



FEDERAL LABORATORY CONSORTIUM
FLC
FOR TECHNOLOGY TRANSFER

*The Only Government-wide
Forum for Technology
Transfer*

FLC Washington DC Office

Gary K. Jones
FLC Washington DC Rep

FLC Northeast Regional Meeting
Newport, Rhode Island

“View From DC”

March 18, 2009



Overview

- **New Administration -- S&T**
 - Technology & Innovation Plan

- **New Congress -- S&T**
 - House S&T Committee Agenda

- **R&D Funding**
 - FY 2009; Stimulus; FY 2010

- **Miscellaneous - DC Office**





New Administration's Technology and Innovation Plan



Obama's Technology & Innovation Plan

(Pre-Election -- Highlights Summary)

- **Restoring integrity to U.S. science policy** to ensure that decisions that can be informed by science are made on the basis of the strongest possible evidence.
- **Doubling over a 10 year period the federal investment in basic research** by key science agencies, with a special emphasis on supporting young researchers at the beginning of their careers, and backing high-risk, high-return research.
- **Making a national commitment to science education and training** by recruiting some of America's best minds to teach K-12 math and science and by tripling the number of the National Science Foundation's Graduate Research Fellowships.
- **Encouraging American innovation to flourish** by making the R&D tax credit permanent, streamlining our patent system, eliminating the capital gains tax on start-ups and small businesses, and promoting the deployment of next-generation broadband networks.
- **Addressing the "grand challenges" of the 21st century** by accelerating the transition to a low-carbon, oil-free economy, enabling all Americans to live longer and healthier lives, and protecting our country from emerging threats to national security.



111th Congress: Science and Technology Agenda



House Science and Technology Committee

(Legislative Agenda for 111th)

- **Maintaining our competitiveness** - e.g., by fully funding the America COMPETES Act; reauthorizing the National Nanotechnology Initiative; restructuring national information technology R&D; addressing standards and evaluation techniques in biologic pharmaceuticals; and developing standards for health information technology (health IT) systems; etc...
... to “work to develop updated policies for encouraging Federally-supported research at labs and universities to be brought into the marketplace”
- **Developing clean technologies** - e.g., by implementing the Advanced Research Projects Agency for Energy (ARPA-E) at DOE to undertake high-risk, high-reward energy technology development; and focusing oversight attention on other alternative energy programs; etc...
...to “strengthen the linkages between basic energy research, applied energy research, and technology transfer ...”
- **Creating Jobs of the Future** - e.g., by making Federal STEM education programs better coordinated and more effective; promoting diversity in the STEM workforce; and directing investments in technologies to create “green jobs” that boost economic growth; etc.



House Science and Technology Committee

(Legislative Agenda for 111th, Continued)

- **Protecting our natural resources** – e.g., by addressing the need for technologies to monitor compliance with greenhouse gas emission limits; directing more effective coordination of Federal research on water supply, quality, and conservation; and conducting a review of weather and ocean research at NOAA; etc.
- **Exploring space** - e.g., by working on a multi-year authorization for NASA that balances its missions and other research and student support programs; exploring the expansion of international space collaboration; and addressing the challenges facing the commercial space industry; etc.
- **Building new types of infrastructure** - e.g., by focusing surface transportation R&D on intelligent transportation systems, more advanced materials and technologies to increase energy efficiency and reduce congestion; and ensuring adequate progress on the NextGen air traffic control program; etc..
- **Protecting people from natural and man-made threats** - e.g., by refocusing Federal disaster mitigation research related to fire, wind and earthquakes; ensuring that DHS aligns its research priorities with the most critical threats and needs; and focusing research on technologies to improve border security; etc..



