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XXX**

**RESEARCH AND
DEVELOPMENT
FY 2006**

Intersociety
Working
Group

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
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Intersociety Working Group

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Contents

List of Tables	viii
Preface	x
Committee on Science, Engineering and Public Policy	xii

PART I: OVERVIEW

Highlights	3	
Chapter 1	Federal R&D in the FY 2006 Budget: An Introduction <i>Kei Koizumi, AAAS</i>	5
Chapter 2	Historical Trends in Federal R&D <i>Kei Koizumi, AAAS</i>	21
Chapter 3	Political and Policy Context for the FY 2006 Budget <i>Joanne Carney, AAAS</i>	25
Chapter 4	R&D and Innovation in Industry <i>F.M. Ross Armbrecht, Jr., IRI</i>	31
Chapter 5	Education and Human Resources in the FY 2006 Budget <i>Watson Scott Swail, EPI; Daryl E. Chubin, Shirley M. Malcom, and Kathryn Grogan, AAAS</i>	39
Overview Tables	47	

PART II: AGENCY R&D BUDGETS

Chapter 6	R&D in the FY 2006 Department of Defense Budget <i>Kei Koizumi, AAAS</i>	63
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Chapter 7	National Science Foundation in the FY 2006 Budget <i>Tobin L. Smith and Patrick White, AAU</i>	71
Chapter 8	National Institutes of Health in the FY 2006 Budget <i>Jonathan Fishburn, AAMC</i>	81
Chapter 9	The Department of Energy in the FY 2006 Budget <i>Michael S. Lubell, APS</i>	89
Chapter 10	The President's FY '06 NASA Budget Request <i>Corinne Contant-Jorgenson, AIAA</i>	99
Chapter 11	R&D in the U.S. Department of Agriculture <i>Elizabeth Allred, Eddie Gouge, and Mortimer Neufville, NASULGC</i>	107
Chapter 12	R&D in the Department of Homeland Security <i>Kei Koizumi, AAAS</i>	113
Chapter 13	R&D in Selected Agencies (Commerce, DOT, Interior, EPA) <i>Kei Koizumi, AAAS</i>	121
Agency Tables		129
PART III: DISCIPLINARY ANALYSES		
Chapter 14	Physics in the FY 2006 Budget <i>Audrey T. Leath and Richard M. Jones, AIP</i>	163
Chapter 15	Astronomy in the FY 2006 Budget <i>Kevin B. Marvel, AAS; and K. E. Saavik Ford, Carnegie Institution of Washington</i>	169
Chapter 16	Atmospheric Sciences and Climate Change Programs in the FY 2006 Budget <i>Eugene W. Bierly and H. Frank Eden, AGU</i>	177

Chapter 17	Earth Sciences in the FY 2006 Budget <i>Emily Lehr Wallace, Linda Rowan and Katie Ackerly, AGI</i>	185
Chapter 18	Biological and Ecological Sciences in the FY 2006 Budget <i>Nadine Lymn, ESA; and Adrienne Sponberg, AIBS</i>	191
Chapter 19	Chemical Sciences in the FY 2006 Budget <i>J. Carl Maxwell, Natalia Melcer, Anthony Pitagno, and Caroline Trupp Gil, ACS</i>	197
Chapter 20	Behavioral and Social Science Research in the Administration's FY 2006 Budget <i>Howard Silver and Angela Sharpe, COSSA; Heather Kelly and Patricia Kobor, APA; and Sandi Wurtz, AERA</i>	203
Chapter 21	Federal Statistics in the FY 2006 Budget <i>Edward J. Spar, COPAFS</i>	211
Chapter 22	Mathematical Sciences in the FY 2006 Budget <i>Samuel M. Rankin, III, AMS</i>	221
Chapter 23	Computing Research in the FY 2006 Budget Request <i>Peter Harsha, CRA</i>	229
Chapter 24	National Nanotechnology Investment in the FY 2006 Budget Request <i>M.C. Roco, ASME International</i>	239
Chapter 25	Electrotechnology-Related Research in the FY 2006 Budget <i>Jim Bielefeld and Bill Williams, IEEE-USA</i>	249
Chapter 26	Mechanical Engineering in the FY 2006 Budget <i>Timothy Wei, ASME International</i>	259

Appendix 1: Methodology and Data Sources	271
Appendix 2: Definitions	273
Appendix 3: Related Publications	275
Intersociety Working Group Directory	276

