

American Physical Society
Leadership Convocation
February 2, 2018

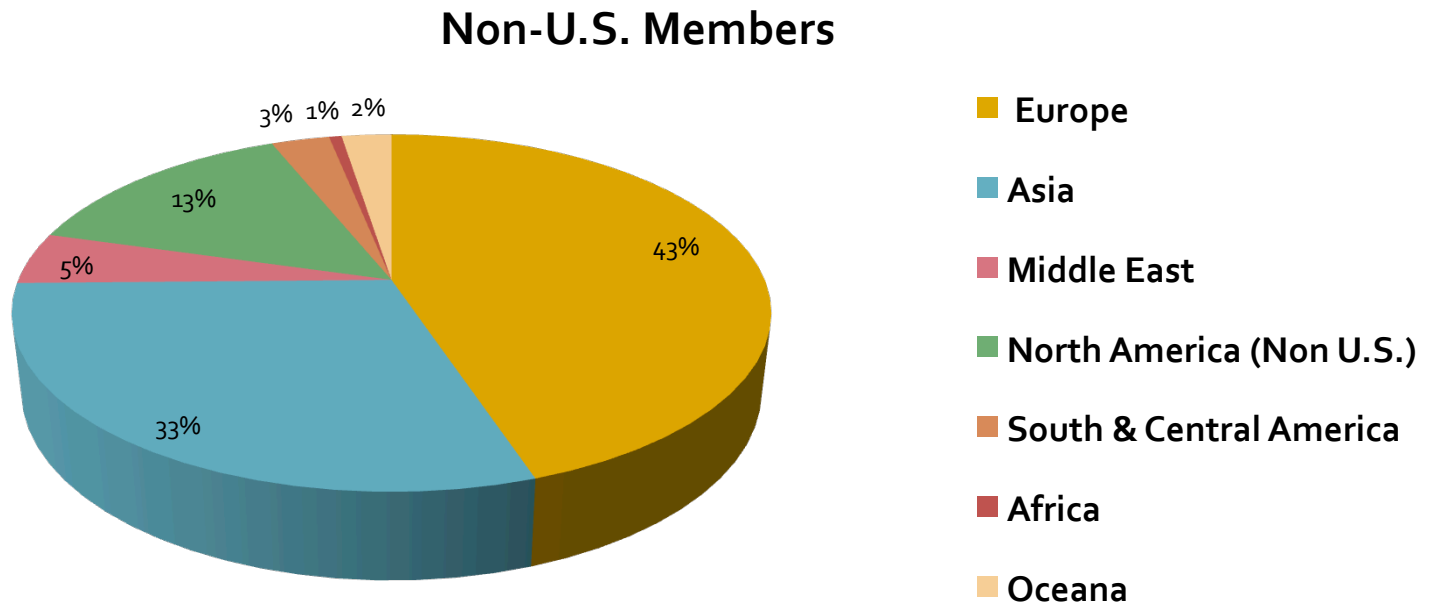
International Affairs

Serving APS Members, APS Units & Physicists Worldwide

Dr. Amy K. Flatten
Director of International Affairs

International Membership

APS Members Residing Outside of U.S.



~24 % of APS Members Live Outside of United States

Coordinating Groups

Supporting Unit Programs & Interests

- ❑ **Committee on International Scientific Affairs (CISA)**
 - International program development and advisory group
 - Recommendations to APS Governance (Ex. Board & Council)
- ❑ **Committee on International Freedom of Scientists (CIFS)**
 - Monitor human rights of scientists worldwide
 - Invitation to Units -- Bring individual cases to CIFS
- ❑ **U.S. Liaison Committee (USLC) to IUPAP**
 - **IUPAP– International Union of Pure & Applied Physics (59 Member Countries)**
 - IUPAP Commissions: Representing ~ 20 physics subdisciplines
 - International Conferences within subdisciplines
 - **U.S. Represented on IUPAP through USLC**
 - **APS Division Chairs**: May be asked to suggest U.S. candidates for IUPAP Commissions (3-year terms)
 - Letter from APS Director of International Affairs
 - Nominating cycle every 3 years

International Programs

Connecting International Programs to APS Units

❑ International Research Travel Award Program

- Launched by Forum on International Physics -- Sustained by APS Unit Contributions
- Travel Awards for collaboration with developing country physicists
- Supported by APS Divisions and some other units

❑ Beller & Marshak Lectureships

- “Honorific” Lectureships support travel for March/April Meeting invited speakers
- **Chairs** of Divisions, Forums, Topical Groups submit nominations (CISA selects)



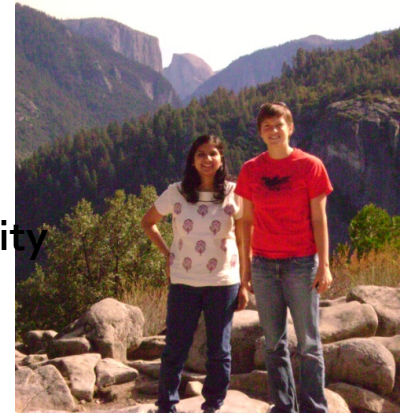
Marshak Lectureship recipient Prof. Karimat El Sayed, from Ain Shams University, Egypt

