

1st International Conference of Women in Science

Women in Science Without Borders (WISWB, 21-23 March)

Under Auspices of Egyptian Academy for Scientific Research and Technology (ASRT) and the Egyptian Young Academy for Sciences (EYAS)

Program

Tuesday, March 21 st , 2017		Venue: Hilton Ramses
8:00-9:30	Registration	
9:30-10:00	Opening Ceremony	
10:00-12:00	Opening Plenary Session	
<p>Chairpersons: Prof. Dr. Hassan Azzazy-Cofounder of D-Kimia-LLC for innovative diagnostic solutions-AUC-Egypt</p> <p>Prof. Dr. Amal Amin- National Research Center, Advisory board member of EYAS-Chair of the WISWB- Egypt</p>		
<p>Dr. Hayat Cindy Entrepreneur, I2 Founder and President, Diagnostics for All, Member of Scientific advisory Board of the UN, Saudi Arabia</p>		Role of Science in the Islamic World
<p>Prof. Dr. Quarraisha Abdool Karim Infectious Diseases Epidemiologist and Associate Scientific Director of CAPRISA (L`Oreal Recipient 2014)-South Africa</p>		Preventing HIV Infection in Young Women in Africa
<p>Dr. Rana Dajani Member of UN women Jordan advisory council and one of the most influential women scientists in the Islamic and Arab world, Jordan.</p>		Genetic Risk Factors for Diabetes in Ethnic Populations
<p>Dr. Charon Duermeijer Senior Director, Academic Customer Engagement, Research Solutions, Elsevier, Netherlands</p>		Addressing Gender in Scientific Publishing
12:00-12:30	Break	
12:30-2:30	Parallel sessions	

**WISWB Track I
(Biology-Medicine-Pharmacy)
Session 1**

**Cochairs: Prof. Dr. Hayat Cindy-UN Scientific Advisory Board Member-Saudi Arabia
Prof. Dr. Mohamed Farag- Professor at faculty of pharmacy-Cairo University-Egypt, advisory board member of EYAS**

Prof. Dr. Nadia I. Zakhary Professor of Medical Biochemistry, National Cancer Institute, Cairo University Former Minister of Scientific Research-Egypt	Application of Molecular Biology for Breast Cancer Diagnosis, Prognosis and Treatment
Prof. Dr. Hassan Azzazy Professor of chemistry at the American University in Cairo (AUC) Cofounder of D-Kimia-LLC for innovative diagnostic solutions-AUC- Egypt	Converting BioNanotech Research Data into Medical Products: The Tales of Two Startups
Prof. Dr. Bo Yu Deputy Director CAS-TWAS Centre of Excellence for Biotechnology-China	Microbial Synthesis of High-Value Plant Secondary Products: Bio-Resource Mining and Protein Engineering
Dr. Patricia Zancan Associate Professor- Faculty of Pharmacy, Federal University of Rio de Janeiro (UFRJ), Brazil, Co-Chair of the TWAS Young Affiliates Network (TYAN)	Tumor Biology: Targets and Drugs.
Dr. Rym Kefi Associate Professor, Institute of Pasteur of Tunisia, Team leader in the Laboratory of Biomedical Genomics and Oncogenetics, Tunisia.	DNA Typing for Genetic Diseases Investigation and Human Identification: Role of Women Scientists
Dr. Smita C. Pawar Assistant Professor, Department of Genetics & Biotechnology Osmania University, Hyderabad ,India	Cloning and Evaluation of NC1a6 and its Partial Peptides (N-ter and C-ter) Role in Tumor Angiogenesis
Dr. Ejidike Peter Postdoctoral Candidate at Vaal University of Technology, Faculty of Computer and Applied Sciences, South Africa	In vitro Antioxidant and Anticancer Studies of Heterocyclic Schiff Base Ruthenium (III) Complexes: Synthesis and Characterization

