

FULBRIGHT ACADEMY OF SCIENCE & TECHNOLOGY

2008 ANNUAL CONFERENCE:

FULBRIGHT SCHOLARS – ENERGY & INNOVATION

FEBRUARY 14 – 17, 2008
NORTHEASTERN UNIVERSITY
BOSTON, MA



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Fulbright Academy of Science & Technology

2008 Annual Conference

Boston - February 14-17, 2008

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- Dr. Khalid R. Temsamani - National Coordinator for Materials Sciences & Professor of Electrochemistry at University Abdelmalek Essaadi, Morocco
- Mr. Mark Vlastic - Senior Fellow, Institute for International Law & Politics, Georgetown University

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About the FAST:

The Fulbright Academy of Science & Technology (FAST) was established by alumni of the Fulbright Exchange Program and others interested in science and technology innovation. Active since 2005, it has individual and institutional members worldwide.

FAST is an independent, non-profit 501-c-3 organization and is not affiliated with the Fulbright Exchange Program, national alumni groups or the agencies and commissions involved in administering Fulbright exchanges. Attending our annual conference does not make you a “Fulbright Scholar.”

FAST receives donations and memberships from individuals and institutions, such as government agencies, corporations, universities, foundations, and other non-profit organizations. FAST also manages grant-funded projects and carries out programs such as Fulbright Forums and an annual conference.

Please visit www.FulbrightAcademy.org for further information about the Academy or to watch videos featuring attendees at our first and second annual conferences.

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Our host for this year's meeting is Northeastern University.

All of our plenary meetings and panels are taking place in Northeastern's Egan Center.

Coffee breaks and meals are served outside of the Raytheon Amphitheater, with one exception – Friday lunch is across the Quad in the O'Bryant African-American Institute.

Thursday, Feb. 14

- 1:00 – 7:00 pm** **Registration – Egan Center/ Outside the Raytheon Amphitheater**
- 1:30 – 4:30 pm** **Special program on Science Diplomacy & North Africa – Room 340**
Sponsored by the Richard Lounsbery Foundation
With additional support from
Libyan Student Union
University of Denver - School of Engineering and Computer Science
US Department of State - Bureau of Oceans, Environment and Science
- 4:30 – 6:30 pm** **Opening Reception, Cash Bar & Poster Session – Room 440**
Tours of the Northeastern's Nanotechnology Research Program
Workshop on Origami with Michael LaFosse & Richard Alexander
For the list of Posters, see page 10.
- 6:30 – 9:30 pm** **Opening Banquet and Keynote Address – Raytheon Amphitheater**
Mr. David Nothmann – President of the FAST Board of Directors
Dr. Dan McCleese – Chief Scientist, NASA Jet Propulsion Laboratory
Beyond Earth to Explore Mars.

Friday, Feb. 15

- 8:00 am – 5:00 pm** **Registration**
- 8:00 am – noon** **Science & Technology Tours – meet at Egan Center (See page 11 for details)**
8:30 departure – US Volpe Transportation Research Center – transportation & energy
Facilitated by the US Department of Transportation
9:00 departure – Boston University Medical School – forensics program
Sponsored by the Nebraska Institute of Forensic Sciences
10:00 departure – National Braille Press – education & disabilities
- Noon – 1:00 pm** **Lunch & Round-table Discussions, O'Bryant African-American Institute**
- Economic Development – Dr. Atanas Kocov, University SS Cyril and Methodius University, Skopje, Macedonia
 - Environmental Valuation & Env. Policy – Dr. Michel Chaloub, Lebanese American University, Beirut, Lebanon
 - Innovation in Higher Education – Open forum
 - Legos, Origami & Other Fun Teaching Tools – Dr. Chris Rogers, Tufts University, Medford, MA
 - Nursing, Health & Medicine – Dr. Lynn Callister, Brigham Young University, Provo, UT
 - Social Science Networking Group – Open forum
 - Soil Chemistry, Bacteria & Biology – Dr. Flynn Picardal, Indiana University, Bloomington, IN
 - Undergraduate Research – Dr. Al Conklin, Wilmington College, Wilmington, OH

