

Greenspan and Jeffress win ASA Silver Medals

Martin Greenspan and Lloyd Jeffress have been awarded Silver Medals by the Acoustical Society of America. The Medals, presented not more than three times each year, are awarded in recognition of significant achievements in science, engineering or human welfare through the application of acoustical principles or research in acoustics.

Greenspan, who is to receive the Silver Medal in physical acoustics, was cited for his theoretical and experimental contributions to physical acoustics, particularly in the areas of propagation of sound in gases and liquids.

He received a BS from Cooper Union Institute of Technology in 1934, and shortly thereafter joined the staff of the National Bureau of Standards as a physicist. Greenspan's work at the Bureau initially focussed on problems in strength of materials, but later his work diverged into other areas when he moved within the Bureau to the Sound Section. He remained at the Sound Section from 1947 to his retirement in 1974, having been appointed Chief of the Section in 1967. At present he continues to be an active consultant to the Bureau.

His recent research, done in collaboration with Carl Tschiegg of the Bureau, involved investigating the influence of dissolved gases and nuclear irradiation on the acoustic-intensity threshold for cavitation.

In addition to his Bureau position, Greenspan has taught courses in mathematics, engineering and acoustics in Washington, DC at the National Bureau of Standards Graduate School, the US Department of Agriculture Graduate School and at George Washington University. Most recently he has been an adjunct professor of engineering at

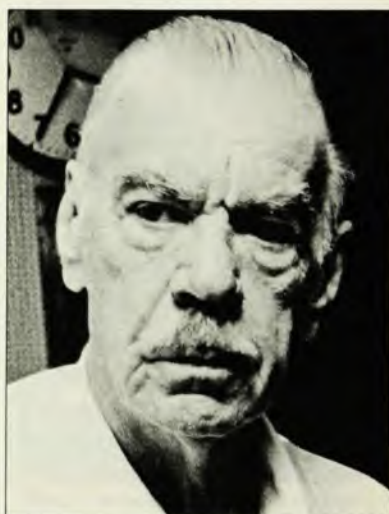


GREENSPAN

Catholic University in Washington. He has served as vice-president of the ASA (1963-64), president-elect (1965-66) and president (1966-67).

The Silver Medal in psychological and physiological acoustics will be presented to Lloyd Jeffress for his extensive work in the field of psychoacoustics, for his contributions in binaural hearing research and for his long and distinguished career in teaching.

Jeffress, a childhood friend of Linus Pauling (who credits Jeffress with introducing him to chemistry), received a BS in physics from the Oregon Agricultural College (now the University of Oregon, Corvallis) in 1922 and a PhD in psychology from the University of California in Berkeley in 1926. Following graduation he joined the faculty of the University of Texas at Austin for a one-year adjunct



JEFFRESS

professorship and remained instead for 51 years.

He joined the Acoustical Society in 1939 and was elected a Fellow in 1948. In 1961 he served the Society as associate editor for psychological acoustics and continued in that role for eight years, one of the longest terms for any associate editor. Upon his retirement, the Society examined his job and found it too much for one individual, and created two subsections with an associate editor in each to pick up his duties.

Jeffress retired from full-time teaching at the University of Texas in 1971, and has since become actively interested in computers and computer programming.

Presentation of the two medals is scheduled for the Acoustical Society's meeting this month in Miami Beach, Florida.

Ryogo Kubo receives Boltzmann Medal

The International Union of Pure and Applied Physics's Commission on Thermodynamics has awarded the second Boltzmann Medal to Ryogo Kubo of the University of Tokyo. The Medal, presented every three years in recognition of

outstanding contributions to statistical physics, was awarded on 24 August at the International Conference on Statistical Physics in Haifa, Israel.

Kubo was cited for his work on the theory of nonequilibrium statistical mechanics and on the theory of fluctuating phenomena. The Commission considered his efforts in establishing the basic

relations between transport coefficients and equilibrium time-correlation functions particularly significant.

He received both undergraduate and graduate degrees from the University of Tokyo and is at present on its faculty in the department of physics.

