

# World Forum Women In Science 2024

ENVISIONING TOMORROW  
SCIENCE FOR THE SDGS  
AND NEW PARTNERSHIPS FOR SUSTAINABLE FUTURES

Online Conference - 15-16 - 17 April 2024

Co-sponsored by



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## PROGRAM OF THE ONLINE WORLD FORUM FOR WOMEN IN SCIENCE (WFWS)

Organized by  
Women in Science without Borders and Traces&dreams in  
collaboration with Festival delle Scienze.

The final schedule will be published on Saturday, April 13

### Registration

Fill in this form <https://forms.gle/gKtsCUskA4RdgFcV6>

**Day one**

**Monday, the 15th of April 2024**

**Opening Ceremony**

**Monday, the 15th of April  
10:00 - 10:15 CET**

**Prof. Amal Amin**

*Founder and Chair of the World Forum Women in Science, Egypt*

**Nerina Finetto**

*Founder of Traces&Dreams and Director of the WFWS 2024, Italy*

**Beatrice Manassero**

*Ministry of Foreign Affairs and International Cooperation, Italy*

**Vittorio Bo**

*Director of the Festival delle Scienze, Roma*

## **Opening Plenary Session**

### **The importance of Networking, science diplomacy, and partnerships**

**Monday, the 15th of April  
10:15-11:45 CET**

#### **Moderators**

**Prof. Amal Amin  
Dott. Nerina Finetto**

**Prof. Quarraisha Abdool Karim**

*Twas president, South Africa*

**Dr. Angela Liberatore**

*Head of the Scientific Management Department - European Research Council  
Executive Agency, Brussels Belgium*

**Prof. Priscilla Kolibea Mante**

*Co-chair of the Global Young Academy, Ghana*

**Prof. Emanuela Colombo**

*UNESCO Chair "Energy 4 Sustainable Development -Rector's Delegate to  
Science Diplomacy, Italy*

**Dr. Charles Lebon Mberi Kimpolo**

*Director - African Institute for Mathematical Sciences - Next Einstein Initiative,  
South Africa*

**Mrs. Brenda Behan**

*Director of the Gender, Protection, and Inclusion Service (UN World Food  
Program), Italy*

## Technical Session

### Empowering Women in STEM

Monday, the 15th of April  
12:15 - 13:45 CET

#### Moderator

**Prof. Shalini Subhash Arya**

**Prof. Shalini Subhash Arya**

*Professor of Food Technology at the Institute of Chemical Technology Mumbai, India*

Breaking Barriers: Overcoming Challenges Faced by Young Women Scientists

**Prof. Sima Fakheran**

*Associate Professor at the University of British Columbia (UBC), Canada and Isfahan University of Technology, Iran*

Gender Gap in editorial boards of scientific journals

**Camila Infanger and Louise Batot**

*Ph.D. candidates*

*University of São Paulo/Oxford University and University of Luxembourg*

The legitimacy of women's equitable policies in organizations

**Prof. Fernanda Maria Policarpo Tonelli**

*Federal University of São João del Rei, Brazil*

Brazilian Women in Science: Gender gap scenarios and strategies to fight underrepresentation

**Dr. Kleinsy Bonilla**

*Vice-president for Latin America and the Caribbean of the Organization of Women in Science for the Developing World, Guatemala / Norway*

Social Technologies and Inclusion: The role of networking and science diplomacy to address intersectional gaps in higher education in Guatemala

## Technical Session

### Technology and Health

Monday, the 15th of April

12:15 - 13:45 CET

## Moderator

**Ass. Prof. Hend Galal Eldeen Mohamed**

**Ass. Prof. Hend Galal Eldeen Mohamed**

*Technology of Radiology and medical imaging, Applied health sciences, Galala University, Egypt*

*Radio Diagnosis department, Faculty of medicine, Ain Shams University, Egypt*

Feasibility Study in Assessment of Congenital Cardiovascular Malformation by Recent Technique of Fetal Cardiac MR Imaging

**Dr. Kokila MW Abeykoon**

*Senior Lecturer at the University of Moratuwa, Sri Lanka*

The validation of residual physical capabilities of women with physical disabilities in their shoulder/arm region for employment support using the WARM Map tool

**Dr. Lario Malungana**

*Researcher at the University of South Africa*

Enhancing patient documentation and optimizing medical operations thanks to wearable gadgets

**Afsheen Arif**

*Assistant Professor, KIBGE, University of Karachi, Pakistan*

Congenital septal defects in Karachi, Pakistan: an update of mutational screening by high-resolution melting (HRM) analysis of MTHFR C677T

## Technical Session

### AI in Healthcare: Bridging Gaps and Understanding Diversity

Monday, the 15th of April  
14:00 - 15:30 CET

#### Moderators

**Dr. Walaa Saad Hanafy Mahmoud**  
**Dr. Natalie Ann Gordon**

**Dr. Laure Stella Gnoma Linguissi**

*Lecturer, OWSD National Chapter Congo Republic, Republic of Congo*

Towards Inclusive Health: Investing in Primary Health Care in the Republic of Congo (infections)

**Dr. Walaa Saad Hanafy Mahmoud**

*Researcher and pediatrician consultant at National Research Center, assistant professor at Misr University for Science and Technology, Egypt*

The capacity of AI to handle and evaluate massive data sets is one of its most important contributions to medical anthropology

