we hear that

Weinberg awarded Oppenheimer Prize

Steven Weinberg, a professor of physics at the Massachusetts Institute of Technology, is the recipient of the fifth J. Robert Oppenheimer Memorial Prize. The award, which is sponsored by the University of Miami's Center for Theoretical Studies, was presented to Weinberg during the Coral Gables Conference on Fundamental Interactions in January.

Among the accomplishments recognized by the council awarding the Oppenheimer Prize are Weinberg's contributions to a unified theory of weak and electromagnetic interactions. In 1967 Weinberg suggested a method for employing the "renormalization theory" to avoid the appearance of nonsensical infinities in calculations involving massive intermediate vector bosons, particles that are thought to mediate weak interactions, just as photons mediate electromagnetic interactions. Since this time Weinberg has continued to point the way toward a unified theory, using the symmetries of elementary particles as a clue to a specific model for a field theory of weak interactions. The Oppenheimer Prize is also given in recognition of his contributions to cosmology and general relativity.

WEINBERG

Weinberg, who has been a professor at MIT since 1967, was educated at Cornell University, the Copenhagen Institute for Theoretical Physics and Princeton University. He taught at Columbia University from 1957 to 1959. Prior to joining MIT he worked as a research physicist at the Lawrence Radiation Laboratory and a faculty member at the University of California. He has been a consultant to the Institute for Defense Analysis since 1960 and to the US Arms Control and Disarmament Agency since 1970.

Kursunoglu honored by Turkish government

The director of the University of Miami's Center for Theoretical Studies, Behram Kursunoglu, has been awarded the Turkish government's Presidential Science Prize for 1972. The award, given in recognition of Kursunoglu's contributions to symmetry principles in high-energy physics, as well as for his research in general-relativity theory and plasma physics, was presented to Kursunoglu in October by Turkey's President Cevdet Sunay.

A native of Turkey, Kursunoglu served as a visiting professor of physics at the University of Miami from 1954 to 1955, when he returned to his homeland to become dean of the faculty of nuclear sciences and technology at the Middle East Technical University in Ankara. During this period he also served as a member of the Turkish Atomic Energy Commission and as Turkey's representative on the NATO science committee. In 1958 he returned to the University of Miami to become director of CTS.

Ramberg and Mueller presented IEEE awards

Edward G. Ramberg, a retired consultant to RCA Laboratories, and Charles W. Mueller, a fellow at RCA Laboratories, were presented awards by the Institute of Electrical and Electronics Engineers at the International Electron Devices meeting in Washington, D. C. in December. Ramberg was the recipient of the 1972 David Sarnoff Award for outstanding achievement in the field of electronics. Mueller was presented the J. J. Ebers Award of the Electron Devices Group of IEEE.

Ramberg, a native of Florence, Italy, attended Cornell University and the University of Munich, where he received his doctorate in physics in 1932. He joined RCA in 1935, remaining there throughout most of his professional career. He retired this past July.

Mueller has worked with RCA since 1942, when he completed his PhD in physics at the Massachusetts Institute of Technology. He received the Ebers Award for "outstanding technical contributions to electron devices, spanning the evolution of modern electronics, from grid-controlled tubes through the alloy transistor, the thyristor, and MOS devices to silicon vidicons and silicon storage vidicons." Mueller is a past recipient of the Sarnoff Award.

Vineyard named director of Brookhaven Laboratory

George H. Vineyard was appointed director of Brookhaven National Laboratory on 15 January. He succeeds Maurice Goldhaber, who, after holding the directorship for ten years, has returned to full-time research at the Laboratory. Vineyard, the former deputy director at Brookhaven, is also chairman-elect of the American Physical Society's division of solid-state physics.

After receiving his PhD in physics from the Massachusetts Institute of Technology in 1943, Vineyard worked for three years with the MIT Radiation Laboratory. He continued his career as an assistant professor of physics at the University of Missouri, where in 1952 he was named professor. Vineyard joined the Brookhaven facility in 1954, becoming successively chairman of the physics department, associate director of the Laboratory (1966) and deputy director (1967). His main research interests include the application of neutrons in solid-state physics, radiation effects in solids, and structural imperfections in solids.

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A technical bulletin and price information is available by contacting product sales manager John Brown of SSR Instruments Co., 1001 Colorado Ave., Santa Monica, Calif. 90401.

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Although the director of the Laboratory will continue to serve at the pleasure of the Board of Directors, as has

VINEYARD

been the case in past years, Vineyard's appointment initiates a policy change regarding the director's tenure. The Board will hereafter reappoint the director after an initial six-year term, with the length of the reappointment to be determined at that time.

