



School of Tourism and Hospitality

**UNIVERSITY OF
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SOUTH AFRICA 21-23 MARCH 2018

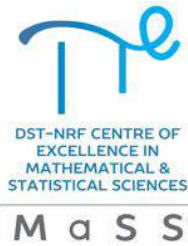


**2018 International
Women in Science Without Borders (WISWB)-Indaba**
School of Tourism and Hospitality, University of Johannesburg, South Africa



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Foreword - Chair 2018 WISWB- Indaba



The 2nd International Women in Science Without Borders (WISWB) *Indaba* brings the WISWB series from the north of the African continent where the inaugural chapter was held in Egypt in 2017, to the very south of the African continent, Johannesburg, in 2018. The WISWB conference series is strategic and topical in that it aims to highlight and emphasise the contribution of women researchers within the science, technology, engineering and mathematics (STEM) ecosystem to effect positive outcomes. Is this important to continuously explore why and how women STEM researchers are an indispensable asset, and to understand the values and richness they bring to a research environment. WISWB-Indaba is a gender-inclusive conference as researchers more often than not work in a multi-gender workplace. The overarching theme of our conference in 2018 is:

“Resilience in Diversity”.

Themes for technical talks at the conference are inherently trans-disciplinary in nature, and also cutting across a number of South Africa’s national priorities such as, though not limited to: Clean energy, Climate change, Digital revolution, Disaster management, Education and outreach, Food security, Gender studies, Health, Industrialisation, Science diplomacy, Smart cities and Water. Accepted peer-reviewed submissions will be published (electronically) after the conference under the title *“Proceedings of the 2018 International Women in Science Without Borders (WISWB) - Indaba”* with ISBN 978-0-620-78656-0. The 2018 WISWB-Indaba has also partnered with the South African Journal of Science (SAJS) to commemorate the hosting of the WISWB-Indaba in South Africa and selected full-length papers from the conference will be published in a future issue.

We extend our deep gratitude to our sponsors without whom we would not have been able to achieve our vision. Our special gratitude are also reserved for our co-host, the University of Johannesburg for partnering with us.

I take this opportunity to thank the advisory committee and the local organising committee of the 2018 WISWB conference and all our mentors who helped us in realising the task we set for ourselves.

On behalf of the organising committee, we wish you a very enriching 3-days at the conference.

Prof Sonali Das
Principal Researcher (Statistics), Council for Scientific and Industrial Research, Pretoria, South Africa
Research Associate, Nelson Mandela University,
Port Elizabeth, South Africa
Visiting Associate Professor, University of the Witwatersrand,
Johannesburg, South Africa
Chair - 2018 WISWB



Foreword - Founding Chair



Women in science without borders (WISWB) is a new potential initiative to empower women in science whether young or seniors with encouraging excellence and impact. Generally, encouraging excellence and impact will hopefully attract the attention to the achievements and concerns of females working or studying sciences. WISWB was essentially launched for establishing new healthy relation between males and females in scientific communities as main partners taking science as common template and language for mutual understanding. Consequently, that will increase the cooperation between them in order to enhance the work environment for both and strengthen the impact of scientific process whether with respect to education or research. That will strongly lead to gender diversity in favor of sustainable development. WISWB initiative includes encouraging the young female researchers and girls studying science. Also, empowering leadership for female scientists is an important

aspect to enhance their action in their workplaces which will be useful for the whole scientific community on local and international levels. All these targets can be accomplished by increasing capacity building and training programs in addition to highlighting the success stories and the share of role models. That will help to some extent in fixing the suspended problems related to case of women in science. Additionally, WISWB is a good opportunity to involve scientists, policy makers, practitioners, journalists, entrepreneurs and young generations in fruitful interactive discussions in order to reach future action related to several concerns for development and societal interests. WISWB first copy was held at Cairo under auspices of the Egyptian academy for scientific research and technology and coorganized with the Egyptian young academy. WISWB was supported by several organizations concerned in the case of women in science such as Wellcome trust, Elsevier, ICSU, EU, UNESCO, L'Oreal, AAS, GYA and other reputable organizations. The current second copy of WISWB will be held in South Africa under auspices of several reputable national and international scientific bodies. In this context, I would like to express my great gratitude and appreciation for the efforts exerted by the organizers of WISWB-South Africa specifically my friend Prof. Sonali Das and her colleagues and I wish them all the best. Their efforts in transferring the idea of WISWB to South Africa will help spreading it worldwide. Also, I would like to thank all participants whether females or males who responded to and shared in this initiative eagerly from the beginning till now. Really, all contributors and supporters for WISWB initiative make its success a reality. Finally and always, my deep thanks go to my family who is always supporting me.

