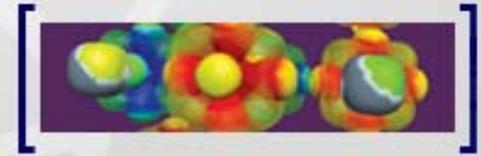




National Science Foundation



NSF Regional Grants Conference

Introduction & NSF Overview

April 7-8, 2008

Hosted by: The University of Rhode Island
Providence, Rhode Island

Ask Early, Ask Often!

Name	Title	Contact
Tom Cooley	Chief Financial Officer & Director, Office of Budget, Finance & Award Management (BFA)	tcooley@nsf.gov (703) 292-8200



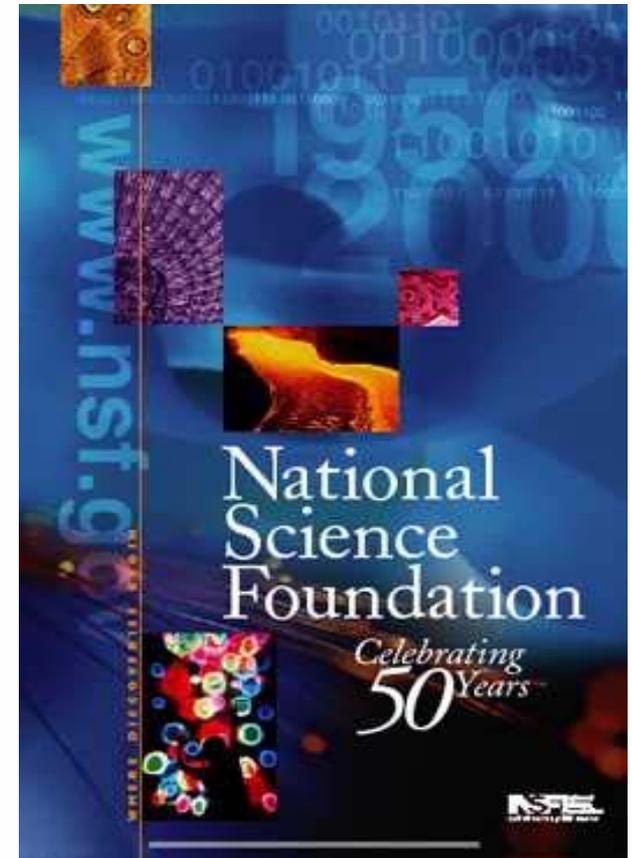
Main Topics

- **Origins of NSF**
- **The National Science Foundation**
- **NSF FY 2008 Budget: Context & Outcome**
- **The NSF FY 2009 Budget Request**
 - NSF Initiatives
- **Current Proposal, Award and Funding Trends**



Origins of NSF

- “The Government should accept new responsibilities for promoting the flow of scientific knowledge and the development of scientific talent in our youth.”
 - Science, The Endless Frontier, 1945
- 1947: Congress Approves, Truman Vetoes: Agencies created in the meantime
- 1950: Compromise Bill Approved & Signed by Truman



NSF Act of 1950

- “To promote the progress of science...”
- NSB (24) and 1 Director, appointed by the President
- Encourage & develop a national policy for the promotion of basic research and education in the math, physical, medical, biological, engineering and other sciences
- Initiate & support basic scientific research in the sciences
- Evaluate the science research programs undertaken by agencies of the Federal government
- Provide information for S&E policy formation



NSF Vision

**Advancing discovery,
innovation and education
beyond the frontiers of current
knowledge, and empowering
future generations in science
and engineering.**