David G. Hummer has been elected chairman of the Joint Institute for Laboratory Astrophysics of the National Bureau of Standards and the University of Colorado, in Boulder, Colorado. **W. Carl Lineberger** has assumed Hummer's previous position as secretary of the JILA visiting scientists' program.

Frederick Seitz, president of Rockefeller University and a past president of the American Physical Society, has been elected to the board of trustees of the Woodrow Wilson National Fellowship Foundation.

At Yale University **Willis E. Lamb**, a co-winner of the 1955 Nobel Prize in Physics, has been appointed J. Willard Gibbs Professor of Physics. **D. Allen Bromley**, chairman of the Yale physics department and director of the A. W. Wright Nuclear Structures Laboratory, has been named Henry Ford II Professor of Physics. **Robert K. Adair**, former chairman of the department of physics, has become the Eugene Higgins Professor of Physics.

Recently appointed assistant professors at the University of Nevada, Las

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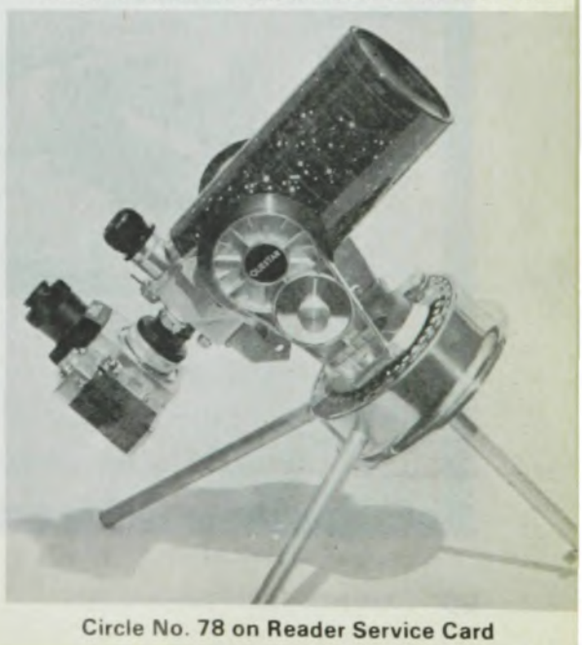

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Vegas, are **Frederick J. Sterk**, of Arizona State University, and **Nanda Mukherji**, of the University of California, Riverside.

Gerald Present, a former associate editor of PHYSICS TODAY and a staff scientist with the physics-information division of the American Institute of Physics, has been appointed senior science writer in AIP's public information division.

At the University of Texas, Austin, **David N. Schramm**, a former research fellow in physics at the California Institute of Technology, has been appointed assistant professor of astronomy and physics.

Elizabeth Baranger, formerly senior research scientist at the Massachusetts Institute of Technology and presently the chairman of the American Physical Society's Committee on the Status of Women, has been named associate dean of the faculty of arts and sciences and professor of physics at the University of Pittsburgh. Recently appointed associate professors at the University are **Ralph Z. Roskies**, formerly of Yale University, and Jeffrey H. Winicour, from Wright Patterson Air Force Base. Glenn A. Stewart, of the California Institute of Technology, and **Julia A. Thompson**, of the University of Utah, have been named assistant professors in the department of physics. **Arthur M. Wolfe**, from the University of Cambridge, UK, has joined the department as an assistant professor of physics and astronomy.

Formerly a visiting scientist in the department of physics at the University of Port Elizabeth, South Africa, **Gregory H. Olsen** has joined the staff of RCA Laboratories at the David Sarnoff Research Center in Princeton, New Jersey.

Ugo Fano, a professor in the department of physics at the University of Chicago, has been appointed chairman.

New appointments in the laser research and technology division at Los Alamos Scientific Laboratory include **Jack P. Aldridge, III**, of Florida State University; **Damon V. Giovanielli**, of Wilder Physics Laboratory, Hanover, New Hampshire; **Stanley L. Shapiro**, of General Telephone and Electronics Laboratories, Bayside, New York; **David R. Kohler**, of the University of Rochester, and **Robert J. Carbone**, formerly with the MIT Lincoln Laboratory. Recently joining the physics division are **Roger J. Bartlett**, of Iowa State University; **Nelson Stein**, of Yale Uni-

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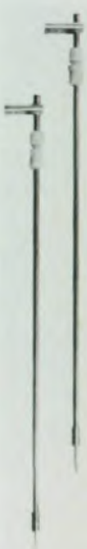

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versity; **Richard Kristal**, of Holobeam, Inc, Paramus, New Jersey, and **Martin E. Banton**, of Yale University. New staff members in the theoretical division include **Michael M. Nieto**, of Purdue University; **Brendan B. Godfrey**, previously with the US Air Force at Kirtland Air Force Base, New Mexico; **Gerard J. Stephenson, Jr**, from the University of Maryland, College Park; **Eldon J. Linnebur**, of the University of Michigan, Ann Arbor, and **O'Dean P. Judd**, of Hughes Research Laboratory, Malibu, California.

