



2nd International Conference on Climate Change - 2018

“Climate change and global sustainability: Action for bridging the gap”

15th -16th February 2018, Colombo, Sri Lanka.

TECHNICAL PROGRAM

DAY 01 - THURSDAY, 15TH FEBRUARY, 2018

INAUGURATION SESSION

Thursday, 15th February 2018 | 08.00 to 10.15 | (Samudra Ballroom)

08.00 – 09.00	Conference Registration
09.00 – 09.10	Lighting of the Oil Lamp and National Anthem
09.10 – 09.20	Welcome Address by the Conference Convener Mr. Isanka P. Gamage (<i>Co-Founder & Managing Director - The International Institute of Knowledge Management (TIKM), Sri Lanka</i>)
09.20 – 09.40	Speech by the Conference Chair (<i>Dr. Erandathie (Erandi) Lokupitiya, Senior Lecturer, Department of Zoology and Environment Sciences, University of Colombo, Sri Lanka</i>)
09.40 – 09.50	Speech by the Hosting Partner (<i>Prof. Lakshman Dissanayake, Vice-Chancellor, University of Colombo, Sri Lanka</i>)
09.50 – 10.00	Speech by the Ministry (<i>Dr. R. D.S Jayathunge, Director, Climate Change Secretariat, Ministry of Mahaweli Development and Environment, Sri Lanka</i>)
10.00 – 10.10	Speech by the Colombo Plan
10.10 – 10.15	Web Launch/Video Launch
10.15 – 10.25	Conference Photograph
10.25 – 10.40	Morning Refreshments

KEYNOTE FORUM

Thursday, 15th February 2018 | 10.40 to 11.20 | (Samudra Ballroom)

10.40 – 11.20	“The Interaction Between Arctic Permafrost and Global Climate” Dr. Kevin Schaefer (<i>National Snow and Ice Data Center, University of Colorado, USA</i>)
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TECHNICAL SESSION 01: CLIMATE PREDICTION: MODELING AND DETECTION OF RECENT AND FUTURE CLIMATE CHANGE

Thursday, 15th February 2018 | 11.20 to 13.20 | (Samudra Ballroom)

Chaired by Dr. Salut Muhidin (*University of Dhaka, Bangladesh*)

11.20 – 11.40	A1	Climate Extremes and Precipitation Trends in Kelani River Basin, Sri Lanka and Impact on Streamflow Variability under Climate Change K.D.C.R. Dissanayaka ¹ , R.L.H.L. Rajapakse ² (¹ <i>Water Management Secretariat Office, Mahaweli Authority of Sri Lanka</i> ² <i>University of Moratuwa, Sri Lanka</i>)
11.40 – 12.00	A2	Forecasting Average Temperature and Precipitation and Its Impact on Drought Conditions in China Imran Khan ¹ , Lei Hong Dou ¹ , Arif Ullah ¹ , Minjuan Zhao ¹ (¹ <i>Northwest A&F University, China</i>)

12.00 – 12.20	A3	Identifying Changes in Rainfall Distribution using Standardized Precipitation Index (SPI): An Application in Uva Province Sri Lanka Jeewanthi P.W. ¹ , Wijesuriya W. ² , Amarakoon A.M.C. ¹ (¹ <i>Uva Wellassa University, Sri Lanka</i> , ² <i>Rubber Research Institute of Sri Lanka, Sri Lanka</i>)
12.20 – 12.40	A4	Historical and Projected Variability in Monsoon Onset and Withdrawal over South Asia using Nasa-Nex Ensemble: Implications for Agriculture Carlo Montes ¹ , Mathew A. Stiller-Reeve ^{2,3} , Ghulam Hussain ¹ , Simon Mason ⁴ and Timothy J. Krupnik ¹ (¹ <i>International Maize and Wheat Improvement Center (CIMMYT) – Climate Services for Resilient Development (CSRD) in South Asia, Bangladesh</i> , ² <i>Uni Research Climate, Uni Research, Bergen, Norway</i> , ³ <i>Bjerknes Centre for Climate Research, Norway</i> , ⁴ <i>International Research Institute for Climate and Society, The Earth Institute of Columbia University, USA</i>)
12.40 – 13.00	A5	Land Use Land Cover Change Mapping and Analysis using Remote Sensing and GIS: A Case Study of Chilika-Puri Coast, India Punya Murthy Khristodas ¹ , K. Palanivelu ¹ , A. Ramachandran ¹ (¹ <i>Anna University, India</i>).
13.00 – 13.20	A6	Risk Based Assessment of Structures Subjected to Environmental Actions in a Changing Climate Dimitrios Diamantidis (<i>Ostbayerische Technische Hochschule, Regensburg, Germany</i>)