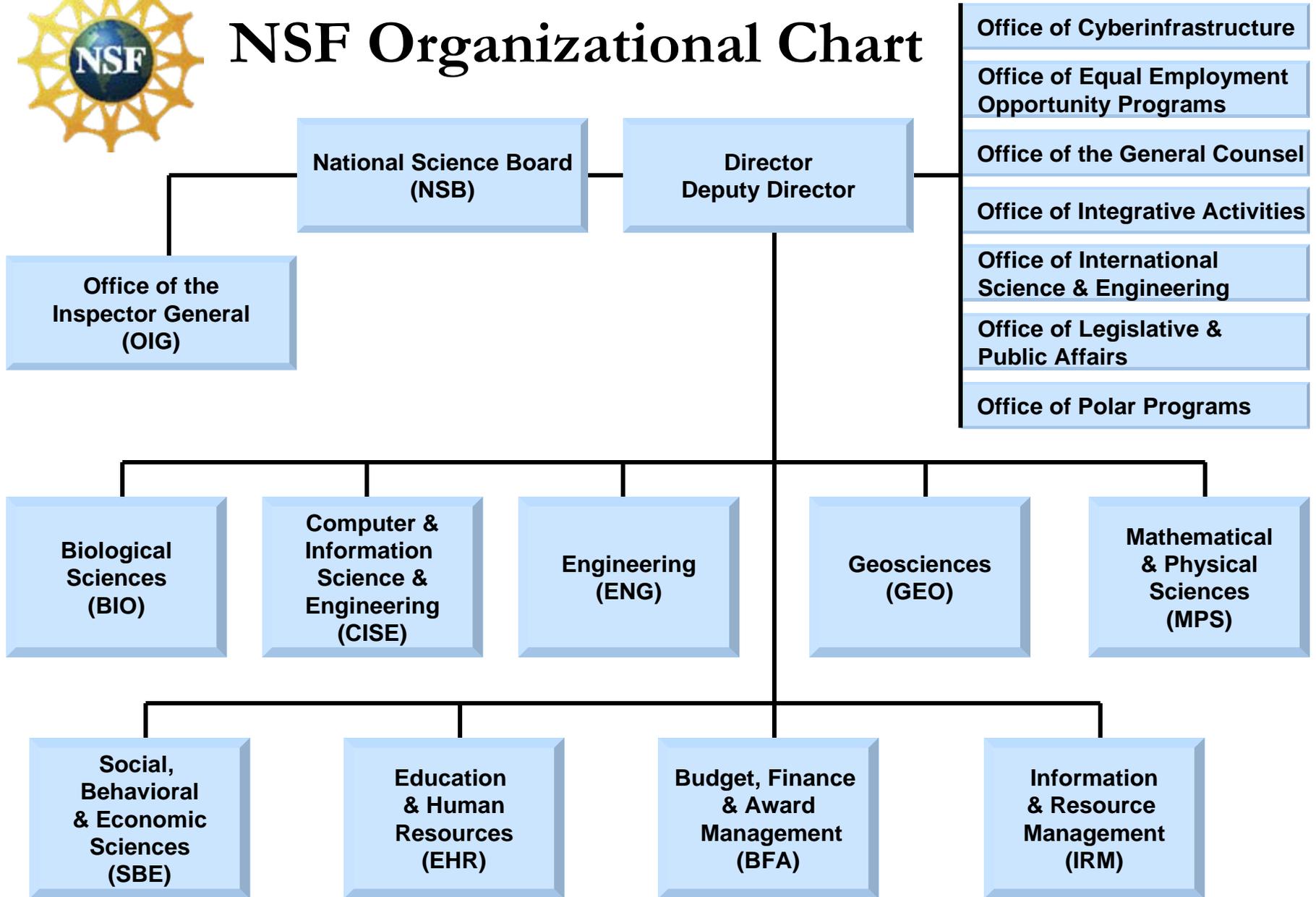
NSF in a Nutshell

- Independent Agency
- Supports basic research & education
- Uses grant mechanism
- Low overhead; highly automated
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- National Science Board





NSF Organizational Chart



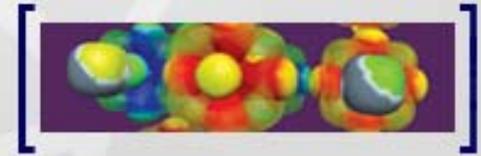
NSF: Recent Personnel Changes

- **Dr. Tim Killeen** named **Assistant Director for Geosciences (GEO)**
- **Dr. W. Lance Haworth** appointed **Director of the NSF Office of Integrative Activities**
- **Dr. Jeanette Wing** named **Assistant Director of the Directorate for Computer and Information Science and Engineering (CISE)**
- **Dr. Cora B. Marrett** named **Assistant Director for Education and Human Resources (EHR)**
- **Dr. Henry Blount** named **Head, EPSCoR Office (EPSCoR moved to the Office of the Director)**



