

Advisory Committee for International Science & Engineering

November 6, 2014



*Please mute your phone
Do not place the call on hold*

*Kelsey Cook, PhD
Acting Section Head*

AC-ISE Agenda: 11/6/2014

- Introductions
 - AC Members, ISE
 - FACA
 - Sign In
- International at NSF and ISE, Past & Present
 - People
 - Programs & Funding
 - Non-programmatic Activities
- ISE Committee of Visitors Report: Steve McLaughlin
- The Future: NSF Director France Córdoba
- Context: Graham Harrison
 - International Framework
 - Evaluation of Overseas Offices
- Planning for March 26-27, 2015 and Beyond



FACA Briefing



Members Sign In on FastLane

<https://www.fastlane.nsf.gov/>



- to ensure reimbursement
- to correct any mistakes in the spelling of your name or address in the NSF database



Personnel Changes since March 2013

Departures

Emily Ashworth
DeAndrea Beck
Phyllis Camper
Yaihara Fortis-Santiago
Rebecca Gaul
Amelia Greer
Jong-on Hahm
Lamar Howard
Carmen Huber
Ed Murdy

Anne-Marie Schmoltnner
Osman Shinaishin
John Snyder
Harold Stolberg
David Stonner
Robert Webber
Drika Weller
Clive Woods
Tracey Zeigler

Arrivals

Cassidy Burke
Lara Campbell
Franklin Carrero-Martínez
Kelsey Cook
Kellina Craig-Henderson
Charles Estabrook
Arthur Fitzmaurice
Jacqueline Moore
Sonia Ortega



Programmatic Activities

- Talent Development
 - International Research Experiences for Students
 - East Asia & Pacific Summer Institutes
 - Graduate Research Opportunities Worldwide
 - Pan-American Advanced Studies Institutes (on hold)
 - International Research Fellowship Program
- Partnerships
 - Partnerships for International Research and Education
 - Catalyzing New International Collaborations (on hold)
- Partnerships Managed Outside ISE
 - Partnerships for Enhanced Engagement in Research (USAID/NAS; NIH, NASA, USDA, USGS, Smithsonian)
 - Global Venture Fund
 - Science Across Virtual Institutes



IRES: US-German research on human-computer interaction in ubiquitous computing (NSF 1358096)

Andrew Kun, University of New Hampshire, Electrical and Computer Engineering

- Each summer 3 undergraduate and 3 graduate US students conduct research for 9 weeks at the Human Computer Interaction Lab, University of Stuttgart, Germany (a leading lab in the field)
- Focus on in-vehicle speech interaction and speech interaction with public displays
- Every weekend, a sightseeing trip and a lab tour



POC: Maija Kukla

PIRE: Developing Low Carbon Cities in US, China & India Through Interdisciplinary Integration (NSF 1243535)



- **Anu Ramaswami, University of Minnesota**

School of Public Affairs and Department of Bioproducts and Biosystems Engineering

- **Overall goal:** Developing low-carbon and sustainable cities, by linking global GHG mitigation with local priorities (which may include water scarcity, waste releases, local pollution and public health risks, or other local priority)
- Focus on **4 infrastructural interventions**, w/ associated institutional and policy changes:
 - Industrial symbiosis, Bus Rapid Transit, Waste Infrastructure & Electric Power Sector Planning under severe water scarcity
- **Inter-disciplinary linkage** through a **Social Ecological Infrastructural Systems (SEIS) Framework**
- **Comparison between** smaller cities (< 1 million population) vs mega cities in India and China



POC: John Tsapogas

NSF's International Charter

- NSF Act of 1950

“The Foundation is authorized and directed...to foster the interchange of scientific and engineering information among scientists and engineers in the United States and foreign countries.”

- NSF Strategic Plan for Fiscal Years (FY) 2011-2016

“[Performance Goal] T-3: Keep the United States globally competitive at the frontiers of knowledge by increasing international partnerships and collaborations.”



Merit Review Criteria

National Science Board

- What is the ***intellectual merit*** and quality of the proposed activity?
- What are the ***broader impacts*** of the proposed activity?