Among other newcomers to Los Alamos are **James S. Frank**, of the University of Illinois, Urbana-Champaign, **Mikkel B. Johnson**, of Cornell University, and **Melvin Leon**, of Rensselaer Polytechnic Institute, who have joined the medium-energy physics division; **Galen K. Straub**, of the National Institute of Occupational Safety and Health, and **James S. Cohen**, of Rice University, who have joined the theoretical design division; **Robert C. Reedy**, from the University of California, San Diego, and **Steven W. Depp**, from the University of Illinois, Urbana-Champaign, who have joined the chemistry-nuclear-chemistry division, and **Jerry L. Evans**, of Auburn University, who has joined the assay and accountability division.

Spencer L. Williams, formerly with Environmental Research in Las Vegas, Nevada and Alexandria, Virginia, has joined McDonnell Douglas Astronautics Co in Huntington Beach, California.

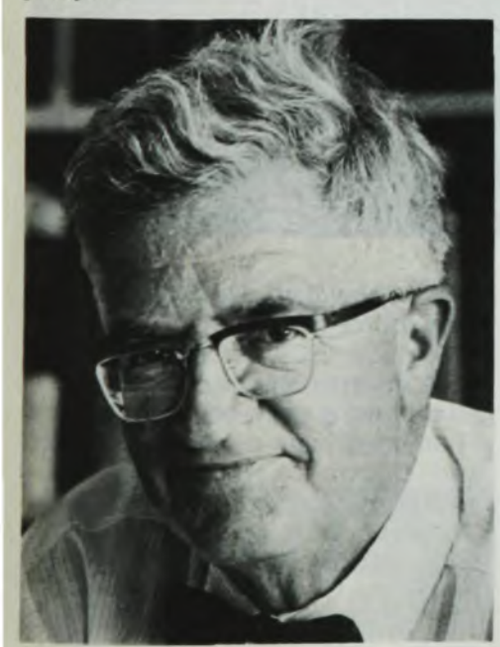
Alexander Zucker, a nuclear physicist at the Oak Ridge National Laboratory, has been appointed associate laboratory director for basic physical sciences.

Recent promotions in the department of physics at the University of Nebraska, Lincoln, include **Kam-Ching Leung**, to associate professor and director of the Behlen Observatory; **David Golden**, to professor; and **Thomas A. Morgan** and **Donal J. Burns**, to associate professor. New appointments in the department include **David J. Sellmyer**, formerly of MIT, to associate professor, and **Anthony Starace**, formerly of Imperial College, London, to assistant professor.

obituaries

Henri S. Sack

Henri S. Sack, 68, the Walter S. Carpenter, Jr Professor of Engineering, and professor of applied physics at Cornell University, died during the past year.



SACK

Born in Davos, Switzerland in 1903, Sack was educated at the Eidgenossische Technische Hochschule in Zurich, receiving a diploma in mathematics and physics in 1925 and a doctorate in physics in 1927. For six years he was head assistant in the department of physics at the University of Leipzig, Germany, and then for seven years, until 1940, he was *chef de travaux* in the department of physical chemistry at the University of Brussels. While in Leipzig he was a research associate of Peter J. W. Debye, Nobel laureate in Chemistry, who later became professor and head of the chemistry department at Cornell. Sack came to Cornell in 1940 as a research associate in the College of Engineering. He became an associate professor in 1946 and a full professor in 1949. He was named to the Walter S. Carpenter, Jr Professorship in 1963 and held that post until his death on 17 March of last year.

Throughout his career, he had three principal interests: an intense interest in physics as it developed through the years, a love for helping students gain such knowledge and acquire standards of excellence and diligence, and an unswerving loyalty to Cornell.

His scientific career spanned a long dynamic era in the evolution of modern physics and to his last day, spent in the research laboratory, he was actively in contact with the forefront of his subject. His earliest contributions

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