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Friday, Feb. 15 (continued)

- 1:15 – 1:30 pm** **Official welcome, Raytheon Amphitheater**
Mr. Eric Howard – Executive Director of FAST
- 1:30 – 3:00 pm** **Panel on Social Science & Innovation – Raytheon Amphitheater**
Discussion about the importance of social science training in innovation today – how people communicate (e.g. linguistics & behavioral science) and work (e.g. mathematics & economics)
Introduced by Dr. Ahmed Busnaina, Director of the NSF Center for High-rate Manufacturing
Dr. Joseph Aoun – Linguist & President of Northeastern University
Linguistics & Social Sciences – A university perspective
Mr. LIM Chuan Poh – Chairman of Singapore Agency for Science, Technology & Innovation
Innovating Mathematics and Science Education in Singapore
Dr. David Lightfoot – Head of US National Science Foundation’s Social Sciences Program
Linguistics & Social Sciences - the national interest
- 3:00 – 3:30 pm** **Poster Session & Coffee Break**
For the list of Posters, see page 10.
- 3:45 – 5:15 pm** **Panel on Microbiology & Energy** – introduced by Dr. Flynn Picardal, Indiana University
Discussion about sustainable sources of energy and international policy
Dr. Rita Colwell, Former Director of NSF, now at University of Maryland Center for Bioinformatics and Computational Biology
Biotechnology & Energy
Dr. Bruce Logan, Director of the Hydrogen Energy Center at Penn State
Direct and sustainable bioenergy production from biomass using microbial fuel cell technologies
Dr. Nina Fedoroff, Science & Technology Advisor to the Sec. of State Condoleezza Rice
Comments on Science Diplomacy
- 6:00 pm** **Dinner – on your own with other Fulbright scholars and friends**
Many options along Huntington Ave or in the Copley Square neighborhood, all within easy walking distance.
Or take the Orange Line (\$2) from Ruggles to Chinatown or Haymarket (Faneuil Hall).

Saturday, Feb. 16

- 9:00 am – noon** **FAST Board Meeting & International Advisory Council (by invitation) – Room 340**
- 9:20 am – noon** **Science & Technology Tours – (See page 11 for tour details) – Meet at MidTown Hotel**
9:20 departure – Boston Public Library – exhibit on regional planning & maps
Or meet us at the Library (700 Boylston Street) at 9:45 am
9:20 departure – Fenway Park – physics, statistics and anthropology of sport
Or meet us at Fenway Park (Yawkey Way) at 9:45 am
10:00 – AAAS Conference Exhibit Hall opens (free to the public) in the Hynes Center
- Noon – 1:30 pm** **Lunch & Networking – Egan Center – Raytheon Amphitheater**

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Saturday, Feb. 16 (continued)

1:30 – 2:45 pm Three Workshops / Panel discussions, Egan Center

NOTE: Only the leaders of these workshops are listed. Workshops will have significant audience participation. Our goal is to have each workshop come up with several concrete projects or ideas for follow-up activities after this conference. For example, outputs from the discussion on planning & cities will inform our preparations for our October 20-22 conference in Singapore “Fusionopolis 2058 – Creating Sustainable Urban Environments Through Innovation.” Your input is needed because most of FAST’s work is the result of input from members. Ideas do not need to relate to the topics below. Dr. Fischer and Dr. Ginsberg made it possible for FAST to work with the American Psychological Association on a one-day program for 100 invited Fulbright alumni during the APA Annual Conference (which attracts about 10,000 people). Dr. Hattar helped us get a \$100,000 grant from the Qatar Foundation to hold an seminar for 75+ people on nursing and the environment, which is in Doha on March 23-25.