Additional Criteria for International Activities

- True intellectual collaboration with foreign research partner
- New international collaborations
- Clear benefit to U.S. science/engineering community from expertise, facilities, or resources of the foreign collaborator
- Active research engagement of U.S. students and junior researchers at the foreign site



Budgets

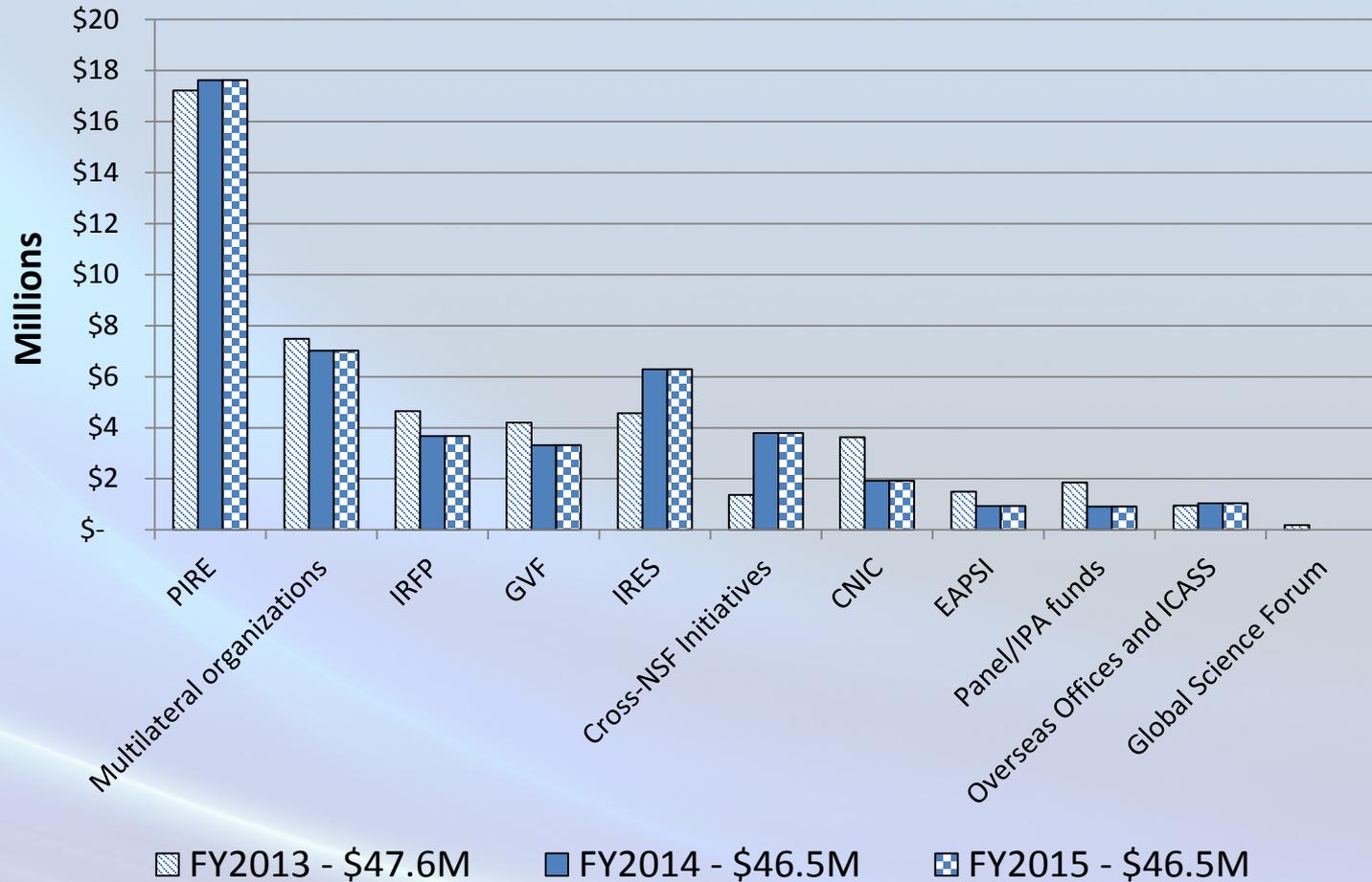
	NSF (Total)	NSF (R&RA)	ISE (R&RA)	ISE (AOAM)
FY 2013 Actual	\$6.902 B	\$5.559 B	\$47.6 M	\$144 K
FY 2014 Estimate	\$7.172 B	\$5.809 B	\$48.5 M	\$137 K
FY 2015 Request	\$7.255 B	\$5.807 B	\$48.5 M	

