



Congressional Visits Day: Past Experiences and Plans for this Year

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Imagine Your MA Team at 2014 Congressional Visits Day



This is your chance to do a VERY important job for your future and the future of the Nation on April 7-8, 2014.

Through Material Advantage, undergraduate and graduate students and professors will be joining other interested MSE professionals on Capitol Hill.

Material Advantage Partners play a unique role in CVD



What's special about MA student participation in this Congressional Visits Day?

We bring youthful enthusiasm and the face of the future innovators to visit with our elected officials.

Most of the other 300 people that will attend in late March with the SET-CVD are professionals, i.e., older and veterans of several visits.

Coordination of the event is by staff members of TMS, ACerS, ASM International, and AIST, the partnership that joins forces every year to host MS&T.

ACerS: Tricia Freshour, tfreshour@ceramics.org (2014 Lead Organizer)

AIST: Chris McKelvey, cmckelvey@aist.org

TMS: Bryn Simpson, bsimpson@tms.org

ASM International: Nicole Hale, students@asminternational.org

One Main Objective: Face to Face Meeting with Your Senators or Representative



This is your chance to join with your fellow Materials Science and Engineering peers to enlighten your elected officials or their staff about the importance of their support for funding of education and research in your field.

You are not lobbying. You are advocating

You are putting a face onto the generic “science and engineering funding.”

The general message isn't just materials science and engineering. The message you want to send is that MSE is part of the broader science and engineering funding picture. When your representative in DC supports things like the America COMPETES Act, it impacts you.

You **are not** asking for anything specific for your school. You are not asking for anything directly related to your major.

You **are** providing stories about how federal support impacts you. Have you been funded on an NSF project? Did you do an REU project? Do you use microscopes that were purchased as part of an equipment grant? Did you do an internship at NASA?

Let your representative know that you appreciate federal support at your school.

Before you arrive in DC – Plan your visit

You need to make appointments.

Email / website form / call your Representatives and Senators.
House.gov and Senate.gov

Plan on making appointments this week.

Target April 8. If you get told April 7th is the only time possible, go ahead and do it.
And plan on possible (probable) changes.

Always leave time between appointments. So your first one will set the other times. And if two co-book, think about splitting your team.

Reality check: You will most likely meet with a staffer---and they probably will be just a little older than you. This is not bad, since they are the ones that directly advise your Senator or Representative. Your Senator or Representative may have to cut short a visit to go to the floor to vote or be in committee meetings---their most important job.

Updates from groups

Note: Before April 7, we need a list of your tentative schedule of visits.

Megan's Slides: Appointment Scheduling

- Plan for 15-30 min per appointment
- Leave time between appointments:
 - Intra-chamber (between Senate offices or House offices) = 15-30 min
 - Inter-chamber (between Senate and House offices) = 45 min
- Making an appointment: call the front desk, ask for “the scheduler”
 - Scheduler will pass request to appropriate staffer, who will then contact you
 - Follow up with an email – staffers are busy, so don't be shy
- Meetings will be with staffers or groups of staffers:
 - Staffers are generally young and come from a range of different backgrounds – and they all deserve your respect
 - Office hierarchy: Leg. Director (older), Leg. Asst. (old), Leg. Aide (younger), Leg. Correspondent (youngest)
 - If you're lucky, the member may drop by!

Megan's Slides: Appointment Expectations

- 1) Exchange business cards
 - If you don't have a business card: make sure you get theirs, and consider making one for yourself
- 2) Ask about the staffer(s)'s background
- 3) Give your background – especially if you are a constituent
- 4) Points – why are you here?
 - Do your homework: what relevant bills are on the floor? What committees is the member on? What do they care about right now?
- 5) Asks – what are you hoping to get out of the visit?
- 6) Offers – how can you help their office?
(resources, expertise, etc.)

Megan's Slides: Post-Appointment Follow-Up

- Write an email thanking the staffer for the meeting:
 - Concisely reiterate your points/asks/offers
 - If applicable, include attachments and/or linked resources

Before you arrive in DC – Do some homework

Why are we visiting and what are the issues?