TECHNICAL SESSION 02: CLIMATE CHANGE, ADAPTATION, MITIGATION AND SUSTAINABLE DEVELOPMENT

Thursday, 15th February 2018 | 11.20 to 13.40 | (Gregory)

Chaired by Prof. Ashfaque Ahmed (*University of Dhaka, Bangladesh*)

11.20 – 11.40	B1	Potential for Climate Change Mitigation through Low-Carbon Rail Transport in India Pali P (<i>University of Manchester, England</i>)
11.40 – 12.00	B2	Climate Change Mitigation through Organic and Inorganic Fertilization and Carbon Sequestration in Soil of Bangladesh M.A. Alam ¹ , M.M. Rahman ¹ , M.M.U. Miah ¹ , S. Akhter ² , J.C. Biswas ³ , M. Maniruzzaman ³ , A.K. Chowdhury ² , F. Ahmed ² , M.A. Mannan ¹ and H.K. Shiragi ¹ (¹ <i>Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh</i> , ² <i>Bangladesh Agricultural Research Institute, Bangladesh</i> , ³ <i>Bangladesh Rice Research Institute, Bangladesh</i>)
12.00 – 12.20	B3	Building Climate Change Resiliency through Partnerships: A Framework for Strategic Cross Sector Collaborations A. Pairis ¹ , U. Abeysekera ¹ (¹ <i>Climate Science Alliance – South Coast, USA</i>)
12.20 – 12.40	B4	Photosynthetic Biomass in Forest Plantations and Its Role in Climate Change Mitigation Bandara W.A.R.T.W ¹ , Senanayake F.R ¹ , Tharaka L.K.D.N ¹ (¹ <i>University of Kelaniya, Sri Lanka</i>)

12.40 – 13.00	B5	Impact of Conversion of Grassland to Plantation Forests on Soil Microorganisms and Soil Organic Carbon Premetilake, M.M.S.N ¹ , Ratnayake, R.R. ² , Kulasoorya, S.A. ² , Perera, G.A.D. ³ (¹ Uva Wellassa University, Sri Lanka, ² National Institute of Fundamental Studies, Sri Lanka, ³ University of Peradeniya, Sri Lanka)
13.00 – 13.20	B6	Impact of the Establishment of Botanical Garden on Soil Carbon Content in Dry Zone of Sri Lanka P.W.D. Chamari ² , R.P.S.K. Rajapaksha ¹ , K.L.W. Kumara ² , R.R. Ratnayake ¹ (¹ National Institute of Fundamental Studies, Sri Lanka, ² University of Ruhuna, Sri Lanka)
13.20 – 13.40	B7	Assessment of Plant Structure and Composition in Dhaka: A Rapidly Developed Urban City of Bangladesh Md. Shahariar Jaman ¹ , Ishrat Jahan ¹ , Mahbuba Jamil ³ , Md. Forhad Hossain ¹ (¹ Sher-e-Bangla Agricultural University, Bangladesh, ³ Government of People’s Republic of Bangladesh, Bangladesh)

TECHNICAL SESSION 03: CLIMATE CHANGE AND AGRICULTURE

Thursday, 15th February 2018 | 11.20 to 13.20 | (Regency)

Chaired by Dr. Bijoy Nandan (*School of Marine Sciences Cochin University of Science and Technology, India*)

11.20 – 11.40	C1	Impacts of Climate Change on Changing Water Resources and Agro-Ecological Zones in the Coastal Plain of the Mekong Delta, Vietnam Hong Minh Hoang ¹ , Tran Thi Ngoc Bich ^{1,3} , Van Pham Dang Tri ² , Yi-Ching Chen ³ , Nguyen Thanh Quan ² , Nguyen Duc Tai ² (¹ Tra Vinh University, Vietnam, ² Can Tho University, Vietnam, ³ Da-Yeh University, Taiwan)
11.40 – 12.00	C2	Carbon Footprint of Canned Pineapple Monthira Yuttitham ¹ , Jiraporn Boonmark ¹ (¹ Mahidol University, Thailand)
12.00 – 12.20	C3	Impacts of Climate Change on Paddy Yields and Fate of Rice Residues in Different Climatic Zones of Sri Lanka E. A. S. K. Somarathne ¹ , E. Lokupitiya ¹ (¹ University of Colombo, Sri Lanka)
12.20 – 12.40	C4	Assessment of Climatic Variability and Its Probable Impacts on Major Crops in Bangladesh M. R. A. Hawladar ¹ , M. M. U. Miah ¹ , M. M. Rahman ¹ , M. A. Aziz ² , J. C. Biswas ³ , S. Akter ² , A. K. Chowdhury ² , F. Ahmad ² , M. Maniruzzaman ³ and N. Kalra ⁴ (¹ Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh, ² Bangladesh Agricultural Research Institute, Bangladesh, ³ Bangladesh Rice Research Institute, Bangladesh, ⁴ Indian Agricultural research Institute, India)
12.40 – 13.00	C5	Impacts of Climate-Resilient and Eco-Friendly Crop Management Practices on Yields of a Representative Range of Crops Grown Across a Natural Temperature Gradient in Tropical South-Asia W.A.J.M. De Costa ¹ , K.M.R.D. Abhayapala ¹ , M.A.P.W.K. Malaviarachchi ² , J.B.D.A.P. Kumara ³ , R.M. Fonseka ¹ , L.D.B. Suriyagoda ¹ , D.M. De Costa ¹ (¹ University of