**Dr. Cristián Castillo Olea**

**M.G.Flores-Sánchez**

**Rosario Anaya**

*Researcher in Intelligent Systems applied to healthcare La Salle University México, Mexico*

Healthcare Analytics Evolution. DATA Mexico

**Ms. Natalie Ann Gordon**

*Senior Lecturer, Oral Hygienist. University of the Western Cape, South Africa*

Primary Oral Health Care within a Substructure in the Cape Metro Health District, South Africa

**Dr. Julia Rodríguez Castelán**

*Professor and researcher in the academic division of Medicine and Nutrition, Universidad Cristóbal Colón, Mexico*

Metabolic syndrome differentially affects ovarian histology in females of reproductive age

**Dr. Nicole Richie**

*VP Global Health Equity & Population Science - Roche, United Kingdom*

Innovation in Healthcare: Bridging Gaps and Understanding Diversity

**Technical Session**

**Knowledge, Competences and Development**

**Monday, the 15th of April**

**14:00 - 15:30 CET**

**Moderators**

**Dr. Brigitta Ferenczik**

**Prof. Arabella Bhutto**

**Dr. Brigitta Ferenczik**

*Head of Competence Centre for Sustainability*

*University of Pannonia, Competence Centre for Sustainability, Hungary*

Promoting Sustainable Development through Knowledge and Competence Platforms: The Case of University of Pannonia, Hungary

**Dr Ajoke Fehintola idayat Akindele**

*Postdoc Fellow, BC3 Center For Climate Change, Leioa, Spain.*

*University of Medical Sciences Ondo city, Ondo State, Nigeria*

Non-Communicable Diseases, Pollution Prevention, and Climate Change Reduction

**Prof. Arabella Bhutto**

*Professor of Business and Innovation Management and currently serving as Vice Chancellor SABS University of Arts, Design and Heritage, Jamshoro, Pakistan*

Bridging Research Partnerships for SDG Solutions: The Role of Lean Canvas for Invention (LCI) and Its Online Educational Platform

**Yousif Raid**

*Management Technical College, Southern Technical University, Basrah, Iraq*

Role of women in AI development

**Paiman Ahmad**

*University of Raparin, Ranya, Kurdistan Region, Iraq*

Role of Women in the Labor Market: Case study of a selected group of post-conflict countries: Iraq, Syria, Yemen and Afghanistan.

**Dr. Funmilola Olubunmi Omotayo**

*Lecturer and researcher at the Department of Data and Information Science, Faculty of Multidisciplinary Studies, University of Ibadan, Nigeria; a research fellow at the Department of Information Science, College of Human Sciences, University of South Africa, Pretoria, South Africa*

**Miss Rafiat Bukola Bashorun**

*Department of Data and Information Science, Faculty of Multidisciplinary*



*Studies, University of Ibadan, Nigeria*

Information Accessibility and Use as Panacea Towards Reducing Information Poverty and Inequality in Nigeria

## **Technical Session**

### **Innovations in Agriculture and Food Security**

**Monday, the 15th of April  
16:00 - 17:30 CET**

## **Moderators**

**Prof. Zakaria Fouad Fawzy Hassan  
Prof. Olubukola Oluranti Babalola**

### **Dr. Aminu Oluwafunmilayo Olarewaju**

*Department of Agricultural Economics and Extension, Olusegun Agagu  
University of Science and Technology, Ondo State, Nigeria*

Gender Analysis of Rural Households' Vulnerability to Poverty and Hunger in Ogun State, Nigeria

### **Prof. Olubukola Oluranti Babalola**

*North-West University/ OWSD Org for Women in Science for the Dev. World,  
South Africa*

Addressing Food Insecurity

### **Prof. Zakaria Fouad Fawzy Hassan**

*Professor, National Research Centre, Egypt*

Climate Smart Agriculture for Environmental Sustainability

**Prof. Daniela Bernaschi**

*Research fellow and adjunct professor at the University of Florence, Italy*

Beyond food deserts, multidimensional analysis of food insecurity at territorial level: the blacked-out food areas in Rome (Italy)

**Dr. Ilham Abidi**

*Agronomy and agri-food researcher, agricultural policy  
Ministry of Agriculture/Hassan II Institute of Agronomy and Veterinary  
Sciences, Morocco*

Quinoa as a climate-smart crop diversification option  
for higher income generation from marginal lands in the Mediterranean  
(Quinoa 4Med) (06/2022- 05/2025)

**Technical Session**

**Technology, Sustainability, and Industry**

**Monday, the 15th of April  
16:00 - 17:30 CET**

**Moderators**

**Prof. Nova Ahmed  
Dr. Jane Yau**

**Prof. Nova Ahmed**

*Professor at North South University, Bangladesh*

Breaking Barriers: Empowering Women in Computing Through Close  
Engagement and Stakeholder Collaboration

**Dr. Kinkini Dasgupta Misra**

*Scientist at Vigyan Prasar, Department of Science and Technology, India*

Empowering Women Through Technology and Innovation

**Dr. Papali Maqalika**

*Researcher and Lecturer at National University of Lesotho, Lesotho*

The quality of Lesotho mohair production, focusing on the prevalence of medullation and its implications for the industry

**Dr. Monica Gori**

*Principal investigator of unit for Visually impaired people of Italian Institute of Technology, Italy*