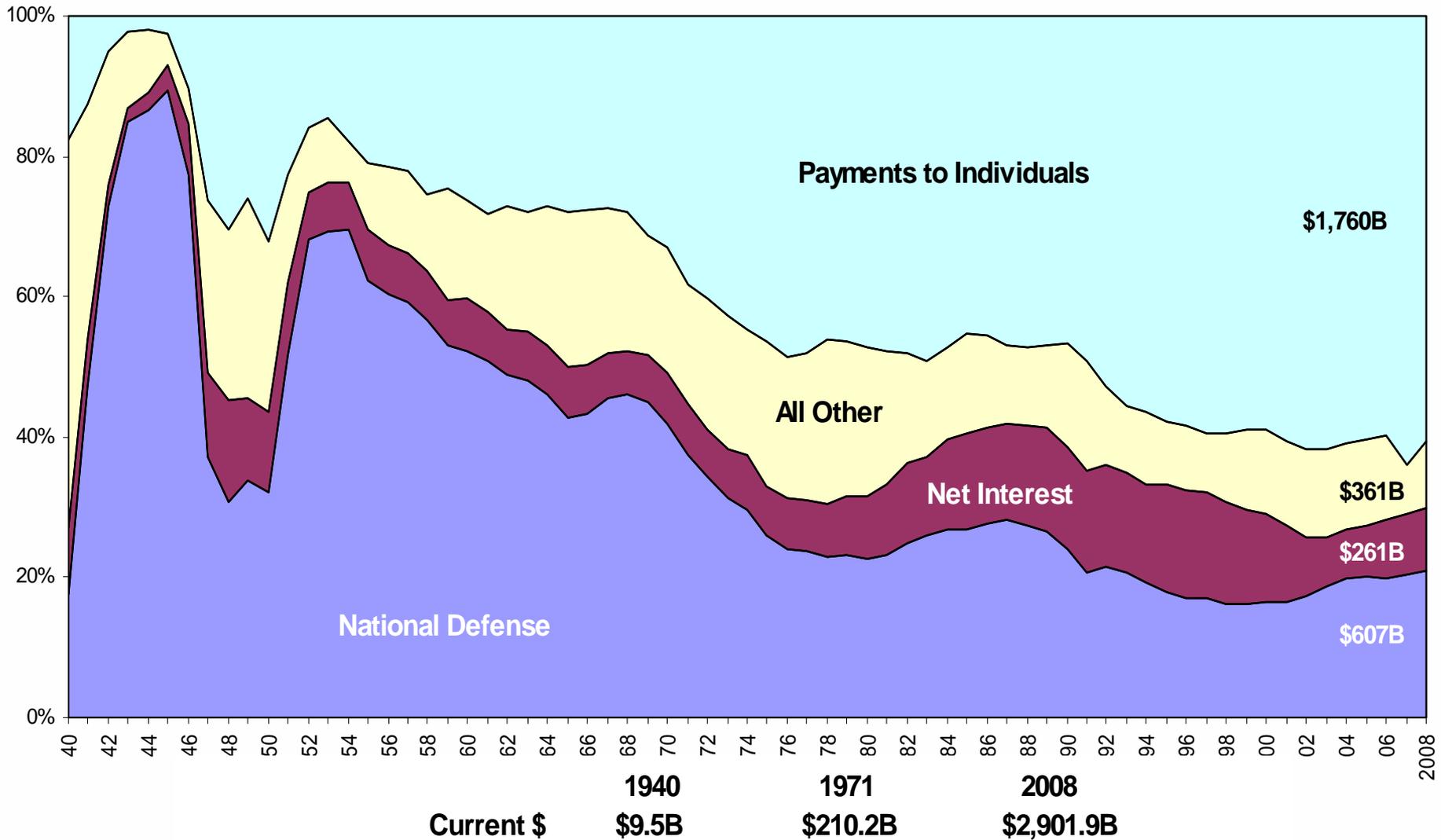


National Science Foundation



FY 2008 Budget Context & Outcome

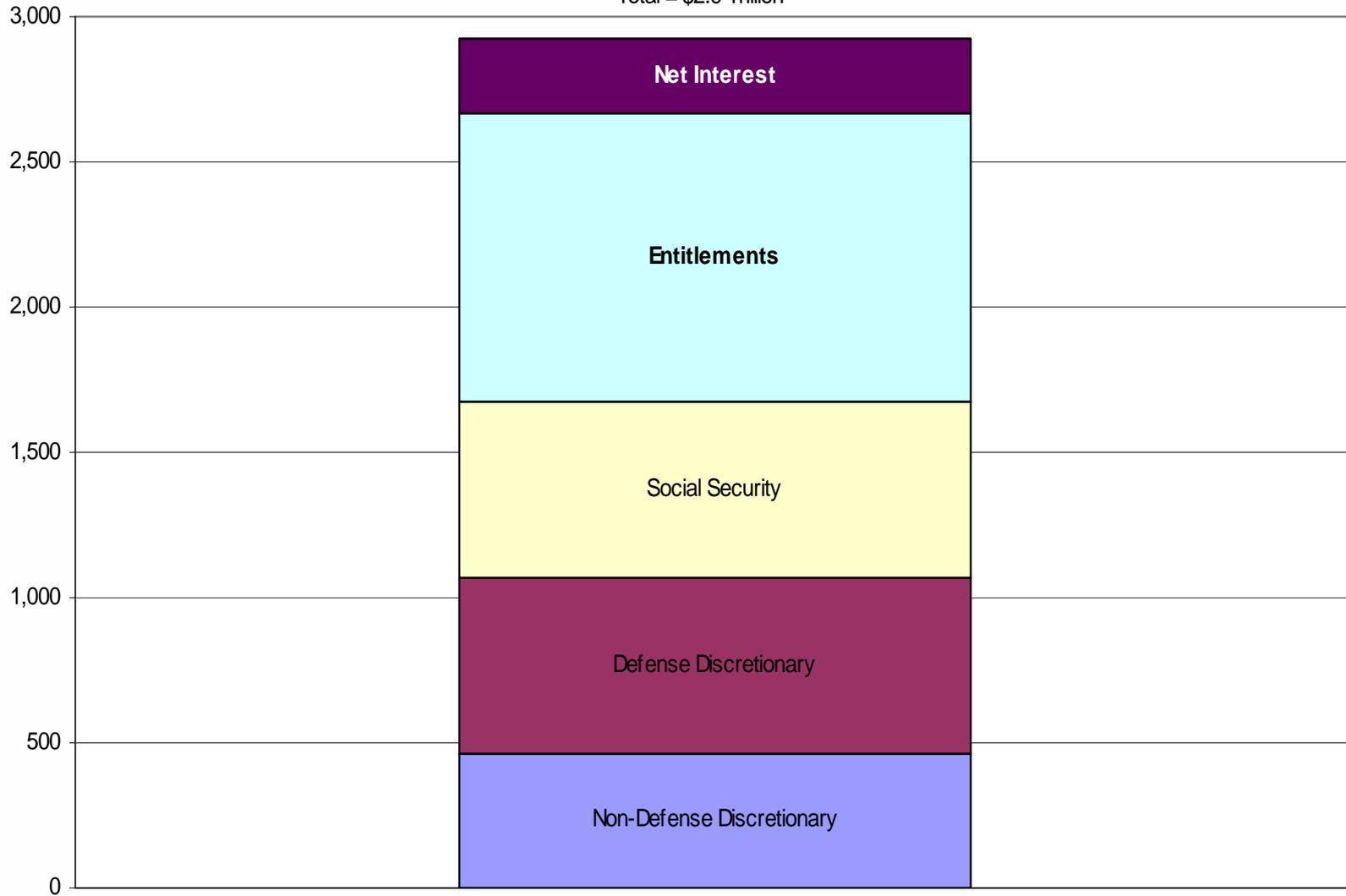
Percentage Composition of Federal Government Outlays