		<i>Peradeniya, Sri Lanka, ²Field Crops Research & Development Institute, Sri Lanka, ³Sabaragamuwa University, Sri Lanka)</i>
13.00 – 13.20	C6	Effect of Biochar on Chili Pepper Fine Root and Carbon Stock in Heavy Acid Soil Phongthep Hanpattanakita ¹ , Panapapas Kerdsaenga, Supika Vanitchung ¹ , Sukhumaporn Saeng-Ngam ¹ (¹ <i>Srinakharinwirot University, Thailand</i>)

13.20 – 14.20	Networking Lunch
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TECHNICAL SESSION 04: URBANIZATION AND CLIMATE RISK IMPLICATIONS IN COASTAL AND OTHER AREAS

Thursday, 15th February 2018 | 14.20 to 15.40 | (Gregory)

Chaired by Dr. Mery Biswas (*Presidency University, India*)

14.20 – 14.40	D1	Coastal Flood Over Sri Lanka: Exploring The Distributional Changes In Extreme Rainfall using Bayesian Non-Crossing Quantile Regression Chandrasekara S.S.K ¹ , Uranchimeg, S ¹ , Kwon, H-H ¹ (¹ <i>Chonbuk National University, Republic of Korea</i>)
14.40 – 15.00	D2	Impacts of Future Sea Level Rise on Infrastructure in Chennai, India Ayyangar Akshaya ¹ Kumara Masillamani Bhavani ¹ , Rajan ¹ , Sudhir Chella ¹ (¹ <i>Indo-German Centre for Sustainability, Indian Institute of Technology Madras, India</i>)
15.00 – 15.20	D3	Construction of Southern Expressway and Flood Impact in Matara Municipal Area H. C. M. Hewage ¹ , S.L.J. Fernando ¹ and N.M. Nishamani ¹ (¹ <i>University of Ruhuna, Sri Lanka</i>)
15.20 – 15.40	D4	The Effect of Urban Expansion on Urban Surface Temperature in Kandy City Sri Lanka: an Analysis with Landsat Imageries RJM Uduporuwa ¹ , L Manawadu ¹ , (¹ <i>Sabaragamuwa University, Sri Lanka, ²University of Colombo, Sri Lanka</i>)

TECHNICAL SESSION 05: CLIMATE CHANGE AND TECHNOLOGY

Thursday, 15th February 2018 | 14.20 to 16.00 | (Regency)

Chaired by Dr. Chaturangi Wickramaratne (*Environmental Foundation (Guarantee) Limited, Colombo, Sri Lanka*)

14.20 – 14.40	E1	The Impact of Cell-phone Towers on the Climate Change: A Legal and Policy Analysis of Bangladesh, India and Pakistan Adity Rahman Shah (<i>East West University, Bangladesh</i>)
14.40 – 15.00	E2	Vehicle Emission Tracker: A Mobile-Social Application Modal to Spot Vehicle Emission using Ringelmann Smoke Chart S.M.D.J.T. Jayatilake ¹ , Dr. A.G.T. Sugathapala ² (¹ <i>Department of Motor Traffic, Sri Lanka, ²University of Moratuwa, Sri Lanka</i>)



