



# World Forum for Women in Science • Brazil 2020

4<sup>th</sup> International Conference for Women in Science without Borders: *Energy, Water, Health, Agriculture and Environment for Sustainable Development*

## 4TH INTERNATIONAL CONFERENCE FOR WOMEN IN SCIENCE WITHOUT BORDERS:

**Energy, Water, Health, Agriculture and Environment for Sustainable Development**

12-14 February, 2020 | Rio de Janeiro, Brazil

Venue: Brazilian Center for Research in Physics (CBPF)

### AGENDA

#### FEBRUARY 12

##### 09:00-09:30 - **Opening Ceremony**

- Ronald Cintra Shellard (Director, Brazilian Center for Research in Physics)
- Marcia C. B. Barbosa (Member of the Board of Directors, Brazilian Academy of Sciences / Chair, World Forum for Women in Science - Brazil 2020)
- Amal Amin (Honorary Founding Chair, Women in Science Without Borders)

##### 09:30-10:15 - **Keynote Lecture on Health and Development Nexus**

Moderator: Andrea S. S. de Camargo (University of São Paulo)

- **Engineering Global Health-Biofluids for Personalised Healthcare**- Stavroula Balabani (University College London)

##### 10:15-11:00 - **Keynote Lecture on Food and Sustainability Nexus**

Moderator: Andrea S. S. de Camargo (University of São Paulo)

- **An Overview of Valorization of By-Products for Sustainable Food Production** - Sebnem Tavman (Ege University)

##### 11:00-11:30 - **Poster Session (Group 1)**

##### 11:30-13:30 - **Session: Water and Materials**

Moderator: Marcia C. B. Barbosa (Federal University of Rio Grande do Sul)

- **Iron and Manganese Biogeochemical Cycling in Doce and Paraopeba Rivers after Flooding by Iron Mining Tailings from Failed Dams** - Carolina Neumann Keim (Federal University of Rio de Janeiro)
- **Functionalized Polyethylenimine Coated Magnetic Nanoparticles for Lead Removal** - Chimaine Feudjio Tsague (University of the Western Cape)
- **Biophotonics with Emphasis on Female Diseases** - Natalia Mayumi Inada (University of São Paulo)

##### 13:30-14:30 - **Lunch Break**

##### 14:30-16:00 - **Session: Water and Energy**

Moderator: Carolina Neumann Keim (Federal University of Rio de Janeiro)

- **Developments on Heterogeneous Catalytic CO<sub>2</sub> Reduction to Solar Fuels** - Houda Ennaceri (Leibniz Institute of Surface Modification)
- **Bioprospecting Cellulases from Organic Wastes for Bioethanol Production in Kenya** - Eucharia Kenya (University of Embu)
- **Analysis of the 14-X S Scramjet Engine** - Ana Maria Pereira Lara (Aeronautics Institute of Technology)

##### 16:00-16:30 - **Networking and Poster Session (Group 1)**

##### 16:30-17:30 - **Cocktail**

## **FEBRUARY 13**

09:30-11:00 - **Overview: Health and Environment Nexus**

Moderator: Marcia Pinheiro Margis (Federal University of Rio Grande do Sul)

- **Genomics & Bioinformatics Curricula Targeting Health and Biomedical Professionals & Researchers in LMIC** - Danai Tavonga Zhou (University of Zimbabwe)
- **Woman in Science through the Entomological Perspective** - Jane Margaret Costa de Frontin Werneck (Oswaldo Cruz Foundation)
- **Conservation Planning in the Face of Climate Change and in Rapidly Changing Landscapes** - Sima Fakheran (Isfahan University of Technology)

11:00-11:30 - **Keynote Lecture on the Relevance of Networking**

Moderator: Marcia C. B. Barbosa (Federal University of Rio Grande do Sul)

- **Networking is a Successful Aspect for Science Diplomacy and Fruitful Scientific International Relations** - Amal Amin (National Research Centre)

11:30-12:00 - **Poster Session (Group 2)**

12:00-14:00 - **Session: Agriculture and Environment**

Moderator: Carolina Horta Andrade (Federal University of Goiás)

- **Alleviating Food Security and Nutrition Issues via Novel, Green, Cost-Effective Technologies** - Arya S. Shalini (Institute of Chemical Technology)
- **Greener Synthetic Protocols to Access Biologically Relevant Chalcogen-Containing Molecules** - Sumbal Saba (Federal University of ABC)
- **Monitoring of Air Pollution Using Energy Efficient Gas Sensors** - Mahesh Kumar (Indian National Young Academy of Science)
- **Biodiversity and Climate Change Research for Sustainable Development** - Fernanda de Pinho Werneck (National Institute for Amazonian Research)

14:00-14:30 - **Lunch Break**

14:30-16:00 - **Session: Health and Development**

Moderator: Angela de Luca Rebello Wagener (Pontifical Catholic University of Rio de Janeiro)

