

sociate professors are **John Raich** and **Marvin Heller**.

Promotions at Ripon College are **Hla Shwe** to associate professor and **Wayne Broshar** to assistant professor.

Brown University named **Robert T. Beyer** chairman of the physics department, succeeding **Philip J. Bray**, who is studying in England during a one-year leave.

H. T. Darracott became deputy chief of the operations-analysis division of Advanced Concepts Agency. He was formerly with the Army Material Command.

Frederick Seitz Awarded Herbert Hoover Medal

Frederick Seitz was awarded the 1968 Herbert Hoover Medal for Distinguished Service by the Stanford Alumni Association. He is the retiring president of the National Academy of Sciences and newly elected president of Rockefeller University.

Seitz's research has been in solid-state and nuclear physics and he has served as dean and vice-president for research at the University of Illinois. Science adviser to the North Atlantic Treaty Organization in 1959 and 1960, he was also a civilian member of the National Defense Research Committee and consultant to the Secretary of War during the second world war.

President of the American Physical Society in 1961, he was also chairman of the governing board of the American Institute of Physics from 1954-59.

Svestka, Czech Astrophysicist, Receives Guggenheim Award

Zdeněk Svestka, head of the solar department of the Astronomical Institute of the Czechoslovak Academy of Sciences, is the recipient of the Daniel and Florence Guggenheim International Astronautics Award. The award has been given annually since 1961 for contributions to space research and exploration in the previous five years. It includes a stipend of \$1000.

Svestka is on the staff of the Ondrejov Observatory and is professor of theoretical astrophysics at Charles

At Wisconsin State University W. **Parker Clark** became professor of physics emeritus. Succeeding him as chairman of the physics dept is **Frederick H. C. Schultz** from Washington State University.

Howard R. Bowen, president of the University of Iowa, was re-elected board chairman of Argonne Universities Association.

Russell D. Shelton, chief of the nuclear and plasma division at the Marshall Space Flight Center, Alabama, was named director of the Army Limited War Laboratory.

Moo Ung Kim joined Lycoming College in Williamsport, Pa.

University in Prague. His early work was concerned with photometric studies of the moon and variable stars, and he later became interested in research on solar flares and solar activity in general. He recently has concentrated on proton flares. Svestka is chairman of the Commission on Solar Activity of the International Astronomical Union and editor-in-chief of the monthly journal *Solar Physics*.

Franklin Institute Honors Theuerer, Duwez, Berger

Medal Day at the Franklin Institute honored 11 scientists and engineers for their achievements. Among the physicist winners were Henry C. Theuerer, receiving the Longstreth Medal, Pol Edgard Duwez, the Clamer Medal, and Karl Berger, the Levy Medal. The Michelson and Ballantine Medals went to Dennis Gabor and Chandra K. N. Patel, respectively (PHYSICS TODAY, November, pages 115 and 119). The institute's highest award, the Franklin Medal, was given to Marshall W. Nirenberg, for his role in breaking the genetic code.

Theuerer, who is with Bell Telephone Laboratories, was cited for "significant new ideas" in solid-state science and technology. He conceived and developed the floating-zone process, which is used to attain ultrapure samples of materials in single-crystal form.

In addition, he developed processes for producing epitaxial layers on silicon, many chemical means for preparing semiconductor raw materials and a