Dr. Amal Amin
National research center-Cairo-Egypt
Advisory board member of Egyptian young academy
Founding Chair of WISWB



Foreword - University of Johannesburg



On behalf of our esteemed Vice Chancellor, Prof Tshilidzi Marwala, the Management Executive team and the entire UJ community, I would like to welcome you to UJ for the 2018 edition of the International Women in Science Without Borders Indaba. The number of registered attendees participating and the thought provoking titles of presentations with a wide range of topics of concern is very encouraging and a testament of the urgency in the need to meet and interact as an interest group, most especially in providing a platform for networking, panel discussions and opportunities for knowledge sharing.

The University of Johannesburg is a vibrant, multicultural and a dynamic university of choice on the African continent. Proudly South African, the university is alive down to its African roots, and well-prepared for its role in actualising the potential that higher education holds for the continent's development. The vision of the UJ is to be "an international University of choice, anchored in Africa, dynamically shaping the future". The mission is aimed at "inspiring its community to transform and serve humanity through innovation and the collaborative pursuit of knowledge" and these are underpinned by the four values of the University of Johannesburg: imagination, conversation, regeneration and ethical foundation. As a University we also believe that we are well positioned for the Fourth Industrial Revolution and cutting edge research in all relevant fields, UJ has transformed itself into a diverse, inclusive, transformational and a collegial institution and has promoted women through various initiatives such as the Women Leadership Development Programme aimed to equipping women to become outstanding leaders and contribute towards achieving the UJ Global Excellence Stature.

I hereby enjoin you all to please enjoy the conference and looking forward to many more editions to come. You are all warmly welcome to the University of Johannesburg.

Professor Esther Akinlabi
Vice-Dean: Teaching and Learning
Faculty of Engineering and the Built Environment
University of Johannesburg



Plenary Speaker: Jennifer Thomson.

Day 1 (21 March 2018)



Affiliation: University of Cape Town & Organisation for Women in Science for the Developing World (OWSD)

Bio: Jennifer Thomson (PhD Rhodes) is Emeritus Professor in the Department of Molecular and Cell Biology at the University of Cape Town. She held a post-doctoral fellowship at Harvard, was Associate Professor in Genetics at the University of the Witwatersrand, visiting scientist at MIT, and Director of the Laboratory for Molecular and Cell Biology for the CSIR, before becoming Head of the Department of Microbiology at UCT in 1988. She won the L’Oreal/UNESCO prize for Women in Science for Africa in 2004 and has an Honorary Doctorate from the Sorbonne University. Her research field is the development of genetically modified maize resistant to the African endemic maize streak virus and tolerant to drought. She has published three books on Genetically Modified Organisms: *Seeds for Africa*, *Seeds for the Future*, and *Food for Africa*, and is a frequent speaker at

international meetings, including the World Economic Forum and the United Nations. She is a member of the board (previously Chair) of the African Agricultural Technology Foundation (AATF), based in Nairobi and Vice-Chair of ISAAA (International Service for the Acquisition of AgriBiotech Applications). She serves on the National Advisory Council on Innovation of the South African Minister of Science and Technology. She is the President of the Organisation for Women in Science for the Developing World (OWSD) and chairs the South African chapter. She is a newly elected fellow of TWAS.

Talk Title: The role of OWSD (Organization for Women in Science for the Developing World) and GenderInSITE in helping more women succeed in science.