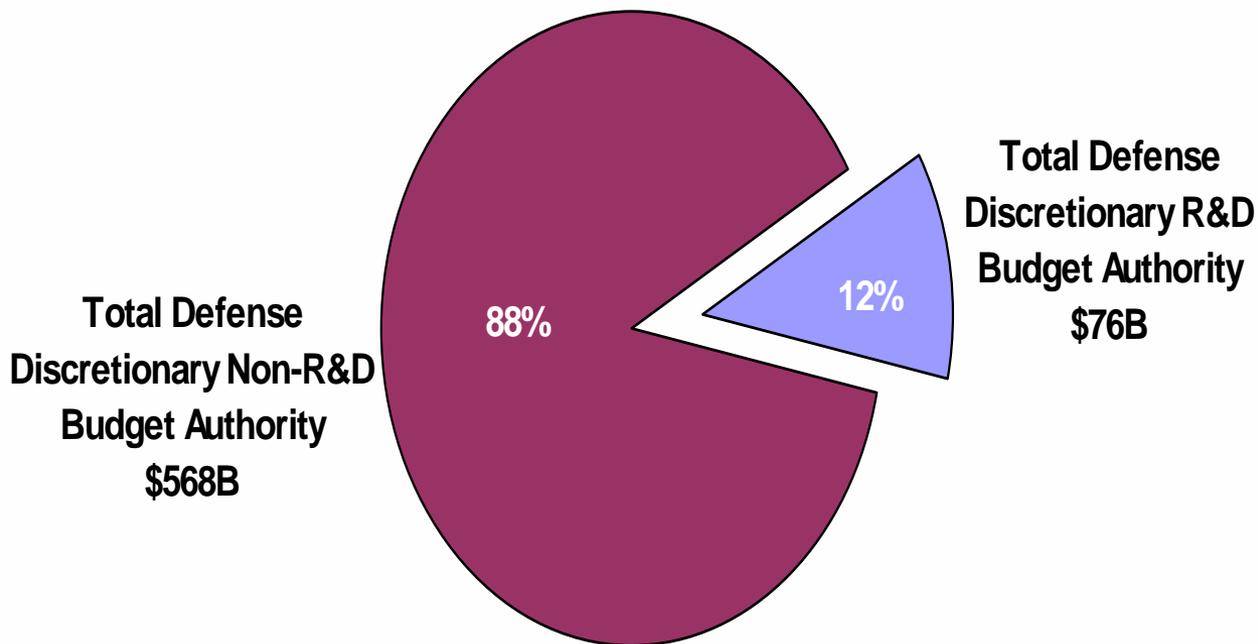
Federal Spending - FY 2008

\$ in Billions

Total = \$2.9 Trillion



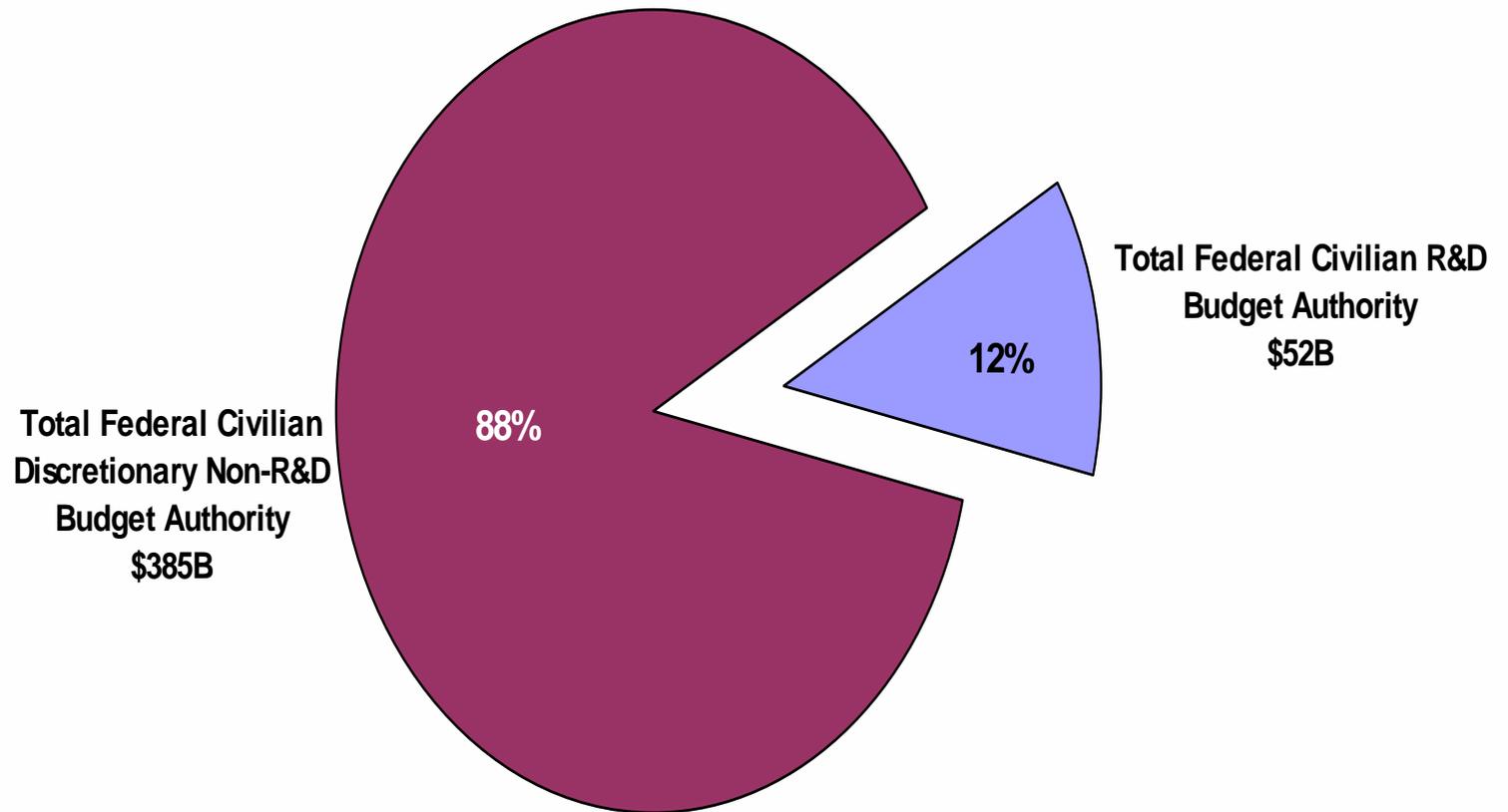
Defense R&D as a Percent of Total Defense Discretionary Budget Authority – FY 2008



Total = \$644B



Federal Civilian R&D as a Percent of Total Civilian Discretionary Budget Authority -- FY 2008



FY 2008 Outcome

- Not encouraging for NSF
- Small increases, but major fix in support of our infrastructure (people, building, IT systems such as FastLane and Research.gov)
- Some discussions of a possible supplemental, but don't count your chickens...



FY 2009 Budget Request

- **The Big Picture**
 - Total: \$6.85 billion
 - Increase: 13%



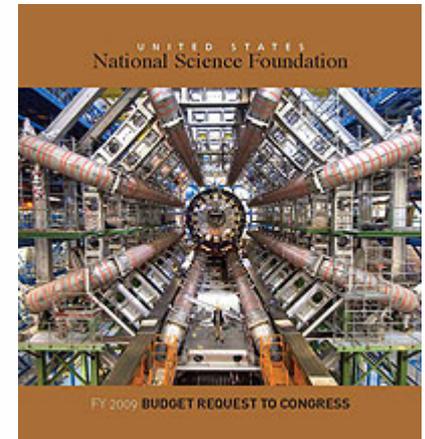
FY 2009 Budget Request by Appropriations Account (millions)

