



# Office of International Science & Engineering (OISE)

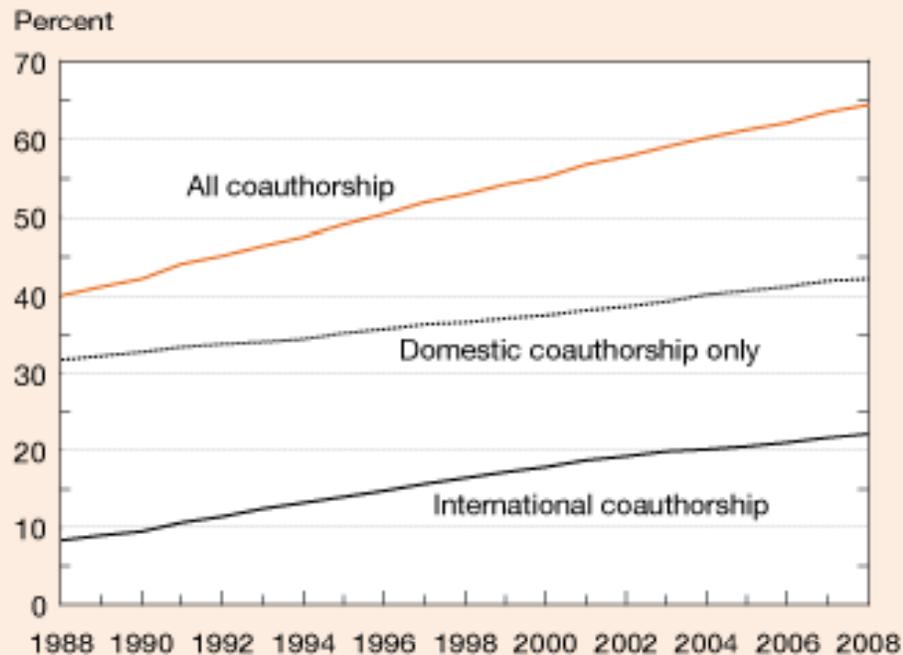
NSF Regional Grants Conference  
October 25-26, 2010





**International activities are  
supported across NSF**

Figure 5-21  
Share of world S&E articles coauthored  
domestically and internationally: 1988–2008



NOTES: Article counts from set of journals covered by Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles classified by year they entered database, rather than year of publication, and assigned to country/economy on basis of institutional address(es) listed on article. Articles on whole-count basis, i.e., each collaborating institution or country credited one count. Internationally coauthored articles may also have multiple domestic coauthors.

SOURCES: Thomson Reuters, SCI and SSCI, [http://thomsonreuters.com/products\\_services/science/](http://thomsonreuters.com/products_services/science/); The Patent Board™; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

*Science and Engineering Indicators 2010*

## Why International Collaboration?

Over 22% of the world's scientific and technical articles in 2008 had authors from two or more countries, compared with 8% in 1988



**“International cooperation  
in science is not a luxury;  
it is a necessity – and the  
foundation for the future.”**

*Arden L. Bement, Jr.  
NSF Director 2004-2010*



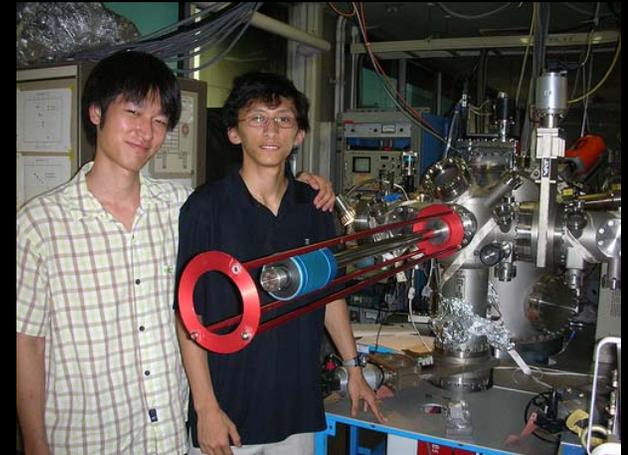
## **OISE & International Activities at NSF**

- **OISE supports international activities Foundation wide:**
  - **Co-fund new proposals submitted to NSF disciplinary programs**
  - **Co-fund supplements to existing NSF grants**
  - **New proposals to OISE**
  
- **Key elements for OISE co-funding:**
  - **Intellectual collaboration**
  - **Leverage expertise and resources**
  - **U.S. junior researchers and students**



# OISE Objectives

- Develop a globally engaged U.S. workforce
- Advance U.S. research excellence through new collaborations
- Scale up partnerships & international networks