Kubo has been very active in the IUPAP in the role of chairman of its

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Commission on Magnetism (1963-66), secretary of the Commission on Thermodynamics and Statistical Mechanics (1963-66) and vice-president of the Union since 1972. He was president of the Physical Society of Japan in 1964. Perhaps one of the most eminent of contemporary Japanese physicists, Kubo has been the recipient of numerous awards both at home and abroad.

The first Boltzmann Medal, presented in 1975, was awarded to Kenneth Wilson of Cornell University.

Lenihan and Chambers elected to IOP posts

Robert G. Chambers, professor of physics at the University of Bristol, has been named vice-president for publications at the (British) Institute of Physics. He succeeds Rendel S. Pease in the post.

Chambers is at present a member of the Physical Sciences Subcommittee of the University Grants Commission and on the board of the Science Research Council. He is chairman of the Institute's Solid State Physics Subcommittee and has been involved with Institute publications since 1964 when he joined the editorial staff of *Proceedings of the Physical Society*. His current research interests are centered on low-temperature electron transfer in metals.

John M. A. Lenihan, chairman of the Computer Research Committee of the Scottish Health Service and director of the department of clinical physics and bioengineering of the West of Scotland Health Board, has been elected honorary treasurer of the IOP following the retirement of Hyman Rose of the International Research and Development Co. A member of the Institute since 1941, Lenihan served as vice-president in 1959-60 and was chairman of the editorial board of the *British Journal of Applied Physics*.

Floyd L. Culler, deputy director of Oak Ridge National Laboratory, is to be the next president and chief executive officer of the Electric Power Research Institute.

The *Acta Metallurgica* Gold Medal was awarded to **John W. Cahn**, professor of materials science at the Massachusetts Institute of Technology. Cahn was cited for his pioneering work in physical metallurgy, particularly in the fields of thermodynamics, quantitative metallography and spinodal decomposition.

Bradley B. Cox, former head of the Proton Department at Fermilab, has transferred to head the group presently engaged in building the superconducting high-in-

tensity beam in the Proton Area. Taking his place as Proton Department head will be **C. Thornton Murphy**, the previous associate head.

Isadore Rudnick, physics professor at the University of California at Los Angeles, received top prize in the technical and scientific category of the San Francisco International Film Festival. Rudnick's entry was a film entitled "The Unusual Properties of Liquid Helium." Prints suitable for presentation in undergraduate physics classes are available from Rudnick.

New members of the physics department at Virginia Polytechnic Institute and State University are **Geoffrey R. Golner** from the University of Washington and **Steven O'Dell** from Universitäts Sternwater in Göttingen as assistant professors. **Brian K. Dennison** and **Richard H. Heisterberg**, both of Virginia Polytechnic, have been promoted to the position of assistant professor.

The Twelfth Annual Karl G. Jansky Lectureship has been awarded to **E. Margaret Burbidge**, former director of the Royal Greenwich Observatory and presently on the faculty of the University of California, San Diego. The Lectureship was established in 1966 by the Trustees of Associated Universities in honor of Karl Jansky's detection of galactic radio emission in 1931.

Richard L. Klobuchar has joined the University of Rochester's Center for Naval Analyses, where he will work with the Operations Evaluation Group on anti-air and antisurface warfare problems.

The City University of New York's Brooklyn College has appointed **Brian B. Schwartz**, physicist at the Massachusetts Institute of Technology, to the position of Dean of its School of Science.

J. Leon Shohet, professor of electrical engineering and computer engineering at the University of Wisconsin, was chosen to receive the American Society for Engineering Education's \$1000 Frederick Emmons Terman Award for his accomplishments in research and engineering education.

John J. Scoville, vice-president for nuclear engineering and environmental affairs at the Potomac Power Company has been appointed general manager of Helium Breeder Associates in Newport Beach, California.

Hidetake Kakihana succeeds Hellmut Glubrecht as deputy director of the Department of Research and Isotopes of the International Atomic Energy Agency. Kakihana is a professor of nuclear engineering at the Tokyo Institute of Tech-