(A) Panel on Urban Planning & Sustainable Cities – Raytheon Amphitheater

- o Al-Saadi, Rawaa, Sama-ECHarris, Dubai, UAE, *Urban development in the Middle East*
- o Graham, Mary, Practical Small Projects, New York, NY, *Small scale energy in Africa*
- o Helgeson, Jennifer, National Institute of Standards and Technology, Gaithersburg, MD, *NIST Metrics and Tools for Tall and Green Buildings*
- o Kufner, Juergen, London School of Economics - Cities Program, London, UK, *Negotiating Tall Buildings in London*
- o Matteo, John, Robert Silman Associates, Washington, DC, *Preservation of Old Buildings*
- o Novotny, Vladimir, Northeastern University, Boston, MA, *New Paradigm of Integrated Urban Drainage and Hydrologically and Ecologically Functioning Urban Landscape*
- o Rush, Adam, LeMessurier Consultants, Cambridge, MA, *Rapporteur for the panel*

(B) Panel on Science Policy – Room 440

- o Helgeson, Jennifer, National Institute of Standards and Technology, Gaithersburg, MD, *Climat Ethics Survey: Disentangling Public Risk Preferences from Inequality and Time*
- o Shaxson, Louise, Delta Partnership, Dorset, UK, *Environmental Policy*
- o Saelen, Hakon, CICERO Center for Climate Research, Oslo, Norway, *Climate Ethics Survey - Environmental Policy*
- o Tamsamani, Khalid, Université Abdelmalek Essaâdi - Faculté des Sciences, Tetouan, Morocco, *Moroccan policy in the field of Clean Energies*

(C) Discussion on Fulbright Futures – Room 340

- o Howard, Eric, Fulbright Academy of Science & Technology
- o Selected FAST board members & International Advisory Council Members

2:45 – 3:30 pm Coffee Break outside of Raytheon Amphitheater

3:30 – 5:15 pm Two Workshops / Panel discussions

(A) Panel on Urban Planning #2 – continued from the early afternoon (see above)

- o This will be a continuation of the program in the early afternoon. Attendance in the previous session is not required.

(B) Panel on Women in Science – Room 340

- o Briones-Ortega, Rosario, Pontificia Universidad Católica del Ecuador, Quito, Ecuador, *Panel organizer & discussant*
- o Burgos Solórzano, Gabriela, Dupont Titanium Technologies, Altamira, Tamaulipas, Mexico, *Panel discussant*
- o Hahn, Leticia, Niagara University, Niagara University, NY, *The Role of Gender Stereotypes in Math and Science*

6:00 pm Dinner – on your own with other Fulbright scholars and friends

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Sunday, Feb 17

9:30 – Noon

Closing Plenary & Annual Meeting of Members, Raytheon Amphitheater

Ms. Louise Shaxson – Vice President of FAST Board of Directors

Dr. Stanley Bull – Assoc. Director, Science & Technology, National Renewable Energy Lab
Renewable Energy

Mr. Keith Ellenbogen – Parsons School of Design

Inner Space – the Oceans: Images from the Malaysian Peninsula

Noon – 1:00 pm

Lunch

1:00 pm – 5:00 pm

On-your-own visits to Boston & Cambridge institutions

Sign-up sheets to create informal groups will be at the registration desk.

AAAS Conference Exhibit Hall is open again today in the Hynes Center (free to the public)

Posters – Friday reception & Saturday afternoon

In alphabetical order by first author's last name

Some posters may not be up both days.