**WISWB Track II
(Materials-Engineering-Energy)
Session 1**

Cochairs: Prof. Dr. Ahmed Radwan, Director of Nanoelectronics Integrated Systems Center, Nile university, Egypt, EYAS member

Prof. Dr. Sherein Elagroudy , Director of Solid Waste Management Center, Ain Shams University, Egypt, Advisory board member of EYAS	
Prof. Dr. Ehab Abdel-Rahman Interim Provost of American University in Cairo (AUC), Professor at the Department of Physics-the American University in Cairo, Egypt	Thermoacoustic Engines and Refrigerators
Dr. Chong Kok-Keong Professor at University Tunku Abdul Rahman, Malaysia	Research and Development of Solar Energy in Developing Countries
Prof. Ahmed Abd El-Moneim Professor of Materials Science and Engineering, Egypt-Japan University of Science and Technology, Egypt	Planar and Vertically Aligned Grapheme for Future Energy Storage Application
Dr. Muhammad Akhyar Farrukh Associate Professor, Founding Director Of Nano-Chemistry Laboratory, GC University Lahore-Pakistan	Nanotechnology:a New Paradigm for Integrating Scientists Across Disciplines Towards Sustainable Development
Prof. Dr. Nageh Allam Director of the Energy Materials Laboratory at the American University in Cairo-Egypt	Earth-Abundant Nanostructured Materials for Efficient Solar Energy Conversion
Prof. Dr. Razika ZAIR TALA-IGHIL Associate Professor at Institute of Electronic & Electrical Engineering University M'hamed Bougara Boumerdes, Algeria	Nanotechnology for clean Environment and Renewable Energy
Prof. Dr. Ahmed Saad Director of Center for Environmental and Smart Technology, Fayoum University-Egypt	High Performance and stimuli-responsive Patterned Water Desalination Membranes
2:30-3:30	Break
3:30-4:30	Open Session for All Participants

WISWB Track III

[Gender Issues-Sustainable Development-Innovation]

Session 1

Cochairs: Prof. Dr. Rana Dajani, UN Women Jordan advisory board member- Jordan

Prof. Dr. Abu Elnasr Sobeih-Associate Professor at Faculty of Tourism, Helwan University- Egypt, EYAS member

Dr. Daniel Nyanganyura Regional Director of the International Council for Science (ICSU), Regional Office for Africa (ROA)-South Africa	Perspectives and Challenges of Women in Science in Africa – The Role of ICSU and its Regional Office for Africa
Dr. Evelyn Namubiru-Mwaura Strategy and Policy Manager at African Academy for sciences (AAS)- Kenya	Reducing the Gender Gap: Women in Science in Africa
Dr. Sharifah Maimunah Syed Zin FASc Director of the International Science, Technology and Innovation Centre for South-South Cooperation (ISTIC)-Malaysia	"Elevating STI Women Up the Executive Ladder"
Ms. Jana El Baba Program Specialist for Social and Human Sciences at the United Nations Educational, Scientific and Cultural Organization (UNESCO), Cairo Office	Role of UNESCO in promoting women in science

4:30-6:30

Students` Activities/competition Session

Cochairs

Prof. Dr. Bahaa El-Gendy-Professor of Bio-Organic Chemistry, Benha University, EYAS Co-Chair and competition coordinator

Prof. Dr. Mohamed Farag, Professor at Faculty of Pharmacy, Cairo University, EYAS advisory board member

Dr. Merit Rostom-Manager of SNG-ASRT-WISWB coordinator

(With the members of the scientific board and the audience)

Wednesday, March 22nd, 2017
Venue: Academy of Scientific Research & Technology (ASRT)

