The Only Government-wide Forum for Technology Transfer

FLC Washington DC Office

Gary K. Jones
FLC DC Rep

Northeast
FLC Regional Meeting
"DC Update – Since March 2007"

September 25, 2007

Overview

- **Legislation/Hearings Status**
  - America COMPETES Act
  - Patent Reform Bills
  - SBIR/STTR Reauthorization
  - Tech Transfer Hearings
- **R&D Budget Status**
  - Homeland Security

America COMPETES Act

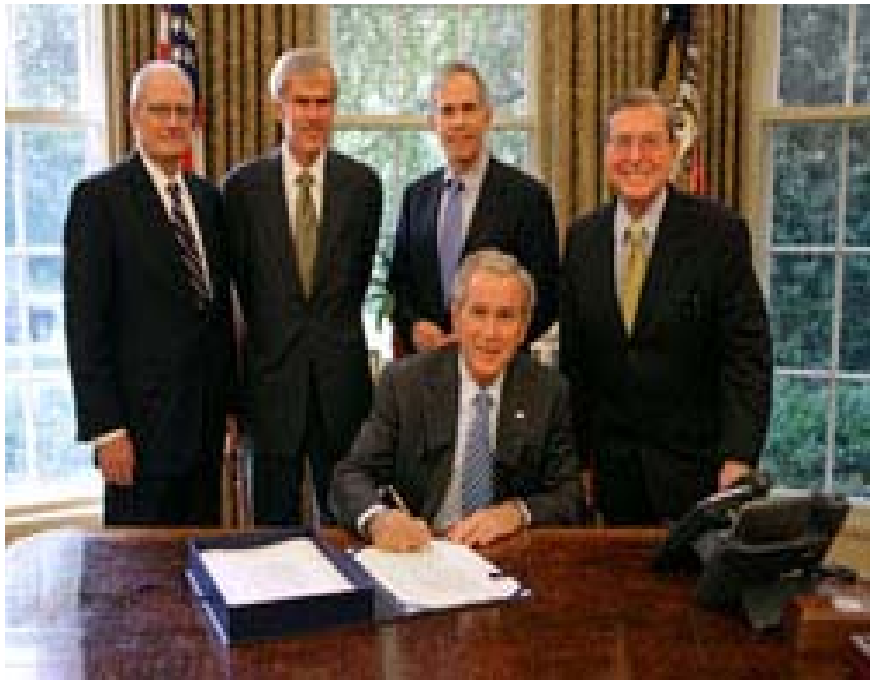
(P.L. 110-69)

SENATE
The American COMPETES Act
(S. 761)

PACE bills, others
OMB: Statement of Administrative Policy

HOUSE
The 21st Century Competitiveness Act
(H.R. 2272)

NIST Reauthorization
NSF Reauthorization
Two bills based on *Gathering Storm*



House/Senate Conference Agreement ….. July 31, 2007
President Signed P.L. 110-69 ……... August 9, 2007

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America COMPETES Act

(Overview)

Summary Highlights:

- Keeps NSF, NIST, DOE/Science on near-term doubling path;
- Authorizes $33.6 B (FY08-FY10) for STEM research and education programs government-wide;
- Creates thousands of new teachers and improves skills of current teachers through NSF Noyce Teacher Scholarship Program and Math & Science Partnership Programs;
- Creates TIP (replacing ATP) at NIST – to fund high-risk high-reward pre-competitive technology development; puts the MEP on path to doubling over 10 years;
- Establishes ARPA-E at DOE – for high-risk high-reward energy research;

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America COMPETES Act

(Overview - Continued)

Summary Highlights - continued:

- Expands NSF programs to enhance UG education of future S&E workforce;
- Authorizes two new competitive grant programs to support BS science degrees with concurrent teaching certification;
- Authorizes competitive grants to increase number of teachers in high schools and expand AP/IB programs;
- Expands early career grant programs and provides support for young investigators at DOE and NSF;
- Strengthens interagency planning and coordination for research infrastructure and IT.