R&RA – Research & Related Activities

AOAM - Agency Operations and Award Management



ISE Budget Distribution



ISE Proposals FY2011-2013

	Proposals	Awards	Funding Rate
EAPSI	1354	586	43.3%
IRES	246	59	24.0%
IRFP	342	66	19.3%
PASI	47	27	57.4%
PIRE	52 (177 pre-proposals)	12	23.5% (6.8%)
CNIC	565	194	34.3%
TOTAL	2783	944	36.2%
GVF		346	



Proposal Dwell Times

	Awards	Declines	Overall
FY 2011	6.07 months	6.06 months	6.06 months
FY 2012	6.22 months	5.79 months	5.94 months
FY 2013	5.38 months	6.05 months	5.71 months
Overall	5.95 months	5.96 months	5.95 months



Panels and *ad hoc* Reviewers

	Number of Panels*	Number of <i>ad hoc</i> Reviewers
FY 2011	2	1924
FY 2012	4	1605
FY 2013	10	366

* Data from NSF Enterprise Information System



Global Leadership:
Overseas Offices, Science Diplomacy,
and Other Non-proposal Activities



Overseas Offices

Building relationships, strengthening partnerships, identifying emerging trends, facilitating leveraging of foreign resources

	Year Established	Current Personnel	Office Head
Tokyo	1960	3	Kellina Craig-Henderson
Paris	1987	2	Mark Suskin (Acting)
Beijing	2006	3	Nancy Sung

- Integrated with Local US Embassy
- Mission: Facilitation, Representation, Reporting
- No Program Management/Funds
- ISE Oversight/Administration Function Unique Within NSF
- 2013 External Evaluation



Global Leadership: Science Diplomacy

- Global Research Council
- Counterpart Organizations
 - Foreign Delegations & Visitors ~85 annually
 - International Funding Agency Symposium
- Department of State
 - High-level Bilateral/Multilateral Meetings (e.g., Joint Commission Meetings) ~15 annually
 - Embassy Fellows - 55 NSF Fellows since 2001
 - Embassy Visits Abroad



Internal & External Activities

- Support NSF Office of the Director
 - Briefings for NSF Director & Deputy - over 50 annually
 - Correspondence for Office of the Director ~ 65-100 annually
 - Travel accompaniment
- Support NSF Directorates
 - MOUs and other agreements
 - J-1 Visa Waivers ~30 annually
 - Country Clearances for NSF staff - over 700 trips annually
 - Cross-NSF working groups
- Examples of Outreach ~40 annually
 - NSF Days
 - Grants Conferences
 - Scientific Meetings & Professional Societies (e.g., SACNAS)
 - Webcasts



Evaluations and Reflections

- COV
- Strategic Framework
- Evaluations:
 - Overseas Offices
 - EAPSI
 - IRFP
 - PIRE (on-going)



Agenda

11:00 am	State of the ISE Section: Challenges and Opportunities	Kelsey Cook and Wanda Ward
11:30	Discussion	
11:45	Report from the ISE Committee of Visitors	Steve McLaughlin, Chair and AC Liaison
12:15 pm	Discussion and Disposition	Susan Avery
12:45	Break	
1:00	Meeting and Discussion with NSF Director – Planning for (O)ISE	France Córdova
2:00	Presentation of “Advancing Transformative Science and Engineering through International Engagement: A Strategic Framework” and “Assessment of the National Science Foundation’s Overseas Offices: Summary”	Graham Harrison
2:20	Discussion	
2:40	New business and planning for face-to-face meeting (tentatively 3/26-27/2015)	Susan Avery
3:00	Adjourn	

