



We Bring Engineers, Scientists & the IBM-PC Together

Modular Data Acquisition System

- 12-bit resolution
- 24 KHz throughput rate
- 16 channel single ended,
8 channel differential
- LABSTAR Software

\$690.00

- 8-bit resolution
- 30 KHz throughput rate
- 16 channel SE, 8 DI

\$490.00

IEEE-488 GPIB Multifunction Board

- Full GPIB controller capability
- Three 16-bit interval timers
- 24 digital I/O lines
- Software included

\$495.00

Waveform Synthesizer Board

- Generates user-definable signal
- Up to 2000 points per envelop
- 200 ns maximum output rate
per point

\$795.00

Call or write for a complete list of our data acquisition products and other quality products for your IBM-PC, including our RS-232C/RS422 Serial Communications Board, Counter/Timer Module, and 8-bit or 12-bit D/A Modules.



QUA TECH, INC.
478 E. Exchange St.
Akron, OH 44304
(216) 434-3154

Please call for more information.

staff member of the Hale Observatories (1970-80), he served as principal or co-investigator for several satellite infrared radiometers and as team leader of the infrared radiometer for the Large Space Telescope definition study. Since 1980, he has served as director of the Palomar Observatory. Since 1976, he has been the US Principal Scientist for the infrared astronomical satellites.

First Frenkiel Award for fluid mechanics to Herbolzheimer

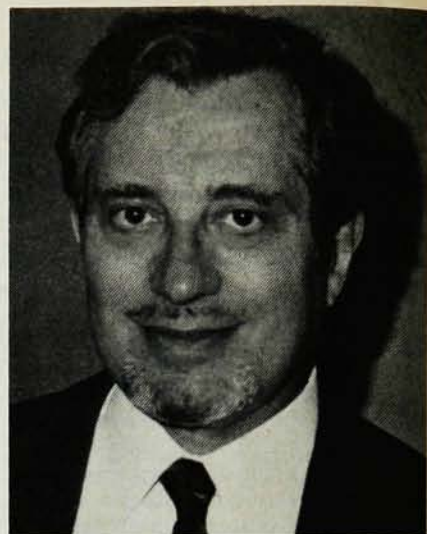
Erich Herbolzheimer of the California Institute of Technology is the first recipient of an award established by the journal *The Physics of Fluids* to honor its founder and longtime editor, François Naftali Frenkiel. Herbolzheimer is being honored for his "complete and well-presented analysis of the stability of sedimentary layers in inclined channels," in a paper that appeared in the journal in 1983. He received his PhD in chemical engineering from Stanford University in 1980. During the academic year 1979-80, he worked as a National Science Foundation postdoctoral fellow in the department of applied mechanics and theoretical physics at the University of Cambridge. Herbolzheimer has been an assistant professor of chemical engineering at the California Institute of Technology since 1980.

The Frenkiel award will be given annually hereafter to recognize significant contributions to the study of fluid mechanics that have been published in *The Physics of Fluids* by young investigators during the preceding calendar year.

Coleman receives Bingham Medal from Society of Rheology

Bernard D. Coleman of the Carnegie-Mellon University has been named the 1984 Bingham Medalist of the Society of Rheology, in recognition of his influential work in rheology.

Coleman received his PhD in physical chemistry in 1953 from Yale University. He then worked for three years at the Carothers Research Laboratory of the Du Pont Company, conducting basic research on the tensile strength of fibers—the results of which are still widely quoted in the literature. He joined the Mellon Institute in 1957 and is currently professor of mathematics and biology at the Carnegie-Mellon University. Coleman and his collaborators have performed basic theoretical studies of the viscometric flow of non-Newtonian fluids, linear and nonlinear viscoelasticity, thermo-



COLEMAN

dynamics of deforming materials, the stability of various types of flows, and deformations and birefringence of flowing and deforming materials. His work is known for its mathematical rigor. In addition, he has obtained some important results that can be checked experimentally; some have been confirmed. The book he wrote with H. Markowitz and W. Noll, *Viscometric Flows of Non-Newtonian Fluids*, has received wide recognition as a reference on viscometry and the measurement of normal-stress differences.

APS Southeastern Section honors research, teaching

The Southeastern Section of The American Physical Society has presented the following annual awards: the Beams Award was presented to Rufus H. Ritchie of the Oak Ridge National Laboratory and the University of Tennessee in Knoxville; the Pegram Medal was awarded to L. Craig Whitlock of Mississippi College in Clinton, Mississippi; and special Pegram Medals were awarded to Donald E. Edwards, professor emeritus of physics at North Carolina A&T State University in Greensboro, and Peyton Nalle Rhodes, professor emeritus of physics and former president of Rhodes College in Memphis.

The Beams Medal is presented to persons who have done outstanding physics research in the southeast; Ritchie was recognized for "his work in theoretical analysis and his discovery of surface plasmons in 1957, which has led to a broad vista of research in surface physics, and for his pioneering contributions in the theory of stopping power in condensed matter."

The Pegram Medal is awarded to outstanding physics teachers in the southeast; special Pegram Medals are