- **Artificial intelligence Platforms for Drug Discovery for Neglected Diseases** - Carolina Horta Andrade (Federal University of Goiás)
- **Immunological Role of Gut Microbiome Among Patients with Breast Cancer and its Relation to Anthropometry** - Walaa Saad Hanafy Mahmoud (National Research Centre)
- **Nanostrategies for Removal Endocrine Disruptors from Drinking Water** - Solange Binotto Fagan (Franciscan University)

16:00-16:30 - **Networking and Poster Session (Group 2)**

16:30-17:30 - **Roundtable: Parent in Science**

Moderator: Marcia C. B. Barbosa (Federal University of Rio Grande do Sul)

- Fernanda Staniscuaski (Federal University of Rio Grande do Sul)
- Camila Infanger Almeida (University of São Paulo)
- Hugo Aguilaniu (Serrapilheira Institute)

## **FEBRUARY 14**

09:30-11:00 - **Overview: Water, Agriculture and Energy Nexus**

Moderator: Carolina P. Naveira-Cotta (Federal University of Rio de Janeiro)

- **How to Face Environmental Stresses in Agriculture: rice as a model** - Marcia Pinheiro Margis (Federal University of Rio Grande do Sul)
- **Digital Transformation in the Oil and Gas Industry** - Sylvia dos Anjos (Brazilian Association of Petroleum Geologists)

11:00-11:30 - **Networking**

11:30-13:30 - **Session: Health and Development**

Moderator: Marcia Pinheiro Margis (Federal University of Rio Grande do Sul)

- **The Role of Inflammation on Amyloid Diseases** - Debora Foguel (Federal University of Rio de Janeiro)
- **Development of a Secured Mobile Societal Health System** - Agbelusi Olutola (Rufus Giwa Polytechnic)
- **Rac1 Mutations in Human Developmental Disorders** - Nurhuda Binti Mohamad Ansor (Universiti Sains Malaysia)

13:30-14:30 - **Lunch Break**

14:30-16:00 - **Session: Agriculture and Environment**

Moderator: Fernanda de Pinho Werneck (National Institute for Amazonian Research)

- **X-Ray Fluorescence Analysis of Selected Micronutrients in Ten African Indigenous Leafy Vegetables Cultivated in Nairobi, Kenya** - Alix Dehayem-Massop (University of Nairobi)
- **Dietary Change for an Unchanged Climate: interactions between climate, energy and food** - Joana Portugal Pereira (Federal University of Rio de Janeiro)
- **Hydrocarbons in the Marine Environment: how to track the presence and origins** - Angela de Luca Rebello Wagener (Pontifical Catholic University of Rio de Janeiro)

16:00-17:00 - **Keynote Lecture on Policies on Women in Science**

Moderator: Marcia C. B. Barbosa (Federal University of Rio Grande do Sul)

- **The gender gap in mathematics and the natural sciences: where are we now?** - Silvina Ponce Dawson (International Union of Pure and Applied Physics)

17:00-17:30 - **Closing Ceremony**

## GROUP 1 - POSTER SESSION (FEBRUARY 12)

- **O Cenário de Impactos Ambientais na Amazônia e os Desafios e Iniciativas para o Desenvolvimento Sustentável** - Fabiana Barbosa Gomes (Centro de Estudos Rioterra)
- **Advances on Eco-Friendly Plastic Materials Enabling Sustainable Development** - Karen de Souza do Prado (Federal University of São Carlos)
- **Investigation of the enzymatic arsenal secreted by *Myceliophthora thermophila* during sugarcane bagasse growth with a focus on LPMOs** - Maria Angela Bernardes Grieco (Federal University of Rio de Janeiro)
- **Multimodal - In-Car Interaction Towards the Adoption of Autonomous Vehicles** - Omayma Alqatawneh (University of Huddersfield)
- **Evaluation of the Effect of Rare Earth Metal Doping (La, Ce, Lu and Yb) on CaO Used as Catalyst in the Synthesis of Ethyl Biodiesel** - Pâmela Felipe Guebara

## GROUP 2 - POSTER SESSION (FEBRUARY 13)

- **Lifestyle Modalities and Health Outcome of People in Urban Areas in Africa** - Chinelo Henrietta Okonkwo (University of Nigeria)
- **Applications of Medical Image in Nuclear Science** - Inayá Correa (Federal University of Rio de Janeiro)
- **Electronically Divergent Tris-Cyclometalated Homoleptic Ir(III) Complexes: Synthesis and Applications in Health and Agriculture** - Rachael Evelyn Njeri (University of Nairobi)
- **Edible Toppings of Polymeric Blends of Corn Starch and Celery Potatoes Applied to Acerola** - Rejane Dias Pereira Mota (Federal Institute of Goiás)
- **Study of Women's Participation in the Organizing Committees and Poster Presentations of the Brazilian Polymer Congress** - Talita Angelica dos Santos (Federal University of ABC)

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