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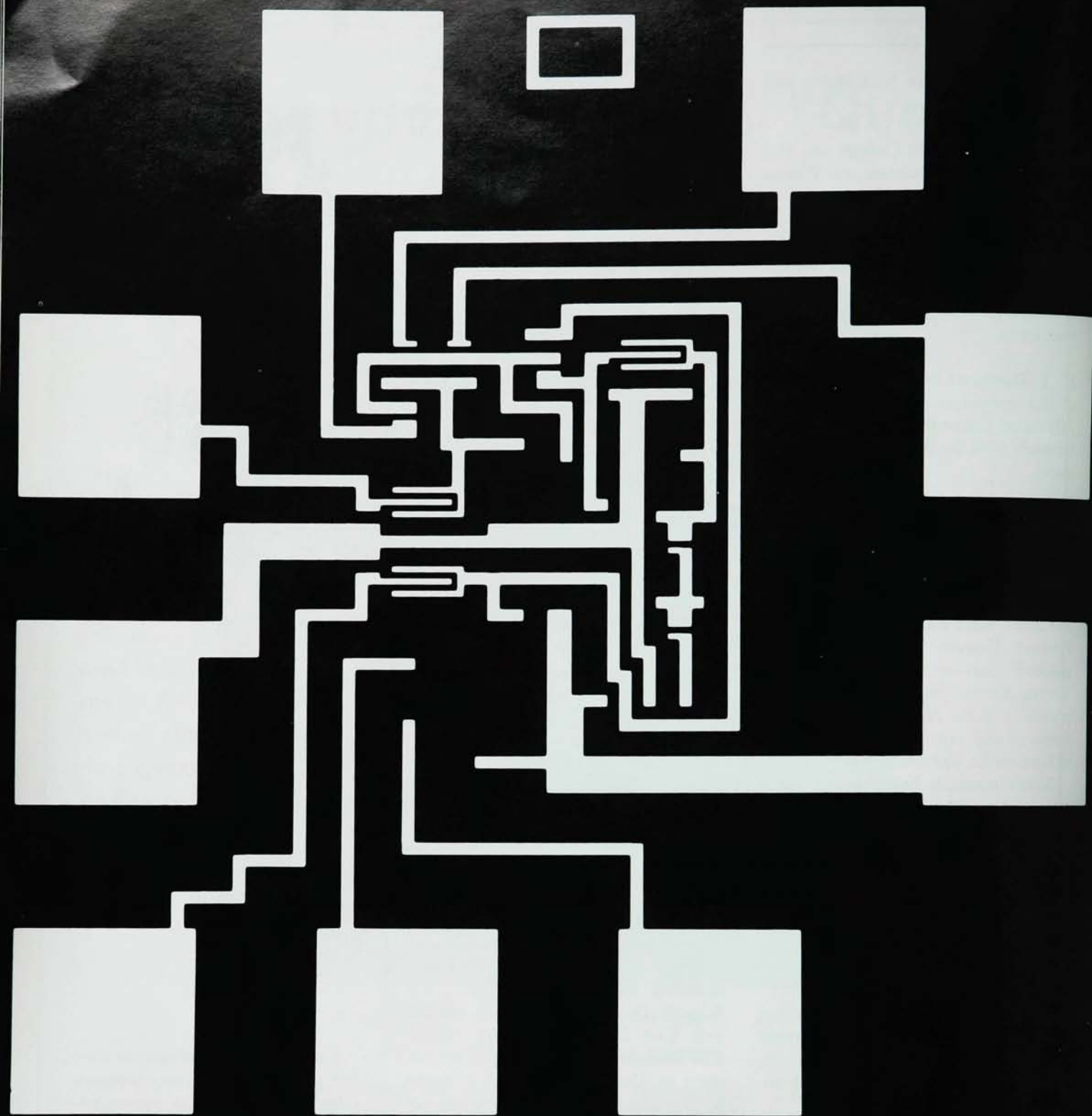
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process for controlling the composition of a gas phase from a liquid solution having components of widely differing volatilities. Recently he developed the getter-sputtering technique for preparation of pure thin metallic films.

A professor at the California Institute of Technology, Duwez was honored for his achievements in metallurgy, especially the "gun technique" for the rapid cooling of molten metals.

His other research of the structure of materials includes speed of deformation, plastic flow, x-ray diffraction, sintering, powder metallurgy, crystal structure, effects of temperature and materials for supersonic aircraft.

Karl Berger received the Levy Medal for his paper "Novel Observations on Lightning Discharges: Results of Research on Mount San Salvatore," published in June 1967 in the *Journal of the Franklin Institute*.

Keivin Burns Teaching Award Given by Spectroscopy Society

The Spectroscopy Society of Pittsburgh has created the Keivin Burns Citation for excellence in elementary- and secondary-school science teaching. Burns taught at Allegheny Observatory and the University of Pittsburgh from 1920 until his death in 1958. He introduced spectrochemical analysis into the US and obtained the first infrared photographs from airplanes during the first world war. At the observatory he was concerned with precise measurements of wavelengths of light from the sun. The award consists of a scroll and an honorarium of \$100.