Challenges Faced by Children with Visual Impairments: Navigating Developmental Hurdles and Debunking Myths

**Mohamed Elsayed Elshamy**

*Chairman of the Electronics Research Institute. Computers and Systems Department, Electronics Research Institute, Cairo, Egypt*

**Sherine Mohamed Abd El-Kader**

**Computers and Systems Department, Electronics Research Institute, Cairo, Egypt**

*Women empowerment and development in Egypt and how to engage them with STEM.*

**Jane Yau**

*Senior researcher at DIPF Leibniz Institute for Research and Information, Germany*

Gaming for Change: Leveraging Digital Games to Address Climate Change

**Panel**

**The role of elites in fighting Inequality - Challenges or Opportunities?**

**Monday, the 15th of April**  
**18:00 - 19:30 CET**

**Moderator**

**Prof. Alice Krozer**

**Prof. Alice Krozer**

*Professor at El Colegio de México, México*

**Prof. Mariana Heredia**

*Prof. UNSAM - Universidad Nacional de San Martín, Argentina*

**Dr. Katharina Hecht**

*Northwestern University, US*

**Natalia Torres**

*Ir Amin, Israel*

**Prof. Irene Lungo Rodríguez**

*Facultad de Ciencias Políticas y Sociales FCPyS- UNAM, Mexico*

**Panel**

**The difficulties in finding decent jobs for highly  
qualified women in South America**

**Monday, the 15th of April**  
**20:00 - 21:30 CET**

## **Moderator**

**Prof. Yohana Velasco Santamaría**

**Prof. Yohana Velasco Santamaría**

*Full Professor at University of Los Llanos, Colombia*

**Dr. Sonia Esperanza Reyes Gómez**

*PhD Consultant for the Instituto de Capacitación e Investigación del Plástico y del Caucho, Colombia*

**Dr. Marina B. Martínez-González**

*PhD Head of Social Sciences Department at Universidad de la Costa, Colombia*

**Dr. Maria Victoria Whittingham**

*PhD National consultant for the Centro Latinoamericano de Administración para el Desarrollo (CLAD), Colombia*

**Dr. Gloria López**

*PhD Associate Research Fellow at Recanati Institute for Maritime Studies RIMS University of Haifa, Israel*

**Day Two**  
**Tuesday, the 16th of April**

**Panel**

**Inclusive cities and communities**

**Tuesday, the 16th of April**  
**8:30 - 9:45 CET**

**Moderator**

**Prof. Hong Ching Goh**

**Prof. Hong Ching Goh**

*Chair of Social Advancement and Happiness Research Cluster, Associated Professor in Department of Urban and Regional Planning, Faculty of Built Environment, at University of Malaya, Malaysia*

**Dr. Noor Hashimah Hashim Lim**

*Senior Lecturer, Department of Urban and Regional Planning, Faculty of Built Environment, Universiti Malaya, Malaysia*

**Dr. Teti Argo**

*Senior Lecturer, Urban and Regional Planning Program, Bandung Institute of Technology, Indonesia*

**Dr. Chiara Garau**

*Associate Professor in Urban and Regional Planning, Dep. of Environmental, Civil Engineering and Architecture (DICAAR), University of Cagliari, Italy*

**Ms. Olafiyin Taiwo**

*PhD student at University College London and Chair, Commonwealth Association of Planners Young Planners Network, UK*

**Dr. Nelly Babere**

*Dean of the School of Spatial Planning and Social Sciences, Ardhi University, Dar es Salaam, Tanzania*

**Technical Session**

**Heritage Preservation, Education and Innovations**

**Tuesday, the 16th of April**

**8:30 - 10:00 CET**

**Moderators**

**Dr. Sokyna Alqatawnah**

**Prof. Carlotta Torricelli**

**Dr. Sokyna Alqatawnah**

*Senior Lecturer at Arden University, United Kingdom*

Digital documentation technology and its role in preserving and rehabilitating heritage buildings.

**Guia Baratelli**

*Roma Tre University, Italy*

Transforming the didactic space. Retracing some steps of Modern school models and paradigms.

**Dr. Temidayo Olanrewaju Aduloju**

*Academic researcher*

*Lagos State University, Epe Campus, Lagos State, Nigeria.*

Optimizing knowledge management procedures in the building construction industry in Lagos, Nigeria: A panacea for sustainable development.

**Prof. Carlotta Torricelli**

*Dipartimento di Architettura - Università degli Studi Roma Tre (Department of Architecture - Roma Tre University), Italy*

Ellen Key's Feminist Pedagogy and its Impact on Modern Swedish Architecture: Reimagining Educational Spaces

**Dr. Enas Aref**

*Instructor & Researcher at Western Michigan University, USA*

A Framework for Sustainable Entrepreneurship Education in Secondary Schools: Empowering Youth for Equity and Economic Development

**Panel**

**Narratives That Matter**

**Tuesday, the 16th of April  
10:15-11:45 CET**

**Moderators**

**Nerina Finetto  
Dr. Rhiannon Moss**

**Prof. Cecilia de Souza Fernandez**

*Institute of Mathematics and Statistics at the Fluminense Federal University (UFF), Rio de Janeiro, Brazil*

Women in Mathematics - a project to give visibility to women's work in Mathematics