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15.00 – 15.20	E3	Food Preservation via Irradiation Technology to Combat with Climate Change Related Food Security I.G.N. Hewajulige ¹ , R.C. Pitipanaarachchi ¹ , D. Priyangani ¹ , D. Jayawardhana ¹ , K.V.T. Gunewardena ¹ , A.A.G. Madurakanthi ² and P. Rathnayake ² (¹ <i>Industrial Technology Institute, Sri Lanka.</i> ² <i>Sri Lanka Gamma Centre, Biyagama Export Processing Zone, Sri Lanka</i>)
15.20 – 15.40	E4	Statistical Downscaling of Grace Derived Terrestrial Water Storage (TWS) Product : Case Study For Sri Lanka Marapana M. B. M. R. D. H. B ¹ , Bandara R ¹ , (¹ <i>Sabaragamuwa University, Sri Lanka</i>)
15.40 – 16.00	E5	In what ways does Contextualization Matter in Climate Change Communication? Tobias, C. (<i>Nanyang Technological University, Singapore</i>)

16.00 – 16.15	Evening Refreshments
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ICCC FORUM

Thursday, 15th February 2018 | 16.00 to 18.00 | (Samudra Ballroom)

16.15 – 18.00	“Bridging the Gaps in Research, Policy and Industry” (<i>Climate Change and Sustainability Forum 2018</i>)
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DAY 02 – FRIDAY, 16TH FEBRUARY, 2018

TECHNICAL SESSION 06: CLIMATE CHANGE IMPACTS ON BIODIVERSITY CONSERVATION AND NATURAL RESOURCE MANAGEMENT

Friday, 16th February 2018 | 09.00 to 10.20 | (Samudra Ballroom)

Chaired by Dr. Suranjana Banerji (*Presidency University, India*)

09.00 – 09.20	F1	Future Warming Shifts Climatic Suitability of Native Himalayan Tree Species Pramod Lamsal ¹ , Lalit Kumar ¹ , Farzin Shabani ¹ , Kishor Atreya ² (¹ <i>University of New England, Australia</i> , ² <i>Asia Network for Sustainable Agriculture and Bioresources (ANSAB), Kathmandu, Nepal</i>)
09.20 – 09.40	F2	Assessment of Soil Carbon of The Mangroves in Shwethaungyan Area of the Ayeyarwady Region in Myanmar Vanniarachchy Suraj Anuradha ¹ , Aung, Hta ² , Kontny, Joacim ³ (¹ <i>Prime Carbon Co Ltd, M.Saysettha, Vientiane Capital, Lao PDR</i> , ² <i>Pathein University, Myanmar</i> , ³ <i>Worldview International Foundation, Myanmar</i>)
09.40 – 10.00	F3	Physiological Response of Two Freshwater Fish Species (<i>Rasbora daniconius</i> and <i>Dawkinsia filementosa</i>) in Sri Lanka to Selected Factors of Climate Change W.A.M.T. Weerathunga ¹ , A.M.G.K. Athapaththu ¹ , W.A.K.S.Shanaka ² , (¹ <i>University of Kelaniya, Sri Lanka</i> , ² <i>University of Kelaniya, Sri Lanka</i>)
10.00 – 10.20	F4	Forest Conservation as a Strategy to Reduce Climate Vulnerability in Sri Lanka: What to Protect and Where? Wikramanayake E.D (<i>Environmental Foundation, Ltd., Colombo, Sri Lanka</i>)

TECHNICAL SESSION 07: CLIMATE CHANGE, ADAPTATION, MITIGATION AND SUSTAINABLE DEVELOPMENT II

Friday, 16th February 2018 | 09.00 to 11.00 | (Gregory)

Chaired by Dr. Prof. Nebiye Musaoglu (*Istanbul Technical University, Turkey*)

09.00 – 09.20	B8	Conservation of Flood Flow Zone and Compact Township Development: A Case Study of Turag River and Its Adjoining Areas Md. Ashrafal Islam ¹ , Syeda Bushra Binte Amin ¹ (¹ <i>Rajdhani Unnayan Kartripakkha, Bangladesh</i>)
09.20 – 09.40	B9	Assessment of the Sustainability and the Effectiveness of the Existing Solid Waste Management Regulations and Practices in Colombo Municipality with Reference to Greenhouse Gas (GHG) Mitigation K. M. S. R. Fernando ¹ , E. Lokupitiya ¹ (¹ <i>University of Colombo, Sri Lanka</i>)
09.40 – 10.00	B10	Climate Change, Civilizational Transformation, Sustainable Development and Sri Lanka. Dhas. M.N.A (<i>The Foundation for Civilizational Transformation and Conscious Evolution, Sri Lanka</i>)
10.00 – 10.20	B11	Climate Change and Its Impact as Perceived by People of Sundarijal VDC Ritika K.C, (<i>Golden Gate International College, Nepal</i>)