Plenary Speaker: Roseanne Diab

Day 2 (22 March 2018)



Affiliation: Executive officer, Academy of Science of South Africa (ASSAf)

Bio: Roseanne Diab is the Executive Officer of the Academy of Science of South Africa and Professor Emeritus in the School of Environmental Sciences, University of KwaZulu-Natal. She is a Fellow of the university, the South African Geographical Society, The World Academy of Sciences (TWAS) and the African Academy of Sciences (AAS). She has served on numerous international committees such as the International Ozone Commission (IOC), the Commission on Atmospheric Chemistry and Global Pollution (CACGP) and the SPARC (Stratospheric Processes and their Role in Climate) Steering Group. She is active in the Organisation for Women Scientists in the Developing World (OWSD) and co-chairs the Gender Advisory Board to TWAS.

Talk Title: Gender and Innovation



Plenary Speaker: Sithembile Bhengu

Day 2 (22 March 2018)



Affiliation: Council for Scientific and Industrial Research, South Africa

Bio: Sithembile Bhengu is a Group Executive at CSIR responsible for Human Capital. Sithembile's career spans over 17 years with a wealth of experience in strategic Human Capital leadership, training, leadership development, talent management and transformation from high-tech and knowledge intensive organisations. She has worked in industries such as aeronautics, chemicals and gas, financial services, management consulting and pharmaceuticals.

Sithembile holds a Bachelor of Social Sciences (Honours) and a Postgraduate Diploma in Human Resources Management, both from the University of South Africa (UNISA), a Leadership Development Programme qualification from Development Dimensions International (DDI) and she just completed a Master's degree in Business Leadership through the UNISA Graduate School

of Business Leadership.

Talk Title: A human capital perspective: challenges for female scientist's careers in South Africa.

Plenary Speaker: Glenda E Gray

Day 3 (23 March 2018)



Affiliation: South African Medical Research Council

Bio: Professor Glenda E. Gray - MBBCH, FCPaeds (SA), DSc (honoris causa), an NRF A rated scientist, is the President of the South African Medical Research Council. Gray, who trained as a Medical Doctor and Paediatrician at the University of the Witwatersrand, co-founded and led the Internationally renowned Perinatal HIV Research Unit, based at the Chris Hani Baragwanath Hospital in Soweto. She has expertise in mother to child transmission of HIV, HIV vaccines and microbicides. She is the Co-PI of the HIV Vaccine Trials Network and Director of the HVTN International Programs. In 2002, she was awarded the Nelson Mandela Health and Human Rights Award for pioneering work done in the field of Mother-to-Child Transmission of HIV-1. She is a member of the Academy of Science in South Africa, and chairs their standing committee on health. She is a member of the Institute of Medicine, of the National Academies, and serves on their Global Health Board. She has also been confirmed as the Chair for the Global Alliance for Chronic Diseases

(GACD). Gray has also been awarded the IAPAC "Hero of Medicine" award for work done in the field of HIV treatment in children and adults. In 2009, James McIntyre and Gray received the N'Galy-Mann lectureship in recognition of their HIV research contribution in South Africa. In June 2012 she received a DSc (honoris causa) from the Simon Fraser University, Vancouver for her work in the field of mother to child transmission of HIV. She has also been admitted into the American Academy of Microbiology in 2012. In 2013 she received the country's highest honour, the Order of Mapungubwe, granted by the



president of SA for achievements in the international area which have served South Africa's interest as well as the

EDCTP's outstanding Africa scientist award. In 2017, she was listed amongst the Times 100 influential people in the world.

