



NSF Experimental Program to Stimulate Competitive Research (EPSCoR)

Project Directors and Project Administrators Meeting

A Brace of Budgets: FY 2011 and FY 2012

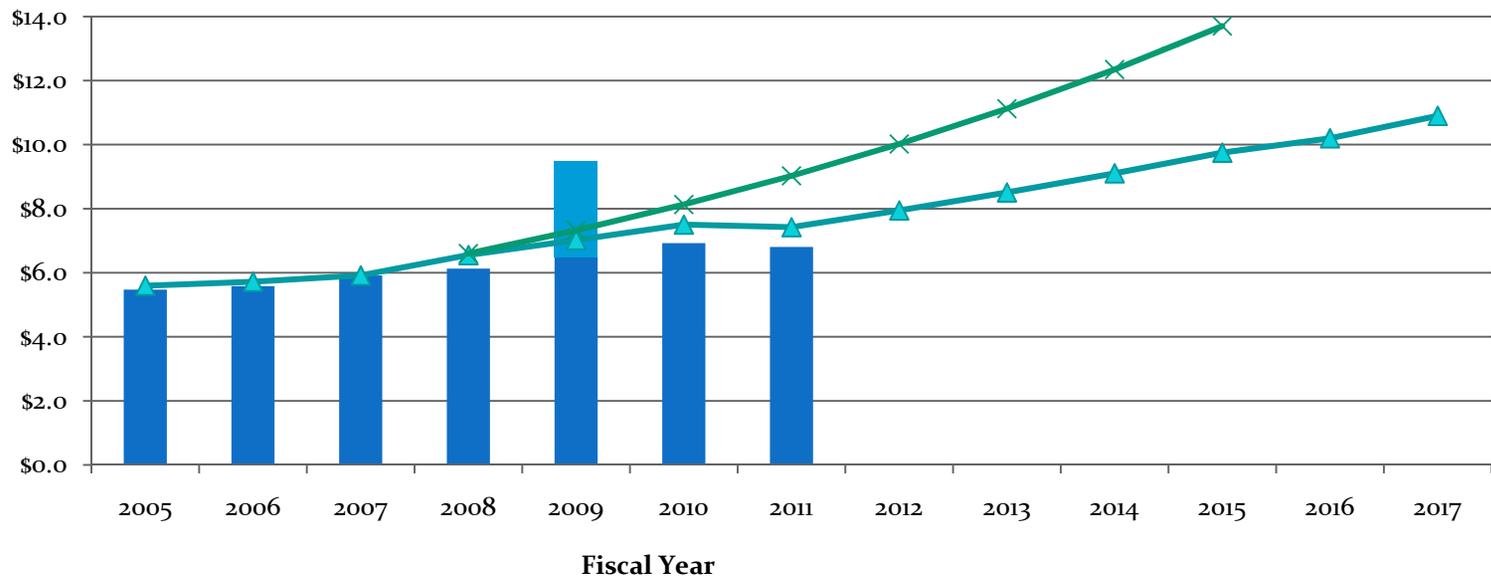
Marty Rubenstein
NSF CFO and BFA Director
May 16, 2011



