

Margaret Burbidge to head Greenwich Observatory

E. Margaret Burbidge, professor of astronomy at the University of California at San Diego, has been appointed director of the Royal Greenwich Observatory in Sussex, UK. The first woman to be named to this post in its 300-year history, Burbidge succeeds Sir Richard Woolley, who is retiring after serving as director since 1955.

As director, Burbidge's primary concern will be to improve the situation in optical observational astronomy in the UK, which, because of the climate and sky quality, can best be done from overseas sites. Burbidge, who joined UCSD in 1962, will assume her new appointment in the summer of 1972, while she is on a leave of absence from San Diego. She plans to retain her connections with San Diego and to

at UCSD. He also plans to divide his time between the US and UK. In 1959, the two were jointly awarded the Helen B. Warner Prize in astronomy from the American Astronomical Society. She was asked to receive the Annie J. Cannon Prize in astronomy from the AAS in 1971, but declined on grounds that the prize is discriminatory because it is restricted to women only.

The title of Astronomer Royal, a Crown appointment previously held by the director of the Observatory, is now formally separated from this position; the new holder, to succeed Woolley, has not yet been announced.

Kenneth Kellerman wins Helen B. Warner Prize

Kenneth Kellerman, a radio astronomer at the National Radio Astronomy Observatory in Charlottesville, Va., has won the American Astronomical Society's 1971 Helen B. Warner Prize.

Kellerman is receiving the award for his interpretation of the evolution of radio sources as well as for his work on high-resolution radio interferometry and on radio emission from stars and planets. The award, which consists of \$500 and is designated for an astronomer under 35 years old, is being presented to Kellerman at the annual meeting of the AAS on 5 Dec. Earlier this year, Kellerman was one of the members of the joint group from Cornell University and the NRAO receiving the Rumford Award (see *physics today*, June, page 69).

Arthur Lodge named 1971 Bingham Medalist

The Society of Rheology has awarded the 1971 Bingham Medal to Arthur S. Lodge, a professor at the University of Wisconsin.

Lodge, who is being honored for his contributions to rheology, has been active in rheology since 1950 when he demonstrated the utility of convected coordinates in formulating and solving flow problems. His papers on rheology have included a 1956 paper on the

formulation of constitutive equations from the basis of molecular network theory, and a paper entitled "Elastic Liquids," which was a comprehensive treatment of both the theoretical and experimental aspects of modern rheology. Recently, Lodge's analysis of rheological measurements resulted in the discovery of an important source of error in normal stress measurements.

The award, established in 1946 in memory of Eugene C. Bingham who coined the word "rheology," was presented to Lodge at the AVS annual meeting in October.

AVS Welch Award to Gottfried Wehner

Gottfried K. Wehner, professor at the University of Minnesota, has been awarded the American Vacuum So-



BURBIDGE

continue research now being conducted with the astrophysics group there.

An authority in observational astronomy and spectroscopy, Burbidge has written more than 200 papers for scientific journals, many of them in collaboration with her husband, Geoffrey Burbidge, professor of physics



WEHNER

ciety's Medard W. Welch Award. The award, consisting of a gold medal and \$1000, was presented to Wehner at the annual meeting of the AVS on 13 October in Boston.

Wehner, who has been with the electrical engineering department of the University of Minnesota since 1967, was honored for his work on sputtering. His interest in this field dates back to 1955 when he began

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forming a team of sputtering-phenomena researchers at General Mills in Minneapolis. A graduate of Technical University in Munich, with degrees in engineering and technical physics, Wehner has worked in both the engineering and physics fields.

At the University of Illinois at Urbana-Champaign, **Shau-jin Chang** has recently been promoted to associate professor.

Richard F. Gasparovic, formerly of the engineering staff of RCA Advanced Technology Laboratories, has joined the applied physics laboratory of Johns Hopkins University.

The new deputy director general of the International Atomic Energy Agency's department of technical operations is **Yuri F. Chernilin**. He was previously at the I. V. Kurchatov Institute of Atomic Energy in Moscow, USSR.

J. Robert Buchler, a research astrophysicist with the Kellogg Laboratory of the California Institute of Technology, has been appointed assistant professor at Yeshiva University.

At Chicago State University, **Harvey S. Leff**, formerly of Case Western Reserve University, has been ap-

pointed associate professor and chairman of the department of physical sciences. Named as assistant professors of physics at the university were **Susan E. Kayser**, formerly of the State University of New York at Stony Brook and **George C. Valley**, formerly at the University of Chicago.

Promoted to executive director of the scientific research staff of the Ford Motor Co is **W. Dale Compton**.

Walter John, formerly senior physicist at the Lawrence Radiation Laboratory, Livermore, has been appointed professor and chairman of the department of physics and physical sciences at Stanislaus State College, Turlock, Calif.

Allen C. Dotson has been named chairman of the department of physics at Western Michigan University. **Larry Oppliger** has been promoted to professor and **Priya Vashishta** has joined the department as assistant professor.

obituaries

Joseph H. Holloway

Joseph H. Holloway, an expert in the field of cesium-beam atomic frequency standards, died 25 September. He was 42 years old.

After receiving his PhD from Massachusetts Institute of Technology in 1956, Holloway joined the National Co, where he was associated with the development of the first commercial atomic frequency standards. Later he joined the Bomac Laboratories division of Varian Associates, where he was principal designer of a series of cesium-beam tubes that are now in widespread use in atomic frequency standards for timekeeping, navigational systems and other applications. Since 1967, when Hewlett-Packard Co

acquired the portion of the Varian group he was with, he had been primarily engaged in the design of a very small cesium-beam tube intended for aircraft collision-avoidance systems, and a long tube, in conjunction with the National Bureau of Standards, to be used as an element in its frequency and time standards.

J. D. Bernal

With the death, on 15 Sept., of John Desmond Bernal the physics community has lost a unique person, for whom the best simple description is "the evangelist of science"—a term coined by W. L. and C. K. Shultz. It is inadequate to label him as a "crystallog-

- 131 -

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65