



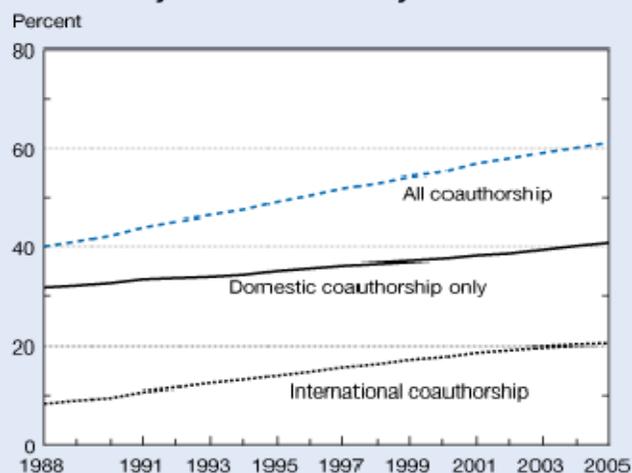
Office of International Science & Engineering (OISE)

NSF Regional Grants Conference
Jackson State University, Oct 5-6, 2009



International activities are
supported across NSF

Figure 5-30
**Share of worldwide S&E articles coauthored
domestically and internationally: 1988–2005**



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 region/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 Scientific, SCI and SSCI, <http://scientific.thomson.com/products/categories/citation/>; ipIQ, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

Science and Engineering Indicators 2008

Why International Collaboration?

Over 20% of the world's scientific and technical articles in 2005 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*



OISE & International Activities at NSF

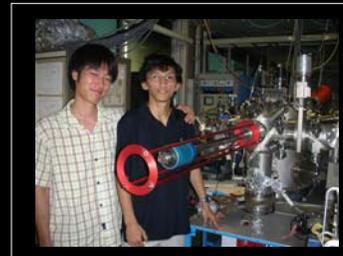
- **OISE supports international activities**
Foundation wide:
 - Co-fund new proposals submitted to NSF disciplinary programs
 - Co-fund supplements to existing NSF grants
 - New proposals to OISE

- **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: Marjorie Lueck (mlueck@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 longer than two years beyond Ph.D. at time of application
- Scale of Funding: dependent on location
- Point of contact: Susan Parris (sparris@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)



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.

Partnerships for International Research and Education (PIRE)

- *PIRE Budget*
 - Proposals have no budget ceiling
- *Who may apply to PIRE?*
 - Universities that granted one (1) or more Ph.D. in a science or engineering field since January 1, 2006, and are accredited in, and have a U.S. campus
 - Eligible institutions may submit 3 preliminary proposals
- *Next Competition*
 - 2011



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*
- *Information Technology*
- *Supply Chains*
- *Construction Research*
- *Food Security*
- *Hazard Mitigation*



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OISE's webpage:

www.nsf.gov/oise

Questions:

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