9:00-10:30	Elsevier Author Seminar –moderated by Elsevier and WISWB staff Dr. Charon Duermeijer Senior Director, Academic Customer Engagement, Research Solutions, Elsevier	
10.30-11.00	Break	
11:0-1:15	Parallel sessions	
WISWB Track I (Medicine-Biology-Pharmacy) Session 2 Chairpersons: Prof. Dr. Quarraisha Abdool Karim-Associate Director of CAPRISA-South Africa Prof. Dr. Bo Yu, Deputy Director, CAS-TWAS Centre of Excellence for Biotechnology, China		
Dr. Maria Augusta Arruda Cell Signaling Research Group at the University of Nottingham, UK	Transatlantic Collaboration in Drug Discovery: Soft Power in a Hard Science World	
Dr. Shamsun Nahar Khan Associate Professor and Chair, Department of Pharmacy, East West University, Dhaka, Bangladesh	Excitement in Chemical and Biological Sciences: Drug Discovery and Development	
Prof. Dr. Mohamed Farag Professor , Faculty of Pharmacy, Cairo University, Egypt Alexander von Humboldt Fellow, EYAS advisory board member.	Metabolomics gateway for milestone discoveries in the post genomic era	
Dr. Mahmoud Elsabahy Director of the Assiut International Center of Nanomedicine- Assiut University, Egypt, EYAS member	Towards Successful Development of Pharmaceutical Industry in Egypt	
Dr. Amani Elfeki Associate Professor, Department of Anatomy, Faculty of Medicine, National University, Khartoum, Sudan	Recent diagnosis of schizophrenia depending on the abnormality of subcortical structures	
Dr. Wegdan Mohammed Mustafa Assistant Professor, Anatomy Department, National University-Sudan	A New Approach for the Quantitative Evaluation of the Frontal Lobe Structures Depending on Age and Sex	
Dr. Fatimah S. Alhamlan Scientist & Assistant Professor, department of Infection and Immunity, King Faisal Specialist Hospital, Alfaisal University, Riyadh, Saudi Arabia	Women in Science, Are we there yet?	

Dr. Kodali Vijayanthimala Director in S.N.C for Women Studies	Diabetes and its control –Role of Diet and exercise
WISWB Track II (Materials-Engineering-Energy) Session 2 Chairpersons: Prof. Dr. Muhammad Akhyar Farrukh-founding director of nanochemistry lab., GC University-Pakistan Prof. Dr. Bahaa El-Gendy, Professor of Bio-Organic Chemistry, Benha University (EYAS Co-Chair)	
Prof. Dr. Salma M. Z. Al-Kindy The Dean of the College of Science, and a Professor of Analytical Chemistry at Department of Chemistry, Sultan Qaboos University (SQU)	Miniaturized "Green" analytical systems and nanostructured materials for environmental remediation
Prof. Dr. Tarek M. Madkour Professor of Physical Chemistry, Department of Chemistry, American University in Cairo	Development of biodegradable nanoporous polymeric membranes for removal of suspended micro-contaminants from industrial wastewater
Dr. Tabassum Mumtaz Principal Scientific officer at Bangladesh Atomic Energy Commission (BAEC)-Bangladesh.	Biodegradable Plastic Research Initiatives in Bangladesh: Primary Isolation and Screening of Polyhydroxybutyrate (PHB) Producing Bacteria from Compost Samples
Dr. Sonali Das Principal Researcher, Advanced Mathematical Modelling Competence Area, CSIR Modeling and Digital Science, Pretoria, South Africa	Quantifying human gait measurements using novel statistical approach
Prof. Dr. Yehia Abdel-Aziz Professor of Space Flight Dynamics and Control at Space Research Laboratory, NRIAG, Egypt	Spacecraft Environments interactions Engineering
Dr. Ojokoh Bolanle Adefowo Senior Lecturer, Industrial Mathematics and Computer Science Department of the Federal University of Technology, Akure (FUTA), Nigeria	A Trigram Hidden Markov Model for Metadata Extraction from heterogeneous references
Dr. Mary Ajimegoh Awotunde	Pre-strain Effects on Fracture behavior of Steel used for

