

NATIONAL ACADEMY OF ENGINEERING NAMES NEW MEMBERS

In February the National Academy of Engineering elected its new members for 1993. The number of new members is 73, and the number of new foreign associates is 8. The academy now has 1684 US members and 142 foreign associates.

Among the newly elected NAE members are the following:

Peter M. Banks, dean of engineering, University of Michigan, Ann Arbor

Harvey E. Cline, applied physicist, GE Corporate Research and Development Center, Schenectady, New York

Jerome B. Cohen, dean of engineering and applied science, Northwestern University

Jerome J. Cuomo, senior manager, Advanced Materials Laboratory, IBM T. J. Watson Research Center

Earl H. Dowell, dean of engineering, Duke University

Charles B. Duke, senior research fellow, Xerox Corporation

Jerald L. Ericksen, engineering consultant, Florence, Oregon

Robert L. Fleischer, staff member, GE Corporate Research and Development Center

Walter Herrmann, senior fellow, Sandia National Laboratories

David W. Johnson Jr., head, metallurgy and ceramic research, AT&T Bell Labs

Donald B. Keck, director, optoelectronics research, Corning Inc

Gerald L. Kulcinski, professor of nuclear engineering, University of Wisconsin, Madison

Sidney Leibovich, Samuel B. Eckert Professor of Mechanical and Aerospace Engineering, Cornell University

Linn F. Mollenauer, distinguished member of the technical staff, AT&T Bell Labs

E. Phillip Muntz, professor and chairman, department of aerospace engineering, University of Southern California

Tak H. Ning, fellow and head, SRDC technology council, IBM T. J. Wat-

son Research Center

Irene C. Peden, director, division of electrical and communications systems, National Science Foundation

Donald W. Pritchard, professor emeritus, Marine Science Research Center, State University of New York, Stony Brook

Nicholas Rott, visiting professor of aeronautics and astronautics, Stanford University

William B. Russel, professor and chairman, department of chemical engineering, Princeton University

Hsieh W. Shen, professor of civil engineering, University of California, Berkeley

Alvin W. Trivelpiece, director, Oak Ridge National Laboratory

Charles M. Vest, president, MIT

Watt W. Webb, professor of applied engineering physics, Cornell University.

The new NAE foreign associates include:

Che-Ming Chen, director emeritus, Institute of Mechanics, Beijing, China

Yuri Ossipyan, director, Solid State Physics Institute, Russian Academy of Sciences, Moscow

Yasuharu Suematsu, president, Tokyo Institute of Technology, Japan.

IN BRIEF

Norman F. Ramsey received the 1992 Pupin Medal from the Columbia University School of Engineering and Applied Science for "his wide-ranging experimental work in physics." He is Higgins Professor of Physics at Harvard.

The 1993 King Faisal International Prize for Science (Physics) was awarded to **Herbert Walther** and **Steven Chu**. Walther, codirector of the Max Planck Institute for Quantum Optics and professor of physics at Munich University, received the prize for his investigations of "fundamental quantum phenomena involving single atoms and photons." Chu, the chair of the department of physics at Stanford University, was recognized for "his development of the technique of optical cooling and trapping of atoms." The awards were given out in February by the King Faisal Foundation of Saudi Arabia.

In March and April the German Physical Society awarded several of its 1993 prizes. The Max Planck Medal went to **Kurt Binder** of the University of Mainz, Germany. He was recognized for "his important contributions to Monte Carlo tech-

niques and their application to problems in condensed matter."

David Hanna of the physics department of the University of Southampton, England, won the Max Born Medal and Prize for "his pioneering contributions to laser physics and their applications in nonlinear optics."

The Robert Wichard Wohl Prize went to **Bruno Lüthi** of the University of Frankfurt, Germany. He was cited for "his outstanding experimental work on magnetoelastic interactions in the solid state, which has remarkably increased our understanding of localization and delocalization of f electrons in metals."

The winner of the Walter Schottky Prize for Solid-State Research is **Gertrud Zwicknagl**. Her citation commends her work on the integration of correlation effects into conventional band-structure theory and her "path-breaking contribution" to the description of quasiparticles in heavy-fermion systems. Zwicknagl is a researcher at the Max Planck Institute for Solid-State Research, in Stuttgart, Germany.

Dieter Wintgen of the University of Freiburg, Germany, received the Gustav Hertz Prize for "his fundamental work in the area of classical, semiclassical and quantum mechanical theories of chaotic systems."