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Nov. 7—"Is The Gravitational Constant Changing?" T. C. Van Flandern, U.S. Naval Observatory.


THE AUTHORS

CARL O. BOSTROM was born in Port Jefferson, N.Y. in 1932. He did his undergraduate work at Franklin and Marshall College and earned his M.S. and Ph.D. degrees in physics from Yale University in 1958 and 1962, respectively.

Dr. Bostrom joined the APL Space Department in 1960. A specialist in research on particle fluxes in space and related instrumentation, he served as Section Supervisor (1960-68) and Group Supervisor (1968-74) in the Space Physics and Instrumentation Group; Space Department Chief Scientist (1974-78); Associate Head and Chief Scientist (1978-79); Space Department Head and Assistant Director of APL for Space Systems (1979); and Deputy Director of APL and Space Department Head (1979-80). He was appointed Director of APL in 1980.

Dr. Bostrom has authored more than 57 technical papers.

WALTER G. BERL recently rejoined the Milton S. Eisenhower Research Center and currently chairs the Editorial Board of the Johns Hopkins APL Technical Digest. He was born in Vienna, Austria, in 1917. The European convulsions of the 1930's brought him to the Carnegie Institute of Technology in Pittsburgh, where he graduated as a chemical engineer in 1937. After graduate studies in physical chemistry at Harvard, he returned to Carnegie Tech for his Ph.D. work on the oxygen electrode. He came to APL in 1946 where he has been engaged in studies of combustion and propulsion, and in fire research. Most recently, as a member of the National Research Council Committee on Maritime Hazardous Materials, he was involved with a report on the safety aspects of liquefied natural gas.

ROBERT E. FISCHELL has previously contributed several articles to the APL Technical Digest. Born in New York City, Mr. Fischell has a B.S. degree in mechanical engineering from Duke University and an M.S. in physics from the University of Maryland. He is a specialist in satellite system design and attitude control systems, magnets and measurement and instrumentation, and biomedical engineering. Mr. Fischell was employed by APL in 1959 and was appointed Chief Engineer in 1972 and Assistant Space Department Head in 1978. He is a member of the Institute of Electrical and Electronic Engineers and the American Institute of Aeronautics and Astronautics, and has been Associate Editor of the AIAA Journal of Spacecraft and Rockets. In 1963, Mr. Fischell was selected by the Washington Academy of Sciences as the Outstanding Young Engineer in the Washington National Capital Area.

PAUL B. EDWARDS was born in Ridge Spring, S.C. He studied chemistry at the University of Tampa (B.S., 1937), mathematics teaching at Harvard University (Ed.M., 1958), and higher education at The George Washington University (Ed.D., 1972). During World War II, he served four years on active duty in naval aviation. Subsequently, he owned and operated a wholesale and retail hobby supply business, taught mathematics, and was head of a high school mathematics department in Florida.

Since joining APL in 1963, Dr. Edwards has supervised the education and training of APL staff members and has directed the growth of the JHU Evening College Center at APL. During 1972-74, he was a member of the Advisory Board of The Johns Hopkins University Evening College. Since 1975, he has been a member of the Academic Council of the JHU Evening College and Summer Session. His hobbies are photography, swimming, and his grandchildren.
RICHARD B. KERSHNER was born in Crestline, Ohio. He received the Ph.D. degree in mathematics from The Johns Hopkins University in 1937. He joined APL in 1946 as a member of the Launching Group and was engaged in the development of booster rockets and the analysis of launching problems. Dr. Kershner later served as Supervisor of the Guidance and Control Group, Supervisor of the Terrier/Tartar Division, and Supervisor of the Polaris Division. He was appointed Supervisor of the Space Department in 1938, and became Assistant Director of the Laboratory in 1972. After his retirement in 1979, Dr. Kershner was appointed Principal Advisor for Space Systems. He holds the Presidential Certificate of Merit for service during World War II, and has received the Distinguished Public Service Award four times. He has been a Fellow of the American Institute of Aeronautics and Astronautics. Dr. Kershner is a Fellow of the American Institute of Aeronautics and Astronautics.

RALPH EDWARD GIBSON was born at King's Lynn, Norfolk, England. He received the B.Sc. (1922) and Ph.D. (1924) degrees in chemistry from the University of Edinburgh. He was a physical chemist at the Carnegie Institution of Washington (1924-41) and a faculty member of The George Washington University (1929-45). During 1944-46, he was the first Director of Research of the Allegany Ballistics Laboratory. Dr. Gibson joined APL in 1946 as head of the Contracts Group. He became Acting Director in 1947 and Director in 1948. He has been Director Emeritus of APL and Professor of biomedical engineering of The Johns Hopkins University School of Medicine since his retirement in 1969.

KISHIN MOORJANI is a theoretical physicist in the Quantum Electronics Group of the Milton S. Eisenhower Research Center and is engaged in problems related to disorder in solids and the study of photoeffects at the semiconductor-electrolyte interface. Born in India in 1935, he studied at the University of Delhi and the University of Maryland before earning his Ph.D. degree in physics at The Catholic University of America in 1964. In 1967, Dr. Moorjani joined APL where he has researched various aspects of problems in solid state physics and statistical mechanics. He has held visiting appointments for teaching and research at both the High Pressure Laboratory and the Phase Transitions Group of the National Research Council (France) and was a Parsons Professor of Physics at the Homewood Campus of The Johns Hopkins University during 1977-78.

JEFFREY H. SMART is an Associate Physicist in the Submarine Technology Division. Born in Detroit in 1953, he studied physics at Oakland University (B.S., 1975) under a National Merit Scholarship. He performed graduate work in atomic physics at Wayne State University (M.S., 1977) until he came to APL in 1978. After completing the Associate Staff Training Program, he joined the Submarine Technology Environment Group, where he has been actively involved in programs to study oceanographic temperature and velocity structures and their anomalies. He is presently the primary investigator at APL in the use of geomagnetic and acoustic Doppler velocimeter systems for mapping ocean current features. A former captain of the U.S. Collegiate Table Tennis Team, Jeff enjoys tennis and running. He is also active in teaching Bible classes.

He has published 90 papers in the fields of physical chemistry, solid propellants, missile systems R&D, space technology, and research administration.

Among his many honors are the Hillebrand Prize of the Chemical Society of Washington, the President's Certificate of Merit (World War II), appointment as Honorary Commander of the Most Excellent Order of the British Empire, the DoD Medal for Distinguished Public Service, and the M.D. (Honoris Causa) from The Johns Hopkins University (1972). Dr. Gibson has been President of the Chemical Society of Washington, the Philosophical Society and of the Washington Academy of Sciences, all of Washington, D.C., and of the Cosmos Club.