Know your officials: <http://www.house.gov> <http://www.senate.gov>

Learn about S&T advocacy groups:

<http://www.usinnovation.org/>

See what your reps have heard about:

Rising above the gathering storm

http://www.nap.edu/catalog.php?record_id=11463

And the 5 year later update

http://www.nap.edu/catalog.php?record_id=12999

America COMPETES Act

<http://www.whitehouse.gov/blog/2011/01/06/america-competes-act-keeps-america-leadership-target>

http://en.wikipedia.org/wiki/America_COMPETES_Act

Materials Genome Initiative:

<http://www.whitehouse.gov/blog/2011/06/24/materials-genome-initiative-renaissance-american-manufacturing>

NEW! This just in from AAAS...

There are "competing" COMPETES acts. Read all about it at this link:

<http://www.aaas.org/news/house-republicans-democrats-introduce-separate-competes-bills>

Schedule of events

Monday, April 7 - Opening Reception, 4 – 7 p.m.

Where:

Top of the Hill Banquet and Conference Center
Minuteman Ballroom B
5th Floor, ROA's Minuteman Memorial Building
One Constitution Avenue, N.E.
Washington, DC 20002

Schedule:

4:00 p.m.: Arrival
4:05 - 4:15: Welcome
4:15 – 5: Kei Koizumi (Federal Budget Update)
5 – 5:45: Deborah Koolbeck (Effective Communication with Hill Staff)
5:45 – 6: Break
6 – 6:30: Megan Brewster ("life in an office on the hill" and any updates on science-related policy currently being discussed in Congress)
6:30 - 7: Role play to prepare for visits the next day

Location:

- Located directly adjacent to the U.S. Capitol at the corner of Constitution Ave NE and First Street
- Metro Stations located both 2 blocks south and north of the venue at Capitol South (Blue and Orange Lines) and Union Station (Red Line).

Schedule of events

Tuesday, April 8 – Congressional Visits on Capitol Hill, All Day

Optional Event after visits

Share your CVD experiences at this special dinner, hosted by the Washington DC Chapter of ASM

Where:

The Science Club

1136 19th Street

N.W. Washington, DC 20009

<http://scienceclubdc.com>

Metro stop: Farragut North (Red Line) or Farragut West (Blue Line)

Time:

6:30 p.m.

Cost:

Students = \$10

Non-students = \$20

RSVP: abotelho@jhu.edu

Supplemental Materials to Help Sustain Your Message

Materials Science, Engineering and Manufacturing

Vital to a Secure and Prosperous Nation in the 21st Century

New materials spark successful new industries and create secure jobs throughout our economy.

Like the Stone Age, Bronze Age and Iron Age, modern economies are defined by the materials of the era.

What materials innovations will underpin the new 21st century economies?

How can the United States maintain a leading role in materials science, engineering and manufacturing?

Global competition is fierce, but materials research and development is a key to United States economic leadership in the 21st Century.

Our international competitors all aggressively invest in the education of future materials science and engineering professionals and in the manufacturing industries that will employ them.

Strong federal investment in physical science and engineering education and research is vital for the U.S. The mandates enacted in the America COMPETES Act must be backed by IMMEDIATE appropriations.

Future generations of our citizens and their livelihood depend on your support for the next Materials World!



Modern wind turbines and solar arrays use new materials, making renewable energy sources a REAL alternative



Investment in Materials Science has resulted in the advances embodied in energy efficient, competitive American hybrid automobiles.



Materials Scientists developed the light weight Body Armor that protects the U.S. Soldiers who protect us.

Rising Above the Gathering Storm, Revisited: Rapidly Approaching Category 5
<http://www.nap.edu/catalog/11200.html>

RISING ABOVE THE GATHERING STORM, REVISITED

Rapidly Approaching Category 5

By Members of the 2005 "Rising Above the Gathering Storm" Committee

Prepared for the Presidents of the
National Academy of Sciences
National Academy of Engineering
Institute of Medicine

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THE NATIONAL ACADEMIES PRESS
Washington, D.C.
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Supplemental Information for You.