R&D Funding: Stimulus – FY 2009 Budget – FY 2010 Budget



Federal Budget Activities

(S&T Funding Implications)

American Recovery and Reinvestment Bill of 2009 (Stimulus)

- Total \$787 billion
- Passed, signed into law (2/09)

Omnibus Appropriations Bill for FY 2009

- Total \$410 billion
- Passed, signed into law (3/09)

FY 2010 Budget Rollout

- Total \$3.55 Trillion
- Under debate



American Recovery & Reinvestment Bill FY 2009

(Signed into Law -- Feb. 17, 2009)

American Recovery and Reinvestment Bill of 2009 **(Total \$787 billion)**

Targeted Funding Areas:

- **Clean, Efficient, American Energy**
- **Transforming our Economy with Science and Technology**
- Modernizing Roads, Bridges, Transit and Waterways
- **Education for the 21st Century**
- Tax Cuts to Make Work Pay and Create Jobs
- Lowering Healthcare Costs
- Helping Workers Hurt by the Economy
- Saving Public Sector Jobs and Protect Vital Services

<http://appropriations.house.gov/pdf/PressSummary01-15-09.pdf>



American Recovery & Reinvestment Bill FY 2009

(Continued)

Selected S&T Funding Highlights (per Agency):

DOE	\$ 38.7 B total	\$16.8B (energy efficiency and renewables) \$ 1.6B (Office of Science) \$ 400M (ARPA-E)
DOD	\$7.4 B total	\$ 75M Each (Army, Navy, Air Force, Defense-Wide) (energy efficiency RDT&E)
NASA	\$ 1 B total	(\$ 400M Science; \$ 400M Exploration; \$150M Aeronautics)
HHS	\$ 10 B total	(\$7.4B general scientific research, various I/Cs)
NIST	\$ 580 M total	(science research; construction)
NOAA	\$830 M total	(research, construction, repair)

<http://www.aaas.org/spp/rd/stim09c.htm>

<http://www.aip.org/fyi/2009/016.html>



Omnibus Appropriations Bill for FY 2009

(Signed into Law -- March 10, 2009)

FY 2009 Omnibus Appropriations Bill (Total \$410 billion)

Defense, Homeland Security, Military Construction already funded

Funding Highlights:

DOE Office of Science	18.8 percent increase (\$ 754.9 M) over FY08
NSF	5.9 percent increase (\$ 362.9 M) over FY08
DOC NIST	8.4 percent increase (\$ 63.2 M) over FY08
NASA	2.2 percent increase (\$ 380.5) over FY08
US Geological Survey	3.7 percent increase (\$ 37.3 M) over FY08

<http://www.aip.org/fyi> (multiple)



Federal Budget for FY 2010

(Overview Introduced February 26, 2009)

FY 2010 Federal Budget (Total \$3.55 trillion)

	2010 Req	+	ARRA
Dept. of Agriculture	\$ 26.0 B		\$ 6.9 B
Dept. of Commerce	\$ 13.8 B		\$ 7.9 B
Dept. of Defense	\$ 663.7 B		\$ 7.4 B
Dept. of Energy	\$ 26.3 B		\$ 38.7 B
Dept. of Health & Human Service	\$ 76.8 B		\$ 22.4 B
Dept. of Homeland Security	\$ 42.7 B		\$ 2.8 B
Dept. of the Interior	\$ 12.0 B		\$ 3.0 B
Dept. of Transportation	\$ 72.5 B		\$ 70.6 B
Environmental Protection Agency	\$ 10.5 B		\$ 7.2 B
NASA	\$ 18.7 B		\$ 1.0 B

<http://www.whitehouse.gov/omb/budget/>

<http://www.aip.org/fyi/2009/025.html>



Outstanding Legislative Issues

(With Potential Implications for Tech Transfer Community)

■ Technology Transfer Hearings

- House S&T Committee, announced July 2007
- Status: TBD (see slide on HS&TC agenda ...)

■ Patent Reform

- Reintroduced in House & Senate, 3/3/09 (S. 515; HR. 1260)
- Sticking point (Still): Damages apportionment

■ SBIR/STTR Reauthorization

- CR through March 20 (SBIR); STTR runs through FY 2009
- NIH Stimulus (> \$8 billion) exempted from SBIR



Miscellaneous DC Office Activities



Ocean Tomo Conference & Live IP Auction

(Chicago, October)

Federal Lab – NASA panel

Gary Jones
 Nona Cheeks
 Bryan Geurtz

IP Auction

> 100 “lots” auctioned
 >\$12 million total sales
 \$1.65 million highest bid



NASA: auctioning exclusive license versus patent ownership

Lot 56: Hilbert Huang Transform and applications (10 patents)	(\$50,000)
Lot 57: GPS-based systems applications (6 patents)	(No bid ...)
Lot 58: Capacitor sensor technology (7 patents)	(No bid ...)



