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JOURNAL ARTICLE

Frontiers of Science and Our Expectations: AAAS Annual Meeting, Boston, 18-24 February 1976

Arthur Herschman



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Frontiers of Science and Our Expectations

Six score and seven years ago, to paraphrase, our founders brought forth on in Boston, ten score years after the found- ing of this nation, and among its many fac-

this continent a new Society,

The Society shall be called THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. The objects of the Association are, by periodical and migratory meetings, to promote intercourse between those who are cultivating science in different parts of the United States; to give a stronger and more general impulse, and a more systematic direction to scientific research in our country; and to procure for the labours of scientific men, increased facilities and a wider usefulness.

Our next "periodical and migratory meeting" (our 142nd National Meeting) will be

ets (see the Preliminary Program on pages 651-661 in the 14 November issue of *Science*) will be symposia designed to "promote intercourse between those who are cultivating science" in different parts of the world—a series of some 60 symposia on the "Frontiers of Science."

These symposia fall into seven groups: those of general interest, those related to physical science, to biological science, to medical science, to anthropology, to social and political science, and to behavioral science; all of interest beyond the mere bounds of the disciplines involved, and all contributing to the myriad of pieces which represent the "Frontiers of Science."

What follows is a direct list of all of these symposia in these groups. In future articles we will present the symposia in the remaining two areas of the Meeting: "Uses



Annual Meeting
Boston
18-24 February 1976

For further details, see Preliminary Program in *Science*, 14 November 1975, pages 651-661. For information about tours and special events, see *Science*, 28 November 1975, pages 871-873.

of Science" and "Perspectives in Science." We are sure that you will find them equally significant and worthy of your attendance. Send in your reservation now.

—ARTHUR HERSCHMAN

A. General Interest

The Limits of the Universe—Is It Open or Closed? (18 Feb.): Observation and understanding, optical and dynamic tests, mass of universe.
Frank D. Drake, Robert V. Wagoner, James E. Gunn, P. J. E. Peebles, Philip Morrison.

Viking Mars Science Experiments: Expectations (19 Feb.): Viking mission, goals and strategy; Martian atmosphere, organic compounds, surface composition; and biological investigation.

George W. Morigenthaler, Noel H. Hinners, James S. Martin, Jr., Gerald A. Soffen, A. Thomas Young, Michael H. Carr, Michael B. McElroy, Richard M. Goody, Thomas Mutch, Harold P. Klein, Klaus Biemann, Priestly Toulmin, III, Carl E. Sagan.

Extraterrestrial Intelligence (20 Feb.): Extrasolar systems, origins of life, Ozma search, Soviet searches, extragalactic systems.

Carl E. Sagan, Frank D. Drake, George D. Gatewood, Leslie E. Orgel, Patrick Palmer, Ben M. Zuckerman, Alan H. Bridle, P. A. Feldman, N. S. Kadashev, Philip Morrison.

The Frontiers of the Natural Sciences (22 Feb.): Chemistry, geology, physics, molecular biology, mathematics and computer sciences, astronomy.

Rolf M. Sinclair, Edward C. Creutz, Harry B. Gray, Charles L. Drake, Freeman J. Dyson, Salvador Luria, Donald E. Knuth, Philip Morrison.

The Early History of the Earth and of Life (23 Feb.): Earth-moon system, crustal evolution, geochronology, earth's outer spheres, lithosphere and crustal mobility, origin of life, fossils.

Preston Cloud, Roger Revelle, Robert Clayton, Heinrich Holland, George Wetherill, Karl Turekian, Paul Hoffman, Kevin Burke, Lynn Margulis, James W. Schopf.

Science for the Naked Eye: Or the Physics of Everyday Experience, III (24 Feb.): Nature, art, arithmetic, insect's view, illustrating, prehistory, flying circus, mirages and theology.

Rolf M. Sinclair, Eugene W. Boehne, Thomas Eisner, Carol Donner, Alexander Marshack, Jearl D. Walker, Alistair B. Fraser.

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B. Physical Sciences

Progress in the Hydrospheric Sciences in America: A Bicentennial Review (18 Feb.): Irrigation, hydropower, flood control, soil and water conservation, pollution control, urban water resources.

William C. Ackermann, Ellis L. Armstrong, Bob J. Buehler, Bernard B. Berger, M. B. McPherson.

Progress of the Atmospheric Sciences in America: A Bicentennial Review (19 Feb.): Storms, cloud physics, precipitation, atmosphere in three dimensions, national weather service.

William W. Kellogg, Gisela Kutzbach, Wendell A. Mordy, Verner E. Suomi, George P. Cressman.

The Meteorology and Chemistry of the Stratosphere (19 Feb.): Dynamics, energetics, exchange and transport processes, composition and chemical reactions.

James P. Friend, Reginald E. Newell, Edwin F. Danielsen, Jerry D. Mahlman.

Coal Science and Our National Expectations (20 Feb.): Energy, coal conversion, future requirements, nonenergy uses, combustion, process chemistry, liquefaction, gasifying.

Henry A. McGee, Jr., Walter R. Hibbard, Robert C. Seamans, Eric H. Reichl, Alvin M. Weinberg, Richard E. Balzhiser, Henrik Harboe, Richard C. Neavel, Donald C. Cronauer, Arthur M. Squires.

Estuaries, Geophysics, and the Environment (21 Feb.): Circulation, mixing, plumes, fjords, turbulence, boundary layers, water quality, salinity, nutrients, sediments, flocculent layers.

Pembroke J. Hart, D. W. Pritchard, C. B. Officer, K. R. Dyer, G. W. Garvine, Maurice Rattray, K. F. Bowden, G. T. Csanady, B. H. Ketchum, D. J. O'Connor, D. R. F. Harleman, H. J. Simpson, R. J. Gibbs, R. Kirby, K. K. Turekian.

The Magnetically Varying Sun and Its Effects on Terrestrial Climate (22 Feb.): Solar interior, magnetic variability, solar wind, variability and climate, climate theory, possible mechanisms.

Robert W. Noyes, George B. Field, Peter A. Gilman, John C. Brandt, John A. Eddy, Stephen H. Schneider, Michael B. McElroy.

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