Lecturer II, Mechanical Engineering Department, University of Benin-Nigeria	Car Manufacture
WISWB Track IV	
(Food Technology – Agriculture-Veterinary Medicine)	
Session 1	
Cochairs: Prof. Dr. Ahmed Mohamed Magdy Gabr-Associate professor of plant biotechnology-NRC-Egypt	
Dr. Tonnang Zefack Henri-- International Maize and Improvement Centre (CIMMYT)-Kenya	
Dr. Eqbal M. A. Dauqan Assistant Professor, Visiting Scholar in UKM, Malaysia	Red Palm Oil and other Vegetable Oils for Human Health
Dr. Nisa Rachmania Mubarik Lecturer of Microbiology, Department of Biology, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Bogor, Indonesia	Potential Bacteria as Biological Control and Biological Fertilizer Used in Agricultural Applications
Dr. Shalini S. Arya Assistant Professor at Food Engineering and Technology Department, Institute of Chemical Technology, University of Mumbai, India	Nutritional Evaluation of Probiotic Functional Multigrain Beverage
Dr. Vidushi Neergheen-Bhujun Senior Lecturer, Department of Health Sciences, Faculty of Science, University of Mauritius, Mauritius	Can Non-Communicable Diseases Be Prevented: Role of Functional Food
Prof. Dr. Zakaria Fouad Fawzy Professor - Agriculture and Biological Research Division - National Research Centre – Egypt	Empowering Women through Climate Smart Agriculture System in Egypt and China
Dr. Motha Satya Vani Technical Officer 'A', Indian Council of Medical Research, National Institute of Nutrition, Hyderabad-India	The Spontaneous Tumor Development in Sprague Dawley/NIN Hairless Mutant Rat
Dr. A. Sabitha Rani Head of the Department of Botany, Osmania University College for Women (OUCW), Koti, Hyderabad-India	Plant Tissue Culture Technology for the Improvement of Medicinal Plants
Track V	
(Environment)	

Session 1

Cochairs: Prof. Dr. Rabab Elsherif, Professor of Physical Chemistry, Cairo University, Egypt, EYAS cochair

Prof. Dr. Chong Kok-Keong, Professor at Tunku Abdul Rahman University, Malaysia

Dr. Mimi Haryani Hassim Senior Lecturer of Chemical Engineering at the Universiti Teknologi Malaysia (UTM)-Malaysia	Innovative Approaches to Estimate Fugitive Emission Rates and Occupational Air Concentrations during the Chemical Process Design Phase
Prof. Dr. Sherien Elagroudy Associate Professor of Environmental Engineering, Ain Shams University, Founding Director of the Solid Waste Management Center, Egypt.	Municipal Solid Waste Management and Green Economy
Dr. Nova Ahmed Associate Professor at School of Engineering & Physical Sciences-North South University (computer science). Bangladesh	Research Project and Success Stories: Shonabondhu, A Solution to handle Flash Flood
Prof. Dr. Nour El-Gendy Professor and Head Manager of Petroleum Biotechnology Lab., Egyptian Petroleum Research Institute (EPRI), Egypt	Applications of Different Agro-Industrial Wastes in Petroleum Biotechnology
Prof. Dr. Oum Kalthoum Ben Hassine Professor of Biology at University of Tunis-El-Manar, Tunisia.	Biological Variables in Fishes for Monitoring Lagoon Pollution
Prof. Dr. Sherine Ahmed El Baradei Assistant Professor at Construction Engineering Department-AUC- Egypt	Global Warming and Its Effects On Water Quality of the Nile River in Egypt
Prof. Dr. Suzan Kholeif Prof. of Marine Environment, National Institute of Oceanography and Fisheries, Alexandria, Egypt	The Role of Women in Water Resources Management and Sustainable Development

1:15-2:00

Lunch/Poster Session

2:00-4:00

Open Session for All WISWB Participants

WISWB Track III

[Gender Issues-Sustainable Development-Innovation]