**Prof. Elisabeth Strickland**



*Co-founder and Vice-president of the inter-university Observatory of Gender, Equality and Equal Opportunity. Università Tor Vergata, Rome, Italy*

Women and Technology: mind the gap

**Dr. Sadaf Ahmed**

*Director and President - University of Karachi and Advance Educational institute and research - Pakistan*

Cross-Cultural Narratives for Women in Science from Under-Resourced Regions

**Vittorio Bo**

*President & Founder of Codice Edizioni and Director of the Festival delle Scienze, Italy*

The Art and Science of Science Dissemination

**Dr. Marie Elisabeth Muller**

*Senior Editor and Educator of New Media and Communications, Germany*

Exploring new Frontiers: Generative AI for Storytelling in Academia and Science

**Adriana Riccomagno**

*Journalist and Author, Italy*

Narrating Climate Change: an easygoing knowledge for greater awareness

**Dr. Silvia Casu**

*Researchers - National Institute for Astrophysics (INAF), Italy*

Under the same sky

## Technical Session

### Tackling Gender Inequality

Tuesday, the 16th of April  
12:15-13:45 CET

## Moderators

**Prof. Willie Chinyamurindi**

**Prof. Willie Chinyamurindi**

*University of Fort Hare South Africa*

*Studying narratives of women subsistence entrepreneurs in South Africa*

**Dr. Amanda Souza dos Santos**

*Post-doctoral researcher at Universidade Federal do Rio de Janeiro*

*Reducing inequalities in postgraduate programs in Brazil: how a preparatory course increased the representation of women and other minorities in higher education*

**Dr. Mamoona Alam**

*Shaheed Benazir Bhutto women university Peshawar Pakistan*

*Women in STEM in Pakistan, a case study 2024*

**Dr. Zamambo Mkhize**

*Lecturer at the University of Cape Town, South Africa*

*Challenges Faced by African Women in South African STEM Academia*

**Dr. Ximena Gonzalez**

*Lecturer at the Centro de Estudio de Transformaciones Sociales del Instituto Venezolano, Venezuela*

**María Ángela Petrizzo**

*National University of Tourism. UNATUR, Venezuela  
Institute of Higher Transdisciplinary Studies. IAET.*

Exploratory elements of the analysis of academic evaluation policies applied to women scientists belonging to the CLACSO Network of Centers of Venezuela

**Dr. Rumbidzo Gunduza**

*Researcher and MPHIL student at University of Zimbabwe, Zimbabwe*

Addressing Gender Disparities in The Uptake of Science-Related Degree Programmes: Toward A Gender-Responsive Model of Inclusion

**Technical Session**

**Cutting-edge Environmental Solutions**

**Tuesday, the 16th of April**

**12:15-13:45 CET**

**Moderators**

**Prof. Hossam El Nazer**

**Dr. Karen Jacqueline Cloete**

**Prof Hossam El Nazer**

*National Research Centre, Egypt*

Working on the mitigation of greenhouse gas emissions

**Ledjane Maria Alves Oliveira**

*Master in Materials Science, Federal University of Pernambuco, Brazil |  
UFPE - The Organization for Women in Science for the Developing World  
-OWSD*

Study and chemical characterization of photovoltaic waste obtained by mechanical separation

**Safa Mechouche**

*PhD student at Institute of Electronics, Microelectronics and Nanotechnology, France*

Advanced Optimization of Biogenic Silver Nanoparticle Synthesis Through Modeling and Computational Intelligence Techniques: Investigating Photothermal Antibacterial Efficacy

**Dr. Ghada Emam Khedr**

*Researcher at Egyptian Petroleum Institute, Egypt*

Enhanced water oxidation capability of Sulfur-vacancy-modulated  $Cd_xZn_{1-x}In_2S_4/(S, N)-TiO_2$

**Dr. Karen Jacqueline Cloete**

*Senior researcher at UNESCO-University of South Africa Chair in Nanosciences-Nanotechnology, South Africa*

Exploring the Potential of Nanofertilizers in Modern Agriculture

**Dr. ElZahraa A Elgohary**

*National Research Center, Egypt*

Ilmenite for efficient photocatalytic removal of heavy metals under visible light irradiation

**Technical Session****Health Session**

**Tuesday, the 16th of April**  
**14:00 - 15:30 CET**

**Moderators**

**Prof. Shymaa Enany**

## **Dr. Kim Vaiphei**

### **Dr. Kim Vaiphei**

*Post Graduate Institute of Medical Education and Research, India*

Rare complications observed in young Ulcerative Colitis patients

### **Dr. Rituparna De**

*DHR NRI Scientist*

*Department of Health Research, Government of India, India*

Identification of prognostic markers and probiotic candidates by screening of the gut microbiome in an endemic population of diarrhea

### **Prof. Shymaa Enany**

*Professor of Microbiology at Suez Canal University, Egypt*

Antimicrobial resistance is a major concern in the dairy industry

### **Dr. Y.M.Piumika. Yapa**

*Research Assistant at University of Sri Jayewardenepura, Sri Lanka*

Synergism of multimetallic nanohybrids as promising antimicrobial agents with an expansive coverage of microbes

### **Dr. Mireille Sylviane Dongmo Nguepi**

*Lecturer at the University of Buea, Camaroon*

*Persea americana, Curcuma longa, and Allium sativum* extracts exhibit cercaricidal, anti-inflammatory and anti-oxidant activities

