

# Science and Our Expectations: Bicentennial and Beyond

## I. The Frontiers of Science

- A. *General Interest* ... future of science ... Viking-Mars experiment ... extraterrestrial intelligence ... history of life ... limits of universe
- B. *Physical Science* ... hydro-spheric ... atmospheric ... meteorology ... storms ... terrestrial planets ... estuaries ... sun and climate ... radiation in the universe ... quantum mechanics ... coal science
- C. *Biological Science* ... models ... communications ... rhythms ... polar biology ... zoos and wildlife ... mathematical questions
- D. *Medical Science* ... bacterial infections ... medication ... neural functions ... cancer research ... consequences of intensive care ... genetics and gene manipulation ... biomedical research ... computers ... statistics
- E. *Anthropology* ... origins of Amerindians ... population studies ... fifty years of anthropology ... nonverbal behavior ... small child's alchemy ... cultural and expressive systems ... reconstructing a culture ... applications
- F. *Social and Political Science* ... integration of science ... study of religion ... innovation diffusion ... class and equality ... federalism reconsidered ... work in America ... modeling social systems ... crime ... violence
- G. *Behavioral Science* ... child rearing ... child development ... parenting function ... adolescent-adult role ... neurology of learning ... intelligence and performance ... race, genetics, and intelligence ... species-specific learning ... anticipation in human affairs ... bio-feedback ... hypnosis

## II. Uses of Science

- A. *General Interest* ... health care ... technology and handicapped ... improbable disasters ... the mouth ... connections of acoustics ... food, nutrition, and population
- B. *Health* ... hearing impaired ... malnutrition ... ecology of famine ... breastfeeding ... mortality ... occupational health ... environmental factors ... health status indexes ... diet and cancer ... fiber
- C. *Food* ... urban food ... dry-land farming ... plant productivity ... crop productivity ... food chain ... Malthus ... energy and food ... indigenous foods ... germplasm resources
- D. *Habitation and Development* ... American development ... environment of the future ... rural America ... rural technology ... air quality ... HABITAT ... economic development ... urban development ... New England
- E. *Energy* ... nonrenewable resources ... nuclear power, resources, and alternatives ... solar energy ... Alaska pipeline ... hydrocarbons ... oil from the oceans ... coal mining ... regional energy planning
- F. *Science and Technology Implications* ... university-industry interaction ... foreign policy ... operations research ... social risk ... man-computer relations ... publishing ... information ... public safety
- G. *Science and Technology Policy* ... decision rules ... social policy ... science measurement ... studies ... social utility ... policy implementation ... philosophy of technology ... research ... congressional policy ... federal policy ... government regulation ... states and technology

## III. Perspectives on Science

- A. *General Interest* ... planning for future ... science and art ... communications ... women in science ... science as drama ... anti-science ... interface with the press ... science and society
- B. *Ethical Perspectives* ... human values in engineering ... corporate scientist ... freedom and responsibility ... literary modes ... science and values
- C. *Cultural Perspectives* ... Afro-American ... Brazil ... Mexico ... Japan ... American Indians ... national needs
- D. *Historical Perspectives* ... science and revolution ... archaeology ... bicentennial retrospective ... mathematics ... climate ... biology ... academies
- E. *Education* ... environmental ... educational policies ... science of education ... museums ... college ... symbolic mathematics ... social issues ... scientific literacy ... innovative approaches ... foreign languages
- F. *Opportunities* ... women and mathematics ... minorities in science ... minorities in biomedicine ... affirmative action ... minority students ... job crisis ... science education for women ... opportunities for women



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For further details, see Preliminary Program in *Science*, 14 November 1975.