Session 2

Cochairs: Dr. Sharifah Maimunah Syed Zin-Director of ISTIC-Malaysia Prof. Dr. Tyseer Abouelnassr, Nile University, Egypt	
Dr. Abdeslam Badre Associate professor at Mohammed V University of Rabat-Morocco	Gender in Science: Remaining Challenges from Education to Profession Transition in MENA Region
Dr. Tonnang Zefack Henri Geo-spatial/ Data scientist – International Maize and Improvement Centre (CIMMYT)-Kenya	Inter/ Trans/ Multi/ - disciplinary Research to Improve Health and Food Security: shifting from Capacity Building to Competence Development in Africa
Prof. Dr. Vijaya Khader Former Dean, Acharya .N. G. Agricultural University, India	Intervention of viable technologies for food, health, livelihood and nutrition security
Prof.Dr. Sarah Kamala Professor at Department of Extension Education and Communication Management, Jayashankar Telangana State Agricultural University-India	Women and the Sustainable Development Goals (SDGs)- The Role of Self Help Groups (SGHs)
Ms. Nageen Ainuddin Director of Pakistan Scientific & Technological Information Center (PASTIC)-Islamabad-Pakistan	Gender Gap in STEM- Pakistan as case study
Dr. Sachiko Hirata-Mogi Member of IdeaLab Inc., Tokyo, Japan, Teaching Psychology of Learning and Language In Meiji-Gakuin University and Senshu University, Japan	Analysis of Language as a Typical National Characteristic Feature: Japan as Case Study
Prof.Dr. Hamdy Atef Professor Emeritus of Water Resources Management, CIHEAM/Mediterranean Agronomic Institute, Bari, Italy	Science and Technology for Development: Closing the Gender Gap
4:00-6:00 Students` Activities/ competition Session Cochairs: Prof. Dr. Bahaa El-Gendy-Professor of Bio-Organic Chemistry, EYAS Co-Chair and competition coordinator Prof. Dr. Sameh Sorrow, Head of Biochemistry and Biotechnology Department, Helwan University Prof. Dr. Mahmoud ElSabahy, Director of Assiut International Center for Nanomedicine. Prof. Dr. Rabab ElSherif, Professor of Physical Chemistry at Cairo University (EYAS cochair) (With the members of the scientific board and the audience)	

Thursday, March 23rd, 2017

Venue: Academy of Scientific Research & Technology (ASRT)

9:30-10:30 Innovation session

Cochairs: Prof. Dr. Amal Amin- Advisory Board Member of EYAS-Chair of the WISWB Conference

Prof. Dr. Hamdy Atef, Professor of Water Resources Management, CIHEAM/Mediterranean Agronomic Institute, Italy

Dr. Tyseer Aboulnasr visiting professor at Nile University Cairo, Egypt	The What, Why, Who and How of Innovation
Dr. Abdalla Alnajjar President of ASTF (Arab Science and Technology Foundation)	From the Bench to the Market; Identify the Opportunity from the Challenge
Dr. Ghada Amer Vice President of ASTF	From the Bench to the Market; Identify the Opportunity from the Challenge
10:30-11:00	Break
11:00-1:15	Parallel Sessions
WISWB Track I (Biology-Medicine-Pharmacy) Session 3	
Cochairs: Prof. Dr. Gina Elfeky-pharmacy program leader-Faculty of pharmacy- MSA-Egypt Prof. Dr. Sameh Sorrow-Head of Biochemistry and molecular biology department-Helwan University	
Dr. Hoda Yousry Abdallah Ibrahim Lecturer of Medical Genetics and Coordinator of the Molecular Biology Unit- Faculty of Medicine, Suez Canal University-Egypt	Updates in Cancer Epigenetics
Dr. Alaa Abouelfetouh Associate Professor of Microbiology, Faculty of Pharmacy, Alexandria	Treating methicillin resistant staphylococcal infections in Alexandria, Egypt with Fusidic Acid: Where we Stand and

