## CONFERENCE PRESENTATION SCHEDULE

**CHAIR OF THE SESSION:** DR. LEWIS MTASHOBYA/MR STEPHANO H. MLOZI  
**VENUE:** ASSEMBLY HALL(AH)

<table>
<thead>
<tr>
<th>#</th>
<th>DAY 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Activity/Program</strong></td>
</tr>
<tr>
<td>2</td>
<td>Registration and Reception</td>
</tr>
<tr>
<td>3</td>
<td>BREAKFAST</td>
</tr>
<tr>
<td>4</td>
<td>Welcome Message</td>
</tr>
<tr>
<td>5</td>
<td>Welcoming Guest of Honor</td>
</tr>
<tr>
<td>6</td>
<td>DVC Research’s speech</td>
</tr>
<tr>
<td>7</td>
<td>Guest of Honor’s Speech</td>
</tr>
<tr>
<td>8</td>
<td>Keynote Speech</td>
</tr>
<tr>
<td>9</td>
<td>Movement to Presentation Venues CDF SR1 and CDF SR2</td>
</tr>
</tbody>
</table>

**CHAIR OF THE SESSION:** DR. EDSON ISHENGOMA; DR. EMANUEL D. SULUNGU  
**VENUE:** CDF SR1

### THEME 1: ADVANCES IN COMPUTATIONAL SCIENCES

<table>
<thead>
<tr>
<th>#</th>
<th>ABSTRACT’S TITLE</th>
<th>PRESENTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Harnessing nutritional benefits of spirulina platensis: standardization of cultivating conditions of spirulina in kilimanjaro</td>
<td>D. O. Nyakundi</td>
</tr>
<tr>
<td>2</td>
<td>A Mathematical Analysis of an In–Vivo Ebola Virus Transmission Dynamics Model</td>
<td>Seleman Ismail</td>
</tr>
<tr>
<td>3</td>
<td>CodSeqCP: Recovery and clustering of genomic and coding sequences from reduced-representation sequencing for population- and phylo-genomics studies</td>
<td>Edson Ishengoma</td>
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<tr>
<td>4</td>
<td>Error Detection on Chemical Abstract Service Registry Number</td>
<td>Victor Tomno</td>
</tr>
<tr>
<td>5</td>
<td>Balancing Chemical Equations using Rank and Solvability Theorem</td>
<td>R. O. Akinola</td>
</tr>
<tr>
<td>6</td>
<td>Mapping polychlorinated dibenzo-p-dioxins/dibenzofurans in soils around Pugu municipal dump site in Dar es Salaam, Tanzania</td>
<td>Christina Pius</td>
</tr>
</tbody>
</table>

