

we hear that

Fisk and Kilby cited for communications and electronics

The National Academy of Engineering has honored James B. Fisk and Jack S. Kilby. Fisk, former chairman of the board of Bell Laboratories, has received the Founders Medal for his achievements in communications technology and Kilby, inventor of the monolithic integrated circuit, has received the \$5000 Vladimir K. Zworykin Award for work in electronics.

Fisk, who retired in 1974, has enjoyed a long career as research scientist, executive, educator and advisor to the government. He joined Bell Labs in 1939 as a research engineer, was elected president of the laboratory in 1959 and chairman of the board in 1973. During World War II he directed development of the microwave magnetron, for which he received the Presidential Certificate of Merit. On leave from Bell Labs in 1947, he directed the Atomic Energy Commission's division of research and for six years was a member of AEC's general advisory committee. He was chairman of the US technical delegation of the Geneva Nuclear Test Ban Conference in 1958 and 1959 and has served on several presidential advisory committees and delegations. Fisk earned his doctorate in physics from the Massachusetts Institute of Technology and



KILBY

has held teaching positions there, at Harvard University and at the University of North Carolina.

Kilby's work on integrated circuits has enabled development of electronic wristwatches, calculators and the like by reducing the size, weight and cost of



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electronic equipment. Kilby joined Texas Instruments in 1958 and during 1964-68 was responsible for its integrated circuits division. In 1969 he received the National Medal of Science for his work. He is now a consultant in Dallas, Texas.

Van Hove and Adams named directors-general of CERN

Léon Van Hove and John B. Adams have been appointed directors-general of CERN (European Organization for Nuclear Research). Their five-year terms will begin 1 January 1976. Van Hove will be responsible for CERN's research activities and Adams will take charge of general administration, operation of equipment and services and construction of buildings and major equipment.

Van Hove joined CERN in 1961 as head of the theoretical-studies division and during 1966-68 and 1972-74 served as director of the theoretical-physics department. He holds a doctorate in mathematical science from the University of Brussels. During 1971-74 he was chairman of the scientific directorate of the institute for physics at the Max Planck Institute for Physics and

Astrophysics in Munich, West Germany.

Adams began his career with CERN in 1953 and in 1954 became director of the proton-synchrotron division. During 1960 he completed the term as director general of CERN begun by Cornelis Bakker, who died unexpectedly. Adams spent the following 9 years in England holding research and administrative posts in government laboratories, and rejoined CERN in 1969 as director of the 300-GeV accelerator project. He became director-general of CERN's Laboratory II in 1971.

Heavenly namesake for Fred Whipple

An asteroid discovered recently by scientists at the Center for Astrophysics has been named in honor of Fred L. Whipple, Harvard astronomer and former director of the Smithsonian Astro-

physical Observatory. Richard McCrosky and Jerome Shao, astronomers at the Center's Agassiz Observatory in Harvard, Massachusetts, made the discovery on 2 February. "Asteroid Whipple" is the fourth such body to be detected by Harvard observatories. It was first noted in 1932 and only sporadically observed (on four occasions) since then.

Fred L. Whipple is Phillips Professor of Astronomy at Harvard University and has been a faculty member there since 1931. In 1933 he found the third asteroid to be discovered by the Harvard College Observatory. As director of the Smithsonian Astrophysical Observatory during 1955-73, he was responsible for a research program including meteoritics, lunar and planetary studies, geophysics and satellite tracking. At Harvard he began several programs in visual observing of meteors and played a major role in establishing the Agassiz Observatory. Whipple has

served on numerous science-advisory panels to the US government, which awarded him its highest civilian honor, the Distinguished Service Award, for his work in satellite-tracking.

Washington Academy honors David Griscom

David L. Griscom, a solid-state physicist at the Naval Research Laboratory, has received the 1974 Scientific Award in Physical Sciences of the Washington Academy of Sciences. He was cited for his studies of magnetic-defect structures in amorphous solids.

After earning his doctorate at Brown University in 1966, Griscom became a research associate in its physics department. He joined NRL in 1967 and since 1971 has been head of the radiation-effects section of the material sciences division.

Zare appointed Higgins Professor at Columbia

Richard N. Zare has been appointed to Columbia University's newly created Higgins Professorship of Natural Science. He has been professor of chemistry at Columbia since he joined the department in 1969 at the age of 29.