10.20 – 10.40	B12	Ratio between Potential Evapotranspiration and Precipitation as a Drought Index and Its Impacts on Rubber Yield in Sri Lanka D. N Wijayarathne ¹ , E. Lokupitiya ¹ , T.U.K.Silva ² , (¹ <i>University of Colombo, Sri Lanka</i> , ² <i>Rubber Research Institute, Agalawatte, Sri Lanka</i>)
10.40-11.00	B13	Restoration of the Cascade System as a Solution to Water Scarcity in Drought Periods: A Review of The Potential in the Dry Zone of Sri Lanka Dilanjani H.U.K ¹ , Rajapkshe P.S.K ² , Sameera A.K.R ³ (^{1,2} <i>Rajarata University, Sri Lanka</i> , ³ <i>Mahawali Authority of Sri Lanka, Sri Lanka</i>)

11.00-11.15	Morning refreshments
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POSTER SESSION

Friday, 16th February 2018 | 10.20 to 11.00 | (Samudra Ballroom)

Chaired by Dr. Erandathie Lokupitiya (*University of Colombo, Sri Lanka*)

10.20 – 11.00	P1	Temperature Trend Analysis of Bhubaneswar City, India Punya Murthy Khristodas ¹ , K. Palanivelu ¹ and A. Ramachandran ¹ (¹ <i>Anna University, Chennai, India</i>)
	P2	Importance of Biodiversity and Ecosystems in Current and Future Adaptation Plans and Strategies of Sri Lanka Vanniarachchy Suraj Anuradha (<i>Prime Carbon Co Ltd, 20/217 B.Huakhuar, M.Saysettha, Vientiane Capital, Vietnam</i>)
	P3	Greenhouse Gas Exchange in Relation to Soil C and N Intensity from a Tropical Rice Paddy Differing Soil Amendments Akhilesh Vijay ¹ , S. Bijoy Nandan ¹ (¹ <i>Cochin University of Science and Technology, India</i>)
	P4	Influence of Seasons on Extreme Temperature and Rainfall in the Wet Zone of Sri Lanka G. Naveendrakumar ^{1,2} , Meththika Vithanage ³ , Sarani Meneripitiya ⁴ , J. Obeysekera ⁵ , M.C.M. Iqbal ⁶ and S. Pathmarajah ⁷ (¹ <i>University of Jaffna, Sri Lanka</i> , ² <i>University of Peradeniya, Sri Lanka</i> , ³ <i>University of Sri Jayewardenepura, Sri Lanka</i> , ⁴ <i>National Science Foundation (NSF), Sri Lanka</i> , ⁵ <i>South Florida Water Management District (SFWMD), USA</i> , ⁶ <i>National Institute of Fundamental Studies (NIFS), Sri Lanka</i> , ⁷ <i>University of Peradeniya, Sri Lanka</i>)
	P5	Signatures of Environmental Factors in Relation to Climate Change in a Model Tropical Estuarine System on the South West Coast Of India S. Bijoy Nandan ¹ , Regina Hershey N. ² , Neelima Vasu K ¹ (¹ <i>Cochin University of Science and Technology, India</i> , ² <i>N.S.S Hindu College, India</i>)
	P6	Optimizing the Effective Use of Traditional Methods over the Current Practice of Waste Management and Its Impact on Climate Change Jayanthan Amalanathan (<i>Resilient Environment Youth Network, Batticalioa, Sri Lanka</i>)
	P7	Military Threat Perception in Perspective of Climate Change Referred Pakistan

