gain a perspective on your education. This hiatus may take the form of work, reading or travel, or joining the Marines. Almost any removal from the college scene seems to have the necessary therapeutic effect.

It would be a mistake for either you or your parents to equate this kind of temporary withdrawal from college to a high school "drop-out." In many cases, the student who leaves

college is in good academic standing, but not infrequently there has been a downward academic trend.

The reasons for this increasing tendency are complex. They stem from the intensity of academic competition, which has filtered down from the college level into the high schools and even lower. In a sense this might be called "academic battle fatigue" because it represents an escape from the pressure of scholarly competition.

There was a time when a student of good ability could get through high school without considerable pressures, and it was only in college or graduate school that he began to feel the hot breath of competition. Now suddenly the whole system is alive with competition of a most feverish sort. The time that a student spends fighting, not only with himself but in conscious striving against other students, has extended from a few years at the end of the academic course, to his entire academic career from beginning to end. Little wonder, then, that an increasing number of students succumb to weariness and want to drop out of the race for a short while to rest.

If you should ever present your parent with this predicament, it should be comforting to them (and perhaps to you) to know that dropping out of college is more often than not only a temporary respite and that the student almost always returns to the scene of his former labors. The question that may very well haunt both you and your parents is whether or not the college is inclined to allow a student to drop out and then return. The answer, in the case of most colleges, is yes—leaves of absence for good reason (and this reason is a good one) are permitted. The student who leaves in good standing—i.e., not at the request of the Dean's Committee on Academic Deficiencies—will certainly be permitted to resume his studies.

The "Overachiever" Wanted a Year's Respite

The varieties of reasoning that go into these withdrawals are amazing, and yet they all seem to be variations on the same theme.

One student, having graduated from high school with a superb record, both academic and personal, and whose college record had been similar, withdrew in the middle of his Sophomore year. To officials who were surprised that anyone so successful in a wide variety of activities should withdraw, the student said: "I'm what is called an overachiever. I've always worked hard, and I've won scholarships and honors for hard work. At the moment all I can see ahead of me is more of the same in college and medical school. Just for a while, I want out."

Competition affects others in a different way. Frank is a boy of good ability whose use of it has been somewhat wasteful. Having been able to achieve good grades in high school without much work, he was disappointed to find his marks in college slipping to a minimum level. Being a young man of conscience, Frank withdrew from college at the beginning of his Junior year to work in the Texas oil fields, so that he could start the Junior year over again after he had readjusted his goals during a year of physical labor. Here competition had made this student feel the inadequacy of his own motivation, and his withdrawal was a move to correct it.

Does it work? Do they return? The answer is yes. And what's more, the withdrawal very often results in a change of attitude which permits a happy college experience. There is an expensive form of reprisal which students who are tempted by this informal vacation plan, but who are blocked

by parental refusal to permit withdrawal even on a temporary basis, often take—they flunk themselves out. One student I know who was blocked by his parents in his wish to take leave from college simply withdrew to his room and in the ensuing semester read about 250 novels, none of which was required for any of his courses. Understandably, he was requested to leave. He failed all his courses, which of course his parents had paid for.

There May Be Trouble Getting Back in

Colleges would much rather give leaves of absence than deal with the question of readmitting a student who has been flunked out. Dismissed students could once expect almost automatic readmission, but in the past few years faculty committees have become much more reluctant in this regard. Now it is by no means automatic that, after a year of what the English call "rustication," a student will be reinstated.

This change in policy becomes important because many colleges that used to serve as refuge harbors for dismissed students will now have nothing to do with one who has been dismissed from another college. Even night schools and extension divisions are taking a dim view of another college's rejects; several have an announced policy that if a student has been dismissed from another college, a year must pass before he can be considered. Similarly, summer schools which used to have free and open admission are now in many cases available only to students in good standing, and a few have put admission on a selective basis.

The moral is clear: Once you have been admitted to a college, it is necessary for you to remain in good standing, or your chances for continuing your education are sharply reduced. Paradoxically, the very forces of competition that encourage drop-outs make it possible for many colleges to do without the marginal student who was unsuccessful at some other institution.

I would hope that your parents would give you understanding sympathy if you decided temporarily to "drop out." It will be difficult to them, because they have not had to live through it, to understand the weariness that may come from unremitting academic pressure. On the other hand, it is important for you to realize that "education" is not the automatic result of earning admission to college. It has become so difficult in many cases to get into college, that you may think that all the rest is downhill.

Instead, in order to become educated, you will have to learn your own strengths and weaknesses, your talents and your lacks. You must learn the proper way to assimilate information, to make judgments on it, and the most effective way to communicate those judgments.

In this process of your final preparation for your life, you will undoubtedly change your directions many times. Your parents probably did, too, and likely they will remember and understand that these changes are not the result of whimsy or casual thought. They come about because of your new self-knowledge and the growth of your outlook to the point where old ambitions and goals are meaningless.

In the press of today's competition for and in education, the goal must have meaning for you. Otherwise it could not be worth the effort it entails. Education is necessarily an intensely personal process; your parents, with the best intentions in the world, cannot experience it vicariously or even completely understand it from your point of view.

The wise parent knows this, and, at whatever the cost of his dream, will let you determine your own fate.



IT WILL BE A BUSY PLACE on Feb. 26. Chairman Bloomingdale surveys the New York Dinner site—the Windsor Ballroom of the Hotel Commodore.

A Keeney salute in New York

THE LIGHTS that failed New York in November will be ablaze Saturday evening, Feb. 26, irradiating a tradition there that antedates the modern era of electricity. Ever since 1867, Brunonians in the New York metropolitan area—including Pembroke who have been enthusiastic participants on several occasions—have reviewed annually old associations and paid homage to their Alma Mater. For the 98th Annual Dinner an extra fillip is being added.

President Barnaby C. Keeney will be the only featured speaker at the formal dinner-dance in the Windsor Ballroom of the Commodore Hotel. His valedictory remarks will be introduced by one of eight Brown Trustees who are residents of the New York-Connecticut-New Jersey area. Dr. Keeney's farewell appearance as President in the heart of Manhattan will be his only one in the Greater New York district before his retirement.

The Brown Club in New York is spon-

soring the black-tie affair, with the Brown Clubs in the suburban areas of Connecticut, Long Island, New Jersey, and Westchester contributing support by reserving blocks of tables for their members. Lyman G. Bloomingdale '35, a former Trustee who is a Vice-President of the New York Brown Club, will serve as Chairman of the dinner and be in charge of over-all arrangements. He will be assisted by Phyllis Baldwin Young, President of the Pembroke Club; Norma Caslowitz Munves, Program Chairman; Donald V. Reed '35, a Past President of the Brown Club who will be Chairman of the Reception Committee; and by Jay H. Rossbach, Jr., '43, Club Treasurer who will oversee the financial details. Other appointments are to be made by Bloomingdale and Club President John Flemming '33.

Unlike most previous Annual Dinners, the 98th will be a dinner-dance. An eight-piece orchestra will play old and new tunes until midnight. This feature, plus a

reduced tariff for graduates in the Classes of 1960-65 is expected to attract the younger alumni in large numbers and to promote many privately-arranged dinner groups within the framework of the large public party. Tables of 10 will also be available for individual Classes and Brown Clubs.

Selection of Bill Bloomingdale to head up the dinner honoring the retiring President was no mere happenstance. He was also Chairman of the 89th Annual Dinner in April of 1957 when President Keeney made his official debut among New York alumni. "The reaction of local alumni in accepting the invitation to salute President Keeney at his last official Brown function in New York will be resounding and emphatic," declared President Flemming in revealing preliminary plans to honor Keeney.

Single or group reservations may be made by writing Chairman of Alumni Dinner, Brown Club, 109 East 42nd St., New York, N. Y. 10017, and enclosing payment for tickets as follows: \$20 per couple and \$12 stag; for members of Classes 1960-65, \$15 per couple and \$8 stag.

BROWN and Pembroke Clubs of New York join forces with others for the Feb. 26 Bonquet. With Chairmen Bloomingdale are Mrs. W. B. Young, Jr., P'45 and John E. Flemming '33. (Photos ore by Robert A. Schiff)



STEERING COMMITTEE for the Salute to Dr. Keeney: Chairmon L. G. Bloomingdale '35, far left, and his advisors, left to right: Brown Club President J. E. Flemming '33, Treasurer J. H. Rossboch, Jr., '43, Miss C. M. Dunlop P'48, Club Secretary; standing— C. E. Hughes '37, W. H. Jackson '32, and R. V. Cronan '31.



TWO OF THE EIGHT Brown Trustees who are serving as Co-Chairmen of the 98th Annual Dinner in Monhotton: Edward Sulzberger '29, left, and Charles C. Tillinghast, Jr., '32.

Presidents 12 and 13

THERE WERE SIGNS in January that a Corporation quest for Brown University's 13th President was at an end. The special committee had set itself the end of calendar 1965 as the target date for completing its task, and the nature of some early winter meetings, though marked by the same splendid secrecy which had characterized its inquiry throughout, seemed to have a finality about them. A call for a special session of the Fellows and Trustees was pending.

It was a bit more than 10 years since such a meeting had been held to name a President of Brown University. And a certain jubilation marked the account in this magazine at the time: "Since the 18th Century, the bell in the cupola of University Hall has punctuated the days of Brown University. It has summoned the student to class and dismissed him; it has marked the opening of College and announced the Senior's last sing on Class Night; it has helped celebrate victories on the gridiron and in the theaters of war; it has saluted great visitors; it has rung for every memorable occasion of state and significance on College Hill. The bell rang at 5 o'clock on the afternoon of Aug. 15 to welcome the election of a new President of the University."

The Corporation had found its man right on College Hill—Barnaby C. Keeney.

Ten years later, having submitted his resignation the previous June, President Keeney offered to the Corporation something more than the Annual Report required for the Autumn Meeting. It was inevitable that he should be in a retrospective mood, and so his summation became an accounting for 10 years rather than just one. The following 16-page insert is the text of that Report, and no one interested in Brown should fail to read it.

After Dr. Keeney's first five years, it was our privilege to lend this magazine as the medium for sharing with all Brown men a similar review and challenge. We're glad he let us bind in the 1965 Report, too, as prepared in University Hall. You'll see it across the way.

Solomon Lefschetz

(Continued from page 9)

RIAS in 1958 and subsequently, is a young scholar who has produced a large volume of research since receiving his doctorate at Purdue in 1953. Hale and LaSalle are full Professors of Applied Mathematics at Brown.

Other members of the group were:

Associate Professor Joseph J. Florentin, who holds a doctorate from the University of London, awarded in 1960. He has served as a consultant to IBM and the British National Laboratories.

Associate Professor Harold J. Kushner, who received his doctorate at Wisconsin in 1958. He has conducted research for the Lincoln Laboratory of M.I.T.

Associate Professor Mauricio M. Peixoto, a native of Brazil who took his doctorate at the University of Brazil in 1947. He has taught there and at Princeton. He was for several years on the Faculty of the Institute of Pure and Applied Mathematics at Rio de Janeiro.

Associate Professor Walter M. Wonham, a native of Montreal whose doctorate was awarded at Cambridge in 1961. He

has taught at Cambridge and Purdue and has been a research consultant at the University of Toronto.

Assistant Professors are Leonard Weiss, a Johns Hopkins Ph.D. in 1962; Henry G. Hermes, with a 1962 Ph.D. from the University of New Mexico. In addition to affiliation with RIAS, he has been an associate research scientist with the Martin Company's Denver Division. The three hold joint appointments from the Division of Applied Mathematics and the Division of Engineering. Their work has been principally with electrical engineering problems in information theory and control systems.

Three postdoctoral fellows arrived with Dr. Lefschetz: Kenneth Meyer, Ph.D., University of Cincinnati; Emilio O. Roxin, Ph.D., University of Buenos Aires; and Frank W. Wilson, Jr., Ph.D., University of Maryland.

Drs. LaSalle, Hale, Hermes, Weiss, Meyer, and Peixoto were among the participants in the Puerto Rico Symposium. Others from Brown who attended were: Drs. Ettore F. Infante, Marshall Leitman, Carlos Perello, and Allan Feldstein.

Rendezvous planner

(Continued from page 7)

of course, has to be carried out in advance, as well as the preparing and programming of the computers and other equipment used in the Mission Control Center for directing the mission.)

Perhaps it is interesting to point out that 80 or 90 per cent of the work we do in planning a mission is spent in preparing procedures and capability for handling the contingency situations as opposed to development of the nominal reference mission plan. In other words, hopefully, nothing should happen during a mission that we haven't foreseen the possibility of and planned for in such a way that our reactions are relatively routine.

You requested a photograph of me in a "working situation." I have enclosed a photo that most nearly meets that requirement; in fact, it is the only one that I know of. It is not very good, but maybe you can do something with it. We have no picture of the painting my wife did for me, although I can assure you that it is very lovely. It probably wouldn't be appropriate for your use anyway, since she used another picture as a model, and so it is not entirely original. She doesn't like to do that kind of painting at all; I really had to talk her into it.

There are several former Professors whom I remember with particular appreciation, of course. The first might seem surprising for an Engineering student, but I believe one of the most exciting and profitable courses I ever took was by Prof. Philip Taft in Economics. Recalling his fiery manner, I suspect if I hadn't faithfully prepared my lessons I wouldn't remember him with so much pleasure. Professor Drucker taught a course in Strength of Materials which I still consider one of the brightest spots of my time at Brown; everything was so crisp and logical about it. And, of course, the man who really brought Mathematics alive for me was Professor Adams, whom I was terribly saddened to read about in a recent *Alumni Monthly*.

That's about all I can think of that might be of any value to you. But I must say again what an honor it is for you to express this interest.

Sincerely yours, Howard W. Tindall, Jr.

UNFINISHED BUSINESS

a report from the
President of
Brown University

FOREWORD

Barnaby C. Keeney became President of Brown University in August of 1955. Almost ten years later—at the June, 1965 Commencement—Mr. Keeney announced that the coming year would be his final one as Brown's President. In the light of that decision, it was only natural that his report to the Fall meeting of the University Corporation should be cast in the form of a summing up and a look ahead. The text of that report, as adapted for graphic presentation, is presented in the following pages.



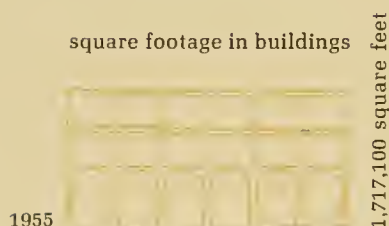
UNFINISHED BUSINESS

Toward the end of one's tenure, it is natural to look back and evaluate what has been done. It is not possible to be objective about this; indeed, one must fight the tendency to look back only at what has been done and to ignore what has not. Fortunately, several points of reference are available to measure achievement against objectives. The first of these is the President's Report of 1956, made at the request of the Committee on Comprehensive Planning and Development to provide it and the Corporation with a plan for development. In this report I reviewed the history of the previous decade and noted an acceleration of all activities toward the end. I next listed the needs of the University and came to the then startling conclusion that it would be necessary to raise plant funds of \$10 million dollars and endowment of \$20 million in order to improve—or even to maintain—the University's quality. This report appeared to be bold and indeed shocking at the time it was written, but in retrospect it is rather conservative in scope and certainly amateurish in content, for the data by which assumptions may be controlled were not then available to the extent that they are today.

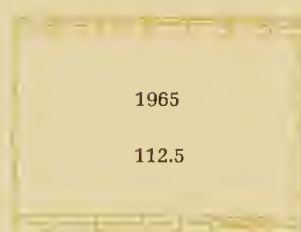
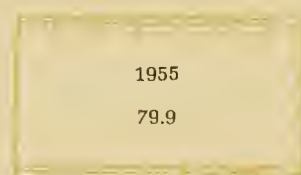
On the basis of this report, the Bicentennial Development Program was launched, on the one hand, and, on the other, a comprehensive physical plan was drawn.

The second relevant document is the application to the Ford Foundation in 1961. This subjected the assumptions of the report of 1956 to a careful numerical and statistical analysis and further developed the basic objectives of the University. The production of this application was one of the most useful exercises we have ever performed, and it should be repeated from time to time. By then the physical plan, made only a few years before, had become

physical expansion



campus acreage



obsolete by reason of the speed of developments. Therefore, a new and much more detailed plan was drawn on the basis of the new and much more detailed data. The first application was, of course, followed by the application of 1964, which is the third document. It went a step further by reviewing the objectives stated in the previous application in the light of developments. No major revision of the physical plan was necessary in 1964.

These documents set forth the objectives. In evaluating achievements, I find myself in a delicate position for, if I speak too much of success, I shall perform an office better left to others and, if I speak too much of lack of success, I may discourage you. Moreover, I must be very careful, in setting forth things yet to be done, not to say things that will embarrass my successor and the successors of this Corporation, and nothing in the following pages is intended to have any such result.