Appropriations Account	FY 2009 Request	Change from FY 2008 Request
Research & Related Activities	\$5,593.99	\$772.52 (16%)
Education & Human Resources	\$790.41	\$64.81 (8.9%)
Major Research Equipment & Facilities Construction	\$147.51	\$-73.23 (-33.2%)
Agency Operations & Award Management	\$305.06	\$23.27 (8.3%)
National Science Board	\$4.03	\$0.06 (1.5%)
Inspector General	\$13.10	\$1.67 (14.6%)
TOTAL, NSF	\$6,854.10	\$822.10 (13.6%)



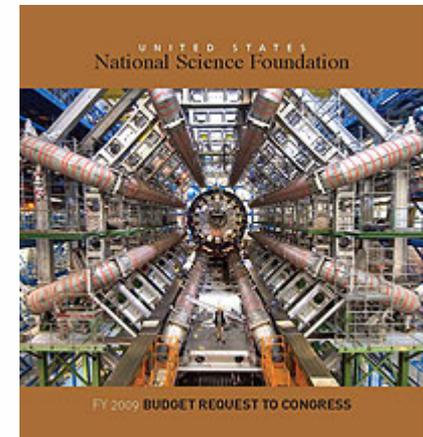
FY 2009 Budget Highlights

- **Cross-Foundation Investments**
- **Support for Research Grants**
- **New Faculty & Young Investigators**
- **Graduate Research Fellowships**
- **Science & Technology Centers**
- **Cybersecurity**
- **International Science & Engineering**
- **Oceans Research**



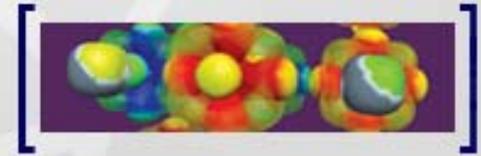
FY 2009 Budget Highlights (Cont'd)

- **Polar Research & Logistics**
- **Major Research Equipment & Facilities Construction (MREFC)**
- **Enriching the Education of STEM Teachers**
- **Promoting Learning through Research and Evaluation**
- **Broadening Participation**
- **Interagency R&D Priorities**
- **Stewardship**



