

THE THIRD TYKOCINER MEMORIAL LECTURE

SCIENCE AND HUMAN EXPERIENCE

**“Mephistopheles is alive and well and
living in the Space Age”**

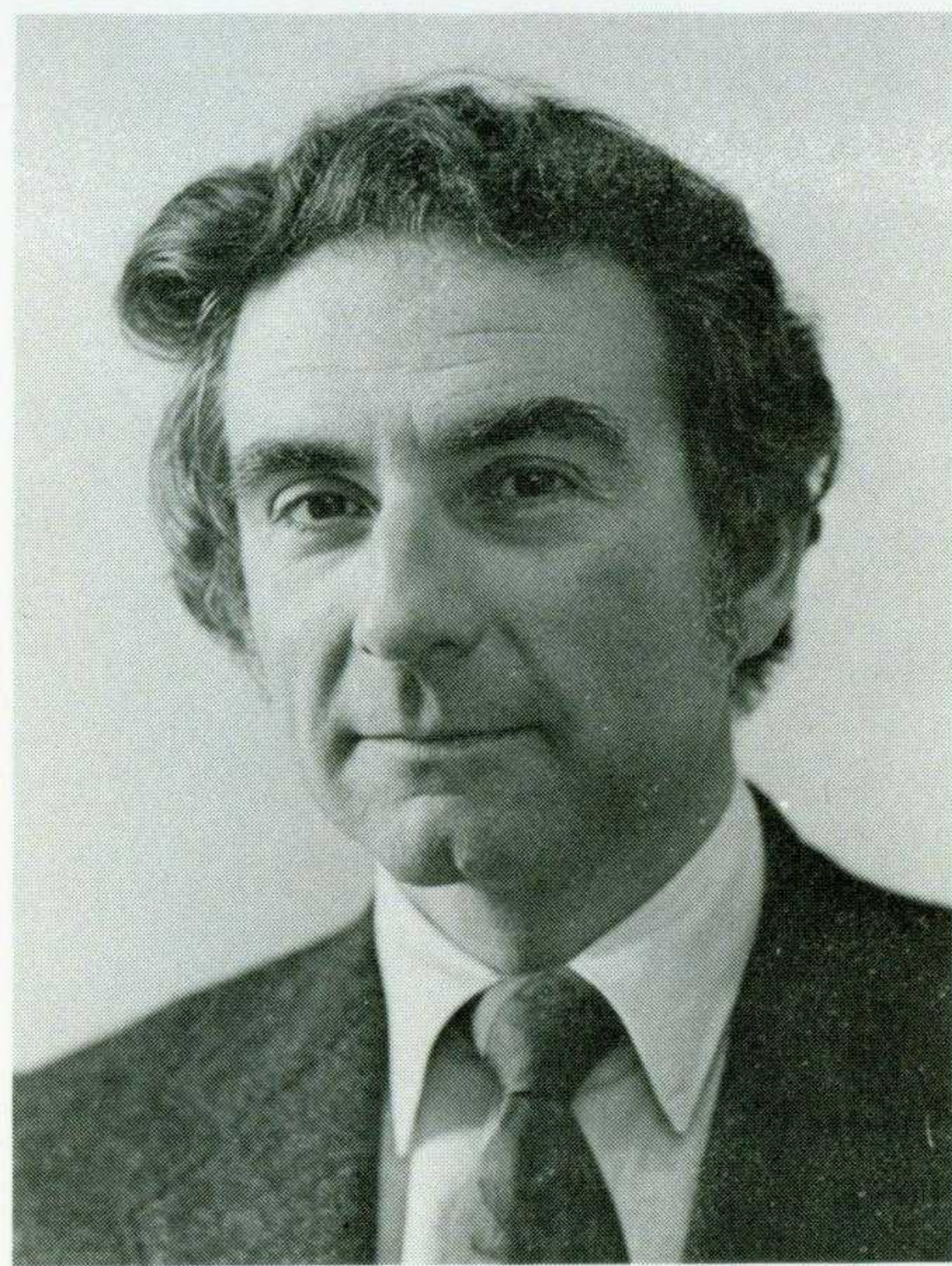
LEON N. COOPER

Nobel Laureate in Physics

112 Gregory Hall

March 25, 1976

8:00 p.m.



LEON N. COOPER

Leon N. Cooper is the Thomas J. Watson, Sr., Professor of Science and the Director of the Center for Neural Studies at Brown University. He was born in New York City in 1930. He received his A.B., A.M., and Ph.D. from Columbia University and, after graduation, became a member of the Institute for Advanced Study at Princeton.

As a postdoctoral research associate at the University of Illinois at Urbana-Champaign (1955-1957), he collaborated with John Bardeen and J. Robert Schrieffer. Their work on the BCS Theory of Superconductivity resulted in a Nobel Prize, which was awarded to them in 1972.

Dr. Cooper has been a National Science Foundation Postdoctoral Fellow, an Alfred P. Sloan Foundation Research Fellow, and a John Simon Guggenheim Memorial Foundation Fellow. He has been awarded honorary Doctor of Science degrees from Columbia University (1973), University of Sussex (1973), University of Illinois (1974), Brown University (1974), and Gustavus Adolphus College (1975). He received the Comstock Prize from the National Academy of Sciences (1968) and the Award of Excellence from the Graduate Faculties Alumni of Columbia University (1974).

Professor Cooper has been a visiting professor at various universities and a consultant to government agencies and industrial and educational organizations. He is a Fellow of the American Physical Society and American Academy of Arts and Sciences; a Sponsor of the Federation of American Scientists; and a Member of the American Philosophical Society, National Academy of Sciences, Phi Beta Kappa, and Sigma Xi.

