

# Association Affairs

## American Geophysical Union Program on the Impact of Space Research on the Sciences

During the New York meeting of the AAAS the American Geophysical Union will hold a symposium, cosponsored by Section D—Astronomy and the American Astronomical Society, on the impact of space research on the sciences. The program was arranged by the AGU's planning committee on planetary science, Robert Jastrow (National Aeronautics and Space Administration), secretary; it will be held in the Biltmore Hotel at 2 P.M., 28 Dec. E. M. Purcell of Harvard University (on leave, at Brookhaven National Laboratory) will preside.

Papers will be presented on the interaction between the earth sciences and planetary studies (Gordon J. F. MacDonald, Goddard Space Flight Center, National Aeronautics and Space Administration); planetary environments and extraterrestrial life (Philip Abelson, Geophysical Laboratory, Washington, D.C.); and flying telescopes (Martin Schwarzschild, Princeton University).

## Topical Summary of Symposia To Be Held at the New York Meeting

*AAAS General Symposia.* "Moving Frontiers of Science V"; "The Challenge to Science of World Conditions Today"; "Plasma—the Fourth State of Matter"; "Life under Extreme Conditions: Human Studies"; "The Urban Frontier: a Conquest of Inner Space."

*AAAS and Conference on Scientific Communication et al.* "The Sciences in Communist China: Mathematics and the Physical Sciences; Meteorology, Oceanography, and the Engineering Sciences; Astronomy and the Biological and Medical Sciences; Agriculture and the Social Sciences."

*AAAS Committee on Science in the Promotion of Human Welfare.* "The Scientist's Role in the Community: New Responsibilities in the Nuclear Age"; "Psychological and Sociological

Implications of Nuclear Arms"; "Problems Related to the Expansion of Medical Research"; "The Effects of the Present Status of Science on the Integrity of Science."

*AAAS Cooperative Committee on the Teaching of Science and Mathematics.* "Progress in Teacher Certification in Science"; "Science Education in the Elementary and Junior High Schools."

*Academy Conference.* "The Utilization of National Science Foundation Grants by the Academies of Science."

*Conference on Scientific Manpower.* "Developing Student Interest in Science and Engineering."

*Mathematics.* "The Mathematics Course on 'Continental Classroom'"; "Mathematics Looks at New Problems"; "Vistas in Digital Computing."

*Space Science.* "Impact of Space Research on the Sciences"; "Lunar Exploration"; "Lunar Spacecraft Systems"; "Is There a Need for a Manned Space Laboratory?"

*Physics Engineering.* "The Place of Nuclear Engineering in the University Curriculum."

*Chemistry.* "Mechanism of Action of Antitumor Agents"; "Recent Advances in Polymer Chemistry"; "Synthetic Zeolites"; "Reaction of Complexes"; "Biochemical Applications of Gas Chromatography."

*Geology and Geography.* "Palynology"; "Frontiers in the Earth Sciences"; "The Mohole"; "Selenology"; "Late Pleistocene Events in Southern South America"; "Soviet Geography"; "The New York Metropolitan Region of the Future"; "Economic Development and Investment in Africa South of the Sahara"; "Programming the Use of Natural Resources"; "Cave Mineralogy."

*Zoological Sciences.* "Evolution and Dynamics of Vertebrate Feeding Mechanisms"; "Evolution of Sex"; "Spermatozoan Motility"; "Physiology of Molluscs"; "Teaching Animal Behavior"; "Famous Zoologists"; "The New International Code of Nomenclature."

*Biological Sciences.* "Life Under Extreme Conditions: Cells; Plants and

Animals; Human Studies"; "Unsolved Problems in Biology, 1960: Submicroscopic Cellular Structure and Function"; "Modern Aspects of Population Biology"; "Physiological Adaptations of Cavernicolous Organisms"; "Phylogenetic Aspects of Evolution"; "Genetic Aspects of Evolution"; "Speciation and Variation"; "Ecological Aspects and Methods"; "Machine Methods in Biology."

*Botanical Sciences.* "Fundamental Developments in Plant Growth."

*Anthropology.* "Genetics, Evolution, and Anthropology"; "Ecology and Anthropology: Interdisciplinary Approach to Methods of Implementing Desegregation"; "Applied Anthropology: Retrospect and Prospect"; "Archaeological Salvage"; "The Development of New Nations"; "Language and Cognition"; "Theories and Models of Energy in Human Society."

*Psychology.* "The Physiology of Feeding and Drinking Behavior"; "Some Recent Approaches to the Learning of Concepts"; "Applications of Behavior Technology"; "Theories of the Visual Contrast Threshold."

*Social and Economic Sciences.* "The Economics of Science"; "Some Perspectives on Political Science and Science"; "Sociology of Science: Organization of Research"; "Population Trends and Policies in the Communist Countries"; "Hospital Statistics in Community Planning"; "Some Statistical Problems in Social Insurance Research"; "The Current Interest in the Adoption of the Metric System"; "The Research Revolution and Public Policy."

*Criminology.* "Psychiatry, Criminology, and the Offender"; "New Approaches to Continuing Problems in Crime Control"; "Reaching the Antisocial Gang"; "Research and Theory in Criminology and Penology."

*History and Philosophy of Science.* "Patents in the Advancement of Knowledge"; "Fairly Recent Science and Technology"; "Sociology and Psychology of Scientists"; "The Scientific Mainstream"; "Formal Simplicity as a Weight in the Acceptability of Scientific Theories"; "The Boundaries of Systems"; "Nineteenth Century Technology"; "Automation."

*Medical Sciences.* "Biophysics of Physiological and Pharmacological Actions: Elementary Systems, Nerve, Muscle I: Membrane Properties, Muscle II: Contractile Properties, Muscle III"; "Current Problems in Electrophysiology"; "Career Opportunities in Medicine and Dentistry"; "Expression of the Emotions in Man."

*Dentistry.* "Fundamentals of Keratinization."