Briefly, during this decade, we have accomplished quite a lot. We have raised considerably more than the \$30,000,000 we hoped for in 1956. The additions to physical plant have been dramatic, and to endowment, satisfactory. Undergraduate enrollment has increased moderately, as projected, while the Graduate School has grown rapidly. Our entering freshmen had good test scores in 1956, and they are more impressive today. Expansion of the faculty has been accompanied by a gratifying increase in median faculty salaries. An already excellent library system has gained added distinction. These several indices of growth are illustrated graphically here and elsewhere in this report.

All this may give one the impression that there is little left to do and it is time to consolidate our gains. There were some who felt that way in 1955. Perhaps that is why

Henry Wriston, in one of his last addresses, said: "The plow is in the furrow, and the field half plowed." Since then, the plow has moved along in the field, but the field has grown, an unnatural behavior for a field, but a common phenomenon in America in the twentieth century.

If one looks at the situation from one point of view, he may feel the discouragement of Sisyphus as he tried to roll his rock up the mountain and ducked out of the way each time it rolled back. Or, on the other hand, he may feel as Columbus and other explorers must have felt as they sailed through uncharted oceans and walked through unexplored lands, realizing that the scope of man's activities is ever increasing. That is the case in our society today, and in our universities. That university which turns to consolidating its gains, without seeking further gains in the mid-twentieth century, will rapidly lose its force.

There are a number of reasons that rapid development has been possible in this past decade. Some of them are economic. For example, the Dow-Jones industrial average has risen during this period from just under 500 to the neighborhood of 900. It has been demonstrated that funds can be raised in bad times as well as good; indeed, there were two mild recessions during the decade. But certainly prosperity has something to do with our success.

The economic prosperity of the upper and middle income classes, moreover, permitted a series of increases in the charges for students (or their parents) which produced more money to spend on their education. The increases have required us to find more funds to aid those who cannot meet the charges.

The demand for educated persons during this period has greatly increased as our society has become more com-



plex and our industry more technical. Industry has given and otherwise spent more money on education than ever before, but the Federal government has led the way. Government will spend much more in the future, for the consensus is clearly forming that education is a national responsibility as well as a national asset.

Other reasons are intellectual. Knowledge is increasing very rapidly and the rate of increase is increasing. The use of scientific knowledge is increasing about as rapidly, and the time-lag between the creation and the use of such knowledge is diminishing. The very nature of knowledge is changing. Philosophers and political scientists alike based their arguments on reason only a short time ago; they are more likely, now, to base their arguments upon data. There is a tremendous excitement, Richard Goodwin to the contrary, in being part of the intellectual apparatus of this country, and that excitement has enlarged the imaginations of learned men and women and has likewise broadened their demands and requirements. In a university one cannot help but feel that he is part of something vital and powerful.

Other reasons are social. Education is regarded as a problem-solver, although it would be more accurate to say that education makes it possible for people to solve problems. As the problems become more complex and technical, society increasingly turns to educational institutions for help in solving them. There is a tendency, which I believe is a dangerous one, to expect the educational institutions themselves, rather than their products, to solve social problems by direct action.

Education is an income-generator. A coarse way of expressing this is to tell a young man that, if he completes high school, he will earn such a sum and, if he

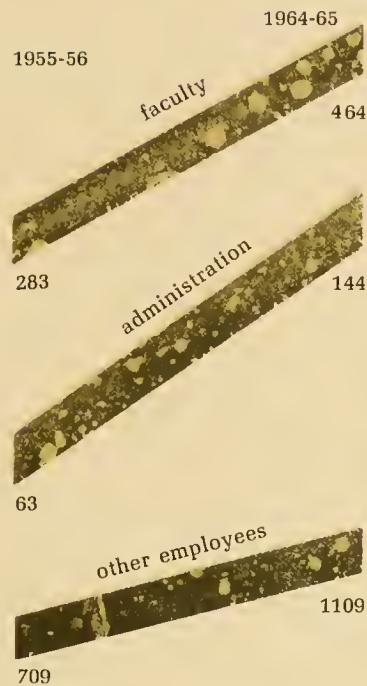


completes college, he will earn so much more and, if he gets a Ph.D., he will earn that much more. A more accurate view of education as an income-generator is provided by the payrolls of educational institutions. Universities have become a significant part of the economy. The annual payroll of Brown, for example, is about equal to the monthly wage payroll of Rhode Island industry, making this institution an important economic asset to the state.

Education, moreover, is a status symbol. Many believe that young people cannot advance without the bachelor's degree and that, if they have a higher degree, they have even better chances for advancement. This view is, of course, nonsense, but its prevalence makes people look to educational institutions and it also inclines them to help them. All these attitudes give educational institutions a very considerable responsibility toward society, in which they must play an increasing part.

Brown has been able to use this favorable situation better than most other institutions because we have had a nucleus of able and concerned people within the University and in our family who have been working together for years for a common purpose. This deep-rooted leadership replenishes itself from younger members. The Corporation has worked purposefully, and, in the case of some of its members, almost full time. The alumni and friends of the University have served it happily and generously.

There are other reasons that it has been possible to develop rapidly in the past decade, but these are the principal ones. The next decade may be quite different. Those universities that know what they wish to do, are willing to be bold, and have strong leadership will im-





	1955-56	1964-65
Professor	\$8,000	\$16,000
Associate Professor	7,000	9,800
Assistant Professor	5,250	8,000
Instructor	4,000	6,500

all figures are without
fringe benefits of
up to 15%

prove, whereas those that do not will fail in their mission, whatever the conditions may be.

Now for the unfinished business. Where do we stand today? It is now possible for me to say that Brown is not the best university in the country. It would have been becoming to say so previously, but not expedient. Some lists might show Brown as one of the ten best universities, but I think that most would show us as one of the top twenty. This puts us in the upper one per cent of American education, but the one per cent is a fairly large group, and the first twenty is not good enough. To rise more—or even to hold our own—we must further develop our faculty, our student body, our plant, and our libraries, and secure the means to pay for these improvements.

We have today a very fine faculty. Many of its members are leaders in their fields and nearly all are thoroughly competent. We are able to compete with any institution in the country in seeking new faculty and to hold our faculty against almost any institution. There are few mature members of this faculty who have not declined many offers during the past decade. To move forward, we must improve still further the compensation and the facilities available to the faculty. When we began this process, we were trying to correct a vile injustice in faculty compensation. We are now in the position of improving compensation to compete even better with other institutions. This is a much nicer situation, but it still presents problems. We shall have to make increases for those members of the faculty who deserve increases, and we shall have to establish more endowed chairs for really remarkable people who set the tone for the whole faculty.

We must maintain the attention of the faculty toward teaching, and their interest and pleasure in doing so. It

used to be said that the faculty at Brown was superior to the student body and that the students here did not deserve the people who were teaching them. This is no longer the case, if it ever was, but our student body is by no means perfect. Brown and all other undergraduate colleges, as well as graduate schools, have great difficulty in selecting the best students from among those who apply. We must improve the accuracy of our selection and thereby improve the student body, particularly by increasing the number of brilliant and original persons in it. I have no doubt that the cost of education will increase further. This being so, if we are to have the sort of student body our faculty will enjoy, we must make it possible for the most able young people to attend Brown regardless of their financial situation. This requires more funds for student aid.

Students and faculty require places to work in. If one compares our plant today with the plant in 1955, he is apt to be impressed. If, however, one compares what has been done with the shopping list of 1956, he finds that there is still a great deal to do: 11 projects have been completed or nearly so and three are about ready to go, but ten are still hopes. Other projects, not on this list, however, have been completed or funded.

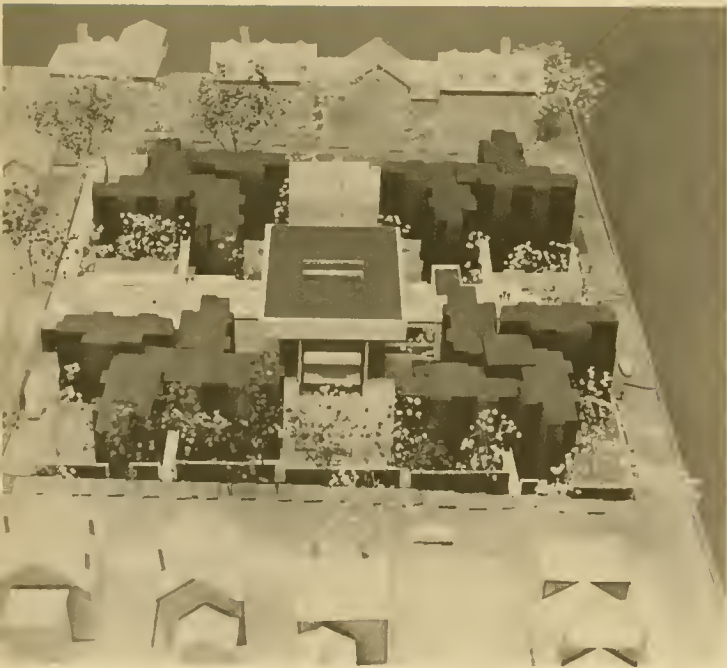
At Pembroke we have completed the planned dormitories and started the new refectory. Now we need additional dormitories for about 200 girls. The West Quad-rangle is not a satisfactory dormitory; it needs to be structurally improved. In addition, we need—as we knew ten years ago we would—additional dormitory spaces for 600 undergraduate men. This time the job needs to be done very well.

In 1956 we envisaged a modest Graduate Center for a



	1955-56	1964-65
The College	2,307	2,485
Pembroke College	879	1,005
The Graduate School	493	1,144





Graduate School of 500. We are now about ready to build a much larger complex of dormitories and space for social and intellectual activities for a graduate enrollment of 1500. The buildings as designed will be our best living quarters and should bring, as our other dormitories were intended to bring, the study, the living quarters, and the social life into a coherent whole. The Center will immediately make most of our dormitories look rather bad.

In 1956 we intended to acquire Aldrich-Dexter Field and build a skating rink, a pool, and a field house. We have Aldrich-Dexter and we have the skating rink. We badly need the pool and a field house. It has become increasingly obvious that the isolated position of Marvel Gymnasium is a serious handicap to the development of our program of athletics and physical recreation. In recent years, moreover, we have been re-evaluating athletics, and have come to the conclusion that whatever we do must be suitable for the whole student body rather than for varsity teams alone, that it must be open to all, and that it must provide all sorts of recreational opportunities not generally available in a traditional athletic plant. A most imaginative plan, and a very expensive one, has been prepared, but it should be possible to carry it out by stages, so that eventually every student in the College, Pembroke, and the Graduate School may participate in competitive and recreational sports at the hours when students can devote themselves to sports—that is, late afternoon and early evening.

We have greatly improved our academic plant. We have built the Psychology Building, the Wilson Biology Laboratory, the Prince Engineering Laboratory, the Computing Laboratory, the Rockefeller Library, and the

Barus-Holley Building. In 1956 we did not list a building for Geology, but we now have such a strong, young, and venturesome department that we need as soon as possible to provide an adequate laboratory for it. In 1956 we thought that we could solve the space needs of Chemistry with a little addition. We have built the addition, but it does not fulfill the needs. The Department of Mathematics and the Division of Applied Mathematics are housed in temporary structures. These are very strong departments. They need to be housed together so that a growing gap that exists nationally, though less so here, between pure and applied mathematics may be bridged and the whole field reconstituted.

We have one of the best libraries in the country for the sciences, but the collection of the physical sciences and mathematics is temporarily housed in the John Hay and the biological sciences library is very inadequately housed in Arnold Laboratory. We are ready to build a Sciences Library on a site most readily accessible to all our scientific personnel.

The humanities are shabbily housed and their shabbiness is more conspicuous because of the great advance in the housing of the sciences. We must provide modern quarters for these departments, not only for convenience and operational economy, but so that our humanists need not worry during the night that years of work stored in their offices may go up in flames while they sleep at home. Moreover, it is difficult to impress upon students and upon the public that we value the humanities quite as highly as the sciences when we house them so differently.

Brown has a very creative and interesting department of Art. It is presently housed in several inadequate buildings, all of which have been converted from another use.



fine arts

medical center



We have the plans and some of the money for a truly distinguished Art building to be situated to the west of the John Hay, and we are almost ready to begin it.

Medicine at Brown presents a separate problem, however much it is interrelated with all the other disciplines. In the early years of our program of medical education, we have moved more rapidly than we had expected in providing a firm financial base and an adequate plant, but not so rapidly as we should. By the time this report is made public, we shall probably have most, but not all, of the money as well as the plans for the next building in the Bio-Medical complex. We must proceed at once with this project.

In 1956 I wrote that our Faculty Club was important and inadequate. It is just as important today, and more inadequate. It is one of my fondest hopes that the Faculty and the Corporation together will find the funds to build quarters that can provide a good social and intellectual meeting ground for people from diverse disciplines.

Our endowment was inadequate in 1956; it has grown substantially, but it is still inadequate today, and it will quite likely be inadequate a decade from now. We need funds for endowed chairs, for scholarships and fellowships, for the endowment of the library, and for our newly established press. The bequest program and the life-income plan have been providing most of the recent increments to endowment and can be expected to continue to do so, but we must redouble our efforts to secure endowment money.

These are some of the things that need to be done. There are many others. For example, Brown has developed an unusual relationship with the private and public colleges of the State. We could if we and they wished, establish





a more active consortium so that additional facilities would be shared and programs coordinated.

Many years ago we adopted a policy that we would accept as many students as we could adequately provide for. During the past year we have studied the possibility of creating a second campus on our Mount Hope tract in Bristol. By accepting the study committee's conclusions, the Corporation has indicated its belief that Brown can attain the growth and development that we are likely to attain within the foreseeable future on our present site, and need not now develop a second campus. The Mount Hope property will be retained for future educational development and possible uses for the land kept under review.

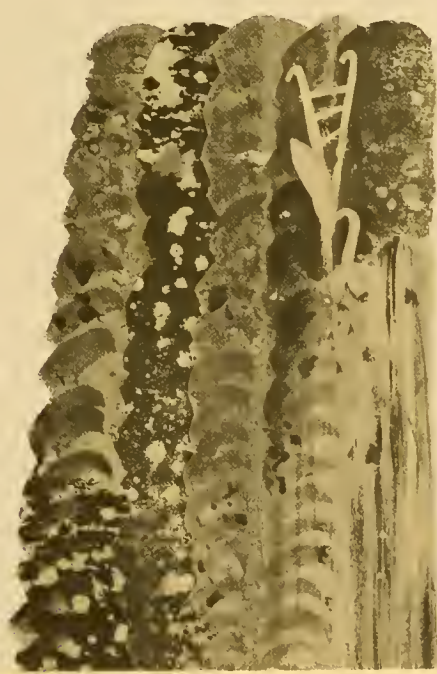
The mission of the university is traditionally regarded as teaching students and, in so doing, developing character and discovering knowledge. Now, as I noted earlier, we are likely to have thrust upon us the task of actively promoting social change and social improvement. We must not make a hasty positive or negative response to this demand.

Some things at Brown need to be changed, but there are important things that do not. One of these is the spirit of freedom, of which the members of this Corporation have been increasingly jealous guardians. Another is the good humor with which we go about our business, even when our interests conflict, and which provides an unusual harmony within the institution and with its neighbors and constituents. A third is the grace with which we carry out our activities, bringing pleasure to native and stranger alike.

In England for about eight centuries, the end of one reign and the beginning of another have been announced

by the seemingly heartless proclamation of the herald: The King is dead! Long live the King! This announcement recognizes a very important truth: namely, that there must be no interregnum, no lapse between one tenure and another; the new term must start on the day that the old king was alive and dead. So it is with Brown: there must be no interregnum; there must be rapid and orderly transition, without loss of momentum or purpose, from one presidency to the next.

Barnaby R. Cheney





BROWN UNIVERSITY

Providence, Rhode Island



The Brown Clubs Report

Activity in New York

PARTY LINES are drawn in New York City for the year's biggest Brown event (see the Annual Dinner story elsewhere), but even the myriad details associated with such mammoth undertakings do not slow down the pace at the Brown Club in New York. Ever since the members' welcome mat was moved from 4 West 43rd St. to 109 East 42nd St., activity at the Clubhouse has been humming like a boot-black's polishing cloth.

Charles E. Hughes '37 and Ward H. Jackson '32 had no more finished fashioning the new Bruin decorative design and helped Executive Secretary Christine M. Dunlap transport and unpack the lars and penates than there were wall-to-wall people on the premises. Almost 200 dropped in for a first look at the neat but not gaudy quarters during the two days of Open House that launched the season. Some of the members danced the night away to the music of a versatile orchestra on the eve of the Princeton game, and between 250 and 300 attended the parties following the Columbia victory and the traditional Christmas Carol sing. John L. Danforth '52, Ward H. Jackson '32, Vincent M. Love '54, Frank C. Prince '56, and David L. Tecklin '54 were the principals in charge.

One aspect of the new alignment that has found ready acceptance is the dining privilege at the City Midday Club at 23 South William St. in lower Manhattan. The distinctive features of this popular luncheon club in the heart of the Wall St. district were introduced to two-score Brunonians at a luncheon sponsored by the Activities Committee, and many members in the downtown area have been using it daily ever since.