**LUNCH**  
**ALL PARTICIPANTS**  
1:00–1:45 p.m.

<p>| 7 | Experimental study on oil based mudcake removal and enhancement of shear bond strength at cement-formation interface | Kevin Lichinga |
| 8 | Defluoridation by hydroxyapatite bound by locally available acacia gum in Tanzania | John Mkungu |
| 9 | Insights on Tert-butyl Alkylation Effects on Fluorobenzene | Lewis Mtashobya |
| 10 | Biological characterization of P. falciparum mitochondrial heat shock protein PfHsp70–3: Possible involvement in malaria pathogenesis | D. O. Nyakundi |
| 11 | Development of temperature prediction model for Dar es Salaam city using artificial neural network | Emanuel D. Sulungu |
| 12 | Integration of physico-chemical properties of the Msimba river water in the occurrence of blue-green algae: A focus on algal toxins | Miraji Hossein |</p>
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Presenter</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Elevating pedagogical and Subject competencies of mathematics teachers through informal online groups: A case of selected WhatsApp groups</td>
<td>Jimmy Kihwele</td>
<td>12:00-1:00 p.m.</td>
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<tr>
<td>2</td>
<td>Promoting Learners’ Multiple Intelligences in an Advanced level Secondary School Biology Class Using ICT Based Technologies</td>
<td>Ernest Simon Kira</td>
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<td>3</td>
<td>Enhancing Mathematics Teachers’ Continuous Professional Development through Informal WhatsApp Groups</td>
<td>Fred Mgata</td>
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<tr>
<td>4</td>
<td>Toward education for sustainable development: Uncovering the potentials of experiential teaching method in teacher education in Tanzania</td>
<td>Vituce Jelasy Kalungwizi</td>
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<tr>
<td>5</td>
<td>Automated prevention of bilingual obfuscated abusive words on phpbb social media forums: a case of swahili and english text</td>
<td>Geoffrey Njovangwa</td>
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<td>6</td>
<td>The exploration of the preparedness of public universities towards using electronic management systems and its effectiveness in electronic records management: A case of Sokoine University of Agriculture, Morogoro - Tanzania</td>
<td>Mujwahuzi L. S</td>
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<td>LUNCH</td>
<td>ALL</td>
<td>1:00-1:45 p.m.</td>
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<tr>
<td>7</td>
<td>Does Tanzania Biology Syllabus Engage Students into critical thinking?</td>
<td>Selina Thomas Mkimbili</td>
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<td>8</td>
<td>Influence of family background on secondary school students’ perception of science and technology in ondo, ondo state, nigeria: implications for counselling</td>
<td>M.K. Soetan</td>
<td>1:45-2:45 p.m.</td>
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<tr>
<td>9</td>
<td>African Local Languages in Generation and Transfer of Knowledge in the World of Science and Technology: Consideration of Swahili Language in Tanzania</td>
<td>Fokas Nchimbi</td>
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<tr>
<td>10</td>
<td>Swahili Literary Works and Fight against Infectious Diseases: A Case of Swahili Corona Virus Songs in Tanzania</td>
<td>Fokas Nchimbi</td>
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<tr>
<td>11</td>
<td>Do Community Based Interventions to Improve Antenatal Care through Women Groups Effective? Critical Analysis of Strategies and Impacts from the IMCHA project in Iringa Tanzania</td>
<td>Chakupewa Joseph Mpambije</td>
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<td>12</td>
<td>Technical and Technological Constraints Facing Tanzania Leather Sector: A Snapshot of Intervention Measures</td>
<td>Cecilia Rolence China</td>
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<tr>
<td>1</td>
<td>Corrosion Properties of Different Aluminium Alloys Exposed in Seawater</td>
<td>Doroth Komba</td>
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<td>2</td>
<td>Deep Eutectic Solvent based and Binary Solvent based Microwave Assisted Extraction of Lichen Dirinaria plananata</td>
<td>Misbahu Said Ahmad</td>
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<td>3</td>
<td>PDF analysis and electrochemical characterisations of biogas based mesoporous electrodes for energy storage applications</td>
<td>Talam Enock Kibona</td>
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<td>4</td>
<td>Mosquito larvicidal ent-halimane diterpene from leaves of Kotschya uguenensis</td>
<td>Baraka Samwel</td>
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<td>5</td>
<td>Antimicrobial activities of Tephrosia vogelii against selected pathogenic fungi and bacteria strains</td>
<td>Stephano Hanolo Mlozi</td>
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<td>6</td>
<td>Phytochemical Screening and In-Vitro Antimalarial Potency of Lagenaria siceraria, Ipomea asarifolia and Mucuna pruriens on Plasmodium falciparum strains at varying Concentrations</td>
<td>Adamu DM</td>
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<td>7</td>
<td>In vitro antifungal activity of isolated compounds from Parinari curatellifolia (Chrysobalanaceae) and Terminalia sericea (Combretaceae)</td>
<td>Maurice Victor Nyangabo Mbuunde</td>
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<td>8</td>
<td>Larvicidal bioactivity of crude and fractions of Kotschya strigosa leave extracts against Malaria vector, Anopheles gambiae larva</td>
<td>Innocent John Daniel</td>
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<td>9</td>
<td>A review of advances in nanomaterials sciences and nanotechnology for sustainable development</td>
<td>Gervas E. Assey</td>
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<td>10</td>
<td>Rapid CO2 gas detection by BaSnO3 nanofibers fabricated by electrospining method</td>
<td>Godlisten Shao</td>
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<td>11</td>
<td>Antimycobacterial activity of selected Tanzanian medicinal plants used for management of HIV and AIDS-related conditions</td>
<td>Alphonse Ignace</td>
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<tr>
<td>12</td>
<td>Perceived evidences, adaptation options and challenges in adapting to climate change effects in Semi-arid Areas of Bahi and Kongwa Districts, Central Tanzania</td>
