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XXXI**

**RESEARCH AND
DEVELOPMENT
FY 2007**

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 2007 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 2007 Budget <i>Joanne P. Carney and Kasey S. White, AAAS</i>	27
Chapter 4	Outyear Projections for R&D in the FY 2007 Budget to 2011 <i>Kei Koizumi, AAAS</i>	33
Chapter 5	Education and Human Resources in the FY 2007 Budget <i>W. Scott Swail and Sarah Hosford, EPI; Daryl E. Chubin, Shirley M. Malcom, and Laura Pomerace, AAAS</i>	37
Overview Tables	47	

PART II: AGENCY R&D BUDGETS

Chapter 6	R&D in the FY 2007 Department of Defense Budget <i>Kei Koizumi, AAAS</i>	63
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Chapter 7	National Science Foundation in the FY 2007 Budget <i>Tobin L. Smith, AAU</i>	71
Chapter 8	National Institutes of Health in the FY 2007 Budget <i>Kei Koizumi, AAAS</i>	81
Chapter 9	The Department of Energy in the FY 2007 Budget <i>Michael S. Lubell, APS</i>	91
Chapter 10	The National Aeronautics and Space Administration's FY 2007 Budget <i>Anne Ellis, AIAA</i>	101
Chapter 11	R&D in the U.S. Department of Agriculture <i>Elizabeth Allred, Eddie Gouge, and Mortimer Neufville, NASULGC</i>	109
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, VA) <i>Kei Koizumi, AAAS</i>	119
Agency Tables		127
PART III: DISCIPLINARY ANALYSES		
Chapter 14	Physics in the FY 2007 Budget <i>Richard M. Jones, AIP</i>	163
Chapter 15	Astronomy in the FY 2007 Budget <i>Kevin B. Marvel, AAS; and James H. Ovelmen, Vanderbilt University</i>	169

Chapter 16	Atmospheric Sciences and Climate Change Programs in the FY 2007 Budget <i>Eugene W. Bierly and H. Frank Eden, AGU</i>	177
Chapter 17	Earth Sciences in the FY 2007 Budget <i>Margaret Anne Baker, Jenny Fisher and Linda Rowan, AGI</i>	187
Chapter 18	Biological and Ecological Sciences in the FY 2007 Budget <i>Robert Gropp, AIBS; and Nadine Lymn, ESA</i>	193
Chapter 19	Chemical Sciences in the FY 2007 Budget <i>J. Carl Maxwell, Anthony Pitagno, and Kathryn J. Hughes, ACS</i>	199
Chapter 20	Behavioral and Social Science Research in the Administration's FY 2007 Budget <i>Howard Silver and Angela L. Sharpe, COSSA; Heather Kelly and Patricia Kobor, APA; and Sandi Wurtz, AERA</i>	205
Chapter 21	Federal Statistics in the FY 2007 Budget <i>Edward J. Spar, COPAFS</i>	213
Chapter 22	Mathematical Sciences in the FY 2007 Budget <i>Samuel M. Rankin, III, AMS</i>	223
Chapter 23	Computing Research in the FY 2007 Budget Request <i>Peter Harsha, CRA</i>	231
Chapter 24	National Nanotechnology Investment in the FY 2007 Budget Request <i>M.C. Roco, ASME International</i>	241
Chapter 25	Electrotechnology-Related Research in the FY 2007 Budget <i>Bill Williams, IEEE-USA</i>	251

Chapter 26	Mechanical Engineering in the FY 2007 Budget	261
	<i>Timothy Wei, ASME International</i>	
	Appendix 1: Methodology and Data Sources	273
	Appendix 2: Definitions	275
	Appendix 3: Related Publications	277
	Intersociety Working Group Directory	278

List of Tables

Overview Tables

Table I-1.	R&D in the FY 2007 Budget by Agency	49
Table I-2.	Distribution of the FY 2007 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.	Outyear Projections for R&D, FY 2006-2011	58
Table I-11.	Historical Tables: Federal R&D by Agency, FY 1996-2007	59

Agency Tables

Table II-1.	R&D in the FY 2007 Budget by Agency and Character of Work	129
Table II-2.	R&D in the Department of Defense	136
Table II-3.	DOD R&D by Military Departments and Agencies	137
Table II-4.	Department of Defense Basic Research (“6.1”)	138
Table II-5.	Department of Defense “S&T” (“6.1” – “6.3”)	139
Table II-6.	R&D in the Department of Homeland Security	140
Table II-7.	R&D in the National Science Foundation	141
Table II-8.	R&D in the Department of Health and Human Services	144
Table II-9.	R&D in the National Institutes of Health, by Institute	145
Table II-10.	National Institutes of Health by Funding Mechanism	146
Table II-11.	R&D in the Department of Energy	147
Table II-12.	R&D in the National Aeronautics and Space Administration	151
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 31st in the series of AAAS R&D Reports. The effort was begun in 1976 in-house at AAAS, 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 31st Annual AAAS Forum on Science and Technology Policy, held in Washington, DC (April 20-21, 2006).

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 2007 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 2007 R&D proposals, analysis of

major funding trends for FY 2007, and analyses of funding for research. A chapter on funding for science, engineering, and mathematics education is also included in Part I. 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.

Finally, this volume is dedicated to the memory of Willis H. Shapley, who passed away last October. He began this effort in 1976 as the author of the first AAAS R&D report. His many contributions to science and technology policy are deeply appreciated, and he will be missed.

Kei Koizumi
April, 2006

Part I: Overview

Overview Tables

Part II: Agency R&D Budgets

Agency Tables

Part III: Disciplinary Analyses

Appendices