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Society of Rheology presents Bingham Medal to Metzner

The Society of Rheology has selected Arthur B. Metzner as the Bingham Medalist for 1977. Metzner, who is the H. Fletcher Brown Professor of Chemical Engineering and chairman of the department at the University of Delaware, will receive the Bingham Medal during the Society's 48th annual meeting, on 25 October at the University of Wisconsin, Madison.

Metzner's early work in the 1950s was concerned with generalizing the traditional friction factors and Reynolds numbers of fluid mechanics to allow for non-Newtonian behavior; eventually he also made generalizations in the areas of heat transfer and mixing. His recent research interests have been the measurement of normal stresses and the development of tractable constitutive (stress-strain-strain rate) equations.

A native of Canada, Metzner came to the US to do graduate work at the Massachusetts Institute of Technology, where he earned his PhD in chemical engineering in 1951. He then spent two years as an instructor at the Polytechnic Institute of New York (Brooklyn) before joining the faculty at the University of Delaware in 1953. Metzner received his present title in 1962 and became chairman of the department in 1970. He is also an industrial consultant to the General Motors, Mobil Oil and Union Carbide corporations. He has been honored with awards of numerous professional societies—most recently he received the W. K. Lewis Award of the American Institute of Chemical Engineers for contributions to chemical-engineering education.

The Bingham Medal is awarded annually to a resident of North America who has made an outstanding contribution to the science of rheology or who has performed meritorious service to the Society.

METZNER

Kathren and Stannard win health-physics awards

The Health Physics Society has presented awards to Ronald L. Kathren of the General Electric Co (Portland, Ore.) and J. Newell Stannard of the University of Rochester School of Medicine and Dentistry.

Kathren, a health physicist, received the Elda E. Anderson Award for health-physics administration, research and development, and training. The Anderson Award is presented annually to a Society member under 40 years of age.

Stannard is emeritus professor of radiation biology, biophysics and pharmacology; he was honored with the Distinguished Achievement Award. Stannard served as president of the Health Physics Society during 1969–70.

Spear receives Europhysics prize

The European Physical Society has awarded the 1977 Hewlett-Packard Europhysics Prize to Walter E. Spear, professor of physics at the Carnegie Laboratory of Physics, University of Dundee (Scotland). The prize, which is contributed by the Hewlett-Packard Co, is awarded annually with 20 000 Swiss francs for outstanding achievement in the field of solid-state physics.

Spear has worked on the electronic properties of the tetrahedral semiconductors silicon and germanium. He and his colleagues at the University of Dundee systematically altered the electronic properties of the amorphous semiconductors by means of substitutional doping (see PHYSICS TODAY, January, page 17).

Among his numerous honors, Spear most recently received the Max Born Medal and Prize of the (British) Institute of Physics and the German Physical Society (see PHYSICS TODAY, August, page 69).

Andrews gives Millikan Lecture Award address

C. Luther Andrews, distinguished teaching professor of physics at the State University of New York, Albany, was awarded the Robert A. Millikan Lecture Award of the American Association of Physics Teachers at its summer meeting in June in Rio Piedras, P.R. The Award, which consists of a medal and citation, is supported by an annual gift from Prentice-Hall Inc.

Andrews earned his PhD in physics at Cornell University in 1938 and continued in a faculty position he held at the time at the New York State College for Teachers in Albany. In 1944 he was named professor of physics at SUNY, Albany, and was chairman of the department of physics there until 1969. In 1976 he received his present title.

Cited for "his creative work in the teaching of physics," Andrews numbers among his interests the history of physics, optics, electronics, applied mathematics and microwave optics.

The following appointments have been announced by the University of Illinois physics department: **Paul T. Debevec** (Indiana University) as associate professor, and **Jon J. Thaler** (Princeton University) and **Alan M. Nathan** (Brookhaven National Laboratory) as assistant professors; **E. Atlee Jackson, Vijay R. Pandharipande** and **W. D. Watson** have all been promoted to the rank of professor.

Formerly of the laser-technology department of Block Engineering Inc, **Henry J. Caulfield** has joined Aerodyne Research Inc (Bedford, Mass.) where he will be a principal scientist concerned with applications of new photographic methods,

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electro-optics technology and coherent optics.

At the RCA Laboratories in Princeton, N.J., **David E. Carlson** has been named head, photovoltaic-device development, and **Charles J. Nuese** has become head, semiconductor-research devices.

Richard B. Bernstein has been appointed the Higgins Professor of Natural Science at Columbia University; he was formerly the W. T. Doherty Professor of Chemistry and professor of physics at the University of Texas, Austin.

At the University of South Carolina, **Edwin R. Jones Jr** has been promoted to the rank of professor in the department of physics and astronomy.

Chuck Hardesty, formerly a lens designer at Itek Corp, has joined Space Optics Research Labs (Chelmsford, Mass.) as senior optical scientist.

At CERN, **Erwin Gabathuler** has been appointed leader of the experimental-physics division; he was formerly the project leader of the European muon collaboration.

Formerly assistant professor of physics at Lafayette College (Easton, Penn.), **Theodore H. Ansbacher** has been named education manager at Chicago's Museum of Science and Industry.

Raymond R. Myers, chairman of the Kent State University chemistry department, has been named University Professor; Myers has also been the editor of the *Transactions of the Society of Rheology.*

The first Ludwig Boltzmann Prize of Austria has been awarded to **Victor F. Weisskopf** of the Massachusetts Institute of Technology. The award is intended to honor contributions to Austrian research and research policy.

The Electrochemical Society has presented its Electronics Division Award to **A. Y. Cho** (Bell Laboratories) for his work on the molecular-beam epitaxy process, a method for growing crystals used in transistors, diodes, lasers and other electronic components.

At the Iowa State University, **Sam Legvold,** professor of physics, has been named Distinguished Professor in Sciences and Humanities.

At the California State College, Stanislaus, **Tai L. Chow** has been promoted to full professor of physics.

David B. Beard has been named University Distinguished Professor of Physics at the University of Kansas.

Dave Farrell, formerly a graduate student in the University of Rochester, has joined Burleigh Instruments (East Rochester, N.Y.) as product-line manager.

obituaries

G. Kenneth Green

BNL

GREEN

G. Kenneth Green, a Brookhaven National Laboratory scientist for more than thirty years and one of the world's best known accelerator experts, died 15 August at the age of 66.

Green was born in Illinois in 1911 and his formal educational training was at the University of Illinois, where he received a BS in 1933 and a PhD in 1937. He was a student of P. Gerald Kruger, one of the pioneers in nuclear physics. Together they constructed one of the first cyclotrons and performed some of the early studies on nuclear disintegration.

After receiving his PhD, Green was awarded a National Research Fellowship. With this support he moved to the University of California, Berkeley, where he studied with the group that was headed by Ernest Lawrence and included Luis Alvarez and Edwin M. McMillan. Here, in the birthplace of the cyclotron, he added to his sophisticated appreciation of the accelerator art.

In 1939 he went from Berkeley to the Carnegie Institution's department of terrestrial magnetism. There a program on the development of particle accelerators and their use in nuclear physics had been in progress for almost a decade.