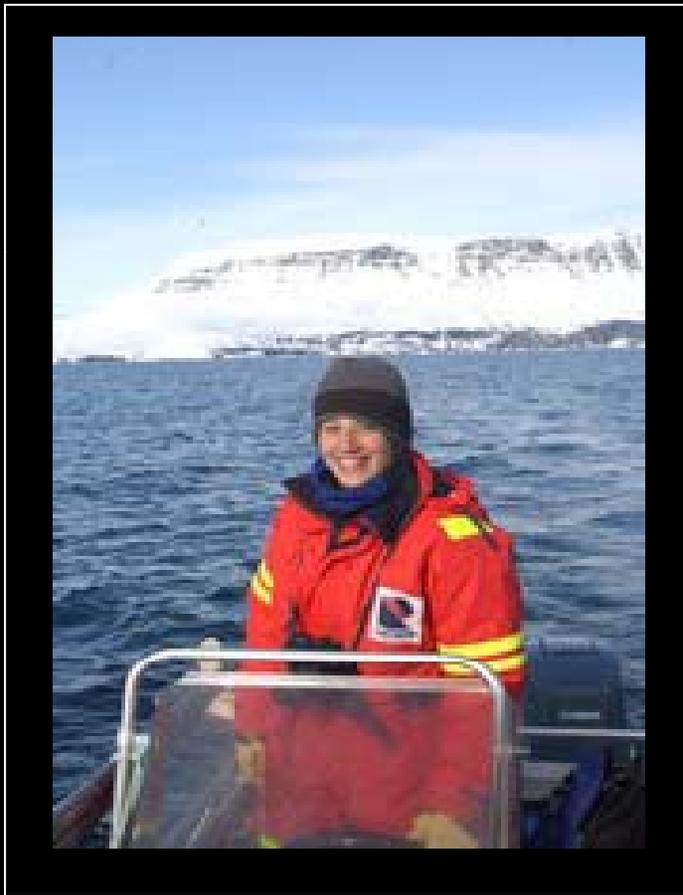
# Develop a Globally-Engaged Science & Engineering Workforce



OISE Goal - To give US students and junior researchers:

- International collaborative research training
- Research networks on which to build future collaborations

# OISE Programs Focusing on Different Career Stages



- **International Research Experiences for Students (IRES)**
- **East Asia & Pacific Summer Institutes (EAPSI)**
- **Doctoral Dissertation Enhancement Projects (DDEP)**
- **International Research Fellowship Program (IRFP)**
- **Advanced Studies Institutes (ASI)**

# International Research Experiences for Students

- Faculty organize an international research experience for US undergraduate/graduate students
- Scale of Funding: \$50,000 per year for 3 years
- Point of Contact: Daniel (Joe) Mook (dmook@nsf.gov)



# East Asia and Pacific Summer Institutes

- Grad student (Ph.D. or M.S.) submits proposal to NSF
- Students can work with hosts in Australia, China, Japan, South Korea, New Zealand, Singapore, or Taiwan
- Scale of Funding: \$5,000 stipend, travel expenses
- Point of Contact: Jong-on Hahm (jhahm@nsf.gov)

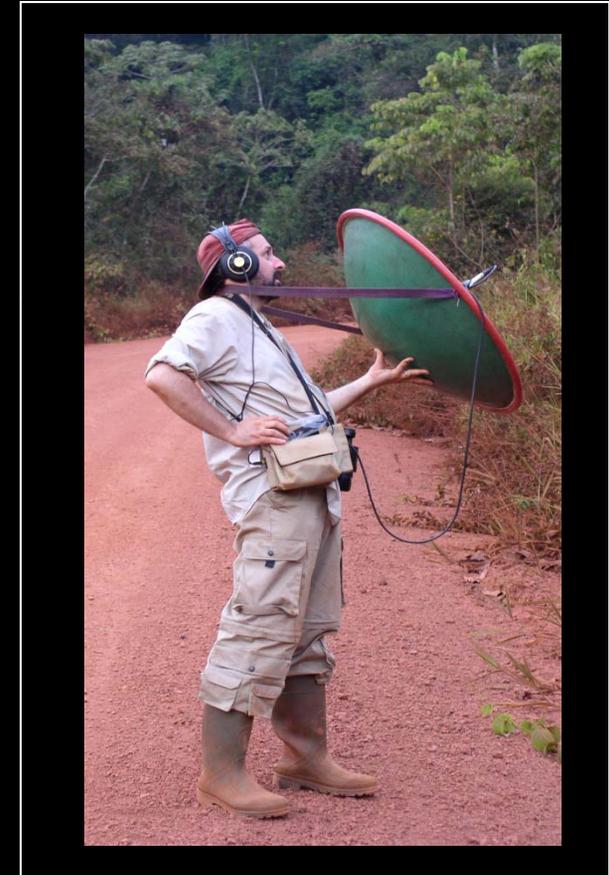


# **Doctoral Dissertation Enhancement Projects**

- **Support for doctoral research overseas**
- **Must be collaborative, with evidence of intellectual involvement of foreign institution**
- **U.S. faculty advisor is PI on proposal**
- **Scale of Funding: may not exceed \$15,000**
- **Point of Contact: OISE Regional/Country Program Officer**