<td>Helena E. Myeya</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Comparison of nutritional and anti-nutritional qualities of Grewia forbesii Hav.ex Mast and Grewia bicolor Juss fruits from Kitapilimwa Forest Deserve in Iringa District</td>
<td>Vendeline Emmanuel Tairo</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Seasonal Variation of Carabid beetles (Coleoptera: Carabidae) diversity and community composition in the Uzungwa Scarp Nature Forest Reserve, Tanzania</td>
<td>Anna N Mwambala</td>
<td></td>
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<tr>
<td>15</td>
<td>Status of Wastewater-based Drug Epidemiology in Tanzania</td>
<td>Asha S. Ripanda</td>
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<tr>
<td>16</td>
<td>Dengue Vector Distribution and their Infection Status in Selected Regions in Tanzania</td>
<td>Amina Msonga</td>
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<td>Characterization of Reversed-Phase Columns Applied to Eight Water-Soluble Vitamins Separation using RP-HPLC</td>
<td>Moshood, A. Abibu</td>
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<td>City Tour</td>
<td>Interested participants</td>
<td>4:00–6:00 p.m.</td>
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<tr>
<td>Posters Session</td>
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<tr>
<td>1</td>
<td>The impact of fuel wood use on forest cover: The case of semiarid areas in northern Tanzania</td>
<td>Debora J. Mahushi</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Challenges Faced By Regulatory Agencies In Enforcing Laws To Imported Food Products For Children Under Five Years In Dar es Saalam Region- Tanzania</td>
<td>Lily Makalanga</td>
<td></td>
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<tr>
<td>6</td>
<td>Semiochemicals and their application: Success stories and challenges towards development of sustainable approach in management of insect pests</td>
<td>Fikira Kimbokota</td>
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<tr>
<td>7</td>
<td>A Blend of Volatile Compounds Shared by Tomato, Aubergine and Sweet Pepper Attracts Female Tomato Leaf Miner, Tuta absoluta</td>
<td>Davis Msisi</td>
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<tr>
<td>8</td>
<td>Utilization of High Density Polyethylene (HDPE) Thermoplastics Composites in Engineering Applications: A review on the suitability of the mechanical properties of HDPE and their composites</td>
<td>D. A. Malyuta</td>
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<tr>
<td>9</td>
<td>Contamination and health risks of intestinal parasitic helminths associated with reused wastewater for vegetable irrigation in Mbeya, Tanzania</td>
<td>V.T. Msoffe</td>
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<tr>
<td>10</td>
<td>Assembling ‘Mkulima Agricultural Knowledge Hub’ For Up-Scaling the Adoption of Agricultural Innovations among Farmers in Tanzania</td>
<td>Philbert S. Nyinondi</td>
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<td>11</td>
<td>Government Websites for Promoting Agriculture Practices: A Content Analysis</td>
<td>Denis Ahadi</td>
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<tr>
<td>12</td>
<td>Communication of Coverage of GMO and Its Understanding among Farmers, Journalists and Scientists in Tanzania</td>
<td>Philbert S. Nyinondi</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>An assessment of African Blackwood (Dalbergia melanoxylon) Population in Kilwa Districts, Tanzania</td>
<td>Washa B. Washa</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>The diversity and distribution of arboviruses vectors of epidemiological concern in East Africa: A systematic review of entomological studies (1940-2020)</td>
<td>Anitha Philbert</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Detection of microbial surface contamination and antibiotic resistant Escherichia coli on beef carcasses in Arusha, Tanzania</td>
<td>Rehema Murutu</td>
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</tr>
<tr>
<td>17</td>
<td>Documenting existing climate change mitigation policy</td>
<td>Ladislaus</td>
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<td>18</td>
<td><strong>Water Utilities’ Improvement: The Need for Water and Energy Management Techniques and skills</strong></td>
<td>K. L. Nsolloh</td>
<td>1:45–3:45 p.m.</td>
</tr>
<tr>
<td>19</td>
<td><strong>Contextualising the pillars of household food security: Evidence from Iringa district, Tanzania</strong></td>
<td>Tiemo Romward Haule</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td><strong>Seasonality and habitat preferences of Pemba flying fox (Pteropus voeltzkowi) population in selected villages of Pemba Island: Forest connectivity restoration potential</strong></td>
<td>Happiness J. Nnko</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td><strong>Contribution of vegetable farming to livelihood outcomes among the youth in ihumwa and mtumba wards, Dodoma City, Tanzania</strong></td>
<td>Anna E. Maselle</td>
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**POSTER SESSION**

<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Speaker</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>The Effect of Refuge Prey on Stability of the Prey–Predator Model Subject to Small Immigrants: A Mathematical Modeling Approach</strong></td>
<td>Mussa Amos Stephano</td>
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<tr>
<td>2</td>
<td><strong>Inversion free iterative method for finding symmetric solution of the nonlinear matrix equation</strong> $X - A * XqA = I(q &gt; 2)$</td>
<td>Chacha Stephen Chacha</td>
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<tr>
<td>3</td>
<td><strong>GC-MS-guided determination of chemical composition and bioactivity potential of extracts of Diospyros capricornuta F. White</strong></td>
<td>Princess William</td>
<td>8:00–9:00 a.m.</td>
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<tr>
<td>4</td>
<td><strong>Assessment of Chemistry Curriculum for Colleges of Education in Nigeria for Sustainable Development</strong></td>
<td>Odutuyi, M. O.</td>
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<tr>
<td>5</td>
<td><strong>Group screening Designs: A Cost Effective Method for Screening Large Populations for Rare Infections</strong></td>
<td>Odipo Daniel Ochieng</td>
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