The Regulatory Environment for Science

February 1986

NTIS order #PB86-182003
Foreword

The vitality of American science is a principal component of our country’s economic and intellectual success. Congress, among other institutions, bears responsibility for nurturing creativity and exploration in science while providing appropriate safeguards. Various direct and indirect forces, however, are continually altering the agenda for scientific endeavor, its methods and practices, and the dissemination of results. It is therefore essential that Congress, in providing direction and funding for science at the Federal level, understands these forces and how they are changing.

This technical memorandum, requested by the Task Force on Science Policy of the House Committee on Science and Technology, provides a “snapshot” of factors affecting science in the 1980s, and focuses on emerging issues that will require consideration by Congress.

[Signature]

JOHN H. GIBBONS
Director
Regulatory Environment for Science
OTA Project Staff

John Andelin, Assistant Director, OTA
Science, Information, and Natural Resources Division

Nancy Carson Naismith
Science, Education, and Transportation Program Manager

Project Staff

Marcel C. LaFollette, Project Director, OTA Fellow
Kathi Hanna Mesirow, Analyst
Barbara Berman, Research Analyst
Eugene Frankel, Senior Analyst

Administrative Staff

Marsha Fenn, Administrative Assistant
Betty Jo Tatum, Secretary
Christopher Clary, Secretary
Gala Adams, Clerical Assistant

Contractors

Michael S. Baram
Bracken and Baram

Sheldon Krimsky
Department of Urban and Environmental Policy
Tufts University

Jon D. Miller
Public Opinion Laboratory
Northern Illinois University

Dorothy Nelkin
Program on Science, Technology, and Society
Cornell University
Diana Dutton
School of Medicine
Stanford University

Harold P. Green
Associate Dean for Post J.D. Studies
The National Law Center
George Washington University

Clifford Grobstein
Department of Biological Science and
Public Policy
University of California, San Diego

Irving S. Johnson
Vice President of Research
Lilly Research Laboratories

Jonathan A. King
Professor of Molecular Biology
Massachusetts Institute of Technology

Contributors

Philip Alexander
Massachusetts Institute of Technology

Nicholas A. Ashford
Massachusetts Institute of Technology

R.J. Augustine
National Institutes of Health

George Bush
Council on Governmental Relations

Daniel Callahan
The Hastings Center

Arthur Caplan
The Hastings Center

Rosemary Chalk
American Association for the Advancement
of Science

David Cheney
U.S. Congress, Library of Congress
Congressional Research Service

Daryl E. Chubin
Georgia Institute of Technology

Mary E. Curtis
John Wiley & Sons, Inc.

John Doble
The Public Agenda Foundation

George Dummer
Massachusetts Institute of Technology

John T. Edsall
Harvard University

Howard Gobstein
U.S. General Accounting Office

Milton Goldberg
Council on Governmental Relations

Loren Graham
Massachusetts Institute of Technology

Susan P. Hadden
University of Texas, Austin

Judith C. Harris
Arthur D. Little, Inc.

Gerald Holton
Harvard University

Eric Holtzman
Columbia University