		Musarrat Jabeen ¹ , Iftikhar Khattak ¹ , Hadiqa Suhail ¹ (¹ National Defense University, Islamabad, Pakistan)
P8	Performance of Existing Green Facades as Urban Heat Island Adaptation Strategy in Hot Humid Colombo	Chameera Udawattha ¹ , Rangika Halwatura ¹ (¹ University of Moratuwa, Sri Lanka)
P9	Mangrove Tree Planting : Malaysian Experience	Murugan Nagu Pandithan (<i>Malaysian Red Crescent, Malaysia</i>)
P10	Design of Reusable, Biodegradable, Hydrophobic and Transparent Packing Material from Natural Plant Cellulose Fibers	S.Sivanujan (<i>University of Jaffna, Sri Lanka</i>)
P11	Determining The Best Agricultural Management Practices for Salt-Affected Coastal Paddy Soils in Sri Lanka Considering Net Greenhouse Gas Emission along with Other Socioeconomic Benefits	Archana A.S ¹ , Lokupitiya E ¹ , Sirisena D.N ¹ , Seneviratne G ¹ (¹ University of Colombo, Sri Lanka)
P12	Impact of University Waste Management Practices on Greenhouse Gas Emissions at Landfill Sites.	Madumi Kariyawasam ¹ and Erandathie Lokupitiya ¹ (¹ University of Colombo, Sri Lanka)
P13	Estimating Carbon Footprint of Rubber Industry in Monaragala District	W.S.S.L. Abeyrathna ¹ , S. P Nissanka ² , V H L Rodrigo ³ , E. S Munasinghe ³ (¹ Postgraduate Institute of Science, University of Colombo, Sri Lanka, ² University of Peradeniya, ³ Adaptive Research Unit, Rubber Research Institute, Agalawatta, Sri Lanka)
P14	Forecasting The Monthly Electricity Consumption in Sri Lanka using Models Incorporating Weather Related Factors	Priyadarshana A.D.AD ¹ , Lokupitiya R.S ¹ , Kuruppuarachchi D ¹ (¹ University of Sri Jayewardenepura, Sri Lanka)
P15	General Considerations For Tidal Energy Extraction	Vikas Mendi ¹ Subba Rao ¹ Jaya Kumar Seelam ² (¹ National Institute of Technology Karnataka, India, ² National Institute of Oceanography, India)
P16	Circular Economy Approach for Solid Waste Management in Sri Lanka	G.V.H.M.Pathmasiri (<i>Freelance Researcher, Sri Lanka</i>)
P17	Determination of Relationships among Chilli Leaf Curl Virus Disease Incidence, Population of Beneficial Insects and Climatic Parameters Present in Chilli Growing Areas of Different Agroecological Regions of Sri Lanka	K. Prasannath ¹ , D.M. De Costa ² , K.N.P. Dharmadasa ² (¹ Eastern University, Sri Lanka, ² University of Peradeniya, Sri Lanka)
P18	Measuring Flood Risk in Ratnapura Town Area in Sri Lanka	H.W.Y.J Hettiwaththa ¹ , R.A.B Abeygunawardana ¹ (¹ University of Colombo, Sri Lanka)

11.00-11.15	Morning refreshments
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KEYNOTE FORUM

Friday, 16th February 2018 | 11.15 to 12.00 | (Samudra Ballroom)

11.15 – 12.00	Prof. Keith Paustian (<i>Colorado State University, USA</i>)
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PUBLICATION WORKSHOP

Friday, 16th February 2018 | 12.00 to 13.00 | (Samudra Ballroom)

12.00 – 13.00	Dr. Erandathie (Erandi) Lokupitiya (<i>Senior Lecturer, Department of Zoology and Environment Sciences, University of Colombo, Sri Lanka</i>) Dr. Kevin Schaefer (<i>National Snow and Ice Data Center, University of Colorado, USA</i>)
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13.00 – 14.00	Networking Lunch
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TECHNICAL SESSION 08: CLIMATE CHANGE IMPACTS ON BIODIVERSITY CONSERVATION AND NATURAL RESOURCE MANAGEMENT II

Friday, 16th February 2018 | 14.00 to 15.20 | (Samudra Ballroom)

Chaired by Dr. Carlo Montes (*International Maize and Wheat Improvement Center (CIMMYT) – Climate Services for Resilient Development (CSR) in South Asia, Bangladesh*)

14.00 – 14.20	F5	San Diego County: The Ecological Impacts of Climate Change on a Biodiversity Hotspot D. Cayan ¹ , M. Jennings ² , J. Kalansky ¹ , A. Pairis ³ , U. Abeysekera ³ , S. Gershenov ¹ , K. Guirguis ¹ , S. Vanderplank ² , A. Syphard ⁴ , E. Stein ⁵ , D. Lawson ⁶ , R. Clemesha ¹ , J. Randal ⁷ , S. Gaughen ⁸ , R. Roy ⁹ , (¹ <i>Scripps Institution of Oceanography</i> , ² <i>San Diego State University</i> , ³ <i>Climate Science Alliance South Coast</i> , ⁴ <i>Conservation Biology Institute</i> , ⁵ <i>Southern California Coastal Water Research Project</i> , ⁶ <i>Space and Naval Warfare Systems Command</i> , ⁷ <i>The Nature Conservancy</i> , ⁸ <i>Pala Band of Mission Indians</i> , ⁹ <i>La Jolla Band of Luiseño Indians</i>)
14.20 – 14.40	F6	Soil Organic Carbon Content and Its' Effect on Available Soil Nutrients in Knuckles Conservation Forest of Sri Lanka R.P.S.K. Rajapaksha ¹ , H.M.S.P. Madawala ² , S.K. Gunathilake ³ , R.R. Ratnayake ¹ (¹ <i>National Institute of Fundamental Studies, Sri Lanka, University of Peradeniya, Sri Lanka</i> , ³ <i>Sabaragamuwa University, Sri Lanka</i> ,)
14.40 – 15.00	F7	Meiofaunal Response to Climate Change and Other Environmental Perturbations in the Arctic Fjord S. Bijoy Nandan ¹ , Jima M ¹ , Jayachandran P.R ¹ , Krishnapriya P.P ¹ , Aswathy N.K ¹ , Athira A.T ¹ , Akhilesh Vijay ¹ , K. P. Krishnan ² (¹ <i>Cochin University of Science & Technology, India</i> , ² <i>Ministry of Earth Sciences, Government of India, India</i>)
15.00 – 15.20	F8	Shoreline Change A Threat to Coastal Zone: A Case Study of Karwar, West Cost of India

