Speakers

Fourth Annual World Affairs Institute

McNeill Smith, *General Chairman*
Attorney-at-Law, Greensboro, N. C.

Reverend Rodney Shaw
Director, Mid-West Region, United World Federalists, Inc., Oconomowoc, Wisconsin

Reverend Ray E. Short
Associate Professor of Religion and Chaplain, Tennessee Wesleyan College, Athens, Tennessee

Dr. Charles Price
Blanchard Professor of Chemistry, and Director of the Department of Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania

Asa T. Spaulding
Vice-President, Actuary and Controller, N. C. Mutual Life Insurance Company, Durham, North Carolina

Mrs. Miriam Levering
Quaker Leader and Secretary, United Church Women of North Carolina, Ararat, Virginia

Dr. William E. Reed
Dean, School of Agriculture, the Agricultural & Technical College of North Carolina, Greensboro, North Carolina

Neal Potter
Researcher in the problems dealing with natural resources, Chevy Chase, Maryland

Samuel R. Levering
Horticulturist, Orchardist, Quaker leader. Chairman of the Peace Board of the Five Years Meeting of Friends, Ararat, Virginia

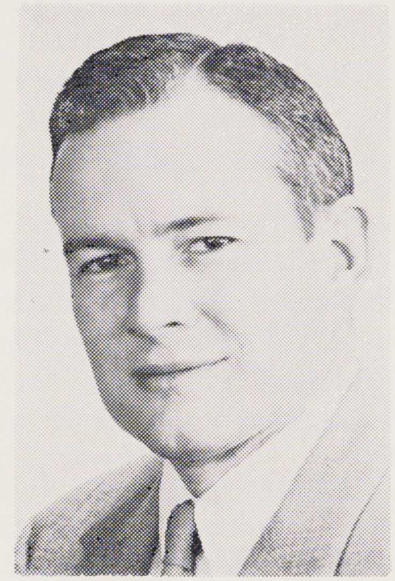
Reverend Seth B. Hinshaw
Executive Secretary, North Carolina Yearly Meeting of Friends, Guilford College, North Carolina

Science, Power and Freedom

By Dr. Charles C. Price

Biographical

Dr. Charles C. Price, born July 13, 1913. *Education* — George School, 1930; Swarthmore College, B.A., 1934; Harvard University, M.A., 1935, Ph.D., 1936. *Professional Career* — University of Illinois (1936-1946), Research Associate and Associate Professor of Chemistry; University of Notre Dame (1946-1954), Professor of Chemistry and Head of that Department; University of Pennsylvania (1954-present), Blanchard Professor of Chemistry, Dir. John Harrison Lab. of Chemistry, Chairman of Dep't. of Chemistry. *Honors*—Award (1946) American Chemical Society; Army-Navy Certificate of Merit (1946) for wartime research; Doctor of Science (Hon.), Swarthmore College; Honor Scroll Award (1955), American Institute of Chemists. *Government Service*—Office of Scientific Research and Development, National Research Council, American Chemical Society, National Science Foundation, Past-President Federation of American Scientists.



Dr. Charles C. Price

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The progress of science and engineering has been developing new power at a rate which has amazed even the scientists. During World War II, we developed "block busters" packing the then colossal punch of a ton of TNT. Ten years later, the first H-bomb was exploded with a wallop of 20,000,000 tons of TNT. Almost as impressive as the immense increase in power is the decreased cost of power. The ton of TNT in World War II cost $20; its equivalent in an H-bomb costs about 10 cents!

I still marvel every time I fly in a plane at 300 m.p.h. several miles above the earth. But last December, we announced the test of a long range missile that went 600 miles above the surface of the earth at a speed of 16,000 m.ph. for a total distance of 3,500 miles. We are truly just around the corner from the