Talk Title: TBA

Panel Discussion

Day 1 (21 March 2018)

Title: Gender shouldn't matter because we are all scientists here: Discussing some of the challenges faced by female scientists

Panelists:

- ❑ Nova Ahmed, Department of Electrical Engineering and Computer Science, North South University, Bangladesh
- ❑ Yoseph Getachew, Department of Economics, University of Pretoria, South Africa
- ❑ Igle Gledhill, School of Mechanical, Industrial & Aeronautical Engineering, University of the Witwatersrand, South Africa
- ❑ Maria Kanjere, Turfloop Graduate School of Leadership, University of Limpopo, South Africa
- ❑ Sibisiwe Khuluse-Makhanya, Council for Scientific and Industrial Research, South Africa



Moderator: Antoinique Van Staden, University of Pretoria



Committee

Advisory Committee

Rachel Chikwamba, CSIR
Amal Amin, National Research Center, Egypt
Mahmoud Sakr, President of Egyptian Academy
for Scientific Research and Technology, Egypt
Evelyn Namubiru-Mwaura, African Academy of
Sciences, Kenya
Caryn (Caz) McNamara, CoE-MaSS, Wits, SA
Mampho Modise, National Treasury, SA
Fulufhelo Nelwamondo, CSIR, SA
Tineke Kraaij, Nelson Mandela University, SA
Alfred Bogaers, CSIR, SA
Pinda Sufinda, CSIR, SA
Sarah Van Aardt, SACNASP, SA
Uduak Ekpenyong, Aurecon/IEEE Women in
Engineering (WiE) SA
Clinton Aigbavboa, Faculty of Engineering and
the Built Environment, Vice Dean: Postgraduate
Studies, Research and Innovation, University of
Johannesburg, SA

Organising Committee

Sonali Das, CSIR/ Wits/ Nelson Mandela
University
Jeffrey Baloyi, CSIR, SA
Michael Burke, CSIR/Wits, SA
Juanette John , CSIR, SA
Benjamin Rosman, CSIR/Wits, SA
Jaco Jansen van Rensburg, CSIR/Wits, SA
Nova Ahmed, North-South University,
Bangladesh
Chioniso Kuchwa-Dube, Wits, SA
Nyalleng Moorosi, CSIR, SA
Regina Maphanga, CSIR, SA
Nombulelo Gumede, CSIR, SA
Hassina Maori, University of Johannesburg, SA
Vhuhwavho Nemaulum, CSIR, SA
Mapitsi Rangata, CSIR, SA
Sicelukwanda Zwane, CSIR, SA
Cynthia Mapendere, University of Pretoria, SA
Cebisile Mthabela, CSIR, SA
Zimkhitha Sijovu, CSIR, SA

Breakaway (parallel) Technical Session

Information for Chair-of-session and Speakers

Chairs:

- Please arrive at your venue ahead of the start of the session and ensure that all the speakers are present.
- Ensure all speakers have uploaded their respective presentation slides onto the computer in their respective room.
- Please maintain sequence in which the speakers are ordered in the program strictly.
- In the event a speaker is absent, Chair to keep that specific slot empty, and keep to the original talk times and schedule.
- The Chair, if he/she so desires, can use the empty talk slot to have a discussion.
- Chair to ensure that each talk duration is limited to 10-12 minutes, with additional 3-5 minutes for Q&A.

Speakers:

- Please ensure you are able to locate your talk venue ahead of the start of your session.
- Please identify yourself to Chair in your session.
- Ensure your presentation slides are uploaded onto the presenting computer.
- Please limit your talk to 10-12 minutes to allow for 3-5 minutes for Q&A.