Thanks to Jay H. Rossbach, Jr., '43, Club Treasurer, and Weston M. Stuart '27, a Past President, the Club is making constructive use of two indispensable accouterments. The new billing invoices were created and contributed by Rossbach, and the two brown-on-white and white-on-brown ensigns now fluttering in the midtown breezes outside the Commodore Hotel were the gifts of Stuart.

There has been confirmation that the Club's bridge and squash teams are doing something right. With Paul C. Abramson '49 heading up Brown's duplicate players, the Princeton Club was defeated by 540 points, but any thought of an undefeated season was dispelled by the Yale Club, which rolled up a 1,700 point win. The squash contingent, now expanded to a record-breaking 40 players as a result of the capable organizational work of Robert A. Jacobsen '48, continues to compete with variable success against other members of the Metropolitan Squash Racquets Association on the courts of the Columbia Club.

The bi-monthly series of University Luncheons usually terminate at 2 p.m.,

but when P. R. Theibert, Athletic Director, was a guest in December most of his audience remained an extra hour. His graphic description of the contemplated "Olympian Gardens" athletic complex with complete recreational facilities was followed by a candid question-and-answer period.

The combined aspects of youthful spirits and spirit-drinking youths over the Army-Notre Dame football week end resulted in the disappearance of the Brown Club's new 10 x 18 bronze identification plaque. A replica, designed by Charles E. Hughes '37, now adorns the mezzanine wall of the Commodore to remind passing New Yorkers of the local Brown outpost.

Club President John E. Flemming '33 was the official host for the December meeting of the Associated Alumni. This once-a-year meeting away from Providence was well attended by Directors of the parent alumni group and by representatives of the Brown Clubs along the Eastern Seaboard, headed by the Alumni President, Donald Campbell '45.

Non-resident members have been frequent users of the overnight accommodations. Two Trustees, Brackett H. Clark '28 from Rochester, N. Y., and William M. Hunt '40 of Cohasset, Mass., have been among those who have found Lexington Ave. and East 42nd St. convenient headquarters for their Manhattan visits.

A glance at the back cover of this issue provides proof that the Membership Committee, under the direction of Samuel T. Arnold, Jr., '45, is doing everything possible to place the facilities of the New York Clubhouse at the disposal of Brunonians in and out of the New York area. The format was conceived and executed by Lewis C. Cady '59 of Benton & Bowles, Inc., and John L. Danforth '52 of *Newsweek* Magazine.

ROBERT CRONAN '31

R. I.'s Future Events

A BIG SUCCESS deserves a repeat performance, and that's what the Brown Club of Rhode Island has in mind for late April when it will join forces again with the Pembroke Club of Providence in sponsoring the season's second "A Night at the Theater." Although a new event on the Club's agenda, the Dec. 1 "Night" that featured dinner at the University Club and then "Guys and Dolls" at the Faunce House Theater earned a permanent spot on the Club's annual list of social events.

Bernard V. Buonanno '60, who served as Chairman of the December affair, will again head up the committee. The Sock and Buskin play this spring will be the Restoration comedy, "The Country Wife," by William Wycherley. "The couples once more will gather at the University Club prior to climbing the Hill for the presentation," Buonanno said.

Other future events include the annual

Dr. Keeney to the Coast

THREE West Coast meetings of Brunonians are contemplated in February when President Keeney visits Los Angeles, San Francisco, and Seattle. Local mailings will provide information not available when this issue went to press.

Dr. Keeney will arrive in Los Angeles for an evening speaking engagement at U.C.L.A. on Feb. 16. The invitation to be with the Brown Club there is the 17th, with the Pembroke Alumnae Club joining in sponsorship. The plan for San Francisco is for a Brown meeting with the President on Feb. 18, while the Seattle date is tentatively for Feb. 21.

In each case, the affair will include alumni of Brown, alumnae of Pembroke, their spouses, and parents of undergraduates.

Basketball Night, the Old Timers Baseball Day in May, the Annual Dinner on May 10, and the Commencement Pops Concert. Dartmouth's Indians will be in town this year for Basketball Night on Feb. 19. A social hour and dinner at the Faculty Club will set the tone for the evening. Through the cooperation of Athletic Director Dick Theibert, all those attending the Faculty Club affair will be admitted free to the basketball game.

The Old Timers Baseball Day may have a new twist this spring. The Alumni, who defeated the Freshman nine, 3-1, in a three-inning game two years ago, again will cross bats with the Cubs, who this year expect to feature Marty Feller, son of Cleveland Indian Hall-of-Fame hurler, Bob Feller. Chairman Walter Jusczyk is making an effort to have Bob fly in for the occasion and perhaps hurl an inning or work in relief of Earl Nichols, who showed some signs of wear and tear two years back.

Fairfield's Faculty Night

MORE THAN 60 MEMBERS of the Fairfield Brown Club and their guests attended the ninth "Evening with the Faculty," this year on Nov. 28 at the home of Mr. and Mrs. John Black Lee '46 in New Caanan, Conn. Guest speaker from College Hill in this highly interesting and popular series was Prof. Juan Lopez-Morrillas. He posed the question: "Does the literature of a society reflect that society's character?" Then, for the next hour he proceeded to answer the question with a perceptive and fascinating analysis. The informal discussion period that followed lasted nearly two hours, as the audience refused to leave.

Club President Robert A. Fearon '51 later announced that two additional Faculty evenings would be held, one in mid-winter and the other in the spring, in addition to the Club's annual dinner and other events.



THEY WERE SHOWING MOVIES of the Columbia football game at a recent meeting of the Brown Club of Westchester when the film broke and the entire first half of the action spilled onto the floor instead of onto the take-up reel. But the show went on, to the amusement of all at the buffet dinner, including some guests, local schoolboy football players. Afterwards, this happy group posed around the host and erstwhile projectionist, Joy Fidler. Others, clockwise from lower left, are Jim Gordon, Club President; Tom Costello, Vice-President; Bob Litchard, the coach of Freshman football; and Fritz Polard, the former Brown All-American.

South Shore School Night

APPROXIMATELY 40 SUBFRESHMEN were on hand Dec. 7 when the South Shore Brown Club sponsored its annual "Introduction to Brown" program. Club President Albert F. Hunt, Jr., '26, was in charge of the affair, which was held at the M. G. Williams Middle School in Bridgewater, Mass.

The program included short talks by Admission Officer Eric Brown and Alumnae Secretary Doris Stapelton, in addition to movies and slides of the Campus. The Subfreshmen were then divided into groups for question-and-answer sessions with the University officials. At the conclusion of the program, a coffee hour was held, and refreshments were served under the direction of Mrs. Hunt and other ladies of the Club.

Minnesota's Holiday Meeting

THE CHRISTMAS RECEPTION for secondary school students and their parents interested in Brown has become the biggest single event on the Brown Club of Minnesota's crowded calendar. This season's affair was held Dec. 29 at the Minneapolis Club, with invitations going out to many of the promising high school Juniors and Seniors in the area. The film, "An Introduction to Brown," was shown and members of the Admissions Committee were on hand to answer questions from the youngsters. Making the evening even more complete was the appearance of several present undergraduates from College Hill who were home for the holidays. Crane J. Bodine '52 was in charge of the program, assisted by Dr. Henry A. Johnsen, Jr., '45, Chairman of the Admissions Committee.

Earl Battey, star catcher for the pennant-winning Minneapolis Twins, was the Club's guest at the regular December luncheon meeting. He spoke on the high-

lights of the 1965 season and gave a picture of some of the problems facing baseball today. The Club luncheons are held on the third Wednesday of each month at the Normandy Motor Hotel, starting at 12 noon.

Atlanta Elects Weisbecker

PEACHTREE ST. in Atlanta was the scene of the Dec. 2 luncheon-meeting in the Cox-Carlton Hotel at which Admission Officer Robert Seiple was the guest of honor. At that time, Charles Weisbecker, 3rd, '41 was re-elected President of the Club. His officers include Vice-President Glenn Bower '52, Secretary William J. Tingle '62, and Treasurer Vernon H. Chase '28.

A get-together for prospective Subfreshmen, their families, and alumni was scheduled for Dec. 19, with Coach John McLaughry expected to fly in for the affair. Two Atlanta boys, James Culbreth and Mike Elsherry, were on the Cub team last fall, and several other promising football players in the area are interested in attending the College on the Hill.

The Club is investigating the possibility of holding a Glee Club Concert in Atlanta during the group's spring tour. Dr. John B. Lyon, Jr., '54GS is handling negotiations.

The Brown Engineers

CHARLES C. TILLINGHAST, JR., '32, Brown Trustee and President of Trans World Airlines, Inc., will be the featured speaker on Friday, Jan. 21, when the Brown Engineering Association holds its annual dinner at the United Engineering Center, 345 East 47th St., New York City. Elwood E. Leonard, Jr., '51, President of the Association, will serve as Toastmaster.

The program will get under way at 5 p.m., with a tour of the United Engineering Center followed by a social hour.

Dinner will be served at 6:30. Tillinghast will speak on the evolution of future aircraft, through the supersonic transports in the 1970's, with special emphasis on the application of each type to scheduled commercial service.

The price of the dinner, to which ladies are cordially invited, is \$5. Reservations may be made by writing or phoning George Pournaras at 865 Sprague St., Baldwin, L. I., N. Y. (He's with Texaco in New York City, Room 2311, 135 East 42nd St.)

While the evening is particularly designed for members of the Brown Engineering Association, the nature of the Tillinghast talk is of such general interest, all alumni and their ladies are invited to attend. It is the custom to have the Division of Engineering Faculty represented at the head table and on the speaking program.

Philadelphia Subfreshmen

MORE THAN 40 SENIORS from high schools and prep schools in the Philadelphia area attended a recent meeting held at the home of Brown Club President Eugene P. Swift '42. Also on hand were several Freshmen from the Hill, who did a fine job of answering questions from the audience for nearly two hours. The Cub delegation included: Jeffrey C. Carter, H. Theodore Cohen, John Osterling, Peter E. Swift, Robert A. Yost, and Robert Rothstein.

Representing Brown

THE OFFICE of the Secretary has provided a further list of alumni who represented the University at ceremonial affairs at other institutions during recent months:

Dr. Howard B. Lyman '42, at the inauguration of Philip R. Shriver as President of Miami University, Oxford, O., Oct. 14. Dr. Lyman is Associate Professor of Psychology at the University of Cincinnati.

Dr. Richard W. Tyler, Ph.D. '46, at the inauguration of Leland Eldridge Traywick as President of the University of Omaha, Oct. 15. Dr. Tyler is Professor of Romance Languages at the University of Nebraska.

Dr. Lorimer D. Milton '20, at the Centennial Convocation at Atlanta University, Oct. 17. Dr. Milton, Atlanta banker, received an honorary LL.D. at Brown last June.

Dr. Andrew M. Rauth '58, at the installation of Omond McKillip Solandt as Chancellor of the University of Toronto, Oct. 20. Dr. Rauth is in the Department of Physics, Ontario Cancer Institute.

Alfred S. Bloomingdale '39, at the inauguration of Richard Carleton Gilman as President of Occidental College, Oct. 25. Bloomingdale, President of the Diners' Club, is a Brown Trustee.

Dr. Thomas H. Patten, Jr., '53, at the inauguration of William Rea Keast as President of Wayne State University, Oct. 28. Dr. Patten, Professor of Management and Sociology at the University of Detroit, is an officer of the Brown Club of Michigan.

No one thought they had a chance, but—

The “Unbelievable” Upset

THE PROVIDENCE BULLETIN headline termed the victory “unbelievable.” It was all of that. The reference was to Brown’s 76-70 upset of one of the most highly-rated University of Rhode Island basketball teams in the long and colorful history of the sport on the Kingston campus.

In contrast to the 1930’s and ’40’s, when the crowds would jam Marvel Gym for the annual appearance of the Rams, only about 1,200 fans were on hand to witness one of Brown’s finest basketball victories in many a year. And the vast majority of the fans were strong Rhode Island supporters.

The fact of the matter is that hardly anyone expected the undermanned Bruins to stay in contention with the Rams. True, Brown had won two of its first three, but Rhode Island was undefeated. And Brown was operating without Dave Gale, 6-6 Junior forward, who injured his ankle in practice the day after the opening game with Wesleyan. Also, Alan Fishman, brilliant Junior backcourt operator, had jammed his shooting hand at Colby and wasn’t expected to operate at full efficiency.

Coach Ernie Calverley’s warning from Kingston that URI never had an easy game at Marvel Gym was taken with a grain of salt by most, despite the fact that the records backed him up. Over the past 37 years, the Rams had compiled a 46-25 margin in their annual series with Brown. However, in games at Marvel Gym the edge was only 19-18.

“We’re anticipating a tough game,” Calverley predicted, but everyone chuckled. For wasn’t this the Brown team that was picked for eighth place in the Ivy League facing a team the experts predicted might finally end the long Providence College dominance of New England basketball?

The crowd looked on in disbelief as the Bruins took the initiative at the start and led all the way, by as many as 12 points at one stage. The Rams never quit trying, but each time they put on a spurt and their howling fans sensed the expected kill, the Bears came up with a big play. With 3:41 to play, for example, Rhody pulled to within two points, but Brown’s Steve Sigur, 6-6 Sophomore from Atlanta, went down the lane for a two-pointer, and Rick Landau, 5-8 Sophomore guard, put in both shots on a one-and-one situation to ease the pressure.

Fishman, the 5-8 guard who had averaged 20 points in his team’s first three games, was amazing. He not only hit the 20-point figure again, but he almost completely controlled the tempo of the game with his playmaking on offense and his dogged defensive play. As a Junior, Fish-

man has matured into one of the finest guards in Brown’s history.

Sigur, who admittedly has more desire than ability at this stage of his development, was put into the lineup by Coach Ward to replace Gale and beef up the team. He contributed 16 points, eight rebounds, and continually blocked and cluttered up the traffic lanes around the defensive boards. Landau and Greg Donaldson, another Sophomore, had 11 and nine points, respectively. Steve Kadison and Shawn Smith threw in some key baskets late in the game, while Captain Don Tarr snared 13 rebounds and was a tiger on both boards for the full 40 minutes.

Tarr opened the scoring for the night, and the Bears went on to hit on 10 of their first 16 shots in forging a 12-point lead. For the half, Brown had a 53% shooting average and had built up a 43-37 advantage. But, more important than the shooting was the defense. Coach Ward had his team alternately playing a full-court man-to-man defense and then a combination zone with man-to-man principles. This strategy confused the Rams and obviously upset their timing and play-patterns. It was a masterful job of coaching by Ward, who continually gets just a little bit more out of his material than is there.

“There were only 10 people who believed we could do it,” Ward said after the game. “Those nine kids and I. The boys deserved the victory. They played beautiful ball and beat a great team.” Harold Rich of the *Providence Journal* called it “one of the most inspired performances” he’d ever seen by a Brown quintet. “Incredibly,” he said, “the Bruins pulled off the caper by outshooting for most of the game one of the best groups of marksmen in the nation’s collegiate ranks.” Rich,

too, credited the defense with turning the trick in the upset.

The Bruins, of whom so little was expected, opened the season with a convincing 75-54 victory over Wesleyan at Marvel Gym. Fishman paced the scorers with 23 points, while Donaldson and Tarr each had 10. Then, on a week-end trip, the Bruins defeated Brandeis, 80-72, but dropped a 73-67 decision to Colby. Fishman had 21 against the Judges and 17 in the Colby game.

Following the Rhode Island heroics, Brown again took to the road and defeated a very fine Springfield team, 67-66, on a 30-foot jump shot by Kadison with two seconds to play. This shot by the 6-1 Senior from Highland Park, Ill., climaxed an uphill fight for the Bruins, who trailed at halftime, 37-32. There were six ties in the final 13 minutes until the Gymnasts pulled ahead with 30 seconds left. However, the Bears kept their poise, waited for the good shot, and finally fed Kadison for the two-handed bomb that spelled victory. Tarr had 20 points for the night and Fishman 15.

At this point, the Bruins were sporting a 4-1 record. However, the bubble burst in the next two games, with the team bowing at home to Yale, 66-51, and to Rhode Island in the return game at Kingston, 87-61. The Elis threw up a zone defense against the Bears, limiting to an extent Fishman’s ability to control the game. The Bruins moved the ball well and played sound defense but just couldn’t hit the hoop—a complete reversal of the form shown against URI.

Gale, an excellent shot from the corner, would have helped Brown’s efforts to break the zone, had he been able to play. Fishman had to leave the game in the second half when he aggravated the earlier injury. The next day, x-rays showed a hairline fracture, and the hand was placed in a cast. Without their playmaker, the Bruins were never in contention when Rhode Island had its revenge at Keaney Gym.

The Freshman team split its first six games. Victories came at the expense of Springfield, 82-58, and two Navy teams, Crueslant, 83-54, and Quonset, 80-53. The losses were to Wesleyan, 68-51, and to Rhode Island twice, 78-54 and 83-76.