ASTRA Provides Critical Information on Your State: More Ammo

Iowa R&D 2008

Meeting the Global Challenge for Innovation



America's innovation future requires more federal investment in basic scientific research. Overall scientific research and development (R&D) promotes economic development, job growth, national security, competitiveness and global leadership. America's innovation future requires more federal investment in basic scientific research. U.S. leadership continues to narrow across a broad range of indicators when compared to the rest of the world.

Basic or "frontier" research is primarily funded by the federal government for complex economic reasons. There is little or no incentive for the private sector to invest in frontier research because it is typified by high risk and low immediate reward. Yet, basic research benefits us all over a longer time period. It results in discovery, innovation and other end products and services — all derived from taxpayer investments in science. An estimated 73% of all patents granted in the U.S. are attributable to scientific research initially funded by taxpayers through the federal government, especially university research operations.

Federal investment in Basic Science Promotes Innovation: Over the past 50 years, investment in R&D has produced more than half of the nation's economic growth. Prominent economists agree that no other investment has generated greater long-term return to the economy than scientific R&D.

Iowa contractors earned \$195 million in federal R&D contract expenditures in FY 2007, with approximately 41 prime contractors involved. This amount does not include federal grants and bars for R&D activities. Information and charts on this page demonstrate the importance of federal investment in R&D to Iowa's economy, and its future in the global marketplace.

Current trends also show an overall reduction of federal funding for R&D investments in the physical, computational, mathematical and engineering sciences. To maintain U.S. competitiveness, innovation and growth, federal funding for basic scientific research in these disciplines must remain strong.

Top 5 Known Iowa Congressional Districts Where Federal R&D Contracts Performed FY 2007*

Iowa 2 (James A. Leach / David Loebsack)	\$140,050,780
Iowa 4 (Tom Latham)	\$44,435,415
Iowa 1 (Jim Nussle / Bruce Braley)	\$2,342,205
Iowa 3 (Leonard L. Boswell)	\$1,802,306
Iowa 5 (Steven King)	\$73,530

Key Reports and On-line Resources:

- ASTRA's *Setting the Rising Tide* is a 14-Point Policy Framework for supporting America's scientific and technology lead. A comprehensive set of analytical tools and reports on innovation and R&D policy are also found at www.aboutastra.org and www.aboutastra.org for the ASTRA Web Sites.
- The Science/Engineering/Technology Working Group (SETWG) sponsors the annual Congressional Video Day Program. See www.setwg.org
- The American Chemical Society's Science Policy resource site is www.acs.org
- Science & Engineering Indicators 2008, published by the National Science Board, provides a broad base of quantitative information on the U.S. and international science and engineering enterprise. See www.nsf.gov/statistics/indicators/

U.S. Leadership Narrows Across Key Indicators
 U.S. Share of Global Output



Federal Funding for Physical, Mathematical & Computational Sciences and Engineering as a Percentage of US GDP 1975-2007



Top 10 Recipients of Federal R&D Contracts Performed in Iowa FY 2007*

ROCKWELL COLLINS, INC.	\$71,677,243
ROCKWELL INTERNATIONAL CORP.	\$60,457,814
IOWA STATE UNIVERSITY	\$38,137,360
UNIVERSITY OF IOWA, (INC)	\$7,251,522
UNIVERSITY OF IOWA	\$4,287,839
COBHAM PLC	\$2,294,439
EDGE TECHNOLOGIES	\$2,021,373
IOWA THIN FILM TECHNOLOGIES	\$1,876,341
DELAVAN INC	\$1,699,358
ADVANCED ANALYTICAL TECHNOLOGIES	\$1,337,600

Top 5 Federally-Funded R&D Products or Services Sold in Iowa FY 2007*

Services — Basic Research (R&D)	\$60,416,746
Defense Electronics and Communication Equipment — Applied Research and Exploratory Development (R&D)	\$37,818,269
Education — Basic Research (R&D)	\$34,098,476
Defense Electronics and Communication Equipment — Operational Systems Development (R&D)	\$17,538,513
Services — Engineering Development (R&D)	\$8,362,000

*Source: The source of the data includes a variety of federal government agencies, including the U.S. Office of Management & Budget and the National Science Foundation.