- *Directed Assembly of Au particles Using Hydrophobic/Hydrophilic Self-Assembled Monolayer Templates* – Nam-Goo Cha and Ahmed A. Busnaina, Northeastern University
- *Research on Brain Cancer and Drug Delivery* – Gozde Durmus, Boston University
- *Psychology and the Internet* – Gwen Fischer, Hiram College, Hiram, OH & Pauline Ginsberg, Utica College, Utica, NY
- *Highly Organized SWCNT Networks for Electrical Devices* - Laila Jaber-Ansari, Myung Gwan Hahm, Sivasubramanian Somu, Xugang Xiong, Ahmed Busnaina, and Yung Joon Jung, Northeastern University
- *Ultrafast optical studies of molecular dynamics in water* - Nathan Kurz, University of Washington, Seattle, WA
- *Social Science Poster* - Ignacio Medina Nunez, ITESO - Jesuit University, Tlaquepaque, Jalisco, Mexico
- *Gene regulation by bone morphogenetic proteins* – Shirley Motaung, Tshwane University of Technology, Pretoria, South Africa
- *A Scanning Probe Microscopy Study on the Actuation Mechanisms of Nanotube Switches* - Peter Ryan Sivasubramanian Somu, George G. Adams, Nicol E. McGruer and Ahmed Busnaina, Northeastern University
- *Non-volatile Bistable Nanoswitch* - Sivasubramanian Somu, Peter Ryan, Taehoon Kim, Xugang Xiong, George Adams, Nick McGruer & Ahmed Busniana, Northeastern University
- *NSF Nanoscale Science and Engineering Center for High-rate Nanomanufacturing* - Sivasubramanian Somu, Northeastern University
- *Finding Renewable Energy Materials One Screensaver at a Time* – Leslie Vogt, Harvard University

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Organized Tours on Friday Morning: (All tours return to Northeastern at Noon for lunch)

- **Volpe National Transportation Research Center** – The Volpe Center is part of the US Department of Transportation, and the staff conducts research for the US government, other governments and the private sector. For example, Volpe works with the Federal Aviation Administration on systems for tracking and routing civilian and military airplanes in the US, this program is slowly being expanded internationally. For the Panama Canal, they also developed a better system for tracking ships that transit the canal. In addition to seeing some of the software products, you will also visit the engineering research labs (crash tests, etc). This tour is sponsored by the US DOT. <http://www.volpe.dot.gov/>
The tour bus will leave from Northeastern at 8:30 on Friday Morning.
- **Boston University, Biomedical Forensics Program** – In the past decade, advances in technology have revolutionized the field of Forensics, and TV shows have enhanced the popularity of this science discipline. The BU program is designed to train individuals in forensic sciences with a complementary background in biomedical disciplines related to crime scene investigations and evidence analysis. This tour is sponsored by the Nebraska Institute of Forensic Sciences (<http://www.nebraskaforensic.com/>). BU site: <http://www.bu.edu/biomedforensic/>
The tour bus will leave from Northeastern at 9:00 on Friday Morning.
- **National Braille Press** – Founded in 1927, the National Braille Press is a nonprofit braille printer and publisher offering braille books, magazines, textbooks, tests, and customized embossing services. The guiding purposes of National Braille Press are to promote the literacy of blind children through braille, and to provide access to information that empowers blind people to actively engage in work, family, and community affairs. Last year NBP pressed 15 million pages using special translation software and computer-driven equipment. <http://www.nbp.org/>
This tour will leave by foot from Northeastern at 9:45 on Friday Morning.

Programs on Saturday Morning: (return to Northeastern at Noon)

- **Boston Public Library** – BPL is one of the oldest public libraries in America. In addition to seeing its beautiful architecture, we have a guided tour of “Boston and Beyond: A Bird’s Eye View of New England.” This exhibit documents the growth of villages and cities, with maps and drawings made by ingenious mapmakers who imagined these towns as though they were soaring above them like balloonists or birds. It is a pre-eminent collection of maps, recently preserved by Save America’s Treasures, a prestigious federal initiative that rescues and conserves for future generations the essential documents and artifacts of United States’ history. This tour has been organized because of Singapore’s Agency for Science, Technology & Research – FAST and A*STAR are hosting a conference on Sustainable Cities, to be held in Singapore in October 21-22, 2008. <http://www.a-star.edu.sg> BPL website: <http://www.bpl.org/news/birdseye.htm>
This tour will leave by foot from Northeastern at 9:30 on Saturday Morning, or meet us at the BPL in Copley Square at 10:00.
- **Fenway Park** – Visit the park where the Babe pitched, The Kid hit, Yaz dazzled and Manny and Ortiz still thrill young fans today. Soak up the rich history; hear the echoes of the past. During 2007/2008 Winter Construction, your behind-the-scenes look includes the Press Box, State Street Pavilion Box, Red Sox Hall of Fame Plaques and the oldest seats in Major League History. The tours cost \$12 (payable on the day of the tour). Tours are subject to cancellation due to inclement weather. <http://boston.redsox.mlb.com/bos/ballpark/tour.jsp>
This tour will leave by foot from Northeastern at 9:30 on Saturday Morning.