Hockey: Still in the running

CAPT. BRUCE DARLING of Sudbury, Ont., paced the Ivy League in scoring as a Sophomore and repeated last winter. He also started the current hockey campaign with a career total of 79 points. Yet, in the first five games the Darling touch was missing. The speedy wing had two goals to show for his offensive efforts, and the Bruins were struggling with a 3-2 record.

During this spell, Brown defeated Eastern Olympic Club, 3-2, Northeastern, 8-3, Colby, 3-1, and lost to Boston College, 3-0, and Princeton, 6-5. The loss at Princeton was a real shocker and dealt a severe blow to Brown’s hopes for a second straight Ivy title. Things looked even darker the next week when the Bruins

trailed Harvard, 3-2, at Meehan with only 1:56 to play. A second successive loss in the League would have been crippling.

That’s when Captain Darling reverted to his old form. Coming from the Brown end. All-American defenseman Bob Gaudreau hit Sophomore Wayne Small with a lead pass, and the latter got a two-on-one jump with Darling. In the Crimson zone, Small fed the puck back to Darling on the right, and the Bruin leader fired home a whistling 10-footer as he cut into the middle. That tied the score.

Then, with time fast running out in the 10-minute sudden death overtime, Junior center Dennis Macks broke out of his own zone after a scramble for a loose puck just

inside the blue line. Macks outraced the field, went in all alone, but Crimson goalie Bill Fitzsimmons came up with a spectacular save. The puck dribbled loose and Darling, sweeping down ice to follow-up the play, banged it home from in close. The time was 9:09.

On Saturday night of the same week, Brown was host to a good Providence College team that had upended Princeton the night before, 5-4. It was a tough game, but Darling again proved the difference as he scored the second and third goals in the 3-1 victory. He had obviously regained his touch, and Coach Jim Fullerton was able to look ahead to the post-holiday play with somewhat more confidence.

As predicted in our last issue, this year's Brown team is not as powerful or cohesive as last season's Ivy champ and Eastern runner-up. The presence of eight Sophomores in the lineup is bound to have its effect in the over-all play. There is also a problem at defense, with veteran Jerry Boyle playing with a bad knee and Sophomore Tom Coakley still learning the tricks of the trade.

However, the Bruins are a hustling, fast-skating team that loves to play the game. The Sophomore influence may be a factor here. In mid-November, Coach Fullerton predicted that by February he would have a pretty fair team. His prediction could come true, although early indications were that Cornell might have too much strength for the rest of the League.

The Bruins supplied an early-season shocker by defeating favored Northeastern, 8-3, on their Boston ice. The Huskies had been rated several notches above Brown in the pre-season ratings, and the victory, coming in the Boston Arena, was a big one for the Bears. An All-American Senior, Gaudreau, and a highly promising Sophomore, Small, paced the Bruins, each scoring two goals.

After taking its first three games, Brown ran into a fine Boston College team and suffered a 3-0 loss. The Eagles, rated number one in New England at the time, scored once in the second period and then broke open the game with two quick third-period tallies.

Brown's 6-5 defeat at Tigertown came after the Bears had built up a 4-1 first-period lead. The Tigers knotted the count, 4-4, in the second period and then moved ahead, 6-4, in the final stanza before Brown closed the gap with a late-game goal. Defensive mistakes were costly, and Coach Fullerton sent his men back to the fundamentals in subsequent practice sessions.

After six games (in the victories over the Eastern Olympics and St. Nick's, the records don't count), Gaudreau paced the team in scoring with 10 points on three goals and seven assists. He was trailed by Small (5-4-9), Macks (2-5-7), Darling (6-1-7), Sophomore Bill McSween (2-4-6), and Sophomore John Hoyer (1-3-4).

The Cubs, short on material this season, won one of their first five, a 5-2 decision over Providence College. In other action, the first-year men lost to Northeastern, 6-2, Boston College, 3-2, Princeton, 5-2, and Harvard, 9-2.

An Impressive Track Win

IN ITS ONLY APPEARANCE before the holidays, Coach Ivan Fuqua's track team defeated Boston University, 67-42, at the Moses Brown Field House. Two field house records were set in the process.

In the pole vault, Les Jones added six inches to the old mark with the bar at 13 feet, and Bill Kinsella, Senior, lowered the two-mile time by 11 seconds as he took the event in 9:16.2. The Bruins won nine of 13 events in winning handily against the Terriers.

The Cubs had an easier time, taking 10 events and winning by an 83-26 score. Among the impressive winners were Jack McMahon with a 5-10 in the high jump, Jim Kelleher with a 21-2¼ in the broad jump, Tom Lemire with a 6.2 in the 45-yard high hurdles, George Lisher with a 5.7 in the 50-yard dash, Don Humphrey with a 4:25.4 in the mile, and Don Armour, who did the two-mile in 9:38.2.

Just One for the Swimmers

COACH JOE WATMOUGH's swimmers won one of the first three meets, posting a 53-42 victory over Holy Cross after dropping decisions to Southern Connecticut, 63-32, and Princeton, 74-21. At the holiday break, the Cubs were 2-1, with victories over Cranston West, 53-38, and Boston Latin, 49-44, and a loss to Southern Connecticut, 58-36.

In recent years, Southern Connecticut has become a New England power in swimming. This year's team, another good one, handled the Bruins with relative ease, winning the first four events before Larry Rhoades came through for the Bears in the diving. Butch Wilder, with a 2:33.2 clocking in the 200 breaststroke, was the only other individual winner for Brown. The Bruins were operating without the services of Co-Capt. Dave Prior, an excellent man in the freestyle distance events who was sidelined with the flu.

When Coach Joe Watmough and his men arrived at Princeton they were informed by a reporter that this was the Tigers' strongest swimming team ever. The meet appeared to confirm these reports, with Princeton posting a sweep. Wilder managed to earn a second in the breaststroke and the 500, where he was a sub for Prior, while Rhoades and Paul Kinloch had seconds in the diving and backstroke, respectively.

The Bears broke into the victory column by dunking Holy Cross at Colgate Hoyt Pool, 53-42, taking firsts in seven of 11 events in the process. Top performances for the Bears were by Dick Emery, who captured the 100-yard freestyle in a fast 52.8, and Rhoades in the diving. Wilder took the breaststroke in 2:32.5.

Two outstanding prospects paced the Cubs in their opening meets, Vance Salter of Pasadena, Calif., and Scott Stokes, an All-American swimmer out of New Trier High in Winnetka, Ill. Salter, who specializes in the 100-yard backstroke, had a 1:03.0 and Stokes a 1:07.1 in the 100-yard breaststroke, both against Boston Latin. Both men also compete on the 160-meter medley team.

Sports Shorts

THERE WILL BE one change in the 1966 football schedule as listed in this magazine last month. The game with Columbia on Nov. 19 has been shifted from Providence to New York. Athletic Director Dick Theibert made the request to Columbia officials in order to have a game in the Metropolitan area for Brown alumni next season. This move will still leave the Bruins with five home games in 1966—Rhode Island, Penn, Colgate, Princeton, and Cornell.

The revised Ivy schedule, on closer scrutiny, showed considerable imbalance in the travel of the Bears. As originally proposed, it meant one year when Columbia, Penn, Cornell, and Princeton were all played away from home; the next year the away games were all to be in New England—Harvard, Yale, and Dartmouth, with no appearance in New York, New Jersey, or Pennsylvania. The shift of the Columbia game will not only be attractive to the alumni in the region but ease the lopsided nature of the travel budget.

For the fall season, Brown Varsity teams had an over-all 16-10-1 record, while the Cubs were 16-6. On the Varsity level, the 11-0-1 soccer record paced the field, with cross country 3-3 and football 2-7. The booters also led the way on the Freshman level with a 10-0 mark. Cross country and football cancelled each other out with the former being 5-1 and the latter 1-5. Taking just Ivy competition, the Varsity and Freshman overall records were 10-7 and 6-3, respectively. At the Varsity level, soccer was 7-0 and cross country 2-1. For the Cubs the same two sports were 2-0 and 3-0.

Capt. Bruce Darling of Sudbury, Ont., went into the current hockey season with a chance to crack into the list of Brown's all-time scoring leaders. Don Sennott '52 paces the pack with 152 points, followed by Bobby Wheeler '52 (143), Leon Bryant '65 (130), Terry Chapman '65 (127), Dan Keefe '55 (109), Rod Dashnaw '58 (103), Pete Tutless '56 (95), and Dave Kelly '60 (95). Darling had 79 points in his first two Varsity seasons and the two-time Ivy League scoring champion could move as high as number five with a good season.

Robert S. Holding '14, President of the Brown Rowing Association, has presented crew with a very generous gift, the results of which will be two new racing shells, one a Stampfli (Swiss) eight and the other a standard Pocock eight.

Something new, weight-lifting, has been added to the training routine for Brown's Varsity and Freshman crew candidates this winter. In addition to roadwork up and down the steeper hills on the East Side of Providence, the men will work out with the weights three times a week, 20 to 25 minutes at a time, in the basement of the coaches' office building at Aldrich-Dexter Field. The purpose is to have the Bruins in shape to go all out when rowing begins again in February.

Coach Vic Michalson has been elected President of the Eastern Association of Rowing Coaches.

WYNN JESSUP, defensive halfback from Narbeth, Pa., and Terry Boyle, offensive center and defensive linebacker from Garfield, N. J., were elected Co-Captains of the 1966 football team at the 2nd Annual Football Association Dinner held Dec. 2. Special awards went to two Seniors: quarterback Bob Hall of Walpole, Mass., and left defensive back Bill Peters of Middletown, R. I. Hall received the Association's Special Achievement Award, while Peters was awarded the Brown Club of Rhode Island's War Memorial Trophy.

Jessup, a 6-0, 190-pounder, was an outstanding hurdler in track as a schoolboy, winning the Pennsylvania State high hurdles title. He played quarterback on the Cub team but switched to defensive right half last year. However, he broke his finger after one game and missed most of the season. He came into his own in 1965, turning in outstanding defensive performances week after week. It was his key block that broke Tom Whidden open on his 50-yard touchdown scamper with an intercepted pass against Dartmouth. Boyle, a 6-0, 200-pounder, was a steady performer on both offense and defense for Coach John McLaughry's team the past two years.

The award received by Hall was the first of its kind presented by the Football Association. President Joseph Buonanno '34 says: "From time to time the Association will make an award to a Varsity football player doing something extra special."

Chosen by the football lettermen



THEY'LL LEAD the 1966 Brown football Varsity as Co-Captains: Wynn Jessup, center, and Terry Boyle with their coach, John McLaughry.



JOSEPH BUONANNO had a special award to make to Bob Hall, acting for the Brown Football Association at its annual dinner on Dec. 2.

Hall's performance during the 1965 grid-iron campaign certainly was "extra special."

Peters received the War Memorial Trophy from Brown Club President Edward Bromage, Jr., '27. The award is given annually "to that member of the Varsity football squad who through sportsmanship, performance, and influence has contributed most to the sport at Brown." Peters was the team's regular defensive halfback for three years, during which time he earned the reputation of being one of the finest open-field tacklers in the Ivy League.

Don Colo '50, a star tackle on the Hill in the Rip Engle glory years and later Captain and defensive tackle for the Cleveland Browns of the NFL, was the featured speaker at the dinner. He lauded Ivy League football as "the best combination of athletic and scholastic endeavor in the country today." He said further that he feels that Brown will "attract more good athletes from all over the country in the decades ahead."

Coach McLaughry said of his 1965 team, "Of all the clubs I've coached, and there have been about 20 of them, I have greater regard for this one than any other." The Coach presented gold tie-clips to the 14 Seniors on the team. All of the members of the squad received steins and key chains. The former were gifts of Roland



BILL PETERS received the War Memorial Trophy of the Rhode Island Brown Club from its President, Edward Bromage, Jr., at the football dinner.

Formidoni '29 and the latter of Fred H. Barrows '55.

Co-Capt. Rich O'Toole presented on behalf of the squad a large photo of the team to William Broomhead '33, continuing a tradition of many years. While the Broomhead family had been host at football dinners for better than 40 years, Bill and his brother Lloyd '49 agreed to give up their dinners in favor of the Association event.

Paul Mackesey '32 served as toastmaster in his usual capable fashion.

Three Bruins were named to the Coaches' All-Ivy football team, with three others gaining honorable mention. Named to the first team were quarterback Bob

Hall, middle linebacker Terry Zerngast, and punter Joe Randall. Receiving honorable mention were end Rich O'Toole, middle guard Ackley Blocher, and center Terry Boyle. The Associated Press All-Ivy had Hall and Zerngast on the first team and gave honorable mention to O'Toole and John Olson at end, Neill Anderson at guard, Clark Hopson at center, John Hutchinson and Bill Carr at halfback, and left linebacker Tom Whidden. Zerngast received an additional honor when he was named to the Eastern College Athletic Conference's university division team. He had been named to the ECAC weekly team three times.

In tribute to some champions

FRANK GOLET of Moodus, Conn., and Dave Chichester of Baldwin, N. Y., were elected Co-Captains of the 1966 soccer team before a dinner held in Sharpe Refectory Dec. 16 in honor of the 1965 Ivy League champions. The affair was sponsored jointly by the Associated Alumni and the Brown Club of Rhode Island.

Golet was a member of the forward line on the team that averaged 3.4 goals per game while posting an over-all 11-0-1 record and winning the Ivy title with a perfect 7-0 slate. Coach Cliff Stevenson has called Golet the best man in New England for placing corner kicks on the cage. Chichester, who came to Brown hoping to become a basketball player, had an excellent season in the nets, allowing only 10 goals in 12 games and pinning shutouts on Akron, Dartmouth, Rhode Island, Princeton, and Columbia.

President Keeney paid tribute to Stevenson. "Watching you coach was a great pleasure," he said. "And watching the people you have coached was an even greater pleasure."

Athletic Director Dick Theibert presented to Stevenson and his team the James E. Sampson Trophy, emblematic of the New England Intercollegiate Soccer League championship, and the Ivy League Trophy. Co-Captains John Krupski, All-Ivy fullback, and Phil Maguire presented to Coach Stevenson a handsome plaque as a memento of the season. It had the names of the players and game results on the facing. Each member of the squad was the recipient of several awards, including the Ivy championship medal.

Krupski received the Brown Alumni Award, which is given to the team member who through "sportsmanship, performance,

and influence contributed most to the sport at Brown." Eben S. Church, Jr., '40, President of the Brown Soccer Association, made the presentation.

Sam Fletcher, former soccer coach, Donald Campbell '45, President of the Associated Alumni, and Edward Bromage, Jr., '27, President of the Brown Club of Rhode Island, were introduced by Dr. Walter J. Schnerr, Professor of Romance Languages, who served as toastmaster. When Fletcher was cited as having coached at Brown for 20 years, he called out a correction: "21 years!"

A Wrap-up on the Season

While Krupski was the only Brown player named to the All-Ivy soccer team selected by the League's coaches, five other Bruins were named to the second team, giving Brown six of the top 22 places. On this second unit were Frank Forsberg at right fullback, Pat Migliore at center halfback, Tom Niederer at center halfback, Vic DeJong at outside left, and Bo Wernersbach at outside right.

Two Sophomores, Mark DeTora and DeJong, battled it out for the season's scoring honors with the soccer team. During the regular campaign, DeTora had 15 points on 12 goals and three assists, while DeJong was second with 14 points on three goals and 11 assists. Other scorers for the Bruins were Wernersbach (7-5-12), Golet (3-7-10), Maguire (5-1-6), Migliore (0-5-5), Jesse Jupiter (2-2-4), Vic Emerson (1-1-2), John Claffin (1-1-2), Forsberg (0-2-2), Art Mathews (1-0-1), Bob Higginbottom (0-1-1), and Ed Zaglio (0-1-1). In the two NCAA play-off games, DeJong had three points, all on assists. Maguire and Golet each had two points and DeTora one. However, post-season games are not included in the official Brown scoring statistics.

Dick Biehl led the undefeated Freshman team in scoring with 13 goals and two assists for 15 points. He was followed by Dennis Colacicco (7-6-13), George Gerdt (6-5-11), Larry Morin (7-3-10), Craig Keats (4-3-7), and Donald Smith (3-4-7). In addition to the men mentioned above, Coach Mike Healy expects the Varsity to get immediate help from halfbacks Bill Bergantz and Bill Brewster and goalie Bill Hager. The latter player moved from the soccer field to the basketball court as soon as the booters concluded their campaign and immediately won himself a starting position on the Cub five at guard.

Brown jumped from fifth to third in the composite Ivy League soccer standings, 1956-1965, as a result of its 7-0 season. A year ago the Bruins trailed Harvard, Princeton, Penn., and Yale; now only the Crimson and the Quakers top Coach Cliff Stevenson's men. The composite standings: Harvard (42 victories, 19 defeats, five ties for 89 points), Penn (35-23-8-78), Brown (34-28-4-72), Yale (32-27-7-71), Princeton (32-28-6-70), Dartmouth (27-38-1-55), Cornell (22-36-10-54), and Columbia (8-31-3-19). The Lions have been in the League only since 1960.