Breakaway (parallel) Technical Session

DAY 1 (March 21, 2018): Breakaway 12:00 – 13:00/13:15

Venue 1: E, DR, DM, EO	Venue 2: FS, CC, W	Venue 3: EO	Venue 4: H
Air quality exposure analysis - Data challenges, findings and recommendations from a case study in South Africa Sibusisiwe (Khuluse) Makhanya (<i>invited talk</i> - E)	Improving mass propagation of <i>Annona muricata</i> L. from stem cuttings: requirement for growth promotants and potting media. Adejoke Obajuluwa (119-FS)	Women participation in higher education especially in sciences- Case study in Sri Lanka Kshanika Hirimburgama (293-EO)	CHAIR: Targeting tumor angiogenesis via endogenous collage derived metabolite Smita Pawar (480-H)
Verifying the Integrity of Hardcopy Document Using OCR Sthembile Mthethwa (570-DR)	A Comparison of the Food Security Status and Macro-nutrient Intakes of Female-headed and Male-headed Households in Bauchi Local Government Area in Nigeria Mercy Sosanya (406-FS)	Effect of supplemental phytase on true phosphorus digestibility in cottonseed meal and rice husk-based diets in broiler chickens. Ibinabo Ilaboya (227 - EO)	Exposure to radio-frequency electromagnetic waves alters acetylcholinesterase activity and induces DNA damage in brains and exploratory and motor coordination linked behaviour of young male rats Adejoke Obajuluwa (nee Ibitayo) (623 -H)
Robots for Disaster Management Beatrice Van Eden (654-DM)	Citizen Perceptions: A trajectory on the effectiveness of prepaid water meters in Harare Tafadzwa Maramura (379-W)	Custom-made model building kits for use in undergraduate Chemistry modules. Elize Smit (554-EO)	Cardiac Safety of the Administration of Artemether-Lumefantrine Following Parenteral Quinine in Children with Severe Malaria Anaemia. Kamunhwala Gausi (440 - H)
Web developers' perspective on the accessibility of E-government Services for Persons with Disabilities in Ghana. Millicent Agangiba (549-DR)	CHAIR: Fisheries and Aquaculture Vulnerability to Climate Change. Michelle Pretorius (413-CC)	Disseminating Innovation on Dry Season Rice Farming in Remote Communities in Kwara State, Nigeria: Extension Volunteers to the Rescue. Kemi Omotesho (586-EO)	Composite "Ogi" Liquor: An effective alternative to ORS in the Management of Diarrhoea caused by <i>Escherichia coli</i> O157: H7. Tinuola Adebolu (645 - H)
CHAIR: Technology Divide among Urban Female Youth Nova Ahmed (83-EO)		CHAIR: Plain Language funding proposals for clearer communication between scientists. Antoinique Van Staden (622-EO)	Statistical Analysis On The Survival Rate Of Breast Cancer Patients. Temitope Agboola (411 - H)



Breakaway (parallel) Technical Session

DAY 2 (22 March 2018): Breakaway 12:00-13:00/13:15			
Venue 1: H	Venue 2: CE, E, FS	Venue 3: H, EO	Venue 4:
Knowledge and Awareness of Heritable Eye Disorders among Undergraduates of University of Benin. Shuaibu Ayishetu Oshoke (223 - H)	Oil Price Uncertainty and Economic Activities in South Africa Goodness Aye (75-CE)	Obsessive Compulsive Disorder among Women Living in Rural Area - A Mobile Application Pilot Study Fadwa Alhalaiqa (449 - H)	
Implementation of a pathology-supported genetic testing strategy to detect common risk factors shared between breast carcinoma and associated comorbidities Nicole Van Der Merwe (638-H)	Contribution of the UNESCO MAB Programme to Sustainable Development in South Africa Ruida Pool-Stanvliet (439 - E)	Quality assessment of Cryptolepis-based formulations in Ghana. Adelaide Mensah (490 - H)	
Comparing screening strategies for gestational diabetes in a South African population Sumaiya Adam (109-H)	Development of a Non-Derivatizing molten hydrate salt pretreatment system for South African corn cob: A preliminary investigation Olayile Ejekwu (467- CE)	Development of Oral Dissolvable Films of Diclofenac Sodium for Osteoarthritis Using Albizia and Khaya Gums as Hydrophilic Film Formers. Martina Aduenimaa Bonsu (686 - H)	
Effect of maternal exposure to biomass smoke on birth weight in Malawi. Ndifanji M. Namacha(H-284)	Discovery of Sorghum Prices in Nigeria Opeyemi Ayinde (479-FS)	The perceived benefits of attending a leadership development programme for women engineering students at a South African university Ann Lourens (168-EO)	
CHAIR: Molecular Mechanisms of Multi Drug Resistance and Its Reversal in Cancer Yusuf Baran (<i>invited talk</i> - H)	CHAIR: Drivers of energy research in OECD countries: does energy-directed R&D expenditure matter?. Roula Inglesi-Lotz (339 - CE)	CHAIR: Screening for diabetes in tuberculosis patients at enrolment and after 3-months of follow-up. Mmamapudi Kubjane (468-H)	