Another Activity for Saturday Morning & Sunday afternoon

- **AAAS Exhibition Hall** – The American Association for the Advancement of Science is having their Annual Conference this weekend, at the Hynes Convention Center. Family Science Days and the Exhibition Hall are free and open to the public. The hall opens at 10:00 am on Saturday morning. You can also go to the hall on Sunday afternoon. Plenary and topical lectures are also open to the public. <http://www.aaasmeeting.org/>.
- *The Exhibition Hall opens at 10:00 am. Be sure to leave AAAS no later than 11:30 so that you are back at Northeastern in time for our lunch on Saturday. The Exhibition will also be open on Sunday afternoon.*

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Northeastern University graduate students and scientists from the Center for High-rate Nanomanufacturing (CHN) will be exhibiting some of their research and assisting with tours.

Tours on Thursday afternoon:

- Richard Devito, Director of the Kostas Facility
- Sivasubramanian Somu, Associate Research Scientist, CHN
- Peter Ryan, Graduate Student, CHN
- Juan Aceros, Graduate Student, CHN

Posters: (see page 10)

- Laila Jaber-Ansari
- Nao-Goo Cha
- Peter Ryan
- Sivasubramanian Somu

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Agency for Science, Technology & Research

A delegation of senior staff from A*STAR in Singapore will join us for lunch and the afternoon program on Friday.

Science and Engineering Research Council

- Prof. Chong Tow Chong, Executive Director, SERC
- Ms. Bernadette Foong, Deputy Executive Director
- Mr. David Chai, Assistant Head of the SERC
- Dr. Lim Kiang Wee, Programme Director (Research)
- Dr. Keith Carpentar, Executive Director, Institute for Chemical Engineering Sciences

Biomedical Research Council

- Dr. Andre Wan, Deputy Executive Director, BRC
- Prof. Edison Liu, Executive Director, Genome Institute of Singapore

- Prof. Nancy Jenkins, Deputy Director, Institute of Molecular & Cell Biology
- Prof. John Wong, Vice President (Research/Life Sciences) & Dean of Yong Loo Lin School of Medicine, National University of Singapore

A*STAR Communications

- Ms. Choong Ket Che, Director Corporate Communications
- Ms. Michelle Khor, Deputy Director Corporate Communications
- Ms. Janet Low, Assistant Head, Corporate Communications
- Ms. Cathy Yarbrough, Consultant, USA
- Ms. Chang Ai-Lien, Assistant News Editor, *Straits Times* (Newspaper in Singapore)

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- Universidad Metropolitana, Caracas
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Fulbright Academy of Science & Technology
2008 Annual Conference
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Thank you for coming to the Fulbright Academy's
Third Annual Conference

One of your fellow conference attendees has given us a fundraising challenge. We hope that you will participate.

This person will match every dollar that other attendees give to FAST – either through the raffle or a direct donation – up to a total of \$2,500. This challenge will help us raise a total of \$5,000, which will be used to support future programs.

If you arrive on Thursday, please buy raffle tickets – the raffle is during the opening banquet.

If you arrive on Friday or Saturday, please place any cash donations or checks in the donation jar. If you would like to make a credit card donation, tear off this page and fill in the other side.

Thank you for your support, and I hope you enjoy your stay in Boston.

Sincerely,

Mr. Eric Howard
Executive Director
1989 Fulbright grantee to West Germany
in the field of environmental management