The first soccer game was played on College Hill in 1925. Over the years, the Bears have a record of 151 victories, 165 defeats, and 35 ties. The only undefeated

team prior to 1965 was the 1936 club with a 7-0-3 mark. Other strong teams were fielded in 1934 (6-1-1), 1937 (8-1-2), and 1963 (11-2-1). William Margeson '37 and Alan Young '64 share the record for most goals in a single season with 15. Young also shares with H. L. Thompson '42 the record for most goals in one game—five. And in career scoring, Young paces the field with 32 goals, followed by Ambrose Murray '36 (25), Margeson (19), and Bill Hooks '65 (17).

In addition to doing graduate work on the Hill and coaching the Freshman basketball team, Young has been playing soccer since September for the Bristol Sports of the New England League. He scored the winning goal in several games and is one of the team's leading scorers and one of the fans' favorite players. With the conclusion of Brown's season, Krupski and Wernersbach joined Young on the Bristol team.

Pro Contract for Hall

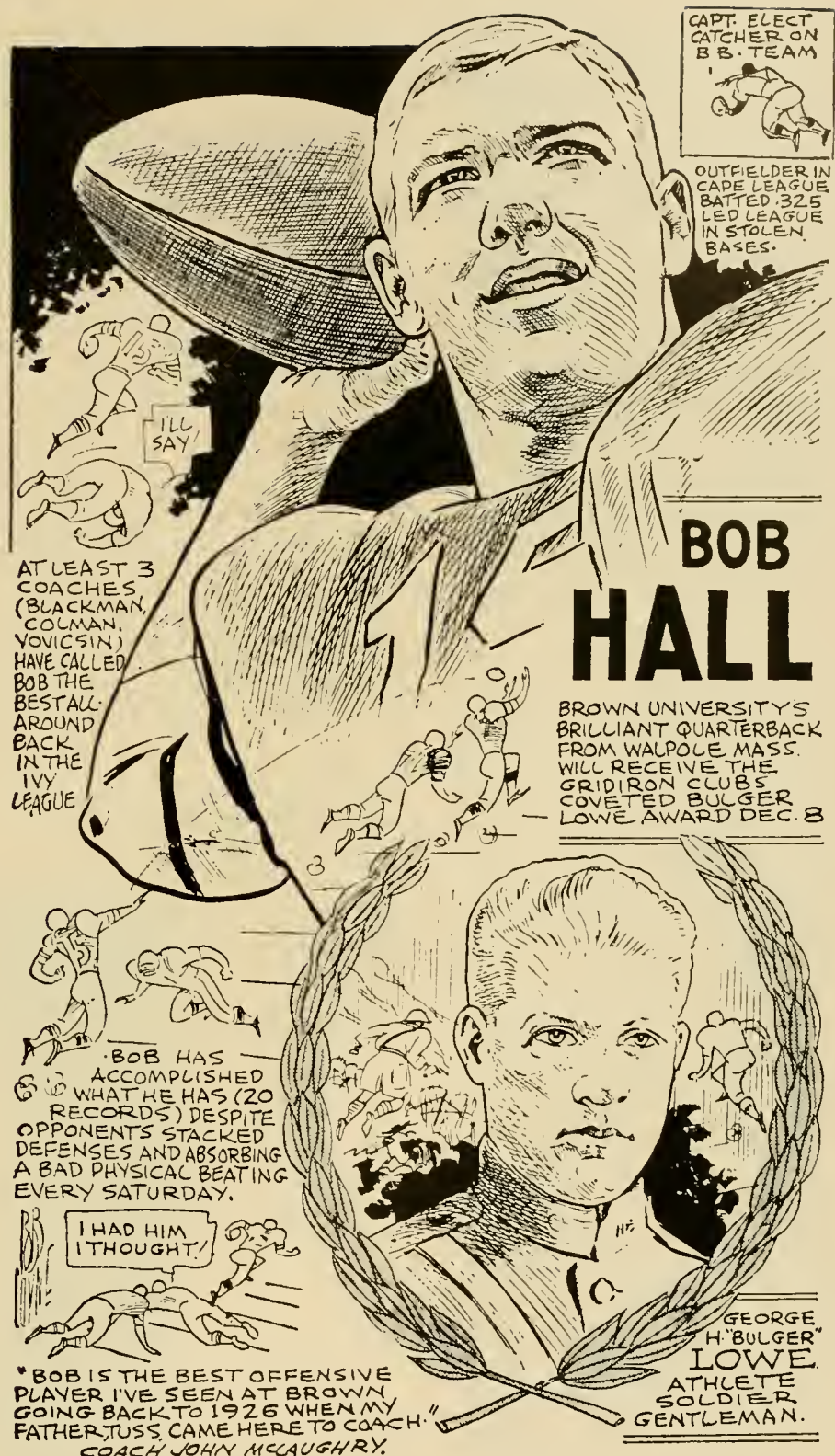
BOB HALL, a unanimous selection as All-Ivy League quarterback and holder of 15 Brown and five Ivy records, became the first Bruin to sign a pro football contract in 15 years when the Minnesota Vikings of the National Football League succeeded in getting his name on the dotted line in December. Hall had been the fifth draft choice of the Vikings and the 12th pick of the Boston Patriots of the AFL. The Detroit Tigers baseball club also had expressed an interest in signing him.

Don Colo '50, former defensive captain and All-Pro tackle for the Cleveland Browns, was the last Bear to compete in the NFL. Earlier, Bob Margarita '44 of the Chicago Bears made the All-Pro backfield in 1945 with Sammy Baugh, Bob Waterfield, and Steve Van Buren.

Although Hall starred as an offensive player in college, the Vikings plan to use him mainly as a defensive back, being well fixed in the quarterback spot with Fran Tarkenton there. The Vikings were exceptionally weak in the defensive secondary during the 1965 campaign. The 6-1, 190-pound Hall hasn't played defense since his Freshman year on College Hill, when he intercepted seven passes in six games and showed fine moves at his safety position. Coach John McLaughry is high on Hall's chances. "He has the size, competitive desire, agility, and especially the quick reactions needed to play the secondary in that tough league," he said.

The Vikings reported that Hall had been given a "good bonus" for signing but did not disclose the exact figure. Hall hesitated somewhat before signing as a pro because that action means he won't be able to play baseball this spring for Brown. He was Captain-elect of the Bruin nine. Upon his return from Minnesota, one of the first things he did was to make a trip to Marvel Gym to inform baseball coach Stan Ward of his decision.

While the fall of 1965 was one that Hall will never forget, with honors coming from all directions, he admits that he derived his greatest pleasure from being named winner of the George Bulger Lowe Award as New



BOB COYNE'S "Hall of Fame" in the Boston Record American saluted Bob Hall.

England's outstanding college football player of the year on Dec. 8. Hall thus became the second Bruin to win the award since it was established in 1939 by the Gridiron Club of Boston to honor the memory of a former Fordham star. Brown's first winner was Frank Finney '59,

also a quarterback, many of whose records were shattered during the '65 campaign.

Final national statistics revealed that Hall was 10th in the country in total offense with 1,897 yards for nine games. In passing, Hall finished eighth nationally with 135 completions for 1,340 yards.

Brunonians Far and Near

EDITED BY JAY BARRY '50

1893

DANIEL HOWARD, who was 101 on Dec. 15, celebrated his birthday by enrolling in Medicare. The U.S. Social Security Department's Hartford office reported that Howard was the oldest person in the State to enroll for Medicare and might well be the oldest in the nation.

1899

A doctoral candidate at the University of Michigan is writing his dissertation on the late George B. Utley. Any information about the famous Librarian of the Newberry Library would be welcomed by Virgil F. Massman, 118 Willow St., Vermillion, S. D. 57069.

1901

Now that the football season is safely tucked into the record books, a reminiscence is in order. The Class of '01 used to boast that during the four years at Brown we had more members on the athletic teams than any other Class. One game we all remember we were playing Harvard at Cambridge. We had the ball on the five-yard line. As was the case in the game played here this fall, all plays had failed, and it was fourth down. Then we called time, and the team concocted a play the coach had never seen before or afterward. We made the touchdown. Too bad history did not repeat itself.

1907

Report from Santa Barbara is that Myron S. Curtis is making a steady comeback after his long illness. His resolute outlook is an example for all of us to admire.

Dr. Harold L. Brown writes that his son Jack (Jonathan W.) '40, now on active military duty in France, will retire next June with permanent rank of Lt. Colonel. A daughter is coming home to enter college; the rest of the family will stay in France for a while. Our classmate and his wife are living at 2037 Palomas Dr., N.E., Albuquerque, N. M. 87110.

William P. Burnham, bird watcher as well as a gardener, noted at November's end that all migrant birds in and about Boothbay Harbor had left for the South. His post card, in color, showed an oriole, the likes of which never played in Baltimore.

John L. Curran, who is Honorary President of the Rhode Island Wildlife Federation, presented an award to Lewis E. Dickinson, President of the Audubon Society at a recent dinner.

1911

When Mr. and Mrs. Wendell S. Brown celebrated their 50th wedding anniversary, they could be proud of their eight children and 26 grandchildren.

1912

Wiley H. Marble has been transferred to the V.A. Hospital, Bronx, N. Y., where he is undergoing X-ray treatment for his bad hip. As a man who played in the same backfield with William E. Sprackling, perhaps Brown's finest quarterback of all time, Wiley was especially interested in the exploits of this year's sensation on College Hill—Bob Hall.

1918

Zenas R. Bliss, retired Brown University Provost, has been elected Executive Secretary of the special Rhode Island State Commission on Education. He had been serving on an acting basis since the death last fall of the previous Executive Secretary, classmate C. Raymond Adams. The agency, with an office at 1416 Industrial Bank Building, Providence, is concerned with facilities for higher education.

1919

H. George Harris has been appointed Director of Communications for Tyrex,

Inc., New York, the association of rayon tire cord producers. He had been Director of Advertising and Sales Promotion since June, 1963. Before that he represented the association and its predecessor organization, the American Rayon Institute, Inc., as technical and promotional consultant.

William H. Edwards, Providence attorney, has been named Chairman of the 1965 committee of selection for the Rhodes Scholarship in Rhode Island, on which Dr. Marshall N. Fulton is also serving. In December, Edwards was elected Secretary of the corporation of the newly-formed Providence Off-Street Parking, Inc.

1920

Walter Hoving's son, Dr. Thomas P. F. Hoving, has been appointed by Mayor John Lindsay as curator of Medieval Art at the Metropolitan Museum in New York City. Dr. Hoving worked closely with Lindsay during his campaign and wrote the Lindsay paper on parks.

1922

This month we have news from two golfing classmates—Brad Oxnard and Col. A. J. Regnier. Although Brad has eased up a bit, he still finds time from Hornblower & Weeks—Hemphill, Noyes for some tournament participation. This past season he competed in the U.S.G.A. Senior, Fox Chapel (Pittsburgh), and the North & South Senior at Pinehurst, among others.

Away across the country, the Colonel,



101 YEARS OLD:
Brown's oldest
living graduate,
Daniel Howard '93,
was hailed by his
fellow Brunonians
on his birthday.

who departed College Hill in 1920 in favor of West Point, plays in a great many Western senior matches when he is not traveling somewhere around the world. This winter, he is on a tour of Australia, New Zealand, and Polynesia. Our much-decorated classmate, now on the retired list, saw much action in both World Wars and now, when golf or travel permits, busies himself as Trustee of several estates. When he and Mrs. Regnier are at home their address is P.O. Box 3023, Ventura, Calif.

William B. Prentiss is recovering nicely from his recent illness and considers himself most fortunate. Retired from his Rhode Island insurance business, which he has turned over to his son, Bill stays active in the affairs of the Beneficent Congregational Church and the Beneficent Society. He also pursues his hobby of horticulture, both at home and in Maine, where he has a small operation in blueberries going for him. His Cranston address is 132 Armington St.

1923

R. E. Soderback has a new address: 206 Baker St., Providence. He continues as Superintendent of Public Buildings for the City, working out of City Hall.

William B. McCormick made a good recovery, on schedule, from a recent operation.

1926

Reunion plans promise a good week end for the 40th reunion, June 3-6, Chairman H. Cushman Anthony reports. Some details were to be pinned down at a meeting of his committee scheduled for Jan. 6.

For a starter on Friday night of the Commencement season, Mr. and Mrs. Joseph W. Ress will once again be hosts to the Class at a cocktail party at their home, 486 Cole Ave., Providence. This is preliminary to the Alumni Dinner in Sharpe Refectory, and the later hours will find '26 with a cluster of tables at the Campus Dance.

Saturday's program permits a morning of rambling and attendance at the "Hour with the Faculty." Luncheon will be catered Class buffet at Aldrich-Dexter Field, the site of the Field Day. During the afternoon, buses will take the men and women to Newport, where a tour of local attractions is being set up. At the Class Dinner, following cocktails, Dean Robert O. Schulze will be the guest and speaker.

While Sunday is officially a day without Class events scheduled, it is expected that many will be interested in the Baccalaureate Service and President's Reception, with the Procession and Commencement Luncheon winding things up on Monday.

R. Franklin Weller retired at the end of December as Manager of the Trade Development Department of the Greater Providence Chamber of Commerce. He joined the Chamber in 1947 as Assistant Manager of the Retail Trade Board, was made Secretary of the Board in 1954, and was named to his most recent post in 1960. He continues to serve as a member of the Rhode Island State Commission Against Discrimination.

1929

Claude L. Belknap, Vice-President, Tax Department, celebrated his 35th anniversary with the Rhode Island Hospital Trust Bank in December.

Paul Johnson of Providence is Chairman of the Peace Corps parents' group. He has a son and daughter-in-law serving in El Salvador.

Cantor & Company of Lowell, Mass., headed by our classmate, James Cantor, celebrated its 44th year in the insurance business last November.

1930

Aaron Roitman has been named a member of the Corporation of Providence Off-Street Parking, Inc., a newly-formed non-profit organization created to sponsor construction of the Majestic Shoppers' Garage.

Harry Taylor's son George continues successful in tennis and was recently a finalist in the U.S. L.T.A. National Boys' Indoor Tennis Championship. Harry speaks gratefully of the hospitality accorded in St. Louis by Ted Simmons '60, former Brown tennis Captain. In doubles, George Taylor was a winner in several tourneys last summer, including the Eastern Men's Clay Courts Doubles at Philadelphia. He also won the Texas and New York junior titles.

1931

Kenneth F. Dietz asks that his Brown mail go to his office: Blair & Co., Granbery, Marache, Incorporated, 20 Broad St., New York City. He is a Vice-President of the firm.

Many in the Class remember Walter Wentworth's wife Helen and will be sorry to learn of her death in October. The Wentworths had only last summer moved to 126 North Forest Ave., Arlington Heights, Ill., after many years in Short Hills, N. J. Wentworth is with Interchemical Corp., Chicago.

1932

Richard A. Hurley, Providence real estate man, is President of the New England Chapter of the Society of Industrial Realtors. It was in that capacity that he spoke in Chicago last month at the 58th annual convention of the National Association of Real Estate Boards.

1933

G. Kenneth Eaton of Amherst, N. H., is another Brown father with a daughter in the Freshman Class at Pembroke this year. Louisa Eaton's name was omitted from the list we published in our November issue on the basis of information from the Pembroke Admission Office. There is a strong Brown tradition in the family, and we regret the failure to mention the newest Brunonian.

Walter H. Brown has joined the staff of Metcalf & Eddy as chief instrumentation engineer and will be located at the firm's main office in Boston. He had served for more than 15 years with what is now the B-I-F Division of the New York Air Brake Co.



WALTER N. JACKSON '39 has sold the firm he started in 1960, Weather-Mate Products, to New Castle Products, Inc. He became Vice-President and General Manager of its new Residential Plastics Division.

Frank A. Gammino presided in December at the annual dinner meeting in Boston of the New England Roadbuilders Association, of which he is President.

1934

Arthur P. Felton has joined Haley Associates, Inc., consultants on executive selection and organization, with offices in the Seagram Building, 375 Park Ave., New York City. He had been Director of Marketing Services for Tidewater Oil Company's Eastern division.

Frank Barber, Minister of Education at Central Baptist Church, Westerly, served as Chairman of the Academy of Religion, a seminar held in his district last fall. The conference discussed the growing concern for training laymen to take a more active role in the life of the community.

1935

Philip Ciciarelli, owner of an insurance agency in Springfield, Mass., is heading a section of the YMCA fund-raising campaign in that community. He was a member of the Board of Management of the YMCA in Honolulu prior to moving to Springfield. He is Vice-President of the Sales and Marketing Executives Club and a member of Rotary International.

D. Gerald Ferry has left Lewiston, N. Y., and moved to 158 Fairmount Ave., Glen Rock, N. J.

1936

Robert S. Bromage is the new General Sales Manager of the Connecticut Light & Power Co. He had been Assistant Vice-President of Sales.

Clarence H. Gifford, Jr., President of Rhode Island Hospital Trust Co., served as Chairman of the Financial Committee for the Holiday Festival held the week of Dec. 12 at the Albee Theater in Providence.