### **Ruma Bhagat**

*Portfolio Leader Health Equity & Population Sciences - Roche, Switzerland*

Innovation in Healthcare: Bridging Gaps and Understanding Diversity

## Technical Session

### Innovative Water Treatment Solutions

Tuesday, the 16th of April  
14:00 - 15:30 CET

#### Moderators

**Prof. NOUJ Nisrine**  
**Dr. Goh Zhi Ling**

**Alina Ndapewa Inekel'Omuwa Kadhila**

*Geohydrologist And Author*

The state of water resources management in Namibia, Southern Africa

**Goh Zhi Ling**

*Researcher at Universiti Malaya, Kuala Lumpur, Malaysia*

Water-Driven Plasticization in Cellulose Derivative Gel Electrolytes for Eco-Friendly Dye-Sensitized Solar Cells

**Prof. Mohamed Mahmoud**

*Associate Professor at Galala University, China*

Electrochemical oxidation for rapid and efficient water disinfection with modified carbon electrodes

**Aiman Siddiqui**

*Civil engineer at NED University of Engineering & Technology, Pakistan*

Dumlotte wells and groundwater management in Karachi, Pakistan

**Prof. Rina Kumari**

*Assistant Professor Central University of Gujarat, India*

*Assessment and Management of Groundwater Resources in Jhajjar District, Haryana, India: An Integrated Approach*

**Dr. Linda Dyorisse Nyamen**

*Lecturer/Researcher*  
*University of Yaoundé I, Cameroon*

Synthesis and Characterization of Copper Sulphide Nanophotocatalysts for Efficient Treatment of Industrial Wastewater Contaminated with Toxic Organic Dyes

**Prof. Nouj Nisrine**

*Professor, National Institute for Scientific and Technological Research on Water, Ibn Zohr University, Agadir, Morocco.*  
*2 Laboratory of Materials and Environment, Faculty of Sciences, Ibn Zohr University, Agadir, Morocco.*

Valorization of Crab Shell Waste for Efficient Bio-Coagulant Production in Fisheries Wastewater Treatment

**Technical Session**

**Health Session**

**Tuesday, the 16th of April**  
**16:00 - 17:30 CET**

**Moderators**

**Prof. Smita C Pawar**  
**Dr. Mary Amoako**

**Anita Beutel**

*PhD in Physiotherapy at University of Cape Town, South Africa*

An investigation of the rehabilitation needs, development, and preliminary outcomes of an education and exercise self-management intervention for breast cancer survivors

**Dr. Mary Amoako**

*Lecturer at Kwame Nkrumah University of Science and Technology*

Nutrient deficiency is one of the major underlying causes for acute and chronic diseases

**Prof. Smita C Pawar**

*Professor at Osmania University*

Understanding Ovarian Cancer: Risks, Symptoms, Diagnosis, and Treatment Options

**Dr. Zeinab EL-Shahid**

*National Research Centre, Egypt*

Prostate Cancer: Detection, Treatment, and Management

**Assistant Professor Fingani Annie Mphande-Nyasulu**

*King Mongkut's Institute of Technology Latkrabang, Thailand*

Sustainable health and Access to Information in LMIC

**Technical Session**

**Circular Economy and Sustainable Materials**

**Tuesday, the 16th of April**

**16:00 - 17:30 CET**

**Moderators**

**Prof. Esther Akinlabi**

**Dr. Lucky Krishnia**

**Dr. Lucky Krishnia**

*Scientist Innovator at Amity University Haryana, India*

Nanomaterials: Advancement and Impact on the Environment



**Fathiah Azam**

*PhD student, Centre for Ionics Universiti Malaya, Universiti Malaya*

Polyaniline and Zirconium Oxide Nanocomposite Based All-in-One Synthesized Hydrogel for Enhanced Pseudocapacitor Performance

**Ms. Ana Rufina Herrera Soto**

*Investigation, Technological development, and Innovation Area from the Chemical Engineering School, San Carlos University of Guatemala.*

Coffee Wastewater Management in Guatemala: A Call for Specific Policy Implementation

**Prof. Esther Akinlabi**

*Deputy Faculty Pro Vice Chancellor for Research and Knowledge Exchange, Northumbria University, Newcastle, UK.*

Circular economy of plastics, recycling of waste plastics used in the production of filaments for 3D printing of products

**Mariette Agbohessou**

*PhD Student at Cheikh Anta Diop University of Dakar, Senegal*

Combined effect of drought stress and salinity on seed germination of three provenances of baobab from Senegal

**Aiman Siddiqui**

*Civil engineer at NED University of Engineering & Technology*

Utilization of waste plastic in development of sustainable construction materials

## Panel

### Science Diplomacy

Tuesday, the 16th of April  
18:00 - 19:30 CET

## Moderator

**Dr. Paulina Carmona-Mora**

**Dr. Paulina Carmona-Mora**

*Research scientist, Department of Neurology and MIND Institute at the University of California-Davis in Sacramento, CA, USA*

**Dr. Dilfuza Egamberdieva**

*Head of the Department of Biological Research and Food Safety National Research University, Uzbekistan*

**Dr. Almas Taj Awan**

*Lecturer, Entrepreneur and Postdoctoral researcher in the area of "Science and Innovation diplomacy" at "Institute of Advance Studies", University of São Paulo, Brazil. She has a PhD in Chemistry*

