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| 3rd Global+A1:B153 Congress on CLIMATE CHANGE (GCCC-2023)<br>Sep 13 - 14, 2023 at Barcelona, Spain |                                                                                                                                                                                      |
| <b>SCIENTIFIC PROGRAM</b>                                                                          |                                                                                                                                                                                      |
| Day 1- September 13, 2023                                                                          |                                                                                                                                                                                      |
| Meeting Hall: Castelldefels                                                                        |                                                                                                                                                                                      |
| Moderator: Bijetri Roy, Institute for Pioneering Insightful Research & Edutech Pvt Ltd, India      |                                                                                                                                                                                      |
| 08:30-09:15                                                                                        | Welcome & Registrations                                                                                                                                                              |
| 09:15-09:30                                                                                        | Opening Remarks                                                                                                                                                                      |
| <b>KEYNOTE FORUM</b>                                                                               |                                                                                                                                                                                      |
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| 09:30-10:10                                                                                        | Water Shortage in Iraq and Climate Change<br><i>Nadhir Abbas Al-Ansari, Lulea University of Technology, Sweden</i>                                                                   |
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| 10:10-10:50                                                                                        | Globally Efficient Food Production (GEFP) - a key enabler of climate change mitigation<br><i>Shane Ward, University College Dublin, Ireland</i>                                      |
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|                                                                                                    | Group Photo                                                                                                                                                                          |
| 10:50-11:10                                                                                        | Refreshment Break @ Foyer                                                                                                                                                            |
|                                                                                                    | Theme: Sustainability and Climate Change                                                                                                                                             |
|                                                                                                    | Session Chair: Shane Ward, University College Dublin, Ireland<br>Nadhir Abbas Al-Ansari, Lulea University of Technology, Sweden                                                      |
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| 11:10-11:30                                                                                        | Climate change impacts on fish diseases: evidence from a global perspective<br><i>Ekemini Moses Okon, Ghent University, Belgium</i>                                                  |
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| 11:30-11:50                                                                                        | Lake Chad vegetation cover and surface water variations in response to rainfall fluctuations under recent climate conditions (2000–2020)<br><i>Paul Gérard GBETKOM, CNRS, France</i> |
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| 11:50-12:10                                                                                        | Climate change and major pests of Mediterranean olive orchards: are we ready to face the global heating?<br><i>Alice Caselli, Scuola Superiore Sant'Anna di Pisa, Italy</i>          |
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| 12:10-12:30                                                                                        | Rumen Microbiota and Short-Chain Fatty Acid in the Grass-Fed Angus Cattle<br><i>Jiuzhou Song, University of Maryland, USA</i>                                                        |
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| 12:30-12:50                                                                                        | The impact of climate change on the future development of wine grape cultivation in Hungary<br><i>Lakatos László, Eszterhazy Karoly Catholic University, Hungary</i>                 |
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| 12:50-13:10                                                                                        | General methodology for the analysis of cogeneration in bottoming cycle<br><i>Emerson Paulino Dos Reis, Pontifical Catholic University of Minas Gerais (PUC Minas), Peru</i>         |
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| 13:10-14:00                                                                                        | Lunch @ Restaurant                                                                                                                                                                   |

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|                                                                           | Themes: Climate and Energy Policy<br>Climate Change Adaptation                                                                                                                                                                                      |
|                                                                           | Sessoion Chairs: Andries Potgieter, Queensland University, Australia &<br>Katherine Radeka, Rapid Learning Cycles Institute, US                                                                                                                     |
| 14:00-14:20                                                               | The role of active technology acceleration in reducing GHG emissions to slow global warming<br><i>Katherine Radeka, Rapid Learning Cycles Institute, US</i>                                                                                         |
| 14:20-14:40                                                               | “Trash” Talk – A Waste Management Recipe for Social Empowerment<br><i>Shikha Bhattacharyya, reTHink, Inc, USA</i>                                                                                                                                   |