LESTER J. MILLMAN '43 is President of the Rhode Island Chapter of the American Institute of Architects for 1966. He took his architectural studies at the R. I. School of Design and is a partner in the Providence firm of Millman and Sturges at 9 Steeple St.

1938

Gavin A. Pitt, President of Gavin Pitt & Associates, Chicago, presented a paper on "The Internist and His Hospital" before the meeting of The American Society of Internal Medicine. It was subsequently printed in *The Bulletin of the American College of Physicians*. An editor's comment in the magazine said: "We feel that this article by Mr. Pitt is worth the consideration of all Internists. Too few physicians realize how complicated are the problems of hospital administration. We are all grateful that men like Mr. Pitt give so freely toward providing proper hospital facilities for the patient."

Dr. Samuel B. Burgess has been appointed Visiting Pathologist at the Mallory Institute of Pathology, Boston City Hospital. He is Pathologist and Director of Laboratories of the Glover Memorial Hospital in Needham and Assistant Pathologist at Boston University School of Medicine. Dr. Burgess is active in the work of the New England Yearly Meeting of Friends and is Chairman of its Executive Council. His daughter, Martha, is a Senior at Pembroke.

Dr. Leon G. Burt has opened a new optometric office at 189 Weybosset St., Providence.

1939

Earle H. Berry, Jr., is quality control representative in the New England area for General Electric Company's Atomic Power Equipment Department of San Jose, Calif. He works from his home at 7 Clearwater Rd., Peabody, Mass.

1940

Edward T. Dooley has been named Racing Secretary at Lincoln Downs race track in Rhode Island. Although this is Ted's first appearance at Lincoln, he is the

veteran Racing Secretary at Narragansett Race Track and Rockingham.

Jonathan W. Brown, now on active military duty in France, will retire in June with the permanent rank of Lt. Colonel. While a daughter will be coming back to the States for college, the rest of the family will stay in France for a while.

1941

Aubrey L. Raymond has been named counsel for the Kansas City Division of Bendix Corp. His new address: 1011 West 111 St., Foxcroft, Kansas City, Mo. Aubrey, Jr. is spending his second year in graduate study of politics at Pembroke College, Oxford University. Pamela is a Senior in the Nursing program at Simmons College, Jeffrey is a Freshman at Lehigh, and Susan is a high school Junior in Kansas City.

Raymond L. Moran, with General Electric Co., is working out of the office in San Francisco. He had been with the company's Hanford Atomic Products operation in Richland, Wash., previously.

1942

Judge Joseph R. Weisberger of Rhode Island Superior Court criticized the State's bail system in a recent speech before the St. Thomas More Club at Providence College.

George T. Giraud, Manager of the Providence office of Goodbody & Co., has been elected President of the Rhode Island Association of Investment Firms. He succeeds a fellow Brunonian, Frederick L. Harson '31.

David Haweeli has resigned as Vice-President of the Rockefellers' International Basic Economy Corporation to accept a post as Director of International Development with Federated Department Stores,



JOHN L. SALLADIN '45 has been promoted by Tally Corporation, Seattle, to be Vice-President-Marketing. He had been Marketing Director since April after heading Braxton Corporation, a Massachusetts company founded by him in 1963. Earlier, he had been a Sales Manager and project engineer with RCA.

Inc. The firm is planning a European subsidiary, and Haweeli will handle the overseas assignment.

Ponzi A. Angelone, Manager of the Roger Williams District of the Metropolitan Life Insurance Co., has been transferred to the firm's Plantations District.

John M. Sapinsley is in a group of eight industry representatives named by the Defense Supply Agency to serve as advisers on problems related to procurement and manufacture of electrical wiring and cable for the Armed Forces. They will also have advisory duties with respect to the Agency's Defense Industrial Supply Center in Philadelphia. Sapinsley heads the Crescent Company Division of Carol Wire and Cable Corporation, Pawtucket.

1943

John G. Confrey, Jr., who is Manager of the Commercial Multiple Peril Department in the Chicago office of Chubb & Son, Inc., spent two weeks in Europe in October with his wife, Carole. They visited London, Hamburg, Zurich, Lucerne, and Paris, attending seminars and sightseeing in each city. The trip was arranged by the American Institute for Property and Liability Underwriters, with more than 150 members from the U.S. participating.

Seth K. Gifford, Providence attorney, has been named legal counsel for the newly-formed Providence Off-Street Parking, Inc., non-profit organization created to sponsor construction of the Majestic Shoppers' Garage. He had been assisting the corporation in legal matters without holding any official capacity.

Lester J. Millman, a partner in the Providence architectural firm of Millman and Sturges, has been elected President of the Rhode Island Chapter, American Institute of Architects.

Robert N. Greene, Providence attorney, has announced the removal of his law offices to 511 Turks Head Bldg.

1944

William S. M. Montgomery of Senior High, Wellesley, Mass., is one of 15 high school mathematics teachers taking part in a special program at Brown which has the support of the National Science Foundation. Each Wednesday afternoon the teachers and some of their most promising students are studying computer techniques. The Computer Institute is designed to give the participants "a greater awareness of the implications of the computer revolution in relation to problems of both teaching and research."

1945

Knight Edwards, Providence attorney, has been named Chairman of a Rhode Island United Fine Arts Fund, which will be used to support activities of the organization's 30 member groups. Prof. Arlan R. Coolidge '24 is President of the Council, and John Nicholas Brown, Secretary of the Corporation, is Honorary Chairman of the fund.

Michael A. Gammino, President of the Columbus National Bank, has been elected President of the newly-formed Providence Off-Street Parking, Inc., a nonprofit organ-

ization created to sponsor construction of the Majestic Shoppers' Garage.

Leon Mann is Vice-President in charge of production at the Hassenfeld Brothers' Pawtucket plant. He served as host recently when the Greater Providence Industrial Management Club toured the plant.

James A. Cooper has left Wilbraham, Mass., and is living at 1714 Greening Lane, Kirkwood, Mo.

1946

Joseph H. McMullen, offensive line coach under Rip Engle at Penn State, was interviewed in December as a possible successor to John Michelosen as head coach at Pitt. He was one of two men interviewed the day before Carroll "Beano" Cook '54, Sports Publicity Director, announced the selection. Joe coached under Rip at Brown, leaving in 1948 to join J. Neil "Skip" Stahley, another former Bruin head coach, on the football staff at Akron University. He later served as head football coach at Stetson, Washington & Jefferson, and Akron.

The Rev. Stephen Nease is serving as Director of Development at Eastern Nazarene College, Quincy, Mass. He received his Master of Education degree from Boston University in 1959 and subsequently conducted numerous brief evangelistic campaigns in the Northeastern area of the United States.

John W. Bach is President of the Metropolitan Basketball Association in New York City this year. He is, of course, still on the job as coach at Fordham.

1947

Prof. A. Wilansky of the Mathematics Department at Lehigh University writes to express his sadness at the death of Prof. C. R. Adams. Speaking of Adams' kindness to him "at all times," Wilansky says, "Professor Adams directed my Ph.D. thesis. I may have been his last Ph.D. pupil."

William H. Joslin, Jr., is general agent for the Providence agency of the National Life Insurance Company of Vermont. Last year, the agency had national rankings of third in percentage of bettering its quota and seventh in volume of new insurance. Under Bill's direction, the firm wrote 425% of its goal and had \$3,506,000 worth of applications. The agency serves policyholders in Rhode Island and Bristol County, Mass.

John Dake, Jr., is General Manager with International Super Stores in Irving, Tex. His home address: 3975 Boca Bay Dr., Dallas.

Robert J. Janes continues as a member of the School Committee in Barrington.

1948

Michel Antone, Director of Mathematics at Medford High School in Massachusetts, conducted a workshop on the Greater Cleveland Math Program for the Wrentham Public School faculty last fall.

Dr. Gordon R. Pyper, Associate Professor of Engineering at Norwich University, made a month-long trip to Sweden in September as part of that country's "Meet Modern Sweden" program. Professor Pyper, Acting Head of the University's Civil Engineering Department, was one of 21 en-

gineering educators who made the trip under the sponsorship of The Experiment in International Living, the Swedish Government, and the American Society for Engineering Education.

James P. Elder has been named a Governor of the Rhode Island Association of Investment Firms.

Kenneth C. Wiles, a mechanical engineer, is Plant Manager with Lone Star Cement Corp., Birmingham, Ala. He resides at 2701 7th St., N.W., in that city.



FRANK C. KENYON, JR., '48 heads plastics sales for three West Coast offices of The Dow Chemical Company. His move on Jan. 1 gave him new responsibilities in Los Angeles, Seattle, and San Francisco. He had been a Product Sales Manager in plastics molding and extrusion.

1949

Theodore F. Dane has been named one of two Rhode Island Heart Fund Chairmen for Washington County. He is an account executive with the Providence investment firm of G. H. Walker & Co.

1950

John B. Lyte, Jr., has been named to a position on the Cranston School Committee, filling the vacancy caused when Paul D. Davis, a former Development Officer at Brown, resigned to accept the position of Vice-President of New College in Sarasota, Fla. Since college, Lyte has packed into his schedule a six-year directorship of Junior Achievement and service in the Vocational Advisory Committee to the State Board of Education since 1963. In 1963 he was a member of a three-man committee named by Mayor Reynolds to study personnel practices in Providence. As a member of the Greater Providence Chamber of Commerce, he is President of the Chamber's Personnel Executives' Club and has served as Chairman of the Chamber's Industry Services Committee. He's employed as Industrial Relations Manager for Federal Products Corporation of Providence. The Chairman of the Cranston



FRANK W. GREEN '49 has been appointed Executive Vice-President of the Fieldcrest Division of Fieldcrest Mills, Inc. He joined the firm in 1952 as a salesman and later was a department manager and divisional VP.

School Committee is John J. O'Connor, a classmate.

Jack Schreiber, Vice-President of the Class, was admitted to the Rhode Island bar on Nov. 24. He was a June graduate of the Boston University School of Law. He may be reached at 86 Belvedere Dr., Cranston.

David Miller, research biologist for the Fish & Wildlife Service at Woods Hole for more than 10 years, is curator of the aquarium which the New England Aquarium Corporation is building in Falmouth. It will be another two years before the five-story building is finished.

Phillips Hand is Secretary of the Needham, Mass., YMCA. He has served in this line of work for several years.

Arthur M. Oliva has only recently taken up golf. There was some surprise, therefore, when he walked into a party and announced that he had just shot a 79. The matter was cleared up a bit later when Art informed the group that he was talking about bowling.

Charles H. Jackson is Assistant Zone Manager with American Motors Sales Corp., Chicago. His residence: 5739 Ridgewood Dr., Western Springs, Ill. 60558.

Alexander Marshall is in Missouri with McDonnell Aircraft Corp., serving as Manager International Liaison. Alex lives at 123 North Mosley Rd., Creve Coeur 63141.

Thomas L. Orr, Jr., is in sales with E. R. Squibb Company of New York City. He lives at 12 Rings End Rd., Darien, Conn.

The death in November of John A. Blackhall is still a blow to the many members of the Class who knew him in his all-too-brief life on this earth. In a letter to Jack's widow, President Keeney expressed his sentiments. "We greatly appreciate all that Jack did for Brown, particularly as Chairman of our Secondary



CHARLES F. CLARKE, JR., '51 has been named a partner in the firm of Sudler and Company, leasing and management agent of the 100-story John Hancock Center under construction in Chicago. The \$95,000,000 residential-office building, when completed in 1968, will be the largest structure of its kind in the world. Clarke will coordinate all leasing activities.



DAVID J. BRODSKY '52 has been appointed Treasurer of Educational Testing Service, of which he has been a staff member since 1955. He is also Treasurer of the Institute for Educational Development, New York City, and was a Vice-President of Business Scope publications, Boston. In Princeton, N. J., he's a member of the Township School Board.

School Program for Northeastern New York," he said. The Brown Club of Northeastern New York, with whom Jack worked so closely over the years, sent a gift to Brown to establish a memorial in Jack's name. In a letter to Alumni House, Club Secretary Earl M. Bucci spoke of the Club's loss. "Words cannot adequately express how deeply we feel about the loss to the Club, and, more particularly, to each of the members in it who were personally acquainted with Jack. To each of us he exemplified in the highest degree those qualities of loyalty, friendship, and integrity which make up what we commonly refer to as character. He was indeed a man of character and good will, a man who walked the earth with humility."

Several representatives of General Electric, with whom Jack worked, attended his funeral in Warren, R. I., one of them flying back from Europe to be present.

1951

Dr. Albert A. Capozzoli, Jr., will serve during the second semester as a visiting lecturer in dental hygiene at the University of Rhode Island.

James K. Mullaney, an Advertising Director for the New England Telephone Co., is assisting Edward F. Burke, Rhode Island State Chairman for the 1966 March of Dimes.

Dr. Allan M. Russell is Associate Professor of Physics at Wesleyan University. He joined the Faculty there in 1964 after having served for six years at the University of California at Riverside. He received his Ph.D. from Syracuse in 1957.

Lewis A. Waterman, Jr., is Branch Office Manager of Aluminum Company of America, assigned to the Sales Department.

His address: 273 Lombardi Circle, Walnut Creek, Calif.

James M. Phelan, Superintendent of the Pilgrim Postal Station in Warwick, was named acting Postmaster in December.

Dr. Bruce R. Joyce is head of the MAT Program at Manhattanville College of the Sacred Heart, Purchase, N. Y. His new home address: Wood Hill Rd., Wilton, Conn.

F. Monroe Allen, Providence attorney, is Republican Town Chairman in Smithfield.

1952

Robinson C. Trowbridge, Executive Vice-President of the Providence advertising agency of Creamer, Trowbridge & Case, Inc., took part in the program of this season's Blue Cross Association National Enrollment Meeting held in Atlanta.

Russell C. Gower has been named Manager of the Providence office of W. Henry Coleman, realtors. Offices are in the Hospital Trust Bldg. He had been associated with R. A. Hurley. Russ is serving as a member of the Brown Club's Clubhouse Committee.

John J. Pietro, President of Mid-State Insurance Agency, has been elected President of the Alumni Association of Worcester Academy. John attended the Brown Football Association Dinner at the Biltmore Hotel in Providence last month to extend congratulations to his former quarterback at Worcester Academy who made good at Brown—Bob Hall.

William W. Corcoran has been installed as the new President of the Newport County Chamber of Commerce. Governor Chafee attended the installation ceremonies.

Dr. Walter A. Sturm has been named

Manager of the Software Section, Computer Systems Department, at Aerospace Corporation in El Segundo, Calif. He joined the company in 1964 and prior to his recent appointment had been acting Section Manager of the department.

Dr. Robert MacFarlane, Jr., a research chemist, is with Esso Research & Engineering Co., Linden, N. J., although he is presently in Sarnia, Ont., on loan to Imperial Oil Enterprises, Ltd.

Joseph S. McVicker, a student at Harvard Divinity School, is serving as a Management Consultant with General Mills, Inc. His address: 22 Falmouth Rd., Wellesley, Mass. 02181.

James P. Wysong has been named Sales Manager for Radio Station WPOR, Portland, Me. He has been associated with major advertising agencies for the past 10 years, most recently as account executive for the Coca-Cola Bottling Company of New York.

1953

Philip H. Palamountain has been appointed an Assistant Vice-President of the First National Granite Bank, Augusta, Me., and manages the firm's computer service. He had been Manager of Systems and Procedures at Independent Lock Co., Fitchburg, Mass. He is Chairman of the New England Division, Data Processing Management Association.

Edward A. Johnson has been appointed Assistant Principal at Marblehead High School. Formerly an English teacher at Senior High, earlier this year he was appointed a Guidance Director at the school. Ed was recipient of a Fulbright Exchange Teacher grant in 1961 and taught at Nesbyen, Norway.

William A. Vitiello is with the Quality Assurance Division, Defense Contract Administrative Services, Orlando AFB, Orlando, Fla. He received his professional engineer's license from the State of Florida last May.

The Rev. William S. Cooper has been appointed Assistant Clergyman at Christ Church, Norwich, Conn. He went to the post from Clayton, N. Y., where he had been Rector of Christ Church.

Daniel P. Davis, an industrial engineer, is a systems analyst with Esso Research & Engineering Co., Linden, N. J.

Robert J. McKenna is Assistant Professor of Philosophy and Social Studies at Salve Regina College, Newport, R. I.

1954

Dr. David N. Orth is an Instructor in Medicine in the Department of Medicine at the Vanderbilt University School of Medicine. His address is 114 Taggart Ave., Nashville.

Philip W. Noel, Warwick attorney who is serving as a Councilman in that community, is a candidate for the Democratic mayoralty nomination.

1955

Kenneth R. Peterson, formerly News Editor, took over new duties the first of the year as Managing Editor of *National Petroleum News*. It is published by McGraw-

Hill, with which organization he has been since 1961. He was on the editorial staff of the *Petroleum Week* at first following earlier work with the *Worcester Telegram and Gazette* and United Press International in Boston.

Peter Pemberton represented Creamer, Trowbridge & Case, Inc., at the Retail Jewelers Association Show in New York last fall. Two of his clients, Speidel and The Quill Co., exhibited there.