**Dr. Muhammad Adeel**

*Career Diplomat with the Ministry of Foreign Affairs, Pakistan, currently Embassy of Pakistan to the European Union, Belgium and Luxembourg in Brussels*

**Dr. Encieh Erfani**

*Researcher at Mainz University in Germany and Advisory Board member of the InterAcademy Partnership (IAP)*

**Dr. Gabriela Ferreira**

*Postdoctoral Researcher at the Department of Political Science at the University of São Paulo (DCP-USP). Member of the Executive Committee of the São Paulo Innovation and Science Diplomacy School (InnSciD SP-USP)*

## **Panel**

### **Future of Science Communications in Latin America and The Caribbean**

**Tuesday 20:00 - 21:30 CET**

## **Moderator**

**Prof. Melina Flórez Cuadros**

**Prof. Melina Flórez Cuadros**

*Lecturer, Global Young Academy/OWSD Colombian chapter, Doctor in Veterinary Medicine. Ms. Veterinary Science and Doctor in entomology*

**Dr. Helen Jamison**

*Global Coordinator, Science Media Centre, London, United Kingdom*

**Dr. Pampa García Molina**

*Director of Science Media Center España, Spain*

**Ximena Serrano Gil**

*President of the Colombian Association of Scientific Journalism, Colombia*

**Víctor Román**

*Science Journalist, Perú*

**Day Three**  
**Wednesday, the 17th of April**

**Technical Session**

**COVID-19, Gender Disparities, and Health Solutions**

**Wednesday, the 17th of April**  
**8:30 - 9:45 CET**

**Moderator**

**Prof. Shamsun Nahar Khan**

**Dr. Jiayue-Clara Jiang**

*Postdoctoral research fellow at the Institute for Molecular Bioscience, The University of Queensland, Australia*

Addressing gender inequity in cardiovascular research: a higher genetic risk of depression is a greater risk factor for cardiovascular diseases in women

**Prof. Diana Boraschi**

*Distinguished Professor, Director of the Laboratory of Inflammation and Vaccines, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China*

Vaccine clinical trial in a test tube

**Dr. Paloma Maripiha**

*National Health Institute in Mozambique, Mozambique*

COVID-19 Severity Disparities Across Job Sectors: Implications for Worker Health and Safety Policies

**Reasmyraj A/P R Subramaniam**

*PhD Scholar at Universiti Malaya, Malaysia*

Antiviral Coating Covid

**Prof. Shamsun Nahar Khan**

*Professor at East West University, Bangladesh*

Navigating COVID-19: Challenges, Adaptations, and Future Strategies

## Technical Session

### Advancing Sustainability Solutions

Wednesday, the 17th of April

8:30 - 9:45 CET

### Moderator

**Prof. Lizeth Rodríguez**

**Nazia Akter**

**Prof. Lizeth Rodríguez**

*Central America University UCA, El Salvador, Central America*

Evaluation of new life potential in prefabricated buildings

**Pershaana K. Manogran**

*PhD scholar at Department of Physics, Universiti Malaya, Malaysia*

Development of self-assembled nickel carbonate hydroxide hydrate electrode for Supercapattery

**Amrutha Muralidhar**

*Student at B. M. S College of Engineering, India*

AI-Driven Precision Agriculture for Sustainable Food Production

**Nissaf Sleimi**

*Engineer at Higher Institute of Urban Planning, Environment and Construction Tunis, Carthage University, Tunisia*

STEAM game-based learning approaches to sustain water management in civil engineering practices

**Carol Ngwenya**

*PhD Candidate at University of Cape Town, South Africa*

Investigation of valorization routes for carbon-rich waste streams, particularly carbohydrate-rich food waste, for bioenergy production

**Mrs. Christine Mpofu**

*MSc student at the Department of Environmental Sciences, School of Agriculture and Environmental Sciences, University of South Africa, South Africa*

Biosorption of mercury from small-scale gold mining effluent using *Saccharomyces cerevisiae*

**Technical Session**

**Advancing Sustainable Solutions**

**Wednesday, the 17th of April**

**10:15 -11:45 CET**

**Moderator**

**Prof. Dilfuza Egamberdieva**  
**Fabiola L. Falconieri**

**Noushin Arfatahery**

*Microbiologist PhD researcher*

*Freie University Berlin*

*Communities: Community-Based Approaches to Sustainable Aquaculture*

**Prof. Sima Fakheran**

*Associate Professor at the University of British Columbia (UBC), Canada and Isfahan University of Technology, Iran*

*Forests sustaining agriculture*

**Mohamed Abdelghani**

*High School senior*

*Senior at STEM High School for Boys*

*Transitioning from Fossil Fuels to Renewable Biofuels: Mitigating Climate Change through Green Energy Solutions*

**Dilfuza Egamberdieva**

*Head of Department of Biological Research and Food Safety*

*National Research University, Uzbekistan*

*The intersection of global challenges such as the COVID-19 pandemic, climate change, biodiversity loss, and food deficiency*

**Fabiola L. Falconieri**

*Technologist of communication at ENEA, Italy*

*Exploring Gender Dynamics in Energy Transformation Policies: The gEneSys Project*