Budget

Recent and Outyear NSF Funding

\$ in Billions



NSF Appropriations

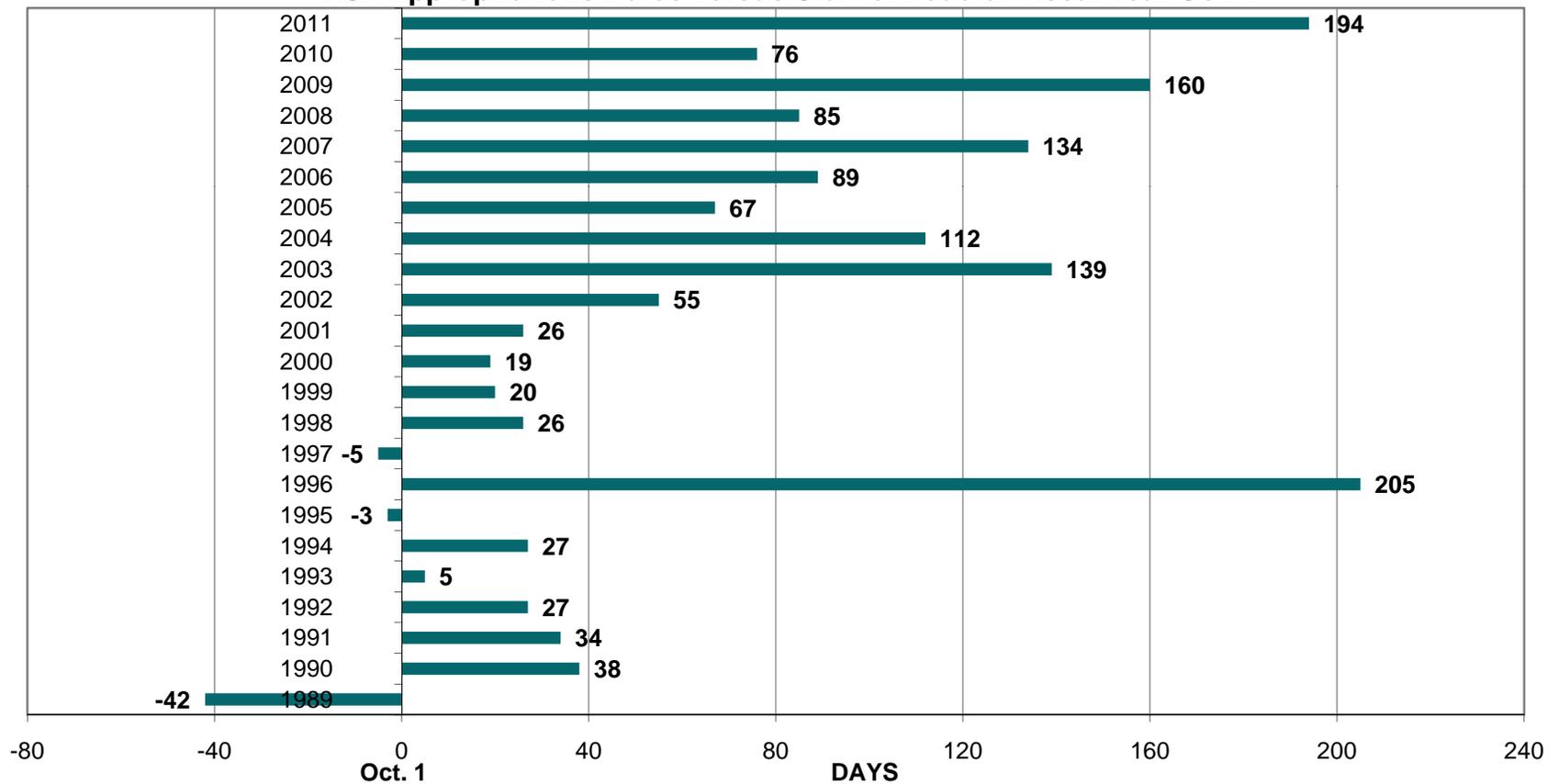
ARRA Appropriations

President's Plan for Science & Innovation

America COMPETES Act

Appropriations Drift: 1989 to present

APPROPRIATIONS DRIFT
NSF Appropriations Dates versus Start of Federal Fiscal Year Oct. 1



FY 2011 Appropriations: NSF Total

(Dollars in Millions)

	FY 2010 Enacted	FY 2011 Request	FY 2011 Enacted	FY 2011 Enacted over FY 2010 Enacted:		FY 2011 Enacted over FY 2011 Request:	
				Amount	Percent	Amount	Percent
Total, NSF	\$6,873	\$7,370	\$6,806	-\$67	-1%	-\$564	-8%

Amounts exclude the appropriation transfer of \$54 million to U.S. Coast Guard.

Major Reductions

(Dollars in Millions)

	Changes from FY 2010 Enacted to FY 2011 Enacted
FY 2010 Enacted	\$6,873
R&RA	-\$43
EHR	-\$10
0.2% Across the Board Cuts	-\$14
<i>Total FY 2011 Reductions</i>	<i>-\$67</i>
FY 2011 Enacted	\$6,806

Totals may not add due to rounding.

Amounts exclude the appropriation transfer of \$54 million to U.S. Coast Guard.

FY 2011 Appropriations By Account

(Dollars in Millions)

	FY 2010 Enacted	FY 2011 Request	FY 2011 Enacted	FY 2011 Enacted over FY 2010 Enacted	
				Amount	Percent
R&RA	\$5,564	\$5,965	\$5,510	-\$54	-1.0%
EHR	\$873	\$892	\$861	-\$12	-1.3%
MREFC	\$117	\$165	\$117	\$0	-0.2%
AOAM	\$300	\$329	\$299	-\$1	-0.2%
OIG	\$14	\$14	\$14	\$0	-0.2%
NSB	\$5	\$5	\$5	\$0	-0.2%
Total, NSF	\$6,873	\$7,370	\$6,806	-\$67	-1.0%

Totals may not add due to rounding.

Amounts exclude the appropriation transfer of \$54 million to U.S. Coast Guard.