| 14:40-15:00                                                               | The optical response of a Mediterranean shrubland to climate change: approach by hyperspectral reflectance measurements.<br><i>MEVY Jean-Philippe, Aix-Marseille-University, France</i>                                                             |
| 15:00-15:20                                                               | Foresighting crop production through integrating general circulation and biophysical crop models with remote sensing at regional scales across north-eastern Australia<br><i>Andries Potgieter, Queensland University, Australia</i>                |
| 15:20-15:40                                                               | General mapping of the environmental performance in climate change mitigation of Spanish universities through a standardized carbon footprint calculation tool<br><i>Antonio Jose Guerrero Lucendo, Miguel Hernandez University of Elche, Spain</i> |
| 15:40-16:00                                                               | Climate and Energy Policy - India’s Roadmap to Net-Zero Emissions<br><i>Bijetri Roy, Institute for Pioneering Insightful Research &amp; Edutech Pvt Ltd, India</i>                                                                                  |
| 16:00-16:15                                                               | Refreshment Break @ Foyer                                                                                                                                                                                                                           |
| Young Reseacher Talks<br>on<br>Co2 , Emissions, Capture and Sequestration |                                                                                                                                                                                                                                                     |
| 16:15-16:30                                                               | Analyze data collection cycle for prediction of carbon dioxide flow in glasshouse<br><i>Na-eun Kim, Gyeongsang National University, South Korea</i>                                                                                                 |
| 16:30-16:45                                                               | Assessment of carbon dioxide absorption throughout the size of dracaena stuckyi’s leaves<br><i>Dae Yeong Kang, Gyeongsang National University, South Korea</i>                                                                                      |
| 16:45-17:00                                                               | Assessment of CO2 emissions in an experimental swine barn based on swine age, body weight and different behaviors of swine<br><i>NIBAS CHANDRA DEB, Gyeongsang National University, South Korea</i>                                                 |
| 17:00-17:15                                                               | Comparative Analysis of Machine Learning Models for Predicting Methane Emissions from Pig Manure<br><i>Jayanta Kumar Basak, Gyeongsang National University, South Korea</i>                                                                         |
| Pannel Discussions and Closing Remarks                                    |                                                                                                                                                                                                                                                     |

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| Day 2- September 14, 2023                                                                                                  |                                                                                                                                                                                                                             |
| Meeting Hall: Casteldefels                                                                                                 |                                                                                                                                                                                                                             |
| Theme: Co2 , Emissions, Capture and Sequestration                                                                          |                                                                                                                                                                                                                             |
| Session Chairs: Alec Kowalewski, Oregon State University, USA & Nicole Frantova, Mendel University in Brno, Czech Republic |                                                                                                                                                                                                                             |
| 09:00-09:20                                                                                                                | Carbon Sequestration in Turfgrass–Soil Systems<br><i>Alec Kowalewski, Oregon State University, USA</i>                                                                                                                      |
| 09:20-09:40                                                                                                                | Parasitic euendoliths mitigate the effects of global climate change on southern African rocky shores<br><i>William Froneman, Rhodes University, South Africa</i>                                                            |
| 09:40-10:00                                                                                                                | Influence of carbon fixation on the mitigation of greenhouse gas emissions from livestock activities in Italy and the achievement of carbon neutrality<br><i>De Vivo Roberto, Università di Napoli "Federico II", Italy</i> |
| 10:00-10:20                                                                                                                | The Inclusive Carbon Standard – Making carbon finance accessible to small projects<br><i>Robert Truter Louw, Promethium Carbon (Pty) Ltd, South Africa</i>                                                                  |
| 10:20-10:40                                                                                                                | Potential future changes in wildfire weather and behavior around 11 Canadian cities<br><i>Abhishek Gaur, National Research Council Canada, Canada</i>                                                                       |
| 10:40-11:00                                                                                                                | Submarine methane leakage and the role of manganese metallogenesis in methane fixation<br><i>Liping Liu, Second Institute Of Oceanography, MNR, China</i>                                                                   |
| 11:00-11:20                                                                                                                | Refreshment Break @ Foyer                                                                                                                                                                                                   |
| Technical Session-IV<br>Others                                                                                             |                                                                                                                                                                                                                             |
| Robert Truter Louw, Promethium Carbon (Pty) Ltd, South Africa                                                              |                                                                                                                                                                                                                             |