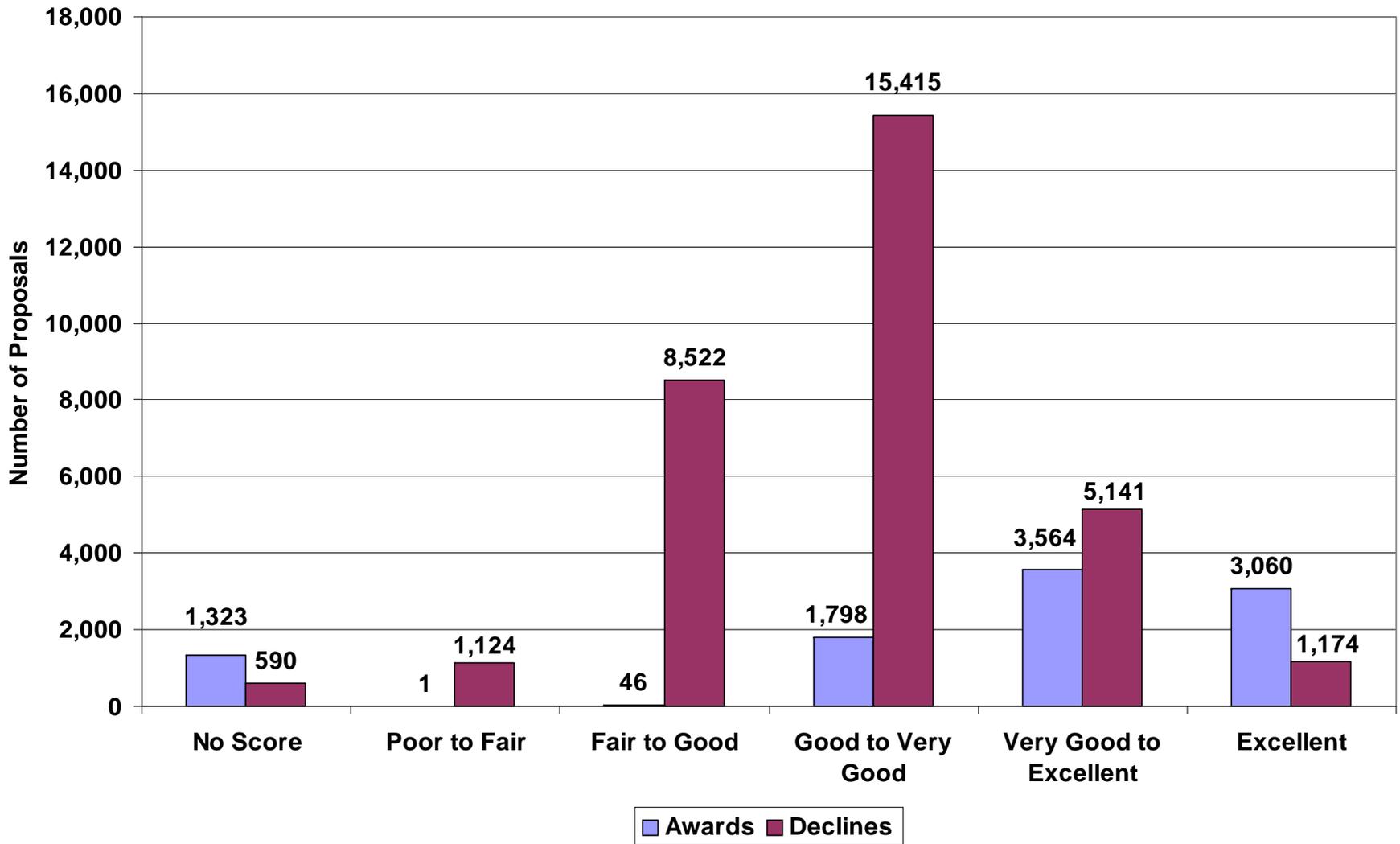


National Science Foundation



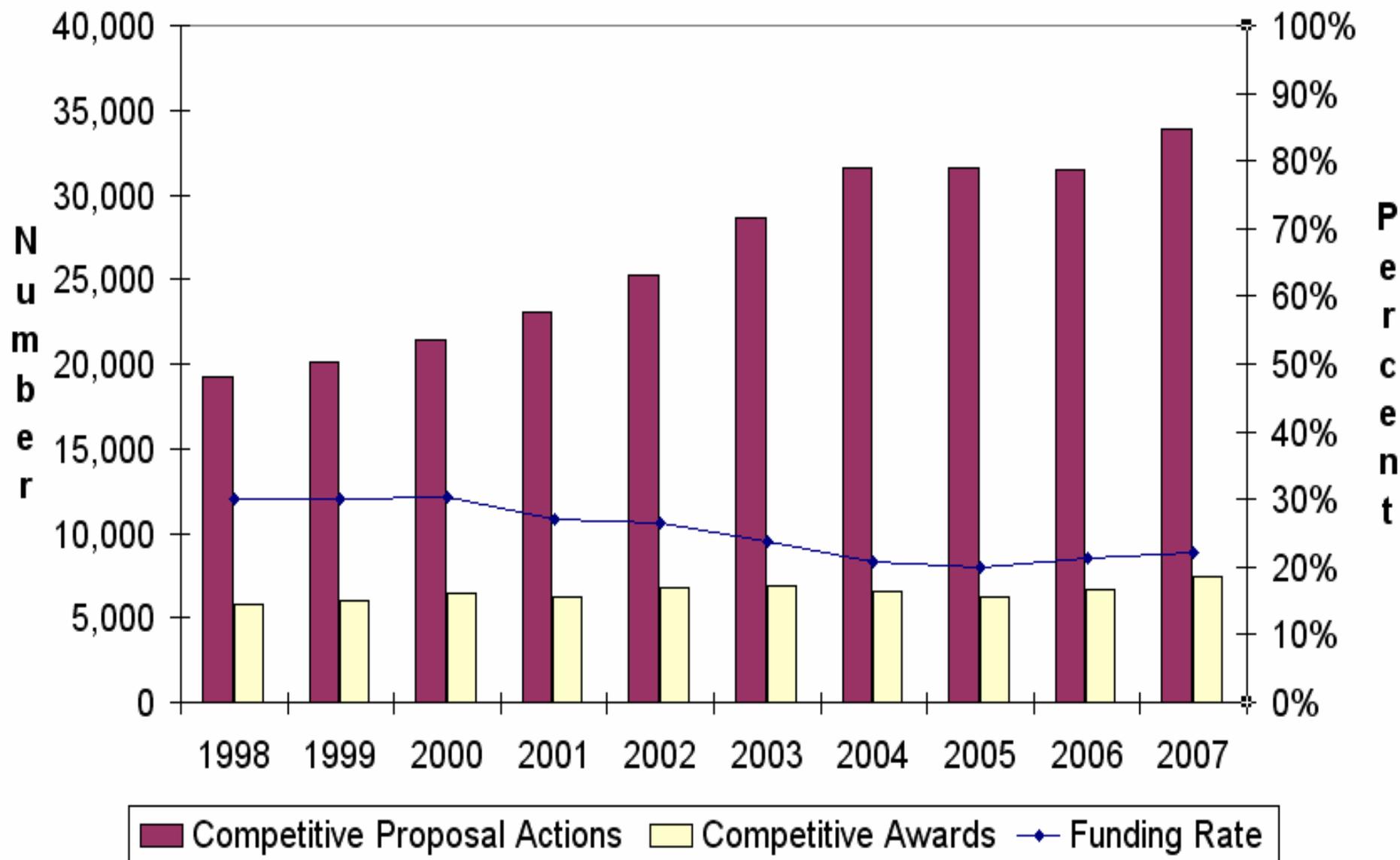
Current Proposal, Award & Funding Trends

