

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.

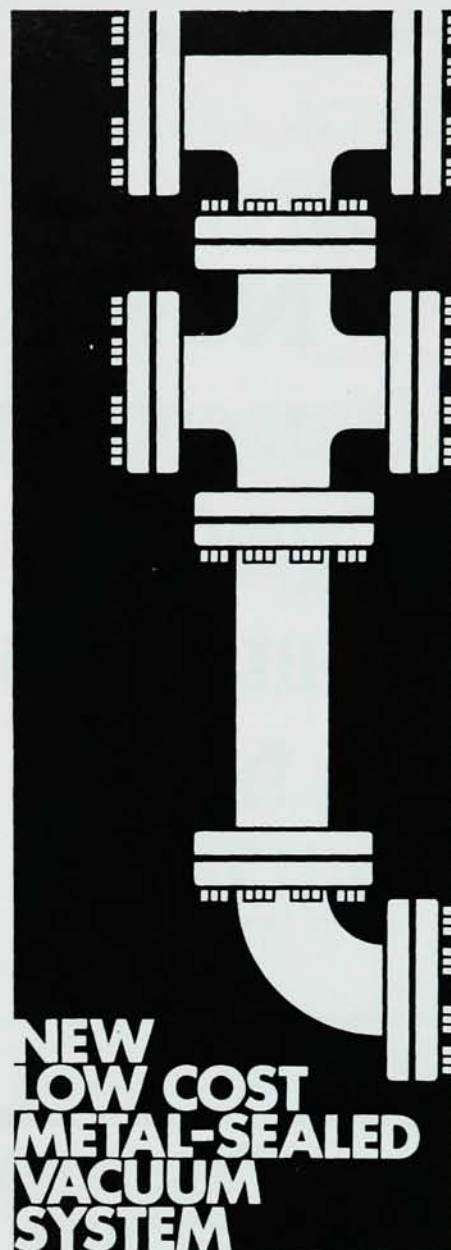
By studying surfaces of discontinuity of mechanical parameters, Ericksen also prompted the study of propagation of waves in nonlinear materials. Recently, he has been developing a rational approach to the mechanical theory of liquid crystals through his concept of anisotropic fluids.

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



Ask yourself whether you ever really bake out that vacuum system. If not, you're paying through the nose for heavy joint fittings you don't need. Look what our stainless-steel system can do for your budget:

	Brand A	Brand B	Brand C	High Voltage Eng.	
Seals	Copper	Copper	Copper	Viton "O" Rings	"C" Seals
Selling Price 4" Plumbing System	\$1,704	\$1,674	\$1,666	\$619	\$702

Besides, our plumbing has patented flanges and seals that are marvelously flexible, easy to change, and sexless. When organics in the system aren't super-critical, use our O-rings. When radiation levels are high, use our new metal seal. Everything else stays the same — plumbing, flanges, couplings, and the low price.

**HV HIGH VOLTAGE ENGINEERING
EQUIPMENT DIVISION**
Burlington, Massachusetts