As a physical chemist Zare specializes in molecular-beam reaction kinetics and several areas of spectroscopy. He has been associate editor of the *Journal of Molecular Spectroscopy* and is now on the board of editors of the *Journal of Chemical Physics*.

Van Allen and Spedding honored by Iowa Academy

James A. Van Allen and Frank H. Spedding were among the seven recipients of the first Distinguished Fellow awards presented by the Iowa Academy of Science at its Centennial Observance in April.

New assistant professors in the physics department at Purdue University are **Thomas J. Moffett**, **Bennie F. L. Ward** and **Bernard A. Weinstein**.

Henry R. Glyde has been appointed associate professor of physics at the University of Ottawa, Ontario. He was formerly with Atomic Energy of Canada Ltd at the Chalk River Nuclear Laboratories.

Edmund P. Day has joined the faculty of the State University of New York at Buffalo as an assistant professor of experimental physics.

Van Allen, Carver Professor and head of the physics department at the University of Iowa since 1951, was honored for his extensive research in space exploration and for his discovery of the radiation belt that now carries his name. Spedding is principal scientist at Ames Laboratory and Iowa State University Distinguished Professor of Science. He was recognized for his contributions to chemistry, physics and metallurgy and for establishing a major research facility in Iowa.

Dickinson College presents Glover Award to Greenler

Dickinson College in Carlisle, Pennsylvania, has honored Robert Greenler, professor of physics at the University of Wisconsin in Milwaukee. Greenler, cited for excellence in teaching, has received Dickinson's Glover Memorial Award, which was founded 16 years ago to stimulate interest in the sciences.

Greenler specializes in optical phenomena of the sky and in the physics and chemistry of solid surfaces. He joined Milwaukee's physics department in 1962 and was instrumental in developing the laboratory for surface studies, of which he was chairman during 1966-1971.

Chemists cite Huizenga for nuclear applications

John R. Huizenga, professor of chemistry and physics at the University of Rochester, has received the American Chemical Society's 1975 Award for Nuclear Applications in Chemistry. Huizenga's research in nuclear fusion and statistical nuclear reactions earned him the \$2000 prize, which was established in 1953 by Nuclear-Chicago Corp (now a subsidiary of G. D. Searle & Co) to encourage research on isotopic applications in chemistry.

Huizenga earned his doctorate in physical chemistry from the University

of Illinois in 1949. He has been with the University of Rochester since 1967 and is now chairman of the National Research Council-National Academy of Sciences Committee on Nuclear Science.

Klaus Biemann wins spectroscopy award

Klaus Biemann, chemistry professor at MIT, has won the Outstanding Spectroscopist award of the Society for Applied Spectroscopy's New York Section. His major research interest is determining structures of natural products by mass spectrometry, and he has written the book *Mass Spectrometry: Organic Chemical Applications* as well as more than 150 publications in related areas.

Biemann earned his doctorate in 1951 from the University of Innsbruck where he remained as an instructor for four years. He received a Fulbright Fellowship in 1954, joined MIT as a research associate in 1955 and has been a professor there since 1963.

Bruce Chalmers commended for materials research

Bruce Chalmers has received the first Gold Medal awarded by Acta Metallurgica in recognition of ability and leadership in materials research. Chalmers retired in 1974 after 22 years as Gordon McKay Professor of Metallurgy at Harvard University. He has written six books and more than 130 articles on physical metallurgy, and was the first editor of *Acta Metallurgica* and *Scripta Metallurgica* (the two journals published by Acta Metallurgica Inc).

Acta Metallurgica, with financial support from Pergamon Press, will present the Gold Medal annually. The American Institute of Physics is one of 21 professional societies in 15 countries that support the publishing activities of Acta Metallurgica and may nominate candidates for the award.

Samuel P. Bowen has joined Virginia Polytechnic Institute and State University as assistant professor of physics.

Siegfried J. Bauer, formerly associate chief of the laboratory for planetary atmospheres, has been appointed associate director of sciences at the NASA Goddard Space Flight Center in Greenbelt, Md.

Walter Massey, associate professor of physics at Brown University, has been named dean of the college. Massey is also director of Brown's program for inner-city teaching of science.