FY 2012 Request vs. FY 2010 Enacted

(Dollars in Millions)

**Difference between
FY 2010 Enacted and
FY 2012 Request**

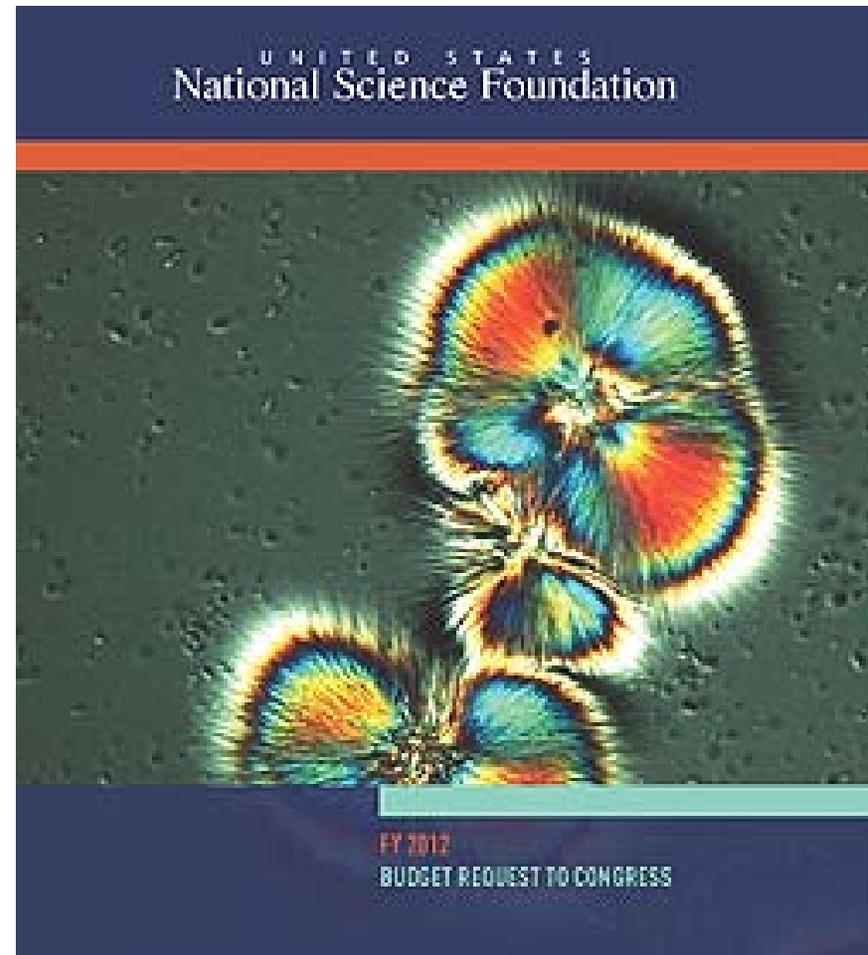
	FY 2010 Enacted	FY2012 Request	Amount	Percent
R&RA	\$ 5,564	\$ 6,254	\$ 690	12%
EHR	873	911	38	4%
MREFC	117	225	107	92%
AOAM	300	358	58	19%
NSB	5	5	0	7%
OIG	14	15	1	7%
Total, NSF	\$ 6,873	\$ 7,767	\$894	13%

Totals may not add due to rounding

FY 2012 Budget Request

The Three Pillars of Innovation

- Invest in the Building Blocks of American Innovation
- Promote Competitive Markets that Spur Productive Entrepreneurship
- Catalyze Breakthroughs for National Priorities





Invest in the Building Blocks of American Innovation

Request	FY 2012 Request
Fundamental Research	R&RA +12% / R&D +16%
Growth in research awards	+ 2,000
Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE)	\$12 M
Science and Engineering Beyond Moore's Law (SEBML)	\$97 M
Research at the Interface of the Biological, Mathematical, and Physical Sciences (BioMaPS)	\$76
Faculty Early Career Development Program (CAREER)	\$222 M
Graduate Research Fellowship Program (GRF)	\$198 M



Invest in the Building Blocks of American Innovation

Request	FY 2012 Request
STEM Education Programs	
Community Colleges	\$100 M
Teacher Learning for the Future (TLF)	\$20 M
Transforming Broadening Participation through STEM (TBPS)	\$20 M
Widening Implementation and Demonstration of Evidence-based Reforms (WIDER)	\$20

Promote Competitive Markets that Spur Productive Entrepreneurship

Request	FY 2012 Request
Advanced Manufacturing	\$190 M
Enhancing Access to the Radio Spectrum (EARS)	\$15 M
Engineering Research Centers (ERC) and Industry/University Cooperative Research Centers (I/UCRC)	\$96 M
Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR)	\$147 M
Wireless Innovation (WIN) Fund <ul style="list-style-type: none">• \$1 billion over five years (mandatory spending)• \$150 million in FY 2012	



Catalyze Breakthroughs for National Priorities

Request	FY 2012 Request
Cyberinfrastructure Framework for 21 st Century Science and Engineering (CIF21)	\$117 M
Science, Engineering, and Education for Sustainability (SEES)	\$998 M
Clean Energy	\$576 M
National Nanotechnology Signature Initiatives	\$117 M
National Robotics Initiative (NRI)	\$30 M