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Patent Reform Bills

(Issues and Status)

Selected Issues:

- From 1st to Invent to 1st to File
- Post Grant Review Process
- Willful Infringement
- **Damages Apportionment**

Status:

- House (H.R. 1908): Passed the House August 7, 2007
  - Statement of Administrative Policy
- Senate (S. 1145): Out of Committee; Still debating (later in Fall)

****Note: USPTO Issued Rules on "Claims and Continuations"; take effect November 1, 2007 (see USPTO web site)**

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SBIR/STTR Reauthorization

(Issues and Status)

Selected Issues:

- Raising funding limits
- Increasing Set Aside
- VC Ownership
- Funding for Administrative Costs
- Federal Lab Waiver

Status:

- SBIR authorization ends 2008; STTR in 2009
- Several bills in last Congress (Kerry, Senate SB&E Committee)
- House S&T Committee held several hearings in Spring/Summer 2007
- Several proposals introduced this Congress
- Limited Progress

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Tech Transfer Hearings

(Issues and Status)

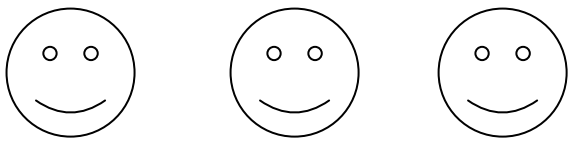
House S&T Committee; Subcommittee on Technology and Innovation
(Holding General Oversight Hearings on Technology Transfer)

Bayh-Dole:

- Held hearing in July 2007
- Witnesses: 3 Acad, 2 Ind (IT, Cheml)
- Issues: Overall impacts, suggested changes, etc.
- Varied opinions

Stevenson-Wydler:

- Hearings not scheduled yet – Nov 2007??
- No Witnesses Identified … yet



Agencies? Industry? Associations?

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FY 2008 R&D Budget Rollout

(Total and Priorities)

- **Proposed:** ~ $143.0 Billion (up 1.4% from ’07)

- **Priorities:**
  - Physical sciences (ACI agencies: NIST, NSF, DOE/Science)
  - Defense weapons development
  - Space vehicle development
  - **Homeland security**

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FY 2008 R&D Budget Request & Approps

($$ Millions)

Agency	FY08 BR	(Δ '07)	House	(Δ BR)	Senate	(Δ BR)
DOE/Science	4,052	15.4 %	4,102	1.2 %	4,141	2.2 %
NSF	4,856	8.3 %	4,870	0.3 %	4,888	0.7 %
NASA	12,594	6.7 %	12,959	2.9 %	12,798	1.6 %
DOC/NIST	514	4.7 %	619	20.5 %	595	15.8 %
DHS	**996**	**4.2 %**	**986**	**(1.1 %)**	**1,059**	**6.3 %**
DOE/Defense	3,796	2.6 %	3,848	1.4 %	3,889	2.5 %
DOT	813	2.4 %	836	2.8 %	847	4.1 %
DOD/Other	65,233	1.6 %	64,927	(0.5 %)	64,927	(0.5 %)*
DOC/NOAA	528	(0.7 %)	585	10.8 %	628	19.0 %
NIH	28,066	(1.2 %)	29,067	3.6 %	29,310	4.4 %
DOI/USGS	547	(3.0 %)	602	10.0 %	581	6.3 %
VA	822	(3.4 %)	891	8.4 %	911	10.8 %
EPA	540	(3.7 %)	620	14.9 %	566	4.8 %
DOE/Energy	1,386	(8.9 %)	1,803	30.1 %	1,965	41.8 %
USDA	2,009	(10.9 %)	2,289	14.0 %	2,343	16.6 %
DOD/S&T	10,906	(22.1 %)	12,645	15.9 %	12,645	15.9 %*
Other	X		X		X	
Total R&D	**140,278**	**(0.5 %)**	**144,287**	**2.9 %**	**144,788**	**3.2 %**

* DOD Senate figures are House figures (Senate has not acted on DOD appropriations yet)

