



OFFICE OF THE PRESIDENT

July 10, 1958

To Members of the Faculty:

I am happy to announce the appointment of Dr. David J. Rose as Associate Professor of Nuclear Engineering, effective September 1. Dr. Rose, who has been a member of the staff of the Bell Telephone Laboratories at Murray Hill, N.J., for the past seven years, will be responsible in the Department of Nuclear Engineering for instruction in applications of plasma dynamics of controlled fusion, and will participate in an interdepartmental program of plasma research.

The present world-wide effort to develop a practical means of producing nuclear power by the fusion of hydrogen isotopes is concerned with the means for heating hydrogen atoms to temperatures as high as those met in the interior of stars and confining them long enough to permit fusion to take place. Under these extreme conditions hydrogen exists in the form of a plasma, a mixture of positively charged hydrogen ions and negatively charged electrons.

Use of plasmas in fusion research is only one of the many important applications of this state of matter. Other applications are in gaseous electronic devices, high temperature chemistry, hypersonic flow and ionic propulsion of rockets. M.I.T.'s program of research on plasma dynamics is aimed at understanding the fundamental behavior of plasmas underlying all of these applications. Dr. Rose's background in plasma physics makes him uniquely qualified to contribute to M.I.T.'s work in fusion and plasma research.

Dr. Rose was born in Victoria, British Columbia, in 1922. His undergraduate education, interrupted by three years of service in the Canadian Army, was received at the University of British Columbia, where he earned the degree of Bachelor of Applied Science in 1947. In 1950 he was awarded the Ph.D. degree in physics at M.I.T., and the following year served as ~~associate~~ research physicist for the British Columbia Research Council.

Dr. Rose and his wife, the former Constance Vivienne Fox of Victoria, B.C., have four children, Elizabeth, Hugh, Victoria and Andrew.

J. A. Stratton

ROSE  
APPT.