Breakaway (parallel) Technical Session

DAY 2 (22 March 2018): Breakaway 15:00-16:00/16:15

Venue 1: W	Venue 2: H	Venue 3: CC, EO	
Growth evaluation of the Mozambique tilapia (<i>Oreochromis mossambicus</i>) larvae and juveniles in a chronic exposure to the HIV drug nevirapine. Marie Clémentine Nibamureke (183-W)	Haemorheologic and biochemical parameters of pre-eclamptic patients in University of Calabar teaching hospital, Calabar, Nigeria. Euphoria Akwiwu (398-H)	Influence of eco-friendly control strategies on the germination of mycotoxin secreted <i>Fusarium verticillioides</i> infested maize. Oluwafolake Akinbode (614-FS)	
Adsorption of BTEX Compounds from Water Using Green-Synthesized Iron Nanoparticles. Oluwademilade Fayemiwo (371-W)	Nutritional Status of Some Pregnant Women Attending Antenatal Clinic at State Specialist Hospital, Nigeria. Mary Ajatta (660-H)	Paleoenvironmental and climatic reconstruction based on geochemical evolution of lunette dunes sediments from the western Free State Panfield, South Africa. Mulalo Rabumbulu (602-EO)	
Investigating Industrial Effluent Impacts on Municipal Wastewater Treatment Plant. Eunice Chizube Iloms (688-W)	Numerical Simulation Of Velocity And Pressure Fields For Fluid Flow Through Microtubes With Complex Geometries Rokhiya Dia (564-H)	Investigating Environmental Issues Awareness, Knowledge and Attitude towards Environmental Education among Secondary School Students in Ondo State, Nigeria. Toyin Owoyemi (675-EO)	
Poly(1,2-carboxyethylpyrrole) core-shell magnetic nanocomposites: Synthesis, characterization and magnetic separation tools for preconcentration of bacteria Thembisile Mahlangu (569-W)	Realising the potential of indigenous food in cancer control and management. Vidushi Neergheen Bhujun (384-H)	Antioxidant-rich biscuit from an underutilized crop to combat oxidative stress. Rebecca Olajumoke Obafaye (312-FS)	
CHAIR: Can the black box be cracked? High throughput sequencing to understand wastewater bioremediation. Niti Jadeja (402-W)	CHAIR: Immunological and histological assessment of the effect of gelonin and deglycosylated gelonin in rats Sandra Misquith (487-H)	CHAIR: The Five-Factor Model: An exploratory study on the personality profile of STEM students in a Nigerian University. Caroline Ofofwe (307-EO)	