| 11:20-11:40                                                                                                                | Photoperiod sensitivity of wheat may play a more crucial role under changing climate conditions<br><i>Nicole Frantova, Mendel University in Brno, Czech Republic</i>                                                        |
| 11:40-12:00                                                                                                                | Vegetation Responses to Climate Change and Anthropogenic Activity in China, 1982 to 2018<br><i>Jie Li, Henan University, China</i>                                                                                          |
| 12:00-12:20                                                                                                                | An advanced, comprehensive thermochemical equilibrium model of a downdraft biomass gasifier<br><i>Ahmad Ibrahim, Durham University, UK</i>                                                                                  |
| 12:20-12:40                                                                                                                | Reconciling global mean and regional sea level change in projections and observations<br><i>Jinping Wang, Ocean University of China, China</i>                                                                              |
| 12:40-13:00                                                                                                                | Spatial and temporal dynamics of soil fungi and their driving factors in Baima Snow Mountain, southwestern China<br><i>Bang Feng, Kunming Institute of Botany, Chinese Academy of Sciences, China</i>                       |
| 13:00-14:00                                                                                                                | Lunch @ Restaurant                                                                                                                                                                                                          |

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| 14:00-14:20                                                                                                                    | <p>Concept and development of nanomaterial processes for SDGs – Fabrication of high-throughput innovative nanomaterials that combine low cost and high environmental performance</p> <p><i>Yamato HAYASHI, Tohoku University, Japan</i></p> |
| 14:20-14:40                                                                                                                    | <p>Footprints of COVID-19 on Pollution in Southern Spain</p> <p><i>Ana Zapatero González, Universidad Pontificia Comillas, Spain</i></p>                                                                                                    |
| 14:40-15:00                                                                                                                    | <p>Growth performance, carcass characteristics and economic viability of Nguni cattle fed diets containing graded levels of <i>Opuntia ficus-indica</i></p> <p><i>Tlou Julius Tjelele, Agricultural Research Council, south africa</i></p>  |
| 15:00-16:00                                                                                                                    | Poster Viewing and Refreshment Break @ Foyer                                                                                                                                                                                                |
| <p>Poster Presentations @ 15:00-16:00</p> <p>Poster Judges: Nadhir Abbas Al-Ansari, Lulea University of Technology, Sweden</p> |                                                                                                                                                                                                                                             |
| GCCC-P1                                                                                                                        | <p>Emissions and Control</p> <p><i>Zhiming Wang, China University of Mining and Technology, china</i></p>                                                                                                                                   |
| GCCC-P2                                                                                                                        | <p>Biodiversity and biological conservation</p> <p><i>Aziza Saud Humaid Al Aadhoobi, Sultan Qaboos University, oman</i></p>                                                                                                                 |
| GCCC-P3                                                                                                                        | <p>Photoperiod sensitivity of wheat may play a more crucial role under changing climate conditions</p> <p><i>Ivana Jovanovic, Mendel University in Brno, czech republic</i></p>                                                             |
| GCCC-P4                                                                                                                        | <p>Comparative assessment of cereal and legume intercropping systems</p> <p><i>Andreas Michalitsis, Aristotle University of Thessaloniki, greece</i></p>                                                                                    |
| GCCC-P5                                                                                                                        | <p>Evaluation of using monoculture and intercropping systems as cover crops for a sustainable vineyard management</p> <p><i>Paschalis Papakaloudis, Aristotle University of Thessaloniki, greece</i></p>                                    |
| GCCC-P6                                                                                                                        | <p>Streamflow Trends Associated with Urban Growth in the Paraiba do Sul River Basin, Brazil</p> <p><i>Debora Martins De Oliveira, Federal University of Itajubá, Brazil</i></p>                                                             |
| GCCC-P7                                                                                                                        | <p>Land Use Land Cover Change in Nandurbar District, Maharashtra, India, and the Local Adaptation Strategies to address Climate Change</p> <p><i>Himanshu Kumar, Indian Institute of Technology, Delhi, India</i></p>                       |
| GCCC-P8                                                                                                                        | <p>The effect of Atmospheric Boundary Layer Meteorology in climate-related gases</p> <p><i>Thomas Maggos, NCSR DEMOKRITOS, Greece</i></p>                                                                                                   |
| GCCC-P9                                                                                                                        | Slot available                                                                                                                                                                                                                              |
| GCCC-P10                                                                                                                       | Slot available                                                                                                                                                                                                                              |
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| Pannel Discussions and Closing Remarks                                                                                         |                                                                                                                                                                                                                                             |