**Dr. Alhamzah Alnoor**

*Senior Lecturer of Strategic Management at the*

*Management Technical College, Southern Technical University, Basrah,*

*Iraq.*

Role of Women in Climate Change Awareness and Energy Transition Process

## Panel

**Sustainable, Inclusive, Decolonized Innovation**

**Wednesday, the 17th April**  
**12:15-13:45 CET**

## Moderator

**Prof. Mahesh Kumar**

### **Dr. Wenmiao Yu**

*Co-founder and business director of Oxford-spinout Quantum Dice, UK*

Equitable Entrepreneurship in Quantum Technologies

### **Dr. Jharana Bhattarai Aryal**

*Researcher RMIT University, Australia*

Local urban climate governance: The interplay between national governments and aid agencies

### **Dr. Vanessa De Luca**

*Diversity, Inclusion and Social Impact Specialist, Istituto Italiano di Tecnologia (IIT), Italy*

NEXUS's Innovative Approach to Bridging Diversity Gaps in Research and Innovation



**Dr. Slezak Gabriele**

*University of Vienna / ÖFSE, Austria*

Decolonizing Knowledge Systems in Scientific International Cooperation

**Maysoun Ramadan**

*Global Diversity Equity and Inclusion Partner- Roche Chief Diversity Office - Roche*

Diversity Equity and Inclusion are core to innovation - it's a culture and a strategy

**Dr. Mareli Claassens**

*Associate research professor at the University of Namibia and medical doctor. African Senior Fellow of the European and Developing Countries Clinical Trials Partnership (EDCTP) and Harvard LEAD fellow in Global Health (2021)*

Decolonizing Research for Innovation

**Technical Session**

**Food and Agriculture**

**Wednesday, the 17th of April  
12:15- 13:45 CET**

**Moderators**

**Prof. Ghanya Al-Naqeb  
Dr. Mariam Kadzamira**

**Dr. Lai Lai**

*Universiti Putra Malaysia, Ministry of Agriculture and Irrigation, Malaysia*

Policy Framework for Myanmar Rice Production and In-Depth Study on Greenhouse Gas Emissions

**Dr. Nesma Alaaeldin Zakaria Moussa**

*Assistant Lecturer*

*Faculty of Agriculture, Damietta University, Egypt*

Evaluation of stem borer resistant maize genotypes for resistance to fall armyworm (*Spodoptera frugiperda* J.E. SMITH) infestation

**Dr. Nahla Mustafa Mohamed Ali**

**Dr.Sarra A.M.Saad**

*Associate Research Professor, Sudan*

*Dr. Associate Research Professor*

Soil Quality Monitoring in Sudan: Leveraging LoRaWAN Technology.

**Malessa Louw**

*Doctoral student at the University of the Free State, South Africa*

The investigation of the food consumption patterns of low and middle-income households of Grassland Phase 4 informal settlement in Free State, South Africa

**Prof. Ghanya Al-Naqeb**

*Head of Department of Biological Research and Food Safety*

*National Research University, Uzbekistan RTDA (Assistant professor)*

Exploring the Dual Nature of Medicinal Plant Extracts: Health Benefits and Toxicological Concerns

**Dr. Mariam Kadzamira**

*Senior Researcher – Agribusiness at CABI, United Kingdom*

Exploring Business Models for Engaging Women and Young People in Agricultural Service Provision in Africa: Insights from Ongoing Action Research

## Technical Session

### Health Session

Wednesday, the 17th of April  
14:00 - 15:30 CET

### Moderators

**Dr. Temiloluwa Afolayan**  
**Dr. Olanike Christianah Akinduyite**

**Ms. Brenda Wanjiru Muriithi**

*Molecular Biologist and Bioinformatician at Jomo Kenyatta University of Agriculture and Technology, Kenya*

Structural and Functional Implications of MIT2 and NT2 Mutations in Amodiaquine and Piperaquine Resistant Plasmodium berghei Parasites

**Dr. Pooja Bhardwaj**

*Scientist B, ICMR-Regional Medical Research Centre, India*

Diagnosis of scrub typhus in AES endemic regions

**Ms. Temiloluwa Afolayan**

*Lecturer and Researcher at Anchor University Lagos, Nigeria*

The relationship between ABO blood group and infection with *Plasmodium falciparum*

**Dr. Olanike Christianah Akinduyite**

*Lecturer at AFE University, Ado-Ekiti (ABUAD), Nigeria*

Understanding Sepsis: Causes, Symptoms, Diagnosis, Treatment, and Prevention Strategies

**Dr. Aya Samir Mohammed**

*Bioinformatics, Faculty of Science, Helwan University, Egypt*

Bioinformatics approach for prediction and analysis of Non- Structural protein 4B(NSP4B) of Zika Virus

**Karuna Rameshkumar**

*Consultant Pathologist and Director at Mithra multispecialty Hospital, India*

Connect, Collaborate and Care – Case study at Bangalore, Karnataka, India

## **Technical Session**

### **Innovations in Water Management**

**Wednesday, the 17th of April**  
**14:00 - 15:30 CET**

### **Moderators**

**Prof. Marwa El-Sayed El-Sesy**  
**Prof. Mayson H. Alkhatib**

**Dr. Anwesha Ghosh**

*Research Associate, Centre for Climate and Environmental Studies, Indian Institute of Science Education and Research Kolkata, India*