Ocean Tomo – NASA Lots

(Bryan Geurts, NASA Goddard Chief Patent Attorney)

- No ownership interest on the auction block; successful bidders receive a license to the technologies.
- Federal Register Notice of NASA’s intent to exclusively license these technologies to Ocean Tomo was published in January 2008.
- The exclusive license transferred from Ocean Tomo to bidder in a novation.
- Some terms of the license agreement are changed in the novation; for example, a more realistic date for practical application is negotiated.
- All criteria set forth in **15 USC §209** and **37 CFR §404** are met both in the Ocean Tomo license agreement and the novation with a successful bidder. More specifically, terms call for:
 - Submittal of a marketing plan
 - Periodic reporting on efforts to commercialize
 - Preference for United States manufacture
 - “Practical application” and govt “march-in” rights



Copenmind Global Tech Transfer Conference

(Copenhagen, Denmark)

FLC Promotion Space

Gary Jones

Scott Deiter

Tom Brown

FLC Presentation

Promoted the FLC, members,
How to find lab partners,
Mechanisms, Benefits, etc.

Conference Summary

1,500 attendees - 50 countries

Some challenges to first time event



2008: Clean Tech; 2009: Energy; 2010: Health



Promoting Federal T2 & FLC Members

(Selected Industry Outreach From DC Office)

CopenMind Tech Transfer conference (Copenhagen)

- Clean Tech focus (international)

Ocean Tomo Conference/Auction (Chicago)

- All sectors (panel focus on NASA technology)

DOD – Mentor-Protégé Conference (San Francisco)

- Defense focus (large/small firms)

BIO Annual Meeting (Atlanta)

- Pharma / life sciences focus (large/small firms)

RESNA Annual Meeting (New Orleans)

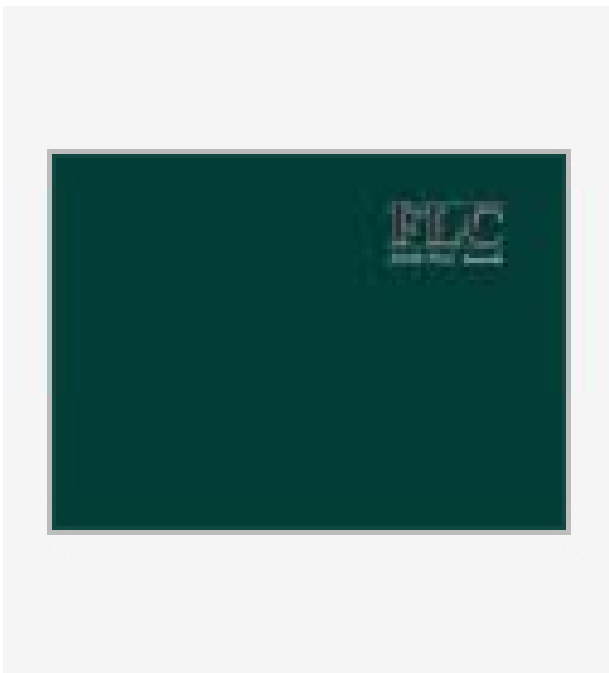
- Assistive (rehab) technology focus (mostly small firms)



Technology Transfer Accomplishments

(Congressional Visits)

Excellence in Technology Transfer Awards, 2008



Federal Technology Transfer Success Stories, 2008



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Congressional Visits, 2008

(Senate)