University-Egypt	How to Go Far?
Prof. Dr. Laila M. Montaser Professor of Clinical Pathology and Hematology, School of Medicine, Menoufia University-Egypt	How Plasma Concentrate and Stem Cells for Stem Cell- Based Tissue Engineering Could Contribute to Articular Cartilage Tissue Regeneration
Prof. Dr. Ebtehal El-Demerdash Head of Pharmacology & Toxicology Department Faculty of Pharmacy, Ain Shams University-Egypt	Successful Story of Joint Research between Ain Shams University (Egypt) and Pretoria University (South Africa)
Prof. Dr. Mohamed Salama Director of the Medical Experimental Research Center (MERC), Mansoura University-Egypt	Environment Gene Interaction in Egyptian Parkinson's Disease Patients
Dr. Lamees Hegazy CEO and Founder of Avisina Group- Egypt	In Silico Virtual Screening and Free Energy Calculations for Discovery of Anti-Zika Virus Drugs
Prof. Dr. May Talib Flayyih Professor in the Department of Biology; College of Science; University of Baghdad- Iraq	Evaluation of Virulence Factors and Vancomycin- Resistant of Multidrug Resistant Enterococcus Faecalis by Polymerase Chain Reaction (PCR) Technique
Dr. Amani Abdel Fattah Bayoumi Lecturer of Forensic & Clinical Toxicology, Faculty of Medicine, Cairo university-Egypt	Discrimination Against Egyptian Women in Certain Professional & Social Fields
WISWB Track II (Materials-Engineering-Energy) Session 3 Cochairs: Prof. Dr. Yehia Abd Elaziz-Professor at Space Research Lab, Egypt Prof. Dr. Nermine Alsayed Refaat, Professor of Polymer Chemistry, Egyptian Petroleum Research Institute, Egypt	
Prof. Dr. Usama F. Kandil Director of Polymer Nanocomposites Center, Egyptian Petroleum Research Institute (EPRI), Cairo, Egypt	Nanoparticles Toughened Epoxy for Energy Absorbing Composites
Prof. Dr. Ahmed Radwan IEEE senior Member, Director of Nanoelectronics Integrated Systems Center (NISC), Nile University, Egypt	On the Recent Simple Image Encryption Systems

Dr. Eslam Soliman Lecturer of Civil Engineering, Faculty of Engineering, Assiut University, Egypt	Development of CNTs Polymer Nanocomposites for Sustainable Infrastructures
Prof. Dr. Bahaa El-Dien M. El-Gendy Professor of Bio-Organic Chemistry, Benha University, Egypt (EYAS cochair)	Starving Cancer Cells to Death
Dr. Khulood Abid Saleh Professor of Physical Chemistry and Acting Dean of College of Science for Women, Baghdad University, Baghdad, Iraq	Economical Method to Improve the Corrosion Resistance of Metal Substrates
Prof. Dr. Rabab Elsherif Professor of Physical Chemistry, Cairo University, Egypt (EYAS cochair)	Electrochemical and Biological Behaviors of Porous Titania (TiO ₂) in Simulated Body Fluids For Implantation in Human Bodies
Tarek Y. Elrasasi	Smart Materials and the Revolution of the Human Consciousness
Radwa A.Elsalamony Associate professor at Egyptian Petroleum Research Institute (EPRI), Cairo, Egypt	Mesoporous Waste Extracted SiO ₂ -Al ₂ O ₃ Supported Ni and Ni-H ₃ PW ₁₂ O ₄₀ Catalyst for Photo-degradation of Methyl Orange Dye under UV irradiation
1:15-2.00	Lunch/Poster Session
2:00– 5:00 Students` Activities Session Cochairs: Prof. Dr. Mohamed Salama, Director of Medical Experimental Center, Mansoura University Prof. Dr. Ahmed Radwan, Director of Nanoelectronics Integrated Systems Center, Nile University Prof. Dr. Abu Elnasr Sobeih, Associate Professor at Faculty of Tourism, Helwan University (With the members of the scientific board and the audience)	

5:00-6:00

Closing Ceremony and Students Awards