INTERNATIONAL WOMEN'S DAY 2019

Think equal, build smart, innovate for change

The UNITED NATION theme in celebration of the International Women's Day this year calls for innovative ways to advance gender equality and the empowerment of women.

Brookhaven Women in Science (BWIS) and Women in Science and Engineering (WISE)

present

GIRL POWER in STEM: Think Equal, Build Smart, Innovate for Change.

MARCH 9, 2019

Stony Brook University

Student Activity Center Ball Room A

The Symposium "Girl Power in STEM" is in its 6th year and follows the call by the United Nations "Think Equal, Build Smart, Innovate for Change". Our aim this year is to inoculate participants with new ideas that can be easily adopted by all of us to promote and sustain women in STEM fields.

To REGISTER click here. It is FREE.
Be conscientious. **Please only register if you will participate**; you may be taking someone else's place. **Space is limited.**

Our Special Thanks

Energy and Photon Sciences Brookhaven National Laboratory

Nuclear and Particle Physics

M&C Venture

AGENDA

8:30 Registration

8:45 Welcome

9:00 Cathy Cutler MIRP Director, Brookhaven National Laboratory

How a farm girl became a scientist and impacted patient's lives

9:40 Panel Discussion Think Equal, Build Smart, Innovate for Change

10:40 Shobhana Narasimhan Dean Academic Affairs, Jawaharlal Nehru Centre for Advanced Scientitfic Research, Bangalore, India

Changing Sizes and a Changing World: Stories from an Indian Woman Nanoscientist

11:20 Speed Networking

11:20 Science Demonstration; Posters

12:15 Carolina Jimenez-Garcia Senior Layout Artist en ScanlineVFX

Women in film industry - Our presence in the art and technology of filmmaking

13:00 Lunch

13:00 Topic Tables - get your lunch and join other participants for a friendly discussion

13:00 Science Demonstrations; Posters - enjoy your lunch and learn about the research that is being developed by students at different Long Island research facilities

14:00 Thank You and Close Out Remarks

A complete program will be made available Here

SPEAKERS

Cathy Cutler, *MIRP Director, Brookhaven National Laboratory*

How a farm girl became a scientist and impacted patient's lives

Abstract

Dr Cathy Cutler is the Director of the Medical Isotope Research and Production Program (MIRP), at Brookhaven National Laboratory. Her research on the development and evaluation of radiopharmaceuticals focuses on facilitating the development of new radiopharmaceuticals to enhance personalized treatments of metastatic cancer. The typical radiopharmaceutical works by combining a radioactive isotope with a specially designed organic molecule or a biological targeting molecule. Once inside the body, the targeting compound takes control, guiding the isotope to the cancerous site where the isotope decays, enabling either diagnosis or ablation of the cell. The challenge, particularly in therapy, is ensuring enough dose to the tumor cells to cause destruction before the effects on normal cells and toxicity become too high.

Until 2015 Dr. Cutler worked at the University of Missouri Research Reactor Center where she led the Radiopharmaceuticals Group. Dr. Cutler is Chair of the Committee on Radiopharmaceuticals of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) and sits on the executive board of directors of the Society of Radiopharmaceutical Sciences. She is also a board member of the Therapy Center of Excellence and the Center for Molecular Imaging Innovation and Translation.

Shobhana Narashima *Dean Academic Affairs, Jawaharlal Nehru Centre for Advanced Scientitfic Research, Bangalore, India.*

Changing Sizes and a Changing World: Stories from an Indian Woman Nanoscientist

I will talk about how and why I became a scientist, growing up in India. I will also talk about my work as a computational nanoscientist, designing new materials on the computer: one atom at a time, with the periodic table of the elements as my Lego box. I am interested in how the properties of matter change as its dimensions become smaller and smaller, down to the nanoscale. These novel properties allow us to design innovative miniaturised devices that are expected to change our lives in the near future.

