



*MENTORING WOMEN IN INTERNATIONAL RESEARCH*

*COLLABORATIONS IN STEM*



**Organizer: The American Association for the Advancement of Science (AAAS)**

**With funding and support from the National Science Foundation (NSF)**

**Audio: Call in using your telephone or use your microphone and speakers (VoIP)**

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## Goal

To foster the participation of U.S. female scientists and engineers in international science, technology, engineering, and mathematics (STEM) research and education collaborations, particularly female STEM faculty from underrepresented minority groups and with physical disabilities.



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## Geographic coverage

International STEM research projects were performed with collaborators in countries across several countries in different continents (Malaysia, Italy, Canada etc..) and belonged to various fields of science and engineering research and education



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# Program components

1. Travel awards for planning international research and education projects, including travel for the female faculty and male or female graduate students and/or postdoctoral Fellows



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## Program components

2. Development of a website for awardees and their mentees, including planning resources, funding opportunities, information on international research



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## **Program components**

**3. Online webinar to discuss awardees' travel experiences, the perceived impact of the program and benefits and challenges surrounding International Research Collaborations**



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## **Program outcomes**

Increased knowledge and understanding of female STEM faculty and their mentees in regards to planning and implementing international research and education collaborations



## Program outcomes

- \* Valuable outcomes in term of career development, through co-authoring and patenting for PIs
- \* Transitioning to the professoriate for graduate students and post-doctoral researchers





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## Program outcomes

- \* Impact not limited only to participants
- \* Some PIs were successful in triggering long-term institutional changes; planning exchange programs Memorandum of Understanding (MOUs)



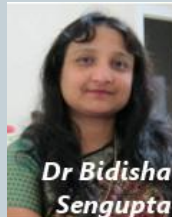
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# Program Participants 15 PIs and 16 Mentees

Other collaborators and students also participated with PIs





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## Panelists today



### **Maria Ngu-Schwemlein, Ph.D.**

Professor of Chemistry  
Winston-Salem State University

Author of Several Publications

#### Honors and Awards

*Wilveria B. Atkinson Distinguished Research Award*  
*Teacher of the Year Award, College of Basic Sciences*

#### Collaborators

Dr. Ng Sing Muk, Swinburne University of Technology, Sarawak, Malaysia.

Dr. Chin Suk Fun, University of Malaysia Sarawak, Malaysia.



## Panelists today



### **Delaram Kahrobaei, Ph.D.**

Professor, Computer Science and Mathematics  
New York City College of Technology & City University of New York

Research Area: *Information Security, Cryptography, Computational and Combinatorial Group Theory*

Author of several publications and co-organizer of conferences and seminars (i.e. Manhattan Algebra Day etc.)

### **Collaborators**

Professor Enric Ventura, Universitat Politècnica de Catalunya, Spain  
Mentees: Ha T. Lam (PhD candidate), Bren Cavallo (PhD student) & Jordi Delgado