



**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.

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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 - E</i> )	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 Hirimburegama (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. Kamunkhwalwa 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)



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**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)	



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

Venue 1: W	Venue 2: H	Venue 3: CC, EO	Venue 4: FS
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)	Haemorrhagic 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 Ofovwe (307-EO)	



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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, DM
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 Campylobacter jejuni and Shigella 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 (Vigna subterranea (L) Verde) nuts for Tannase Production by a novel Bacillus pumilus strain AJ-2 MF083685. Adesola Ajayi (383-FS)	Genetic Diversity Studies in Toxicant Stressed Populations of Tilapia zillii 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 (Musa paradisiaca) 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 Adebawale (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: Vuhwawho Nemauluma