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How Iowa Ranks 2008

Rank	General Demographic & Economic Indicators	Iowa	Total U.S.
29	Population as of July 1, 2007	2,988,048	302,045,000
30	Civilian labor force, 2005 (thousands)	1,860	152,717
31	Personal income per capita, 2005 (\$)	\$31,795	\$34,495
32	High Tech Employment, 2005	42,153	5,627,326
40	High Tech Wages, 2005 (\$)	\$54,533	\$75,501
33	High Tech Establishments, 2005	2,651	332,876
28	Gross Domestic Product, 2006 (\$ billions)	\$123,970	\$13,149
32	R&D per capita, 2004 (\$)	\$950	\$980
28	High Tech Jobs Gained/Lost in State 2000 - 2005	— 6,140	— 955,703
15	Unemployment Rate, 2006 (percent)	3.7%	4.6%

Rank	Academic Indicators & Degree Production	Iowa	Total U.S.
24	S&E Doctorates Awarded, 2005	395	27,974
26	S&E and Health Graduate Students, 2005	5,279	527,767
26	Federal R&D Expenditures at Universities & Colleges, all sources, FY 2006 (\$ thousands)	\$322,822	\$30,033,156
21	State & Local Govt. R&D Expenditures at Universities & Colleges, FY 2006 (\$ thousands)	\$50,318	\$3,216,240
20	Industry R&D Expenditures at Universities & Colleges, FY 2006 (\$ thousands)	\$29,949	\$2,427,627
19	Institutional R&D Expenditures at Universities & Colleges, FY 2006 (\$ thousands)	\$154,381	\$9,262,058
28	Expenditures per pupil for elementary and secondary public schools (\$)	\$7,962	\$8,701

Rank	Workforce Indicators	Iowa	Total U.S.
35	Industrial Diversity 2004 (Herfindahl Index, indicating degree of diversity within State's traded sector)	.265	—
37	High Tech Workers per 1,000 Private Sector Workers, 2005 (Employment Concentration)	32.95	30.96
3	High Tech Employment Change, 2004-2005 (percent)	2.62%	1.58%
34	High Tech Payroll, 2005 (\$ million)	\$2,190	\$434,889

Rank	R&D Spending by Source, R&D Indicators, Awards, & Patents	Iowa	Total U.S.
32	Private R&D per Worker 2003 (\$)	\$517	—
44	SBIR Grants Awarded, 2000-2005	83	33,289
10	Gross License Income per Worker 2003 (\$)	\$9.33	—
31	Industry R&D, 2004 (\$ millions)	\$963	\$201,131
26	Academic R&D, 2005 (\$ millions)	\$548	\$45,725
36	Broadband Access (Residential high-speed lines per capita within State)	0.10	—
20	Patents issued to state residents per million workers, 2005	560	89,795
38	Businesses Created from University R&D (# of spin-outs per \$1 billion spent) 2001-2003	5.99	—

Rank	Venture Capital & Entrepreneurial Indicators	Iowa	Total U.S.
45	Percent Change in Venture Capital Investments, 2000 - 2005 (percent)	— 100%	— 76%
46	Venture Capital Investments in 2006 (millions of 2006 \$)	\$0.0	\$25,505
36	Venture Capital Numeric Change 2005 - 2006 (millions of 2006 \$)	— \$12.1	\$2,790
48	Economic Dynamism - 2007 State New Economy Index (measures 6 aspects of dynamism)	5.59	10.0
38	Overall State New Economy Index Score 2007	\$1.8	62.1

Source: U.S. Department of Commerce, Bureau of Economic Analysis; U.S. Department of Commerce, Census Bureau; National Science Foundation/Science Resource Study Division; U.S. Bureau of Labor Statistics; National Venture Capital Association; www.venturesource.com; U.S. Patent & Trademark Office; U.S. Office of Management & Budget; U.S. Small Business Administration; Association of University Technology Managers, Inc.; ASTM Learning Survey; Fiscal Year 2001-2003; Spring Matrix; Kaufman Foundation; www.kaufman.org; Information Technology & Innovation Foundation; www.itif.org.

