

Nielsen wins Bingham Medal

The Society of Rheology has chosen Lawrence E. Nielsen as the 1976 Bingham Medalist. Nielsen is with the corporate research department of Monsanto Co, St Louis, Missouri, where he serves as Distinguished Science Fellow.

Nielsen has spent most of his career studying the relationship between the mechanical properties of high polymers and composite materials to their molecular and colloidal structure. He has also worked on the rheological behavior of concentrated suspensions. His interest in instrumentation led to the development of a torsion pendulum that has been widely used in investigations of the dynamic properties of materials.

Nielsen is the author of *Mechanical Properties of High Polymers*, which was published in 1962. More recently, he has completed a two-volume work entitled, *Mechanical Properties of Polymers and Composites*.

After receiving his PhD in physical chemistry in 1945 from Cornell University, Nielsen joined Monsanto's plastics research laboratory. In 1963 he transferred to the corporate research department, where he holds his current position. He held an affiliate professorship at Washington University, 1965-76.

The Bingham Medal is presented an-



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nually 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. Nielsen will receive the medal in March at the Society's 47th annual meeting in New York City.



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Johns is presented AAPM Coolidge Award

The American Association of Physicists in Medicine has presented the Coolidge Award to Harold E. Johns, who is head of the Ontario Cancer Institute physics division.

The award, which is named for x-ray pioneer William D. Coolidge, recognizes "distinguished careers in medical physics" and consists of a bronze plaque. Johns was cited for his role in the development of the cobalt-60 unit for cancer treatment.

Johns received his doctorate from the University of Toronto in 1939 and later served as a physicist with the Saskatchewan Cancer Commission, 1945-56. He has taught at the Universities of Alberta, Saskatchewan and Toronto. He joined the Ontario Cancer Institute in 1956 and,

since 1958, he has held a professorship in the University of Toronto department of physics and medical biophysics.

His research interests include the physical basis of radiotherapy, the interaction of radiation with matter and the effects of ultraviolet light on DNA and its components.

Michael M. Holland has joined the fusion division of the General Atomic Co (San Diego, Calif.) as a senior scientist in plasma physics; he was formerly affiliated with the Columbia University physics department.

The Northeastern University physics department has named three new assistant professors—they are **David Johnson** (University of Chicago), **Michael Mallary** (California Institute of Technology) and **Fernando Medina** (Princeton University).

Barney L. Bales, **Duane R. Doty**, **Harbhajan S. Sandhu** and **Ryoichi Seki** have all been recently promoted to the rank of professor in the department of physics and astronomy, California State University, Northridge.

The Syracuse University department of physics has announced the appointment of **Edward Lipson** (California Institute of Technology) and **Carl Rosenzweig** (University of California, Berkeley) as assistant professors.

Gerald M. Rothberg has been named head of the department of materials and metallurgical engineering at Stevens Institute of Technology in Hoboken, N.J. Rothberg has served as acting head of the department and has also been director of the cryogenics center at Stevens since 1974.

The new chairman of the biophysics research division at the University of Michigan's Institute of Science and Technology is **Samuel Krimm**, professor of physics at the University.

Edward W. Hart, a physicist on the staff of the General Electric Research and Development Center (Schenectady, N.Y.) since 1951, has joined the faculty of Cornell University as professor of mechanics and materials science.

The new director of Yeshiva University's Maxwell R. Maybaum Institute for Material Sciences and Quantum Electronics