		Arunkumar Yadav ¹ , B. M Dodamani ¹ , G. S Dwarakish ¹ (<i>¹Hydraulics National Institute of Technology, India</i>)
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TECHNICAL SESSION 09: CLIMATE CHANGE, ADAPTATION, MITIGATION AND SUSTAINABLE DEVELOPMENT III

Friday, 16th February 2018 | 14.00 to 15.20 | (Gregory)

Chaired by Prof. Janendra De Costa (*University of Peradeniya, Sri Lanka*)

14.00 – 14.20	B11	Carbon Neutral Energy: Producing Energy Efficient Briquettes With Invasive Species Water Hyacinth (<i>Eichornia Crassipes</i>), Wood Residues and Cow Dung to Replace Fossil Fuels Used in Small and Medium Scale Industries. W A R T W Bandara ¹ , P Kowshayini ¹ (<i>¹University of Kelaniya, Sri Lanka</i>)
14.20 – 14.40	B12	Feasibility Study on Use of Cotton Apparel Waste for the Biomass Boilers as an Energy Source Prasanga W.M.C ¹ , Wahala W.M.P.S.B ¹ (<i>¹University of Moratuwa, Sri Lanka, University of Sabaragamuwa, Sri Lanka</i>)
14.40 – 15.00	B13	A Study on the Adaptation of Global Green Standards and ISO14000 in Pakistan and Their Impact on Firm Performance Syed Raza Ullah Shah (<i>Environment, Occupational Safety and Social Compliance, Pakistan</i>)
15.00 – 15.20	B14	Financial and Environmental Overview on Solar Powered Water Pumping System for Agriculture in Sri Lanka. Bandara Rotawewa (<i>Food and Agriculture Organization – Sri Lanka</i>)

TECHNICAL SESSION 10: CLIMATE CHANGE: IMPACTS ON WATER AND SANITATION AND HEALTH IN THE DEVELOPING WORLD

Friday, 16th February 2018 | 14.00 to 15.20 | (Regency)

Chaired by Dr. Md. Mizanur Rahman (*Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh*)

14.00 – 14.20	G1	A Study of Effect of Climate Change on Resilience and Human Health Using Bio-Climatological Indicators Hamidian Pour Mohsen ¹ , Ghanbari Siroos ¹ (<i>¹University of Sistan and Baluchestan, Iran</i>)
14.20 – 14.40	G2	The Access To and Use of Healthcare Services and Vulnerabilities of Climate-Displaced People in Mainland Bangladesh Haque, MR ^{1,2} , Parr, N ² , Muhidin, S ² (<i>^{1,2}University of Dhaka, Bangladesh, ²Macquarie University, Australia</i>)
14.40 – 15.00	G3	Modelling Water Quality for Informed Policy Making in Long-Term Scenarios Under Climate Change – Prospects for Sri Lanka Wickramaratne, C. ^{1,2} , Rigosi A ² , Van der Linden, L. ³ , Brookes, J. ² (<i>¹Environmental Foundation (Guarantee) Limited, Colombo, Sri Lanka, ²University of Adelaide, Australia, ³South Australian Water Corporation, Australia</i>)
15.00 – 15.20	G4	Does Sea Level Rising Due to Climate Change have any Impact on the Central Coastal Zone of Bangladesh?