Shobhana Narasimhan is a theoretical physicist working in the area of computational nanoscience. Her group uses the techniques of quantum mechanical density functional theory to design novel nanomaterials. Shobhana grew up in Bombay, India, where she

went to school and college. After obtaining a PhD in physics at Harvard University, she was a postdoc at Brookhaven National Laboratory and the Fritz Haber Institute, Berlin, Germany. Since 1996 she has been on the faculty of the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India, where she has also been Chair of the Theoretical Sciences Unit and Dean of Academic Affairs. She has an active interest in women in science: she has conducted several workshops for women in physics, was a member of the Working Group on Women in Physics of IUPAP, and is currently a member of the Standing Committee on Women in Science of the Government of India. She has also taught physics in many developing countries in Asia and Africa.

Carolina Jimenez Garcia *Senior Layout Artist en ScanlineVFX, Vancouver, Canada*

Women in film industry - Our presence in the art and technology of filmmaking

We'll discuss the role of women in the film industry throughout the history of filmmaking, from the first women pioneers in the history of cinema to today's situation in the field around me. I'll go through my career experience since I first started and try to analyze the whats and whys. And we'll try to shed some optimistic light on how to get to a more equal path all in the technical and artistic world of movie making.

Carolina Jimenez is a visual effects artist in the film industry. She started studying architecture in Spain, her home country, but the digital technology of computer graphics rapidly caught her attention and became her preferred career path and profession. She's lived in countries like UK, Australia or New Zealand and now resides in Vancouver, Canada. She's worked in many movies including The Hobbit trilogy, Star Trek Beyond, Guardians of the Galaxy Vol2, Dawn of the Planet of the Apes or Justice League. Her passion for science popularization and for educating in VFX and filmmaking has made her a blogger, a Youtube teacher and an international speaker for film festivals and educational institutions. A good part of the material she creates is Spanish, her mother tongue. This has made her educational activity of special relevance in Latin America, where educational material is not always available or affordable for young enthusiasts, specially girls and women in need of role models and career mentorship.

PANEL

Think Equal, Build Smart, Innovate for Change

Panelists and participants will engage in a friendly exchange of ideas, and actions that can easily be pursued to empower women in STEM. As stated by the UN Women organization “integrated approaches and new solutions are needed to attain the sustainable development of transformative shifts.” The aim of this panel discussion is to engage and promote innovative ideas that will promote a sustaining environment that empowers women in their careers.

Maria-Isabel Carnasciali (Mechanical Engineering Professor, University of New Haven)

Andrea Duhon (Assitant Professor, Department Mathematics, Marshall University)

Vitoria Hernandez (Science Research Teacher, William Floyd School District)

Ivy Olberding (Deputy Manager, Emergency Services Division, BNL)

Camila dos Santos (Assistant Professor, Cold Spring Harbor Laboratory)

Jinelle Wint (Graduate Student, Stony Brook University)

SPEED NETWORKING
Meet Professionals One on One

Christine Ali, Chemical System Coordination Engineer BNL

Joe Ambrosio,

Anibal Boscoboinik, Scientist, CFN, Brookhaven National Laboratory

Anil Dhundhale, Retired Professional

Kahille Dornsinville, BNL

Natascha Harbin, STEM Teacher

Ashley Head,

Victoria Hernandez, Science Research Teacher, William Floyd School District

Wen Hu Assistant Scientist, National Synchrotron light Source II, BNL

Alfreda James, Career Center Stony Brook University

Ignace Jarrige, Scientist, National Synchrotron light Source II, BNL

Gail Mattson, BNL

Elspeth McSweeney, Director Growth Office, BNL

Alex Soares, Scientist, National Synchrotron light Source II, BNL

Fabrizio Spagnolo, Lecturer, Columbia University

Donna Tumminello

Lorraine Walsh, Simon Art Center, Stony Brook University

Jinelle Wint

TOPIC TABLES
Have Lunch with Professionals in the Field

STEP UP 4 Women - Think Equal, Build Smart, Innovate for Change
leaders:

Importance of internships for career development
leaders: Aleida Perez, Microbiologist, Science Educator Brookhaven National Laboratory

How to develop your own “Elevator Speech”
leaders:

How to make your CV stand out for College or Grad school applications
leaders: Miguel Garcia Diaz, Director, Molecular and Cellular Pharmacology Graduate Program

What to emphasize in a CV for a Professional Career

How to Communicate Science to the General Public