Science Centennial
3 July 1880 to 4 July 1980

Edited by Philip H. Abelson and Ruth Kulstad

EDITORIAL
The Next 100 Years?: K. E. Boulding

ARTICLES
Messages

The Next 100 Years of Science: F. Mosteller
Science: Its Place in AAAS: W. D. Carey

Historical Perspectives

The Sciences in America, Circa 1880: D. J. Kevel, J. L. Sturchio, P. T. Carroll
Science: The Struggle for Survival, 1880 to 1894: S. G. Kohlstedt
Science and James McKeen Cattell, 1894 to 1945: M. M. Sokal
Science in Transition, 1946 to 1962: J. Walsh
Science: A Memoir of the 1960's and 1970's: D. Wolfe
Scientific Communication: P. H. Abelson
Present and Future Frontiers of the Sciences

- Stars, Galaxies, Cosmos: The Past Decade, the Next Decade: V. C. Rubin .................. 64
- The Behavioral and Social Sciences: H. A. Simon ............................................. 72
- Frontiers of the Biological Sciences: B. D. Davis .............................................. 76
- Frontiers in Chemistry: R. M. Joyce ................................................................. 89
- Mathematics: S. Mac Lane .................................................................................. 104
- Physics: D. A. Bromley ....................................................................................... 110

Status and Future of Applied Sciences

- Medicine: F. J. Ingelfinger ................................................................................. 123
- Engineering Enters New Cycle of Development and Definition: K. C. Rogers .... 127
- Industrial Research in America: Challenge of a New Synthesis: E. E. David, Jr. 133
- Operations Research and Systems Analysis: H. J. Miser ................................. 139

Interaction of Science and Technology with Societal Problems

- World Food and Nutrition: The Scientific and Technological Base: S. Wortman 157
- Energy Dilemmas in Asia: The Needs for Research and Development: R. Revelle 164
- A Global and Long-Range Picture of Energy Developments: W. Haeffele .......... 174
- Environment: G. F. White ................................................................................. 183

Cover

Metallic glass ribbon cast directly from liquid metals at high speed. Such ribbons are expected to be useful in magnetic devices for reducing energy consumption and weight. [Courtesy of Allied Chemical Corporation, Morris-town, New Jersey]