Breakaway (parallel) Technical Session

DAY 3 (23 March 2018): Breakaway 10:35-12:05			
Venue 1: EO, H	Venue 2: I, DR, SC	Venue 3: CC, FS, H, DM	Venue 4: W, E, H, DM, EO
Geographical distribution and physical access to public healthcare facilities Thendo Mugwena (591- H)	A Mixture GARCH approach to Crude oil price Volatility with extensions to Financial risk modelling Mary Akinyemi (506-I)	CHAIR: Diarrhoea prevention in South Africa – the way forward. Michelle Groome (553 - H)	Statistical Analysis Of Road Traffic Accidents Fatality Using Poisson And Negative Binomial Regression Olabimpe Aladeniyi (169-DM)
Multiple drug resistance of <i>Campylobacter jejuni</i> and <i>Shigella</i> isolated from diarrhoeic children aged under five years admitted at Kapsabet County Hospital, Kenya Lizzy Mwamburi (611-H)	Utility of satellite remote sensing in monitoring environmental impacts associated with granite quarrying Refilwe Moeletsi (560-DR)	Utilization of Bambara (<i>Vigna subterranea</i> (L) Verde) nuts for Tannase Production by a novel <i>Bacillus pumilus</i> strain AJ-2 MF083685. Adesola Ajayi (383-FS)	Genetic Diversity Studies in Toxicant Stressed Populations of <i>Tilapia zillii</i> in three Nigerian Reservoirs. Tofunmi Oladimeji (226 - E)
Reclassification of early stage breast cancer into treatment groups using microarray analysis Kathleen Ann Grant (665-H)	Screening of Wild and Mutant Strains of Fungal Isolates from Plantain (<i>Musa paradisiaca</i>) Stalks for Amylase Production Oluwatoyin Olukunle (418- I)	Extended – spectrum beta lactamase mediated resistance from abattoir effluents. Obakpororo Agbagwa (288-H)	Modelling Ammonia-Nitrogen Fate and Transport in UMngeni River. Nomandla Nxusa (537- W)
Effect of iron status on age of onset in patients with multiple sclerosis Kelebogile Moremi (674- H)	Estimation of zero-rebate knock-out barrier options using antithetic Monte-Carlo simulations Nneka Umeorah (125- I)	Effect of hydrocarbon pollution on microbial diversity and implication for bioremediation Chinedu Obieze (415-CC)	
E-Inclusion of the Visually Impaired: The Case of Higher Education Institutions' Websites in Ghana. Millicent Agangiba (233-EO)	Securing smart cities by smart card and fingerprint verification Kedimotse Baruni (587-SC)	Development of Nanoemulsion as a Potential Medium for the Transdermal Delivery of Insulin and Chlorpromazine Drug Titilope Adebowale (711-H)	
CHAIR: Optimal waist circumference cut-off points for predicting metabolic syndrome among low-income black South African adults Eyitayo Owolabi (568- H)	CHAIR: Statistical Change Point Analysis of Sales and Production Volumes of Precious Metals: Univariate and Bivariate Approach Michael Ingham (370-I)		CHAIR: Vhuhwavho Nemauluma



Day 1		Day 2		Day 3	
Time		Time		Time	
07h30 - 08h30	Registration	08h30 - 08h50	Invited	08h30 - 08h50	Invited
08:45	Welcome song	08h50 - 09h10	Invited	08h50 - 09h10	Invited
09h00 - 09h30	Welcome Program Director – Juanette John Sonali Das Amal Amin Esther Akinlabi	09h10 - 09h30	Invited	09h10 - 09h30	Invited
09h30 - 10h00	Keynote Mrs Naledi Mandisa Pandor Minister of Higher Education and Training South Africa	09h30 - 10h15	Plenary	09h30 - 10h15	Invited
10h00 - 10h30	Tea	10h15 - 10h35	Tea	10h15 - 10h35	Tea
10h30 - 11h15	Plenary Jennifer Thomson - <i>The role of OWSD (Organization for Women in Science for the Developing World) and GenderINSITE in helping more women succeed in science.</i>	10h35 - 11h20	Plenary	10h35 - 12h05	Breakaway
11h10 - 11h30	Invited Igle Gledhill - <i>A Global Approach to the Gender Gap in Mathematical and Natural Sciences: How to Measure it, How to Reduce it.</i>	11h20 - 11h40	Invited	12h05 - 12h15	Closing
12h00 - 13h00	Breakaway	11h40 - 11h00	Invited	12h15	Lunch
13h00 - 14h00	Lunch	12h00 - 13h00	Breakaway		
14h00 - 14h20	Invited Ismail Akhalwaya – <i>Artificial Intelligence and Quantum Computing in Africa</i>	13h00 - 14h00	Lunch		
14h20 - 14h40	Invited J. Singh - <i>Women in Management: Our role in advancing and sustaining the STEM ecosystem.</i>	14h00 - 15h00	Workshop		
14h40 - 15h00	Invited Yoseph Getachew - <i>Share the Love: Parental Bias, Women Empowerment and Intergenerational Mobility.</i>	15h00 - 16h00	Breakaway		
15h00 - 15h20	Invited Heidi Prozesky - <i>A gender perspective on career challenges experienced by African scientists</i>				
15h20 - 16h30	Panel discussion Gender shouldn't matter because we are all scientists here: Discussing some of the challenges faced by female scientists. Moderator: Antoinique Van Staden				