Distribution of Average Reviewer Ratings FY 2005

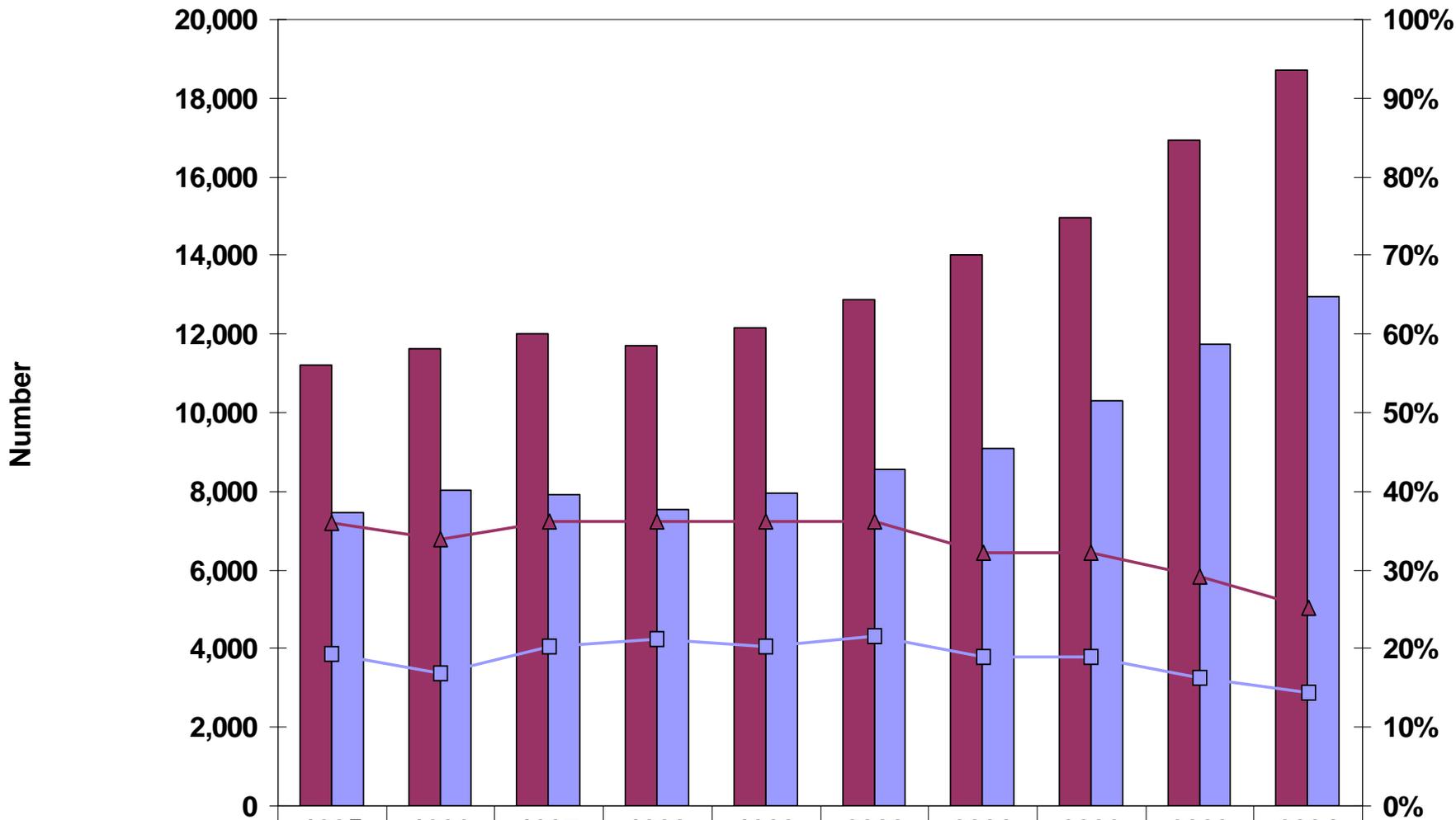


Number of Proposals: 31,966 Declines, 9,792 Awards

NSF Funding Rate for Competitive Awards - Competitive Research Grants

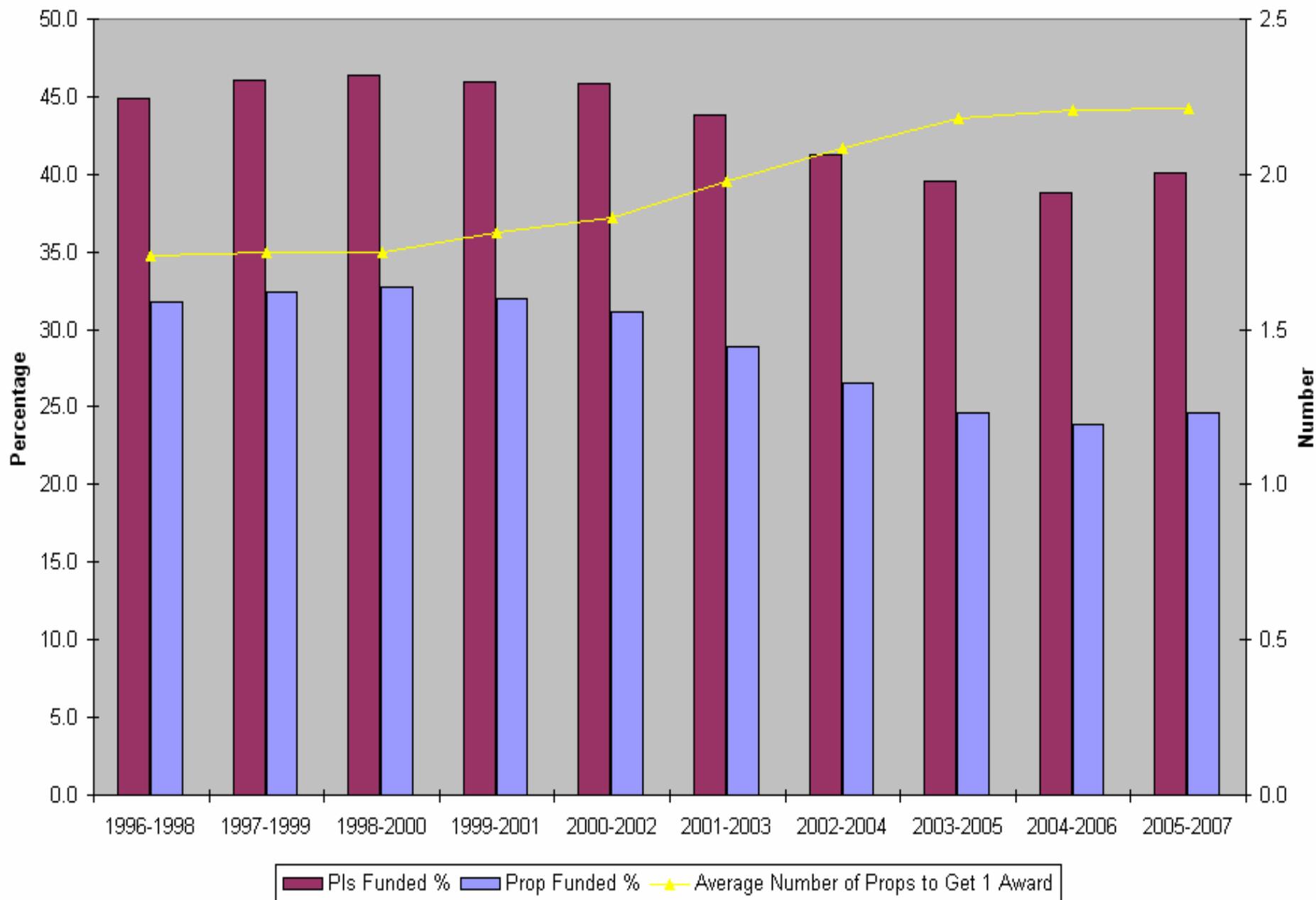


Research Grant Proposals by PI Type

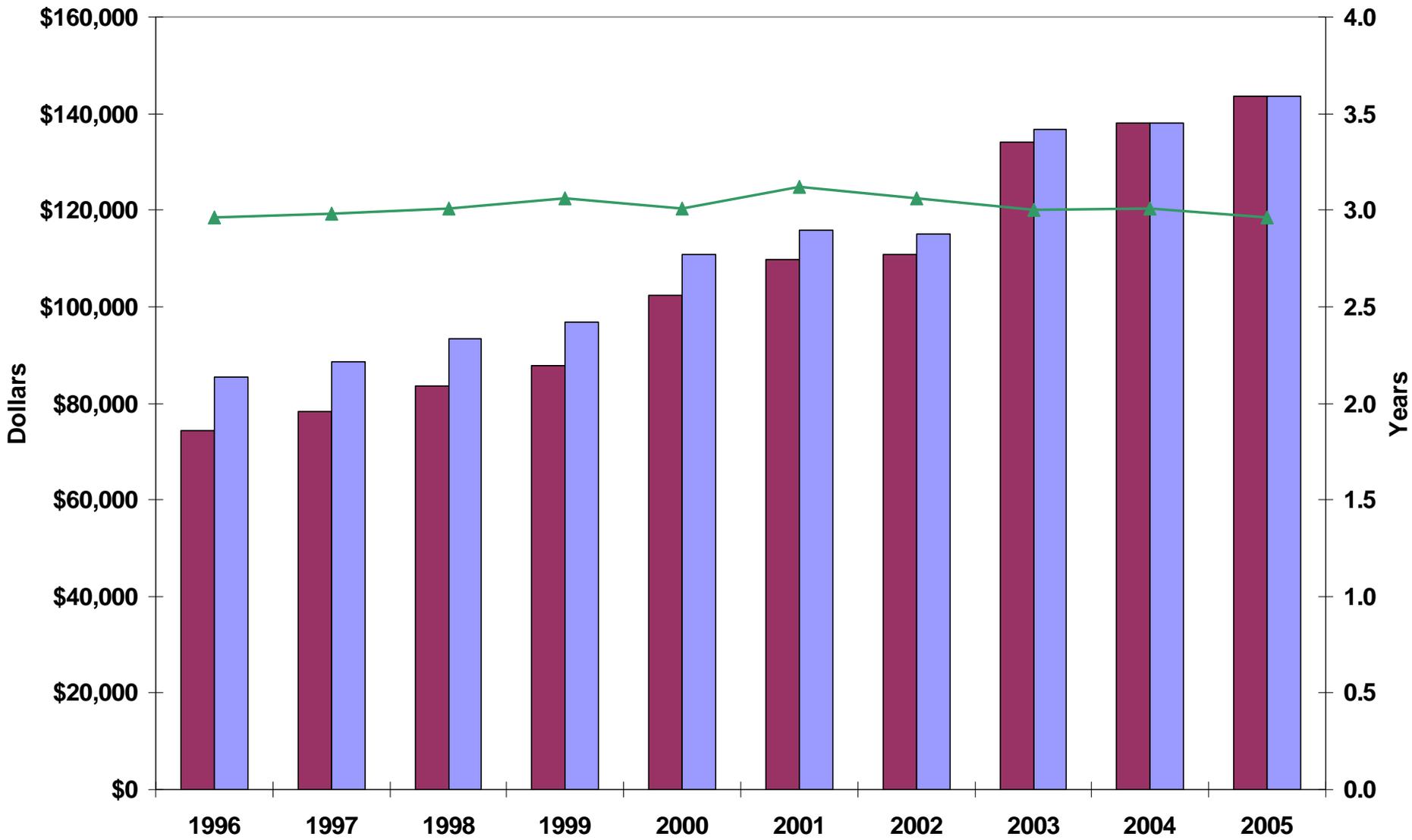


■ Proposals - Prior PI	11,203	11,635	12,026	11,693	12,172	12,885	14,013	14,965	16,944	18,700
■ Proposals - New PI	7,446	8,013	7,910	7,526	7,951	8,561	9,084	10,286	11,752	12,941
▲ Funding Rate - Prior PI	36%	34%	36%	36%	36%	36%	32%	32%	29%	25%
■ Funding Rate - New PI	19%	17%	20%	21%	20%	22%	19%	19%	16%	14%

PI vs. Proposal Funding Rate - Research Grants Based on 3-Year Intervals



NSF Competitive Award Size and Duration - Research Grants



*Based on estimated 2003-2004 Deflator

Ann Mean Current \$
 Ann Mean Constant \$

 Mean Duration

Key Documents

- **FY 2008 NSF Budget Appropriation**
 - http://www.nsf.gov/about/congress/110/highlights/cu08_0108.jsp
- **FY 2009 NSF Budget Request**
 - <http://www.nsf.gov/about/budget/fy2009/index.jsp>
- **Proposal & Award Policies & Procedures Guide**
 - http://www.nsf.gov/publications/pub_summ.jsp?ods_key=papp
- **Science and Engineering Indicators**
 - <http://www.nsf.gov/statistics/seind08/>