Mid West

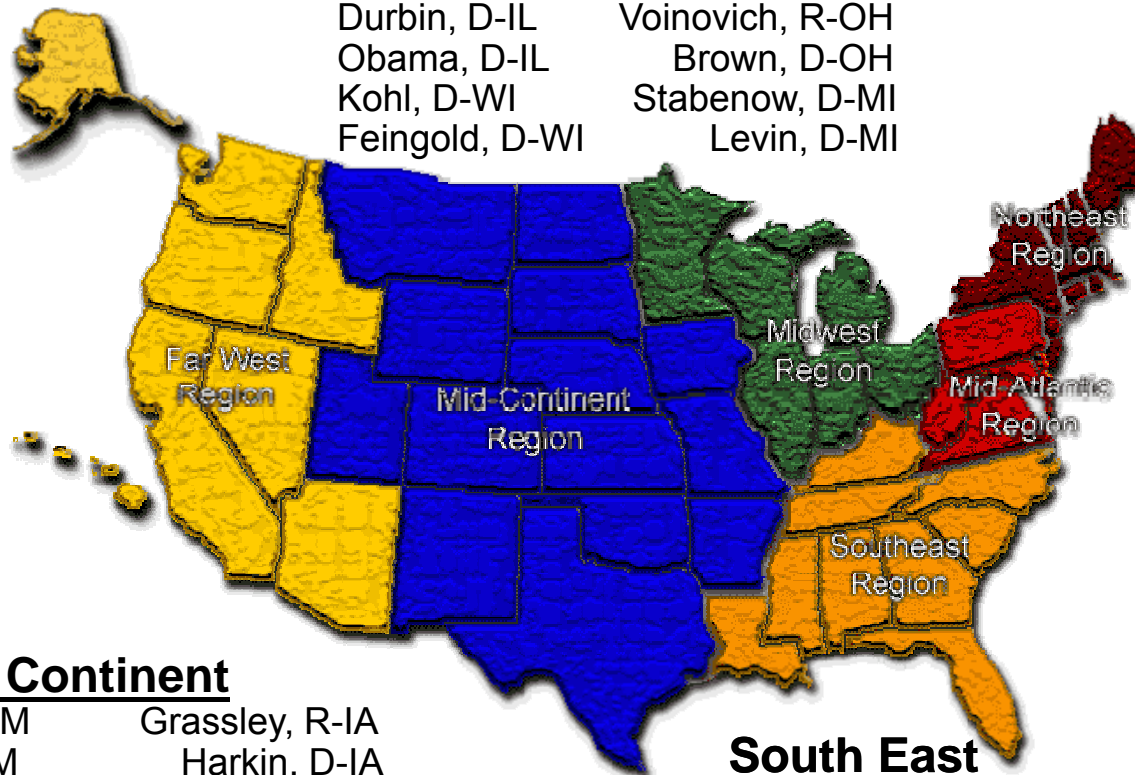
Durbin, D-IL	Voinovich, R-OH
Obama, D-IL	Brown, D-OH
Kohl, D-WI	Stabenow, D-MI
Feingold, D-WI	Levin, D-MI

North East

Snowe, R-ME
 Collins, R-ME
 Lautenberg, D-NJ
 Menendez, D-NJ
 Whitehouse, D-RI
 Reed, D-RI

Far West

Boxer, D-CA
 Feinstein, D-CA
 Cantwell, D-WA
 Murray, D-WA



Mid Continent

Bingaman, D-NM	Grassley, R-IA
Domenici, R-NM	Harkin, D-IA
Crapo, R-ID	Allard, R-CO
Craig, R-ID	Salazar, D-CO
Hutchison, R-TX	
Cornyn, R-TX	

South East

Alexander, R-TN	Martinez, R-FL
Corker, R-TN	Nelson, D-FL
Chambliss, R-GA	Cochran, R-MS
Isakson, R-GA	Wicker, R-MS
Sessions, R-AL	Shelby, R-AL

Mid Atlantic

Casey, D-Pa
 Specter, R-PA
 Byrd, D-WV
 Rockefeller, D-WV
 Mikulski, D-MD
 Cardin, D-MD



Congressional Visits, 2008

(House)

Mid West

Johnson, R-IL-15th LaHood, R-IL-18th
 Chabot, R-OH-1st Baldwin, D-WI-2nd
 Biggert, R-IL-13th Levin, D-MI-12th

