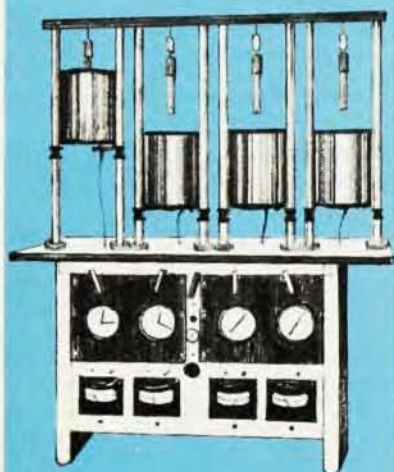


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an experimental group working together at SLAC, the prize committee noted that Perl "single-handedly pushed, inspired and directed the search for a new heavy lepton," and "it was his careful analysis of the early data which proved the existence of the new particle."

Perl received his PhD from Columbia University in 1955 and taught at the University of Michigan until 1964, when he came to Stanford University. He is now professor of physics there and active in high-energy physics research at SLAC.

The Wolf Foundation also recognized the "outstanding contributions in the field of chemistry" of John Polanyi and George Pimentel. They shared equally the cash award of \$100 000 that accompanies this honor.

Pimentel was cited "for development of matrix isolation spectroscopy and for discovery of photodissociation lasers and chemical lasers." Pimentel, now at the University of California, Berkeley, has also done work in infrared spectroscopy and molecular structure, chemical lasers, hydrogen bonding, infrared study of planetary atmospheres, rapid-scan infrared, and the thermodynamics of hydrocarbons. Since obtaining his PhD in chemistry from Berkeley in 1949, Pimentel has spent most of his career there. While pursuing his teaching and research activities he also found time to serve as deputy director of the National Science Foundation, from 1977 to 1980, and to contribute in numerous capacities as an adviser to



PIMENTEL

the science community.

Polanyi was cited by the Foundation "for his studies of chemical reactions in unprecedented detail by developing the infrared chemiluminescence technique, and for envisaging the chemical laser." Now at the University of Toronto, Polanyi has worked in reaction dynamics, photochemistry and energy exchange; he has also investigated by many means the atomic and molecular motions underlying chemical reactions. He obtained his PhD in chemistry from the University of Manchester in 1952 and worked with the National Research Council of Canada in Ottawa and at Princeton University before coming to the University of Toronto in 1956.

Beams and Pegram medals awarded

The Southeastern Section of The American Physical Society has presented its annual Beams and Pegram medals. The Pegram medal was given to Robert G. Hussey of Louisiana State University, a special Pegram medal was awarded to Paul E. Shearin of the University of North Carolina at Chapel Hill, and the Beams medal was presented to Horst Meyer of Duke University.

The George B. Pegram Medal is given each year by the Southeastern Section to recognize excellence in teaching within the region. Hussey was described as "a man of warmth and humility whose primary concern has always clearly been for the well-being and progress of his students."

Hussey has been a member of the Department of Physics and Astronomy at Louisiana State University since he received his PhD there in 1962. Since 1971 he has also been Associate Dean of the College of Chemistry and Physics. He has worked in fluid dynamics with a particular interest in the flow of incompressible fluids and in flow at low

Reynolds numbers. In addition to his teaching and research contributions, he has been a leader in the Louisiana Section of the American Association of Physics Teachers and in the Louisiana Academy of Sciences.

The special Pegram medal is awarded by the APS Section to recognize outstanding physics teaching within the region by a person who was teaching when the Southeastern Section was formed. Shearin was noted by his colleagues because "as a teacher, he provided a shining example of quiet effectiveness and persistent thoroughness for generations of undergraduate and graduate students."

Shearin began his teaching career in a high school during the Depression years. By 1937, when the Southeastern Section was founded, he was already teaching physics at the University of North Carolina, Chapel Hill. He remained there, serving on the faculty and as chairman of the Department of Physics and Astronomy until his retirement in 1972.

The Jesse Wakefield Beams Medal is given annually to recognize distinguished research in physics within the region. Meyer was noted for devising "exceptionally sensitive methods for measurements of pressure in fluids and solids." In addition, "he has advanced the understanding of the thermal excitations in magnetically ordered crystals, the magnetic susceptibility of liquid and solid He^3 , the behavior of molecules trapped in enclosure compounds, the magnetic and quadrupolar interactions in crystals of H, D, and He, and the scaling laws for critical phenomena in He liquids at the critical point, tricritical point and lambda transition."

Meyer joined the faculty of the Department of Physics at Duke University in 1959, after graduating from the University of Geneva and the University of Zurich, and after research and teaching appointments at Oxford and Harvard.

in brief

The Gravity Research Foundation has announced the winners of its 1983 awards for essays on gravitation. **Jeeva Anandan**, of the Max Planck Institut Für Physik und Astronomie, has won \$1500 for "New Relativistic Gravitational Effects Using Charged Particle Interferometry"; **Lee Smolin**, of the Institute for Advanced Study, has been awarded \$500 for "The Thermodynamics of Gravitation Radiation"; **Pawel Oskar Mazur**, of Jagellonian University in Poland, has won \$200 for "Black Hole Uniqueness from a Hidden Symmetry of Einstein's Gravity"; **E. Gunzig** and **P. Nardone**, of the Université Libre de Bruxelles, have jointly been awarded \$150 for "From Unstable Minkowski Space to the Inflationary Universe"; and **Bahram Mashhoon**, of the Institut Für Theoretische Physik in Cologne, has won \$100 for "On a New Gravitational Effect of a Rotating Mass."

Timothy Ingoldsby, formerly associate executive officer of the American Association of Physics Teachers, has become an educational specialist at Wang Laboratories' Atlantic Area Educational Center in New York.

New members elected to the **National Academy of Sciences** include: Felix H. Boehm, California Institute of Technology; Leopoldo M. Falicov, University of California, Berkeley; James L. Flanagan, Bell Labs; Carson D. Jeffries, University of California, Berkeley; Melvin Lax, City College of the CUNY; William C. Lineberger, University of Colorado; Allan McCormack, Tufts University; Norman F. Ness, Chiefs

Laboratory for Extraterrestrial Physics, Goddard Space Flight Center; Morton S. Roberts, director, National Radio Astronomy Observatory, Charlottesville; Isadore Rudnick, University of California, Los Angeles; Gareth Thomas, University of California, Berkeley; Alar Toomre, MIT; George H. Trilling, University of California, Berkeley; David T. Wilkinson, Princeton University. In addition, the Academy has elected Michael E. Fisher of the United Kingdom, who is currently Horace White

Professor of Chemistry, Physics and Mathematics at Cornell University, to be a foreign associate of the Academy.

John P. Schiffer, senior physicist and associate director of the Physics Division of Argonne National Laboratory, has been appointed chairman of the Nuclear Science Advisory Committee.

Frank N. Bash, chairman of the astronomy department at the University of Texas, Austin, has been appointed to



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