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Welcome

Morton W. Weir, Vice Chancellor

Introduction of the Speaker

John Bardeen, Professor of Electrical Engineering
and Physics, Emeritus

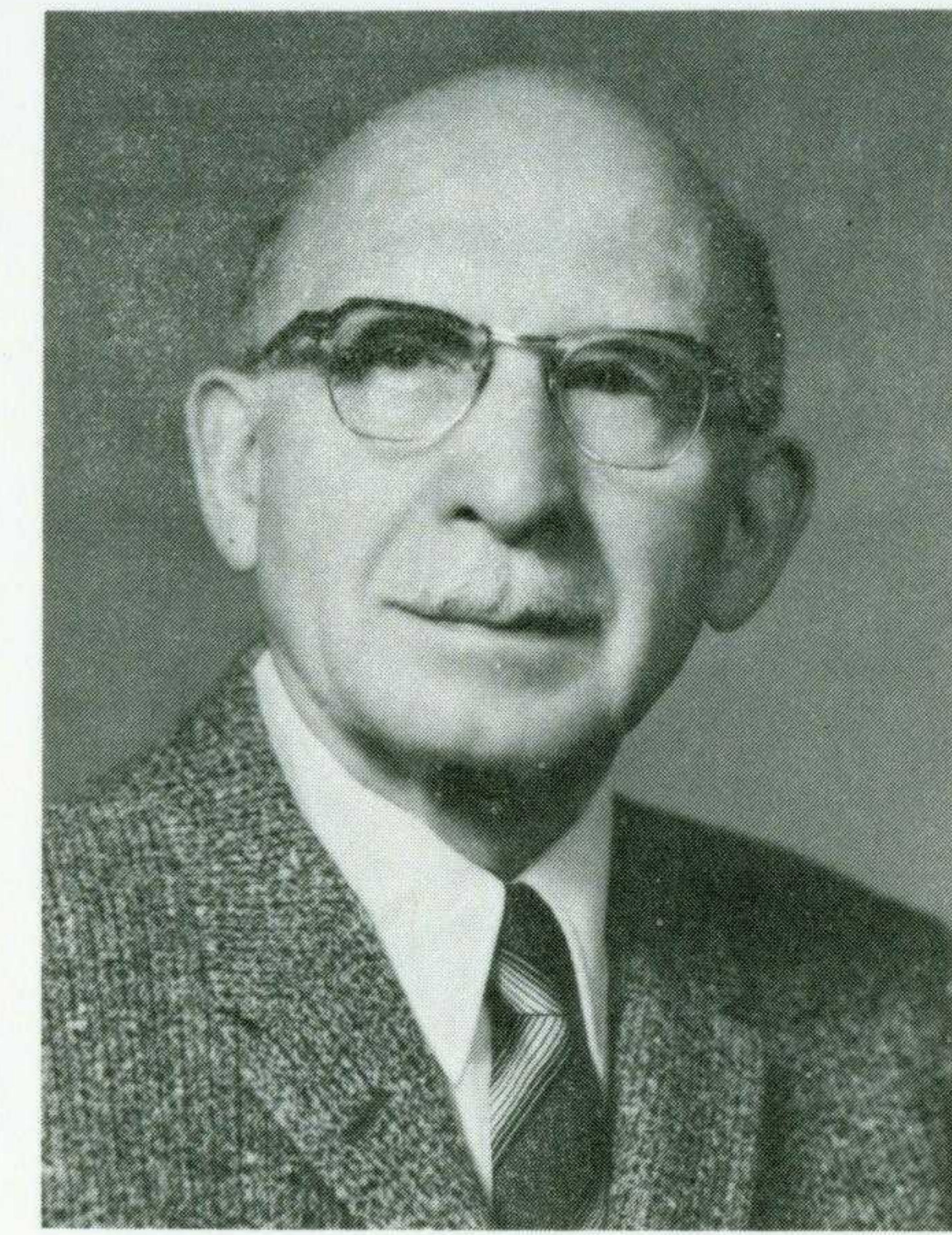
Speaker

Leon N. Cooper

Science and Human Experience

"Mephistopheles is alive and well and living in the Space Age"

The first Tykociner Memorial Lecture, presented in 1972, commemorated the fiftieth anniversary of the first public demonstration of sound-on-film by Professor J. T. Tykociner.



JOSEPH TYKOCINSKI TYKOCINER
1877-1969

Born and educated in Poland, Professor Tykociner worked with Marconi on the first transatlantic wireless communication. His active career as engineer and scientist spanned more than seventy years. The first fifty years of his work were mainly in the physical sciences, beginning as a pioneer in the field of radio. He is probably best known for his invention of sound-on-film, successfully demonstrated in 1922 at the University of Illinois. In all of this work his motives were humanistic; his goals were to improve communications as a tool for education and to improve understanding among peoples. His last score of years was devoted with intensity to the study of the science of research which he named "Zetetics"; this field encompasses the humanities, arts, and social sciences as well as the physical sciences. Professor Tykociner bequeathed his estate to the University for continuation of this science. His dream of integrating all research and knowledge has led to the establishment of this lecture series, made possible by the Tykociner Memorial Fund.

Professor Tykociner was a member of the Electrical Engineering Faculty at the University of Illinois at Urbana-Champaign from 1921 until he retired in 1948. He remained a very active Professor Emeritus until his death in 1969.