North East

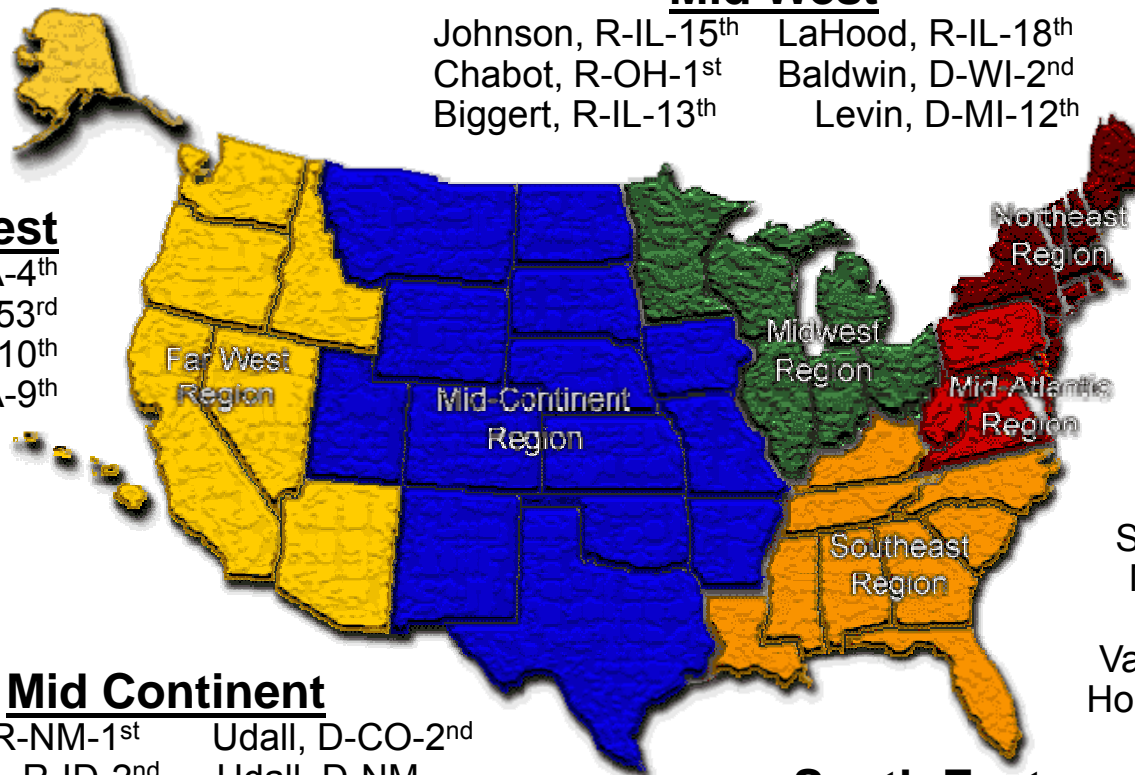
Michaud, D-ME-2nd
 LoBiondo, R-NJ-2nd
 Kennedy, D-RI-1st

Mid Atlantic

Hoyer, D-MD-5th
 Schwartz, D-PA-13th
 Mollohan, D-WV-1st
 Bartlett, R-MD-6th
 Van Hollen, D-MD-8th
 Holmes-Norton, D-DC

South East

Lewis, D-GA-5th Miller, R-FL-1st
 Feeney, R-FL-24th Cramer, D-AL-5th
 Wamp, R-TN-3rd Thompson, D-MS-2nd
 Boyd, D-FL-2nd



Far West

Hastings, D-WA-4th
 Davis, D-CA-53rd
 Tauscher, D-CA-10th
 Lee, D-CA-9th

Mid Centroid

Wilson, R-NM-1st Udall, D-CO-2nd
 Simpson, R-ID-2nd Udall, D-NM-3rd
 Latham, R-IA-4th
 Neugenbauer, R-TX-13th

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Congressional Visits, 2008 (Summary)

2008:

Engaged: 44 Senate offices
31 House offices

Message: Raising visibility of FLC/T²
Highlighting T² in State/District

2009: Expand focus on relevant committees and others
(e.g., OSTP – NSTC, PCAST, etc.)



Federal Labs Support U.S. Innovation

(FLC Supports Federal Labs -- Federal Tech Transfer)

BusinessWeek

By Pete Engardio
BusinessWeek
September 11, 2008
In Technology Section

Los Alamos and Sandia: R&D Treasures

How the famous weapons labs, Los Alamos and Sandia, are aiding corporations and spinning off startups

“These labs are national treasures” (Thomas Lange, P&G)

“Public-private collaborations such as P&G's ... are just what Congress had in mind two decades ago when it began pushing the nation's hundreds of national labs to transfer more of their knowhow to U.S. companies.”



By Fred Block and Matthew Keller
July 09, 2008

Where Do Innovations Come From? Transformations in the U.S. National Innovation System, 1970-2006

“In the last 20 years, federal labs have become the dominant organizational locus for winning R&D 100 awards [typically in collaboration with firms, universities or both].”



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