# International Research Fellowships

- **International post-doc program**
- **Eligibility: no more than two years beyond Ph.D. at time of application**
- **Scale of Funding: dependent on location**
- **Point of contact: Lauren Wyatt ([lwyatt@nsf.gov](mailto:lwyatt@nsf.gov))**



# Advanced Studies Institutes

- **Short courses on leading-edge research themes**
- **Level: advanced graduate students, postdocs, and junior faculty**
- **Supported by Department of Energy and NSF**
- **Scale of Funding: may not exceed \$100,000**
- **Point of Contact: Harold Stolberg  
([hstolber@nsf.gov](mailto:hstolber@nsf.gov))**



# Catalyzing New Collaborations

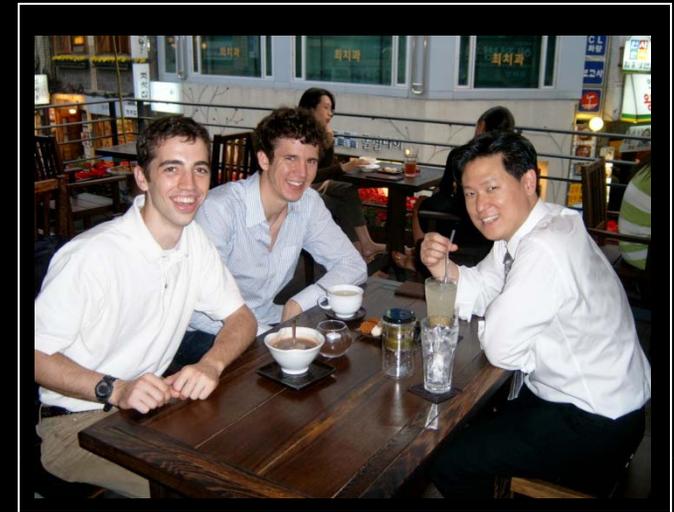
- **Planning Visits and Workshops**
- **Developing Partnerships with non-US institutions**



# International Planning Visits and Workshops

## Planning Visits:

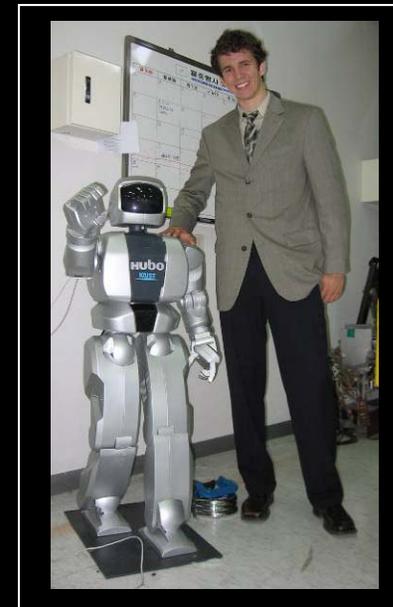
- Supports travel by small teams of U.S. researchers to plan a *new* collaboration
- Scale of Funding: up to \$20,000



## Workshops:

- Meetings co-organized by U.S and foreign investigator
- Scale of Funding: up to \$60,000

**Point of Contact: OISE Geographic Region/Country Program Officer**



# Partnerships for International Research and Education (PIRE)

## *Program Objectives:*

- Enhance research excellence via international partnership and collaboration.
- Promote the development of a diverse, globally engaged U.S. scientific and engineering workforce.
- Strengthen the capacity of U.S. institutions to engage in and benefit from international research and education collaborations.



## ***OISE will not fund ...***

- **Individual or group travel to international conferences**
- **Projects without intellectual collaboration**
- **Costs for foreign participants (consult OISE for country exceptions)**





## NSF - USAID MOU



**NSF and USAID staff have identified themes or areas of joint interest to both agencies, including:**

- **Water**
- **Disaster Mitigation and Response**
- **Climate Change**

**Point of contact: DeAndra Beck  
([dbeck@nsf.gov](mailto:dbeck@nsf.gov))**





**OISE's webpage:**

**[www.nsf.gov/oise](http://www.nsf.gov/oise)**

**Questions:**

**Ed Murdy  
emurdy@nsf.gov**