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<http://www.aboutastra.org/toolkit/state.asp>

ASTRA is Our Strong Partner in Washington



10 Points for America's Future: A Petition

*Be it resolved that President-Elect Barack Obama
and his Administration should:*

INCREASE THE FEDERAL INVESTMENT IN SCIENCE AND ENGINEERING R&D

1. INCREASE FEDERAL FUNDING FOR PHYSICAL SCIENCES, ENGINEERING, AND MATHEMATICAL AND COMPUTATIONAL SCIENCES BASIC RESEARCH
2. INCREASE FEDERAL FUNDING FOR APPLIED RESEARCH
3. FOCUS R&D ON LEADING EDGE OF SCIENCE AND TECHNOLOGY
4. INCREASE R&D TO SUPPORT GROWING SERVICES SECTOR
5. INCREASE FOCUS ON INTERDISCIPLINARY AND MULTI-DISCIPLINARY RESEARCH, NEW FORMS OF COLLABORATION, AND NURTURING INNOVATIVE CAPACITY IN GEOGRAPHIC REGIONS WHERE INNOVATIVE CAPACITY EXISTS BUT IS UNDER-USED

WORKFORCE & STEM EDUCATION DEVELOP A WORLD-CLASS WORKFORCE FOR THE INNOVATION ECONOMY

6. EXAMINE ADEQUACY OF U.S. SKILLS FOR INNOVATION ECONOMY AND PROMOTE IMPROVEMENTS IN STEM EDUCATION FROM KINDERGARTEN THROUGH SECONDARY, COLLEGE, GRADUATE AND CAREER STAGES OF AN INDIVIDUAL'S LIFE
7. IMPROVE STATISTICAL AND CAREER INFORMATION ABOUT THE U.S. SCIENCE, TECHNOLOGY AND ENGINEERING WORKFORCE
8. IMPROVE HIGHER EDUCATION FOR SCIENTISTS AND ENGINEERS BY FOCUSING ON GLOBAL AND CULTURAL AWARENESS, COMMUNICATIONS, BUSINESS AND MANAGEMENT SKILLS
9. STRENGTHEN EFFORTS TO ATTRACT TOP FOREIGN STUDENTS AND STEM PROFESSIONALS TO THE U.S.; REMOVE BARRIERS TO IMMIGRATION OF TALENT

CREATE A BUSINESS ENVIRONMENT TO SUPPORT INNOVATION AND COMPETITIVENESS

10. PERFORM WHITE HOUSE REVIEW OF LAWS, REGULATIONS AND POLICIES; ADDRESS INHIBITORS TO INNOVATION
11. DEVELOP MEANINGFUL ANALYSIS AND INNOVATION INDICATORS FOR THE U.S. AND ITS COMPETITORS TO HELP INFORM U.S. INNOVATION POLICIES AND STRATEGIES

THE UNDERSIGNED

PLEASE CLICK ON THE FOLLOWING LINK TO

[HTTP://WWW.USINNOVATION.ORG/PETITION/COMPETITION.ASP](http://www.usinnovation.org/petition/competition.asp)

Names to be added, affiliation (if optional). To be delivered to our next President in early 2009.



Dr. Mary L. Good
Chairman,
ASTRA, The Alliance for
Science & Technology
Research in America

Logistics

Hotels: Try and stay near the metro.

<http://www.wmata.com/>

CVD Hotel Suggestions: <http://materialadvantage.org/wp-content/uploads/2009/06/CVD-Hotel-Suggestions.pdf>

Print out your 1 page leave behinds before you come. Remember 1 page (both sides).

Dress Code:

April 7, Opening Reception: Business casual

April 8, Congressional Visits: Professional Dress

If you need to ask, talk to your advisor.

Know where you are going:

Top of the Hill Banquet and Conference Center =

http://www.top-of-the-hill.com/uploads/TopOfTheHill_Location.pdf

Map of Capitol Hill - <http://www.aoc.gov/print-friendly-map-capitol-hill>

Relax After CVD and Discuss Your Favorite Moments and Future Plans