1956

William T. Brightman, 3rd, is the new Assistant Vice-President of the State Street Bank & Trust Co., Boston. He joined the bank in 1959 and is Operations Officer of banking offices for its Depositors Service Division.

LCDR. Carl Gable returned last summer from a three-year tour of duty in Japan and is stationed at San Francisco. He is a security specialist.

Ned P. Baugh is Assistant Sales Planning Manager for New Products with the Post Division of General Foods Corp. A resident of Darien, Conn., he resides at 581 Hoyt St.

Dr. Robert L. Zangrando is Assistant Executive Secretary of the American Historical Association, Washington, D. C.

1957

Dr. John F. Just recently presented a research paper in Montreal entitled "Pulmonary Artery Bypass—A Simplified Method." He was in England last year as a Surgical Fellow at the National Heart Hospital, London, after having spent his second year as a resident at General Hospital in Milwaukee.

Benjamin D. Schenker is a District Man-



PAUL F. HOOD '49 is the new Manager of Employee Benefits Services, for EBS Management Consultants, Inc., a wholly-owned subsidiary of Electric Bond and Share Company. He has had extensive experience in the field of employee benefit planning and administration, often speaking and writing on phases of the subject. He's led seminars for the American Management Association, as an active member.

Interviewing the Seniors

WHEN BUSINESS and industry recruit Brown Seniors, alumni often come to College Hill as principals for their interests. Mrs. Hope Brothers, Director of the Office of Senior Placement at Brown, reports that the following were among those at Brown with their teams during the first semester:

James W. Gurll '38, C.I.A.; R. J. Tracy '46, General Electric; Curtis Kruger '53, Metals & Controls Division of Texas Instruments; Richard M. Dunn '58, New England Electric; Robert L. Knapp '43, U.S. Rubber; C. J. McCreery '50, Worthington Corp.

ager for the Equitable Life Assurance Company in Chicago.

Frank E. Toole, Jr., is an account executive with the advertising agency of Foote, Cone & Belding in New York City.

Scott O. Carleton schedules the paper-sensitizing section of the Eastman Kodak Parkworks, which handles production and paper-planning.

Harvey T. Tracy is the Commercial Sales Manager with Massachusetts Electric Co., Hopedale, Mass.

Harold J. Sutphen has completed work for his Master's at Fletcher School as a Navy sponsored graduate student and is working toward a further M.A. in Law and Diplomacy at Tufts.

J. Harvey Sproul, Jr., is a Vice-President with the H. B. Sproul Construction Co. He is a Director of the Central State Bank in Daulton, Pa., in addition to serving as Director of the Scranton Better Business Bureau and Waverly Community House and as President of the Prudent Investors Club of Scranton.

Robert H. Gorman has returned to law practice with the firm of Gorman, Davis & Hengelbok in Cincinnati. He's been active in the community and recently was a candidate for the State Legislature in the Ohio Democratic State Primary. He completed a three-year tour of duty as a Captain (Judge Advocate) with the 337 Fighter Group of the U.S. Air Force in Portland, Ore.

Robert A. Corrigan, formerly an Instructor in the Department of American Civilization at the University of Pennsylvania, has moved to Iowa City, Ia., where he is teaching English at the University of Iowa. He contracted with Twayne Publishing to do a critical analytical study of Samuel Sewall, and he just recently completed a biography of Hugh Henry Brackenridge.

Stanford B. Vincent is the Mid-Atlantic States salesman representative for the Vincent Curtis Publishing Company of Boston.

Francis W. Thorley has been promoted to Supervisor of Inside Sales for the Joseph T. Ryerson & Son Steel Co.

Hugh R. Smith is a technical sales representative of the Machine Corporation of Hoboken, N. J.



EARLE G. SIMMONS '49 has been named by Improved Seamless Wire Company, Providence, to be Vice-President in charge of marketing. He was for 10 years with Engelhard Industries. Improved Seamless Wire is an associate of American Gage and Machine Company.

Roger E. Stoddard is still enjoying life on College Hill, where he is curator of the Harris collection of American Poetry and Plays at the John Hay Library.

James S. Tison reports that the weather is just fine on the West Coast. He is a Facilities Administrator for North American Aviation in Downey, Calif.

Michael L. Wilder is a sales engineer for the Pfaunder Co., Owings Mills, Md.

Richard D. Thomson is in the Windy City as an account executive with the Leo Burnett Co.

William P. Narkiewicz is Supervisor of EDP programming in the Group Annuity Department of the Aetna Life Insurance Company of Connecticut.

Frank J. Smith, Jr., is an English teacher at the Browne & Nichols School in Cambridge, Mass.

Charles Nutt is a program analyst for Aetna Life in Hartford, Conn.

Dr. A. Stephen Casimir is a medical officer at the Armed Forces Staff College in Norfolk, Va.

Robert W. Minnerly is teaching at the Berkshire School in Sheffield, Mass., dividing his time between the English and History Departments.

George E. Mont is a research chemist for the Shawinigan Resins Corp., Springfield, Mass.

Kenneth L. Greif is a teacher at the Park School in Brooklandville, Md., specializing in English.

William A. Pond is financial analyst of contracts of the Heavy Military Department of the General Electric Co., Syracuse.

William R. Rivelli is an advertising photographer for the William Helburn Studio in New York City.

William J. Pilkonis is an Instructor of German at the University of Pittsburgh.

William N. Poillon has completed re-

quirements for his Ph.D. in Chemistry at Columbia but is staying there as a Post-doctoral Research Associate.

Joseph T. Simeone reports that he has completed his studies at American University Washington College of Law.

Michael S. Stern is an attorney for the Mill Factors Corp., New York City.

George W. Cushman is an Instructor in Geology at Deerfield Academy and also coaches Junior Varsity track.

Joseph W. Shaw, who has been in Greece for the past two years, has accepted a position as an Assistant in the Department of Classics at the University of Pennsylvania. His mailing address: The University Museum, University of Pennsylvania, Philadelphia 4, Pa.

Peter J. Hollitscher is working in the Big City as a credit analyst with Chase Manhattan Bank.

David M. Kaplan has been promoted to the position of National General Sales Manager of the Kaplan Furniture Co., manufacturers of the Beacon Hill Collection of fine furniture. He has moved to his new home in Belmont, Mass., after spending five years in New York City.

Capt. Robert A. Norman has been assigned to Viet Nam since last February. Earlier he had completed Vietnamese Language School with the U.S. Air Force.

William B. Wadsworth is Assistant Professor of Geology at the University of South Dakota.

William C. Roesel is an electrical engineer with the Bell Telephone Labs in Murray Hill, N. J.

Dr. Robert H. Ackerman has completed his studies at the University of Rochester.

Peter R. Van Leight is Travel Advertising Manager of *Bride's Magazine*, a Conde Nast publication.

Richard C. Jordan is an architectural designer for Bauer & Corbett of Newark, N. J. He had been an architectural consultant with the U.S. Navy in the Caribbean.

Robert K. Hitt is Sales Manager of the Hoffman Paint & Wallpaper Co., New Haven. He spent much of his free time in the fall officiating at high school and prep school football games.

Robert T. Stevenson, Jr., is a commercial banking representative with the Continental Illinois National Bank & Trust Co.

Arthur G. Adams, Jr., is a partner in the firm of Arthur G. Adams in Manhattan, a firm that acts as manufacturers' representative.

Francis W. Thorley has been appointed a general sales representative for the Boston service center of Joseph T. Ryerson & Son, Inc., and will have southern Massachusetts and northern Rhode Island as territories. Thorley began his Ryerson career as a sales trainee in 1961 and has supervised the Boston general order department since February, 1964. A former LT(j.g.) in the Navy, he lives in Sharon with his wife and four children.

Lee A. Jacobus, an English instructor at Danbury State College, has been selected as a recipient of the Danforth Graduate Fellowship. Several of his stories, poems, and articles have been published in magazines and periodicals across the country.



PETER H. FAKE '57 has been made Associate Director of the Group Sales and Service Department of the Prudential Insurance Company of America. He's had a series of promotions since joining Prudential in 1960. He will be at corporate headquarters in Newark, N. J.

Danforth Grants have been awarded to 50 Faculty members from colleges and universities across the country, providing them with a calendar year of graduate study in a university of the recipient's choosing.

John W. Gleeson, a former newsman, has been named Executive Secretary to Governor Hughes of New Jersey. He had been Director of Public Affairs for the Democratic State Committee since 1963. John and his wife and two sons live at 8 Maple Lane, Pennington.

Dr. Robert L. Fulton is Assistant Professor in the Chemistry Department at Florida State University.

Dr. Edward M. Tapper has informed the Class that as of Apr. 1 he will be working at the Mayo Clinic, Rochester, Minn.

Richard W. Miller has just purchased a new home in Westwood, Mass., and is head of his own insurance agency with offices in Brookline.

Donald L. Saunders, your Secretary, has been elected a Regional Director of the Associated Alumni. He also is a partner of the newly licensed Channel 7 in Bangor, Me. The Surf & Sand Hotel opened again in December on Lido Beach in Sarasota, Fla., and if any classmates are down that way they are invited to drop in as the Secretary's guest.

DONALD L. SAUNDERS

1958

Loring W. Smithies has been promoted by Dun & Bradstreet to sales representative for Maine, New Hampshire, and Vermont. He had been a reporting and service manager in Worcester, Mass.

Lawrence W. Evans is working in New York City with Arthur Andersen & Co., 80 Pine St.

A. Frank Farnham is with J. Walter Thompson of New York City as a TV commercial producer.

Ronald E. Oberg is Project Manager for CAD System Development, United Aircraft Corp., Research Laboratory, East Hartford, Conn.

Dr. Richard S. Rosenberg is a Research Fellow in the Department of Ophthalmology with University Hospitals of Cleveland.

1959

Andrew H. Davis, Jr., has become a partner in the Providence firm of Swan, Kenney & Jenckes, attorneys at law. Offices are located at 911 Turks Head Bldg.

John W. Cronin, Jr., has been named a Product Manager at Clairol. He joined the firm last February as an Assistant Product Manager, following service with Litton Industries and with Procter & Gamble.

John R. Jolly is working at Manhattan Savings Bank, New York City. Last fall he was a volunteer on the staff of John Lindsay during the latter's campaign for Mayor.

David F. Toser is resident costume-designer for the American Conservatory Theater, Pittsburgh. He received his Master's in 1964 from the Yale University School of Drama.

1960

Robert W. Hindle, returned to civilian life, is attending law school at Louisiana State University. His address: 3350 Lake St., Apt. 1-2, Baton Rouge, La. 70802.

William S. Smith has been named Agency Supervisor for Western Massachusetts by Paul Revere Life Insurance Co., Worcester. He joined the firm in 1963 after a brief teaching career at Morgan Park Academy, Chicago.

Richard M. Galkin is on a temporary assignment as Financial Director of KOGO TV-AM-FM, San Diego, Calif. He is with Time Life Broadcast, Inc., New York City.

Edmund P. Leather is an analyst with the Department of Defense, Fort Meade, Md.

Kenneth A. Kemp has been named a Teaching Assistant in Physics at the University of Rhode Island.

S. David Berger was admitted to the Massachusetts bar on Nov. 9. He was graduated from Harvard Graduate School in 1962 and Boston University Law School in 1965.

Harry Hersey has been promoted to Assistant Research and Planning Engineer for the Illinois Division of the Bureau of Public Roads, U.S. Department of Commerce.

Capt. Lewis N. Roses is stationed in Viet Nam with the 52 Avn. Bn. Dental Clinic.

1961

Peter Amram is teaching at Mt. Hermon School, where he also serves as rowing coach. When Brown retired the historic shell "Atalanta" last spring, it was given to Pete to start his program at Mt. Hermon in appreciation for his years of service (without pay) as Freshman Rowing Coach on the Hill. Unfortunately, the shell was destroyed by fire a week later, along with the rest of Mt. Hermon's initial supply of equipment.

Fred Markella was admitted to the Mas-

sachusetts bar in November and has joined his father, Judge Ermon L. Markella, and his brother, Anthony L. Markella, in the general practice of law at 18 Cottage St., Brockton.

Brian Hays was released from the U.S. Coast Guard in June and in August he opened (in partnership) Amerman & Hays Sport & Hobby Shop, Mendham, N. J.

Duncan Smith is an Instructor in the German Department and working for his Ph.D. at Brown.

1962

Nathan W. Chace was graduated from the University of Virginia Law School last June and passed the Rhode Island bar this fall. He's now settled down to the practice of law in Providence, but not in the conventional sense. "I am in the unique position of being associated with two law firms," he reports. "Part of my time will be spent with the firm of Chace & Yatman, where I will be working with my grandfather, Elmer S. Chace '01, and Judge Ellis L. Yatman '11. The bulk of my work will be with the firm of Goodman, Seminoff and Gorin, where I have been a clerk for the past two summers. Jacob Goodman '26, Ralph P. Semonoff '39, Norman G. Orodener '55 and Owen B. Landman '55 are the Brown men in the latter firm who have been answering most of my questions."

Jay M. Jaffe received his Master's from M.I.T. in June, 1964, and then went to work for Connecticut General Life Insurance Co., Hartford. Last summer he became an Associate in the Society of Actuaries. "I'm working toward my Fellowship, which I hope to receive in the not too distant future," he reports. "About a month ago I left Connecticut General and joined Welfare, Pension & Equity Plans Service.



CONSTANT F. MACHONIS '51, formerly the marketing planning coordinator for Enjay Chemical Company's Chemical Division, has been appointed Distributor Sales Monogrer. Enjay is a division of Humble Oil & Refining Company, at whose Bayway refinery, Machonis had worked from 1951 to 1964 in a variety of posts.

Inc., financial and actuarial consultants with offices in New York and Chicago. My wife and I will be moving to Chicago this month." The firm's Chicago address is 39 S. LaSalle St.

Ronald DeLellis, a fourth-year medical student at Tufts University, expects to graduate in June.

LT(j.g.) Frederick G. Ziegler, USNR, is Director, Material Division, Nuclear Weapons Supply Annex, Norfolk, Va.

Robert Ebin and Kenneth R. Blackman have recently passed their New York State bar exams. Bob is associated with the law firm of Wickes, Riddel, Bloomer, Jacobi, and McGuire of New York City. Ken is serving as a clerk to Federal Judge Richard H. Levet of the Federal District Court.

Michael J. Carley has been promoted to 1st Lt. in the Marines and received his wings as a helicopter pilot in December. With the Florida training phase completed, his orders were for New River, N. C. Lt. and Mrs. Worthington and their son, Michael, Jr., are living at 1301 Davis St., Jacksonville, N. C., after a month's leave in Providence and Sharon, Conn.

The Rev. Karl G. Layer, Jr., is the new Assistant Editor of *The Living Church*, an Episcopal magazine with offices in Milwaukee. He took his theological studies at Nashotah House in Wisconsin.

Bureau of Vital Statistics

MARRIAGES

1948—Frederick W. Lohse, Jr., and Miss Gwendolyn Rose, daughter of Mr. Walter J. Rose of Newton Center, Mass., and the late Mrs. Rose, Dec. 11. Best man was E. John Lownes, III, '50, and ushers included Raymond R. Sturdy, Jr., '50.

1955—William M. Kahler and Miss Devona A. Langley, daughter of Mr. and Mrs. Arthur C. Langley of Lincoln, R. I., Dec. 4. Ushers included Robert B. Tucker '54. At home: 226 Twin River Rd., Lincoln.

1955—Richard E. Valicenti and Miss Joan C. Massa, daughter of Mrs. Orlando Massa of Roslyn Heights, N. Y., June 26. At home: 90 Edwards St., Roslyn Heights.

1957—Max Volterra and Miss Marion Sitnick, daughter of Mr. and Mrs. Jacob Sitnick of Fairhaven, Mass., Nov. 11. Guy Volterra '54 was best man, and Thomas R. Mahoney, Jr., '57 and William E. West, Jr., '57 were ushers.

1958—Loring W. Smithies and Miss Julia M. Lawson, daughter of Mrs. Charles Lawson of Waterbury, Conn., and the late Mr. Lawson, Aug. 24.

1959—James H. Gilland and Miss Sharon A. McCarthy, daughter of Mr. and Mrs. John J. McCarthy of Waterbury, Conn., Nov. 20.

1959—Whitney L. Lane and Miss Carolyn A. Parsons, daughter of Mr. and Mrs. Clarence A. Parsons of Bristol, Conn., Nov. 20.

1963

Arthur C. Haines has been appointed Admissions Officer at Rhode Island School of Design. He has studied at the Institute Dante Alighieri.

1964

William W. Durgin is a Research Assistant for the Narragansett Marine Laboratory while working toward his Master's in Mechanical Engineering at the University of Rhode Island.

Alan Freeman entered New York University Law School in the fall of 1964, came in second in his Class, and this year is a member of the *Law Review*.

Eric T. Helland, who is in his Junior year at the University of Missouri Dental School, has moved to 2178 East Parvin Rd., Kansas City, Mo. 64116.