- **When in doubt:**
 - <http://www.nsf.gov/>



NSF Websites

National Science Board	http://www.nsf.gov/nsb/
Director/Deputy Director	http://www.nsf.gov/od/
Inspector General	http://www.nsf.gov/oig/
Office of Cyberinfrastructure	http://www.nsf.gov/dir/index.jsp?org=OCI
Office of International Science and Engineering	http://www.nsf.gov/div/index.jsp?div=OISE
Office of Equal Opportunity Programs	http://www.nsf.gov/od/oeo/index.jsp
Office of Legislative and Public Affairs	http://www.nsf.gov/od/lpa/index.jsp
Office of the General Counsel	http://www.nsf.gov/od/ogc/index.jsp
Office of Polar Programs	http://www.nsf.gov/dir/index.jsp?org=opp
Office of Integrative Activities	http://www.nsf.gov/od/oia/index.jsp
Biological Sciences	http://www.nsf.gov/dir/index.jsp?dir=BIO
Social, Behavioral & Economic Sciences	http://www.nsf.gov/dir/index.jsp?dir=SBE
Computer & Information Science & Engineering	http://www.nsf.gov/dir/index.jsp?dir=CISE
Education & Human Resources	http://www.nsf.gov/dir/index.jsp?dir=EHR
Engineering	http://www.nsf.gov/dir/index.jsp?dir=ENG
Budget, Finance & Award Management	http://www.nsf.gov/bfa/
Geosciences	http://www.nsf.gov/dir/index.jsp?dir=GEO
Information Resource Management	http://www.nsf.gov/oirm/
Mathematical & Physical Sciences	http://www.nsf.gov/dir/index.jsp?dir=MPS