Develop Global Scientists

Preparing Young Physicists for International Partnerships

❑ **Brazil & India Physics Exchange Programs**

- Ph.D. Students & Postdocs: Visit host for laboratory research, short course, or other
- Working Physicists: Lecture series or short course in host university
- Foster understanding of scientific cultures
- Promote international partnerships



S. Srivastava & D. Lieske:
Exchange between Stanford & IIT

❑ **International Young Physicists Forums**

▪ **Canadian-American-Mexican (CAM) Graduate Student Physics Conferences**

- Biennial international graduate student meeting
- Over 100 graduate students from 3 countries (& *Cuba!*)

▪ **US-China Young Physicists Forum**

- 60 graduate students from US & China
- Partnership with Chinese Physical Society

▪ **US-Brazil Young Physicists Forum**

- 50 Early-Career Physicists
- Partnership with Brazilian Physical Society, São Paulo Research Foundation



CAM Participants – Poster Session

Foster Communication

Scientific Cooperation Despite Political Tensions (Middle East & Cuba)

- ❑ **SESAME: Synchrotron Light Source in Middle East (Jordan)**
 - Members: Israel, Palestinian Authority, Iran, Turkey, Cyprus, Egypt, Jordan, Pakistan
 - Scientific cooperation supports “science for peace”
- ❑ **Middle-East - SESAME Travel Training Award**
 - Partnership among 11 U.S. & European Scientific Societies
 - Travel support for Middle Eastern scientists
- ❑ **Cuban Physical Society**
 - APS Leaders - Speakers at SCF annual meetings
 - Meetings with SCF Executive Board
 - Free Online APS Journals
 - Cuban delegation for Graduate Student Physics Conference (CAM2017)
- ❑ **Cuban Academy of Sciences**
 - Meeting with Vice President Fidel Castro Diaz-Balart
 - Speaker at APS March Meeting (2016)
 - Hosted lab visits in Havana



SESAME Facility



Fidel Castro Diaz-Balart

Build Scientific Capacity

Science & Engineering Lead to Economic Development

☐ **Physics in Africa – Joint Society Project**

- Institute of Physics, European Physical Society, & International Centre for Theoretical Physics
- Combine resources to catalyze African-led projects

☐ **Entrepreneurship Workshops**

- Partnership among US & European scientific organizations (APS, IOP, OSA, ICTP)
- Two or more held annually around the world



Workshop Participants at ICTP

☐ **International Research Travel Award Program**

- Travel Awards (\$2K) for collaboration among developed & developing country physicists
- APS Units provide funds – Administered by Forum on International Physics

☐ **Matching Membership Program & Free APS Journals**

- Free APS Membership to developing country physicists
- Free APS Journals for Sub-Saharan Africa, Bangladesh, Afghanistan, Cuba

Enable Scientific Mobility

Help with Visas for International Physicists

☐ **APS Visa website**

- Information for visa applicants
- Information for U.S. meeting organizers
- How to avoid delays
- Where to go for help
- www.aps.org (Under “Upcoming Meetings”)
- www.aps.org/programs/international/

☐ **Science & Security Coalition**

- Partnership of ~ 25 Science & Higher Education Organizations
- Led by National Academy of Sciences
- Joint Society Statements, 2004, 2005, 2009 (received substantial press)
- Ongoing meetings/dialog with State Department representatives

Looking Ahead

Strategic Planning – Task Force on Expanding International Engagement

Task Force on Expanding International Engagement

- Expanding international engagement called for in APS Strategic Plan
- Established during the 2016/2017 academic year

❑ **Task Force Goal:** *Identify and refine strategic objectives of expanded international engagement that will ensure the Society's long-term value to the international physics community.*

❑ **More specifically, the Task Force will:**

- Recommend new international programs, partnerships, or services & ways to prioritize
- Recommend ways that current APS initiatives can serve the Society's international goals

❑ **Outreach & In-reach:**

- Survey to ~10,000 APS Members & All Units
- Feedback from national physical society partners
- Surveys to Board, Council, Presidential Line & Senior Staff

Task Force on Expanding International Engagement

Proposed Charge - main components

❑ **Task Force Members:** Recommendations from Presidential Line, Past-Presidents, Council, Executive Board, Members

- **Jonathan Bagger**, Chair
TRIUMF
- **William Colglazier**, Vice-Chair
Center for Science Diplomacy, AAAS
- **Dirk Jan Bukman**
APS Editorial Office
- **Luisa Cifarelli**
University of Bologna
- **Carlos Henrique de Brito Cruz**
São Paulo Research Foundation
- **Laura Greene**
Florida State University
- **Alan Hurd**
Los Alamos National Laboratory
- **Young-Kee Kim**
University of Chicago
- **Patricia McBride**
Fermi National Accelerator Laboratory
- **Johanna Stachel**
University of Heidelberg
- **Eliezer Rabinovici**
Hebrew University
- **Nai-Chang Yeh**
California Institute of Technology

Open Communication

Please feel free to contact us!

❑ We'd welcome the chance to be of help!

- Dr. Amy Flatten, Director of International Affairs; Flatten@aps.org
- Ms. Michele Irwin, International Programs Administrator; Irwin@aps.org