Montana State Creates Arthur Johnson Award

The physics department of Montana State University has established the Arthur J. M. Johnson award. The award is to be presented annually to the senior physics major who has demonstrated the greatest accomplishment in physics. The first recipient was John B. Kolesar.

The award honors A. J. M. Johnson who is retiring from physics after 38 years at the university, where he also served as head of the department. Friends and former students are financially supporting the award in remembrance of Johnson's teaching excellence. Through the years, Johnson

has maintained close contact with every student who has graduated from the department. The award is an individually engraved sterling silver medallion in the likeness of the man it honors, Johnson.

S of R Honors Ericksen With Bingham Medal

Jerald L. Ericksen will receive this month the Bingham Medal from the Society of Rheology. He is a professor in the mechanics department of Johns Hopkins University.

Ericksen is known for his theoretical work in continuum mechanics. He advanced the idea of specifying all deformations possible for materials of a certain class of constitutive equations, which is basic to the rational measurement of material properties. In further development, he showed that rectilinear flow through noncircular tubes was possible for only special fluids and therefore that nonrectilinear flow can usually be expected for non-Newtonian fluids.

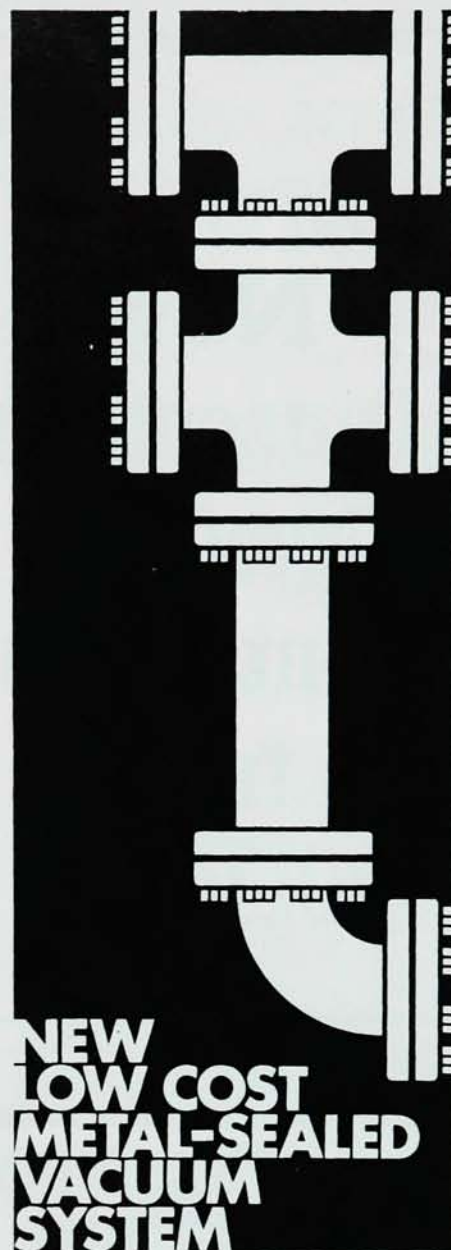
By studying surfaces of discontinuity of mechanical parameters, Ericksen also prompted the study of propagation of waves in nonlinear materials. Recently, he has been developing a rational approach to the mechanical theory of liquid crystals through his concept of anisotropic fluids.

Given annually, the award honors significant contributions to rheology and is named for Eugene Cook Bingham, who was responsible for coining the term rheology and establishing the society.

Karl Jansky Lectureship Given to J. S. Shklovsky

The National Radio Astronomy Observatory gave the third Karl G. Jansky Lectureship to J. S. Shklovsky, professor at the Sternberg Astronomical Institute, Moscow. He is known for his theory of supernova remnants, first recognition that the synchrotron mechanism is responsible for radio radiation from extragalactic radio sources and theories of cosmic rays and x-ray sources. Shklovsky made the prediction, later confirmed observationally, that the supernova remnant Cassiopeia A would decrease in intensity by a few per cent per year.

The lectureship was established by the trustees of Associated Universities, Inc., which operates the observatory, and was first awarded in 1966. It is



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