David M. Brodsky is a second-year student at Harvard Law School. He was married last August, and his wife is working at the Harvard Business School.

Alan Young's bow as a soccer coach was a success as he guided the Cub team to a perfect season on College Hill.

James Sutton is doing graduate work in English Literature at the University of Iowa. He was one of five winners in the recent MBTA survey contest sponsored by the Junior Chamber of Commerce.

1960—S. David Berger and Miss Eva Dahlgren, daughter of Mrs. Olov Dahlgren of Goteborg, Sweden, Sept. 29.

1960—Stuart S. Berman and Miss Martha H. Neustadter, daughter of Mr. and Mrs. Arnold Neustadter of New York City, Nov. 21. Ushers included Kenneth Beaugrand '60, Dr. Edward Sweet '60, and Philip Tenenbaum '60.

1960—Robert E. Casey and Miss Pamela Lewis, daughter of Mr. and Mrs. Roger Lewis of New York and Kent, Conn., Nov. 13.

1960—George M. Dix and Miss Julia N. Morse P'62, daughter of Mr. and Mrs. Marston Morse of Princeton, N. J., Nov. 27.

1962—Robert L. Dillmeier and Miss Margaret M. Florence, daughter of Mr. and Mrs. Arthur Florence of Manhasset, L. I., N. Y., Nov. 27.

1962—Charles A. Spacagna and Miss Geraldine L. Schiano, daughter of Mr. and Mrs. Salvatore Schiano of Providence, Nov. 27. Ushers included Francis C. Spicola '60 and Richard G. Levy '62. At home: 30 Power Rd., Pawtucket, R. I.

1962—Anthony R. Vernaglia and Miss Helen E. Burke, daughter of Mr. and Mrs. Ernest L. Burke of Cumberland, R. I., Nov. 20. At home: 210 Seneca Ave., Pawtucket.

1963—Mariano Rodrigues, Jr., and Miss Ann E. Honan P'66, daughter of Dr. Frank J. Honan of Providence, and the late Mrs. Honan, Nov. 20. D. Andre

D'Andrea '65 and Paul F. Sullivan GS'66 were ushers. The bride's father is '21. At home: 116 Governor St., Providence.

1964—Joseph C. Caporossi and Miss Sherian R. Barker, daughter of Mr. and Mrs. Kensey Barker of New Haven, Nov. 27. John H. Crawford '63 and Robert C. Berry '65 were ushers.

1964—Joseph E. Green and Miss Martha L. Karpeles, daughter of Mr. and Mrs. John J. Karpeles of Bronx, N. Y., Aug. 21. Best man was Axel Kornfuehrer '63, and ushers included Stephen M. Gottlieb '63. At home: 542 West 112th St., New York City.

1965—Harry L. Barr and Miss Bernadine A. Courtright P'65, daughter of Mr. and Mrs. Don M. Courtright of Orinda, Calif., Dec. 20. At home: 1316 N. Astor St., Chicago.

BIRTHS

1933—To Mr. and Mrs. Paul L. Mad-dock of Palm Beach, Fla., a son, Jeffrey Paul, Oct. 22.

1933—To Mr. and Mrs. Herbert H. Pickard of Hopedale, Mass., their second daughter, Linda Ann, Oct. 5.

1944—To Dr. and Mrs. Alfred A. Rich-tarik of Madison, Wis., a daughter, Marilynn Josephine, Oct. 11.

1946—To Mr. and Mrs. Milton A. Phil-lips of Tulsa, their third child and second daughter, Joy Elaine, Apr. 15.

1949—To Mr. and Mrs. Armand Car-lino of Warwick, R. I., a daughter, Bettina Anne, Nov. 3.

1951—To Mr. and Mrs. Henry D. Pel-letier, Jr., of Hopewell Junction, N. Y., a daughter, Bernadette, June 3.

1952—To Mr. and Mrs. Howard D. Blank of New York City, their second child and second son, Kenneth Robert, Nov. 1.

1952—To Mr. and Mrs. David L. Good of Washington, D. C., a son, John Matthew, Nov. 20.

1954—To Mr. and Mrs. Barry D. Brown of Englewood Cliffs, N. J., a son, Robert Russell, Sept. 7. Mrs. Brown is the former R. Eleanor Brown P'55.

1955—To Mr. and Mrs. William F. Bar-rett of Riverdale, N. Y., their third child and third daughter, Diana Fergus, Oct. 25.

1955—To Mr. and Mrs. Donald E. Leonard of Providence, a son, Donald Ed-ward, Jr., Oct. 4.

1955—To Dr. and Mrs. Richard B. Lund of Whippany, N. J., their third child and second son, Steven Mocko, June 1.

1956—To Mr. and Mrs. Paul H. Chris-tiansen of Rochester, N. Y., a son, Guy Tanber, Nov. 17.

1956—Mr. and Mrs. Joseph P. Ran-dazza of Lowell, Mass., announce the adoption of their second child and first son, Joseph Peter, Jr., born Oct. 22.

1957 GS—To Dr. and Mrs. Joseph E. Earley of Arlington, Va., a son, Joseph Emmett, Jr., Nov. 22.

1957—To Mr. and Mrs. Nathanael Greene of Middletown, Conn., a son, Jonathan Nathanael, Nov. 15.

1957—To Mr. and Mrs. George Rollin-son of New Brunswick, N. J., their first child, a son, John Edward, Sept. 10.

1957—To Mr. and Mrs. Jerold Ziesel-man of Scarsdale, N. Y., a daughter, El-len, Nov. 14.

1960—To Mr. and Mrs. James Rossi of Bristol, R. I., a daughter, Jean Marie, Oct. 25.

1960—To Mr. and Mrs. Francis C. Spicola of Cranston, R. I., a son, Francis Caesar Alvin, Nov. 5.

1960—To Mr. and Mrs. Douglas S. Tol-derlund of Cresskill, N. J., their first child, a daughter, Rebecca Sandra, Nov. 11.

1961—To Mr. and Mrs. Stephen L. Brown of New York City, a son, Spencer Landesman, Sept. 7.

1963—To Mr. and Mrs. Nelson O. Clay-ton of Washington, D. C., their first child, a daughter, Dawn Page, Oct. 7.

1964—To Mr. and Mrs. Michael Koleda of Providence, their second child and first son, Paul Swartwout, Oct. 29.

1964—To Mr. and Mrs. William W. Durgin of Narragansett, R. I., a daughter, Susan Beth, May 15.

1965—To Mr. and Mrs. Paul R. Virga-damo of Providence, their first child, a daughter, Sarah Jane, Nov. 2. Grandfa-thers are Louis P. Virgadamo '35 and Walter V. Ploettner '25.

In Our Mail

A Caption in Error

SIR: That was a good photo on the cover of the October issue, and the young man was properly identified with the Peace Corps training program on the Brown Campus last summer.

However, he was not "Brown-trained" as a Peace Corpsman. The picture was of Lee Jennings, one of the instructors, a re-turned volunteer who was helping train the new group of recruits.

A COLLEAGUE

A Rockwell Protest

SIR: Every time I get another copy of the *Monthly*, I resolve to write you and protest, and this is the first time I have been able to combine resolution with avail-able time.

While I speak at universities and col-leges all over America (last week at the U. of Minnesota at Duluth and University of North Dakota at Grand Forks), my own University treats me like a colored step-child. Brown has welcomed every kind of scummy communist speaker preach-ing the overthrow of the government I fought for as a Navy fighter pilot in two wars.

I make no secret of the fact that I be-lieve the reason for this is the capture of a grand old New England college by Jewish and communistic radicals who are turning our kids into arrogant, ignorant, hell-raising peace-creeps and unwitting traitors to the greatest Nation ever to ap-pear on earth, our United States of Amer-ica.

Under these circumstances, I feel it is incongruous, to say the least, for you to send me a bulletin from which I am bru-tally excluded, in spite of making news all over the world year after year, most recently running for Governor of Virginia (and getting almost 7000 votes). Until Brown is willing to grant HONEST "aca-demic freedom" and give me a chance to defend myself from the damnable lies spread about me at my own University, please quit sending me that excellent but painful reminder of the disgrace of my University.

Heil Hitler!

LINCOLN ROCKWELL '42

Commander, American Nazi Party

(Rockwell's candidacy was noted in our July issue, with a December reference to the election result.—Ed.)

In Memoriam

FREDERICK SCHWINN '05, in East Provi-dence, Nov. 17. He was Captain of the Varsity football team in 1904 and also played basketball as a member of Brown's second team in 1902. After grad-uation, he entered on a successful busi-ness career in jewelry manufacturing. He once served as General Manager of the Robbins Co. of Attleboro and, for 21 years before his retirement in 1957, worked as Office Manager of the L. G. Balfour Co. also of Attleboro. During World War I, he served with the Massa-chusetts State Guard. He was a charter member of the Attleboro Lions Club, and Past Director of the Attleboro Chamber of Commerce, National Jewel-ers Board of Trade, and New England Manufacturers, Jewelers & Silversmiths Association. He served as President of his Class and was a representative of his Class in the recent Bicentennial De-velopment campaign. Psi Upsilon. His

widow is Amelia S. Schwinn, c/o Att-ridge Nursing Home, 1196 Charles St., North Providence.

PAUL BARNEY METCALF '16, in Provi-dence, Nov. 11. He was Executive As-sistant at the Narragansett Electric and its affiliated companies for 41 years un-til he retired in 1960. He previously held a similar position with New England Power Association, Boston. In 1916, he served with the R. I. National Guard en-gaged in the Mexican Border campaign. He served in both World Wars, in the Field Artillery, 26th Division, in World War I as 2/Lt., and with SHAEF in Europe as Lt. Col. in World War II. Prior to his overseas assignment in the latter war, he handled contracts in Wash-ington for system companies with the War Production Board, Federal Power Commission, and Office of Defense Transportation. He worked from 1944

to 1946 as a public utilities specialist with the Allied Military Government in Europe, as a result of which duties he was made an officer in the Order of Orange Nassau with Swords by royal decree of the Queen of The Netherlands. He also was the recipient of many decorations in both World Wars. He was a member of the R. I. Historical Society, Providence Athenaeum, Sons of American Revolution, and the Shakespeare's Head Association. Alpha Delta Phi. His brother is George T. Metcalf '13, and his son is Dr. Paul B. Metcalf, Jr., 29 Orchard Ave., Providence.

KENNETH AINSWORTH FLANDERS '17, in Fort Lauderdale, Nov. 6, following an automobile accident in which his wife and a friend also met death. He was a Christian Science practitioner. While at Brown he gained fame as a baseball pitcher and after his graduation played semi-pro ball for a time. He began his business career as Manager in the Wamsutta Mills, New Bedford. Later he was Manager in the Providence office of Bradstreet and then an executive in the firm of Underwood, Elliot and Fisher Company of Hartford, before taking up his professional duties as a Scientist, notably in Virginia. He was a member of the Sons of the American Revolution and a former member and Director of the New Bedford Kiwanis and Providence Rotary Clubs. He was the First Reader of the Island Christian Science Church, a member of the Mother Church, First Church of Christ, Scientist, of Boston, and had been the First Reader of the same church in Hartford, besides other affiliations. Sigma Nu. His brother is Cyrus G. Flanders '18, 66 No. Main St., Windsor Locks, Conn.

THE REV. KARNEK ABRAHAM HANDANIAN '18, in Brookfield, Mass., Nov. 11. He was Pastor Emeritus of the East Congregational Church, Ware, Mass. He also attended Hamilton College and Union Theological Seminary and received his S.T.B. degree from Andover-Newton Theological School in 1921. Ordained in Seekonk, Mass., he served churches in Knightsville, Seekonk, and East Weymouth before going to Ware in 1927 to serve as Pastor at East Church. Following his resignation from the Ware church after 25 years of pastoral duties, he moved to Brookfield, Mass., where he served as Interim Pastor in various churches. He was an active participant in civic and fraternal affairs. He served as Secretary of the Ware Rotary Club for several years, was a member of the book committee of the Young Men's Library Association, and was well known for his book reviews. At the time of his death he was a member of the Committee on Ministry of the Brookfield Association. He was well known as a lecturer and scholar, with an extensive knowledge of history, philosophy, and literature, both ancient and contemporary. His widow is Helen W. Handanian, 7 Draper St., Brookfield.

FRANK EDWARD KILLIAN '22, in Newton, Mass., Oct. 31. He began his banking career as a teller at the National Exchange Bank, Providence, before moving to Boston. He was associated with the First National Bank in Boston for 30 years before his retirement last year. He received an LL.B. degree from Northeastern University School of Law in 1929. He was a member of the Bank Officers Association and the Toastmasters Club. Two brothers survive.

WALTER POWELL ROLLAND '22, in Melbourne Beach, Fla., May 9. He was retired as President of Rolland Motor Sales Corp., East Hartford, and a truck distributor for General Motors. During World War II, he served as Chairman of the Selective Service Appeal Board and Office of Defense Transportation in Connecticut. After moving to Florida, he was President of the Melbourne Chamber of Commerce and Rotary Club, director of the Brevard Hospital Board of Governors and Commercial Transportation, Inc., Councilman of Indianalantic, and operator of the Bahama Beach Club. Delta Kappa Epsilon. His widow is Jane W. Rolland, 301 Oak St., Melbourne.

EVERETT WINSLOW HOBART '23, in Cincinnati, Oct. 6. Prior to his retirement as an industrial engineering consultant, he was President of the Triumph Electric Corp., Cincinnati. During World War II, he served with the War Production Board, Washington, D. C. Sigma Chi. His widow is Louise D. Hobart, 1208 Brushwood Ave., Cincinnati.

HOWARD HENDERSON REX '31, in Pawtucket, Nov. 12. He had been Pawtucket City Clerk since 1955 and long active in political, veterans', and fraternal affairs. He had been self-employed as an accountant prior to the city appointment. During World War II, he was a Chief Petty Officer, USN. He was a member of the Dusza Almeida and Maj. Walter G. Gatchell Posts, VFW, and the International Institute of Municipal Clerks. His widow is Kathleen K. Rex, 66 Federal St., Pawtucket.

JOHN HENRY GILLICK, A.M. '36, in Lowell, Mass., Nov. 22. A retired Principal of Mount Pleasant High School, Providence, he was Chairman of the Johnston School Committee from 1960 to 1964. During the latter tenure, administrative changes were made that affected every segment of the school system. During World War I, he served as Ens., USN. He had graduated from Holy Cross College in 1912, taught at Lowell High School and LaSalle Academy, and served for a time as Vice-Principal of George West Junior High School, Providence. While at Mount Pleasant, he served as an officer in the New England Secondary and Rhode Island Schools Associations. He was also Past President of the Rhode Island As-

sociation of School Committees and former Commander of American Legion Post 1 of Providence. His widow is Mary L. Gillick, 4 Forest Hill Dr., Centerdale, R. I.

HAROLD WILLIAM LEVIN '52, in New York City, Nov. 14. He had recently moved to Asheville, N. C., where he was New England representative for Welco Shoe Corp., Waynesville, N. C. He had also been employed as executive co-ordinator with H. Scheft Co., Boston. He served as 2/Lt. for two years with the Marines. He was a member of Two-Ten Associates, shoe leather associates; Boston Shoe Travelers, and Combined Jewish Philanthropies. Delta Kappa Epsilon. His widow is Patricia H. Levin, 85 Hunter Dr., West Hartford.

HARFORD WILLING HARE POWEL, JR., '52, A.M. '54, in Andover, Mass., Nov. 20. He was an Assistant in the Brown English Department while a graduate student and then joined the Faculty of Phillips Academy as an English Instructor. He was an Editor of the *Phillips Bulletin* and wrote well. He had sustained injuries in the Army as a combat photographer from 1941 to 1948, and illness, which forced his retirement at Andover in 1960, cut short a scholarly career of much promise. His widow is Virginia W. Powel, 59 Salem St., Andover.

DANIEL LEO KELLY '60, near Frankfurt, Germany, Oct. 16. After graduation, he travelled to Germany to begin study for his Master's degree at the University of Munich. While in Germany he was employed as a Latin and English teacher at a preparatory school near Munich. His parents are Mr. and Mrs. Robert M. Kelly, Sr., 704 Front St., Weymouth, Mass.

Account, with Interest

AT A MEETING of the American Chemical Society in Detroit last spring, a wager was laid concerning a forthcoming election of officers in the Society between two prominent members of the profession in the presence of Dr. L. B. Clapp. Since the bet was of long-term duration, Professor Clapp offered to hold stakes, providing the money could be invested for the benefit of Brown University. The sum of \$20 was subsequently invested in a savings account of a Providence bank, and, at the termination of the bet recently, the interest of 20 cents was turned over to the Josiah S. Carberry Fund.

The winner of the bet, a chemist at the University of Illinois, was so elated at winning and so charmed by the story of Prof. Josiah S. Carberry that he sent \$5 of his winnings to the Carberry Fund to be used to buy books, of which Professor Carberry might or might not approve.

It is suggested that friends of Professor Carberry be on the alert for opportunities of holding stakes of wagers made in scholarly and scientific organizations.



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