List of Tables

Overview Tables

Table I-1.	R&D in the FY 2006 Budget by Agency	49
Table I-2.	Distribution of the FY 2006 Budget	50
Table I-3.	Historical Trends in R&D and Federal Outlays	51
Table I-4.	Major Functional Categories of R&D	52
Table I-5.	Defense and Nondefense R&D by Character of Work	53
Table I-6.	Federal Homeland Security R&D by Agency	54
Table I-7.	“FS&T” Budget by Agency	55
Table I-8.	R&D Funding by Congressional Appropriations Subcommittee	56
Table I-9.	Interagency Science and Technology Initiatives	57
Table I-10.	R&D at Colleges and Universities	58
Table I-11.	Historical Tables: Federal R&D by Agency, FY 1995-2006	59

Agency Tables

Table II-1.	R&D in the FY 2006 Budget by Agency and Character of Work	131
Table II-2.	R&D in the Department of Defense	138
Table II-3.	DOD R&D by Military Departments and Agencies	139
Table II-4.	Department of Defense Basic Research (“6.1”)	140
Table II-5.	Department of Defense “S&T” (“6.1” – “6.3”)	141
Table II-6.	R&D in the Department of Homeland Security	142
Table II-7.	R&D in the National Science Foundation	143
Table II-8.	R&D in the Department of Health and Human Services	146
Table II-9.	R&D in the National Institutes of Health, by Institute	147
Table II-10.	National Institutes of Health by Funding Mechanism	148
Table II-11.	R&D in the Department of Energy	149
Table II-12.	R&D in the National Aeronautics and Space Administration	152
Table II-13.	R&D in the U.S. Department of Agriculture	154
Table II-14.	R&D in the Department of Commerce	155
Table II-15.	R&D in the Department of Transportation	156
Table II-16.	R&D in the Department of the Interior	157
Table II-17.	R&D in the Environmental Protection Agency	158
Table II-18.	R&D in the Department of Education	159
Table II-19.	R&D in the Department of Veterans Affairs	160

Note: Tables within chapters are not included in this list.

Preface

Scientific research and development (R&D) continue to be of vital importance to the United States in the 21st century. The federal government supports a significant proportion of the nation's R&D, and its policies profoundly affect the institutions in which this work is carried out. The President's annual budget submission and the congressional debate that ensues are the mechanisms through which policies and priorities for R&D are set. Since 1976, AAAS has published an annual report analyzing R&D in the proposed federal budget in order to make available to the scientific and engineering communities and to policymakers timely and objective information about the Administration's plans for the coming fiscal year.

This year marks the 30th in the series of AAAS R&D Reports. The effort was begun in 1976 in-house at AAAS by Willis H. Shapley, under the auspices of the Committee on Science, Engineering and Public Policy. Shortly thereafter, it became a collaborative effort, and it now involves contributors from two dozen scientific, engineering, higher education, and industrial associations known collectively as the Intersociety Working Group (see the Directory at the end of this report for contact information for each association). This volume is one of several publications and activities of the AAAS R&D Budget and Policy Program. In addition to functioning as a stand-alone document, the report serves as background for the 30th Annual AAAS Forum on Science and Technology Policy, held in Washington, DC (April 21-22, 2005).

The second publication appears after Congress has completed its appropriations process. At that time, AAAS publishes its annual review of the impact of congressional decisions on R&D, *Congressional Action on Research and Development in the FY 2006 Budget*. These publications are supplemented by R&D Funding Updates on the AAAS R&D Web site (www.aaas.org/spp/rd), which provide regularly updated information on R&D in the budget.

The overall structure of this report parallels that of recent editions. Part I, the overview, includes discussions of R&D's place in the federal

budget, the political context of FY 2006 R&D proposals, analysis of major funding trends for FY 2006, and analyses of funding for research. Chapters on R&D in industry and funding for science, engineering, and mathematics education are also included in Part I. Although neither of these latter topics is concerned strictly with R&D in the federal budget, each deals with closely related funding and policy matters that help define the context within which federal R&D is discussed and debated. A set of overview tables appears at the end of this section.

The chapters in Part II examine the proposed R&D budgets of major federal agencies and departments. Tables detailing those budgets and the budgets of several smaller agencies and departments not featured in the chapters are included at the end of Part II. Finally, Part III consists of a set of cross-cutting analyses that look at the budget in terms of disciplines and areas of research.

Readers should be aware that the chapters in this report have been prepared largely independently of one another and under extremely tight deadline pressure. Although every effort has been made to assure a high quality product, some overlap and inconsistencies among the chapters are, unfortunately, inevitable.

On behalf of the members of the Intersociety Working Group, we would like to express our appreciation to the officers, members, and staffs of the participating organizations for their support and assistance in preparing this report. Our thanks also to the AAAS Committee on Science, Engineering and Public Policy, which initiated the R&D Program and periodically reviews it and provides guidance to it. We are very grateful to individuals in the Office of Management and Budget, other federal agencies, on congressional staffs, and elsewhere who aided us in collecting the information and advised us on its interpretation.

Kei Koizumi
April, 2005

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