*Ocean acidification, marine life*

**Dr. Ananya Muduli**

*Research scholar at Department of Earth Sciences, Indian Institute of Technology Roorkee, India*

*Unraveling Hydrogeochemical Analysis: Assessing Groundwater Vulnerability to Saline Intrusion in Rapidly Urbanizing Tropical Coastal Regions*

**Prof. Mayson H. Alkhatib**

*Professor, Biological Sciences and Chemistry-Chemistry Section College of Arts and Sciences, University of Nizwa, Oman*

**Reem Al-abri**

*Master student*

*Enhancing Wastewater Treatment with Chitosan-Based Hydrogel Beads: An Efficient and Sustainable Approach*

**Awadia Hamid Ezoo Hamid**

*Master of Geophysics in Faculty of Petroleum & Minerals at Al Neelain University, Sudan*

*Surface water converted to ground Water for supply several rural areas villages assessment for infrastructure*

**Prof. Marwa El-Sayed El-Sesy**

*Associate Professor in Microbiology National Water Research Center, Egypt*

*Wastewater - Experimental investigations were conducted to assess the effectiveness of biological treatment methods*

## Technical Session

### Advancing Education for Inclusion and Sustainability

Wednesday, the 17th of April  
16:00 - 17:30 CET

### Moderators

**Dr. Phoebe A. Ganola**  
**Dr. Ann-Kathrin Dittrich**

#### **Salma Hassaballa**

*Independent Writer and Researcher, a member of the Egyptian Union Writers, Egypt*

Freedom's Blind Spot: A Critical Appraisal of Science's Role in Unlocking  
SDG17's Potential

#### **Dr. Oyeyemi Omolayo Oladimeji**

*Researcher and lecturer at Federal College of Education (Special), Oyo, Oyo State, Nigeria.*

#### **Dr. Oluwatoyin Racheal Ogunwale**

*Researcher and lecturer at Federal College of Education Special Oyo Oyo State, Nigeria*

Education and Inclusion (challenges associated with Government policies on  
special needs education)

#### **Dr. Rosaria (Sara) Bonito**

*Researcher at INAF, Italy*

Promoting Inclusive STEM Education: The 'Astronomia a Scuola - Donne nella  
Scienza' Project

**Dr. Sisassenkosi Sibonokuhle Dube**

*Mathematics lecturer in Rwanda, Rwanda*

Using Science to Improve Education for Sustainable Development Goals

**Dr. Ann-Kathrin Dittrich**

*Lecturer/Researcher at University Innsbruck, Austria*

The Role of Teacher Educators in Sustainability: Reflections from a Transnational Project

## Technical Session

### Innovations in Agriculture and Sustainability

Wednesday, the 17th of April  
16:00 - 17:30 CET

### Moderators

**Prof. Uloma Onyeka**  
**Prof. Mona Ahmed Hussein**

**Dr. Maria Tomas Cossa**

*Researcher Bazaruto Center for Scientific Studies, Mozambique*

Assessing the Role of Coffee Agroforestry in Climate Change Mitigation:  
Soil Carbon Dynamics in Central Mozambique

**Prof. Mona Ahmed Hussein**

*Professor of Biological Control at Pests & Plant Protection Dept.,  
Agricultural & Biological Research Institute, National Research Centre,  
Egypt*

Ecofriendly bio-pesticides

**Prof. Uloma Onyeka**

*Professor at Federal University of Technology, Owerri, Nigeria*

Transforming Waste to Value: Utilizing Chili Calyx in Milk Curding for Economic Sustainability

**Dr Mawuse Adzo Siabi**

*Lecturer at University for Development Studies, Tamale, Ghana*

Potential of Lemongrass Tea as a Water Replacement in Broiler Chicken Nutrition: Implications for Growth Performance and Health

**Oleka, Ikechukwu John**

*Manager at Nigeria Social Insurance Trust Fund (NSITF), Nigeria*

Full spectrum-driven Photocatalytic Water Splitting using Fe-doped TiO<sub>2</sub>-ZrS<sub>2</sub>.

**Prof. Amira Hassenin**

*Assistant Professor at Zagazig University, Egypt*

Characterization and Comparative Analysis of Pasteurella multocida Isolates from Ovine Pneumonia and Porcine Sources: Insights from MLST and Virulence-Associated Gene Typing

**Prof. Najma Memon**

*Professor at the University of Sindh, Pakistan*

From Waste to Resource: Developing a Textile Binder from Banana Pseudostem Fiber

**Plenary Closing**

**Envisioning the future: Science and the SDGs**

**Wednesday, the 17th of April**



**18:00- 19:30 CET**

**Moderators**

**Prof. Amal Amin - Dr. Almas Taj Awan**

**Dr. Zika Eleni**

*Head of Scientific Impact and Feedback to Policy, Belgium*

**Prof. Atish Dabholkar**

*Director of ICTP, International Center for Theoretical Physics, Italy*

**Lubna Dajani**

*Co-Chair USA - Catalyst 2030 and Founder/ Managing Director of. Allternet Ltd, US*

**Dr. Anna Luise**

*Associated Research Director ISPRA – Italian Institute for Environmental Protection and Research, Italy*

**Nabil Aziz Ksibi**

*Co-Founder Africa PID Alliance, Kenya*

**Barbara Glover**

*African Union Development Agency-NEPAD, South Africa*