		Ashfaque Ahmed ¹ , Parveen Rashid ¹ , Sirajul Hoque ¹ (¹ University of Dhaka, Bangladesh)
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TECHNICAL SESSION 11: URBANIZATION AND CLIMATE RISK IMPLICATIONS IN COASTAL AND OTHER AREAS II

Friday, 16th February 2018 | 15.00 to 16.00 | (Samudra Ballroom)

Chaired by Dr. Carlo Montes (*International Maize and Wheat Improvement Center*

(CIMMYT) – *Climate Services for Resilient Development (CSRD) in South Asia, Bangladesh*)

15.20 – 15.40	D5	Carbon Structuring and Dissolved Greenhouse Gas Concentrations: the Fate of a Tropical Wetland (Cochin Estuarine System), India S. Bijoy Nandan ¹ , Regina Hershey N ² ., Akhilesh Vijay ² , Neelima Vasu K. ² (¹ School of Marine Sciences Cochin University of Science and Technology, India, ² N.S.S Hindu College, India)
15.40 – 16.00	D6	Impact of Urbanization on Growth of Water Hyacinth in River Tapi : A Case Study Dr. Krupesh A. Chauhan ¹ , Preety Tiwari ¹ (¹ Sardar Vallabhbhai National Institute of Technology, India)
16.00 – 16.20	D7	Semi Quantitative Analysis of Land Use Homogeneity and Spatial Distribution of Individual Ecological Footprint Banerji. S (<i>Presidency University, India</i>)

TECHNICAL SESSION 12: CLIMATE CHANGE AND AGRICULTURE III

Friday, 16th February 2018 | 15.20 to 16.00 | (Gregory)

Chaired by Dr. Md. Main Uddin Miah (*Bangabandhu Sheikh Mujibur Rahman*

Agricultural University, Gazipur, Bangladesh)

15.20 – 15.40	C10	Conservation Agriculture Enhances Crop Productivity and Soil Health in A Rice Ecosystem in Bangladesh M.M.R.Jahangir ¹ , M. Jahiruddin ¹ (¹ Bangladesh Agricultural University, Bangladesh)
15.40 – 16.00	C11	Farmers’ Perception of Climate Change in District Swabi and the Effect of Temperature on Germination and Initial Growth of Parthenium Weed Haroon Khan ¹ , Ishaq Ali Shah ¹ (¹ The University of Agriculture Peshawar- Pakistan)
16.00 – 16.20	C12	Effect of Biochar on Photosynthesis and Some Physiological Responses of Chili Pepper in Strongly Acid Soil Sukhumaporn Saeng-Ngam ¹ , Pacharapol Pearaksa ¹ , Phongthep Hanpattanakit ¹ , Supika Vanitchung ¹ (¹ Srinakharinwirot University, Thailand)

TECHNICAL SESSION 13: CLIMATE CHANGE: IMPACTS ON WATER AND SANITATION AND HEALTH IN THE DEVELOPING WORLD II

Friday, 16th February 2018 | 15.20 to 16.40 | (Regency)

Chaired by Dr. Monthira Yuttitham (*Mahidol University, Nakhon, Phathom Thailand*)

15.20 – 15.40	G5	Local People’s Perception of Climate Change and Related Hazards in Dry and Wet Zones of Sri Lanka Samarasuriya Patabendige C ¹ , Kazama S ² (¹ University of Moratuwa, Sri Lanka ² Tohoku Universities, Japan)
15.40 – 16.00	G6	Long-Term Monitoring of Wetlands via Remote Sensing and GIS: A Case Study from Turkey ¹ Musaoglu N, ¹ Tanik A, ² Gumusay, MU, ¹ Dervisoglu, A, ¹ Bilgilioglu, B, ² Bakirman, T. ¹ Yagmur, N, ¹ Baran, D, ² Gokdag, MF (¹ Istanbul Technical University, Turkey, ² Yildiz Technical University, Turkey)
16.00 – 16.20	G7	Process of River Bed Configuration and Its Impact on Riverine Hazard- A Contemporary Study of River Jayanti, West Bengal, India Dr. Mery Biswas ¹ , Ankita Paul ¹ (¹ Presidency University, India)
16.20 – 16.40	G8	Farmers’ Perceptions of Climatic Impacts and Adaptation Responses: An Evidence from Coastal Odisha, India Sahoo Dibakar ¹ , Sridevi ¹ (¹ University of Hyderabad, India)

16.40 – 17.00	Evening Refreshments
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Conference Closure

Friday, 16th February 2018

17.00 – 17.30	Conference Concluding and Awarding Ceremony
17.30 – 17.40	Vote of Thanks by Mr. Duminda Korlagamage (<i>Assistant General Manager - The International Institute of Knowledge Management (TIKM), Sri Lanka</i>)

Friday, 17th February 2018 | Post Conference Tour (Optional)

Conference Chair

.....
Dr. Erandathie Lokupitiya

(University of Colombo, Sri Lanka)

Conference Convener

.....
Mr. Isanka P. Gamage

(The International Institute of Knowledge Management, Sri Lanka)

Conference Secretariat

.....
Mr. Keerthi Chandana

(The International Institute of Knowledge Management, Sri Lanka)

Organizer



Hosting Partner



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Environment, Sri Lanka



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