Source: AAAS – August 6, 2007

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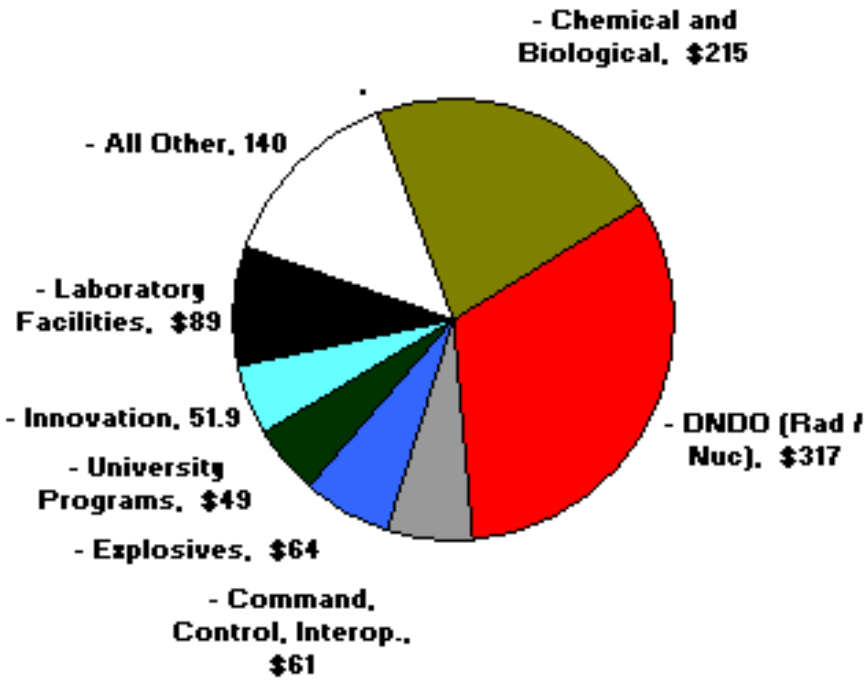
Dept. of Homeland Security R&D: FY 2008 (House)

(millions of dollars budget authority)



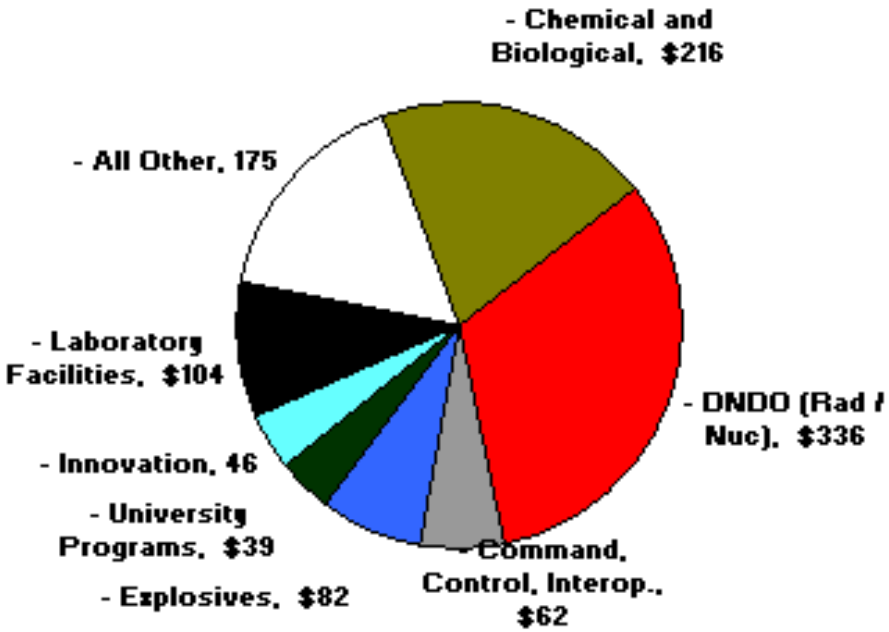
Total FY 2008 R&D:
$1.0 billion (House)

Source: AAAS estimates of R&D in House FY 2008 DHS appropriations.
JUNE '07 © 2007 AAAS

AAAS

Dept. of Homeland Security R&D: FY 2008 (Senate)

(millions of dollars budget authority)



Total FY 2008 R&D:
$1.1 billion (Senate)

Source: AAAS estimates of R&D in Senate FY 2008 DHS appropriations.
JUNE '07 © 2007 AAAS

AAAS

FY 2009 R&D Budget Priorities

Priorities: ACI (double in 7 - 10 years)

Interagency Priorities:

- **Homeland Security and National Defense**
- Energy and Climate Change Technology
- Advanced Networking and Information Technology
- National Nanotechnology Initiative
- Understanding Complex Biological Systems
- Environment
- Next Generation Air Transportation Systems

See www.ostp.gov for memorandum

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FY 2009 Homeland Security R&D Priorities

(Interagency Efforts)

Emphasis should be placed on agency research efforts in:

1) ***Defense against the threat of a domestic nuclear event***
2) ***Biometrics***

Agencies should continue R&d efforts supporting development of:

- capabilities to counter the domestic threat from improvised explosive devices
- decision tools for coordination across domains and applicable to various hazards
- sampling/decontamination tools for remediation of chem/bio/rad/nuclear incidents
- integrated predictive modeling capabilities for potential hazards
- detection systems to counter threat of biological weapons and infectious diseases
- methods to address the natural or intentional introduction of agricultural threats

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See www.ostp.gov for memorandum

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