

"Adaptation and Mitigation in Practice: Local and Global Innovations" 21st - 22nd February 2019 | Kuala Lumpur | Malaysia

#### **TECHNICAL PROGRAM**

#### DAY 01 - THURSDAY, 21<sup>ST</sup> FEBRUARY, 2019

INAUGURATION SESSION	Thursday, 21st February 2019   08.00 to 10.20   Sky Room			
SESSION	08.00 - 09.00	Conference Registration		
	09.00 - 09.10	Welcome Address by the Conference Convener		
		Mr. Isanka P. Gamage (Co-Founder & Managing Director - The International Institute of Knowledge Management (TIIKM), Sri Lanka)		
	09.10 - 09.30	Speech by the Conference Chair		
		Dr. Erandathie (Erandi) Lokupitiya (Department of Zoology and Environment Sciences, University of Colombo, Sri Lanka)		
	09.30 - 09.50	Speech by the Hosting Partner - Universiti Putra Malaysia		
		Prof. Dr. Ahmad Zaharin Aris (Dean, Faculty of Environmental Studies, Universiti Putra Malaysia, Malaysia)		
	09.50 - 10.00	Speech by The Honorable Chief Guest		
		Ms. Yeo Bee Yin (Minister of Energy, Technology, Science, Environment and Climate Change, Malaysia)		
	10.00 - 10.10	Launch of Conference Trailer – ICCC 2020		
	10.10 - 10.20	Conference Photograph		
	10.20 - 10.40	Morning Refreshments		

KEYNOTE FORUM	Thursday, 21	Thursday, 21st February 2019   10.40 to 12.10   Sky Room			
TORON	10.40 - 11.20	"The Effects of Land Use Changes on Current Terrestrial Carbon Cycle"			
		Asst. Prof. Masayuki Kondo (Center for Environmental Remote Sensing (CEReS), Chiba University, Japan)			
	11.20 - 12.10	"Insights on Sustainability for a Changing Future"			
		Prof. Dan Binkley (Emeritus Professor, Department of Ecosystem Science and Sustainability, Colorado State University, USA)			
	12.10 - 13.00	Networking Lunch			



TECHNICAL SESSION 01	CLIMATE CHANGE, VULNERABILITY, ADAPTATION, MITIGATION AND POLICY INTERVENTIONS			
	Thursday, 21st I	Febru	ary 2019   13.00 to 15.20   Sky Room	
	Chaired by: Dr.	Ley 3	Juen <i>(Universiti Putra Malaysia, Malaysia)</i>	
	13.00 - 13.20	A1	A Comparison of Flood Risk Management in Japan and Malaysia	
			Nurul Ashikin Binti Mabahwi, Hitoshi Nakamura (Shibaura Institute of Technology, Japan)	
	13.20 - 13.40	A2	Towards an Integration of Water Resilience and Climate Adaptive Governance: A Case Study of Wuhan, PRC	
			Jiajie YANG (China Academy of Building Research (CABR), China)	
	13.40 - 14.00	А3	Powering Atmosphere Decarbonization with Energy Cane Biomass	
			P.F. Hernandez, L.C. Carvalho, D.S. Arantes (University of Campinas – Unicamp, Brazil)	
	14.00 - 14.20	A4	Estimation of Aboveground and Belowground Carbon Stocks in Urban Freshwater Wetlands of Sri Lanka	
			D.D.T.L. Dayathilake, E. Lokupitiya (University of Colombo, Sri Lanka)	
	14.20 - 14.40	A5	Rethinking Climate Governance in Malaysia	
			Ilham J. <sup>1,5</sup> , Tan C.M. <sup>2,5</sup> , Muralikanth V. <sup>3,5</sup> , Yamin L. <sup>4,5</sup> ( <sup>1</sup> Sunway University, Malaysia, <sup>2</sup> Duke University, United States, <sup>3</sup> University of Bristol, United Kingdom, <sup>4</sup> University of Malaya, Malaysia, <sup>5</sup> Malaysian Youth Delegation, Malaysia)	
	14.40 - 15.00	A6	Integrated Approach to Manage Weeds on Performance of Castor under Changing Climate	
			Kumar Naik A.H., Parashuram Chandravamshi, Sumana D.A., Chndrappa D. (UAHS, India)	
	15.00 – 15.20	A7	Energy cooperation between China and ASEAN energy industry in the context of global climate change	
			Xinran Yang, , Dong Huang (Huazhong University of Science and technology, China)	



POSTER SESSION	Thu	rsday, 21 <sup>st</sup> February 2019   15.20 to 16.00   Sky Room
	P1	Settlements Responsive to Climate Change in Low Elevation Coastal Bangladesh
		Qazi Azizul Mowla, Qazi Ashique, E. Mowla (Bangladesh University of Engineering and Technology (BUET), Bangladesh)
	P2	Malaysian REDD+ and the Possible Roles of Non-State Actors
		Stephanie Bacon <sup>1</sup> , Balu Perumal <sup>1</sup> , Shiro Chikamatsu <sup>2</sup> , Noorainie Awang <i>Anak</i> <sup>2</sup> ( <sup>1</sup> Malaysian Nature Society, Malaysia, <sup>2</sup> Ecological Economic Solutions Sdn. Bhd, Malaysia)
	Р3	Development and Evaluation of Tractor Operated Onion Seed Drill
		Sharanappa Jangandi, Rajashekhar D. Barker, Rajashekhar, Nageshkumar T., Parasuram Chandravamshi (Zonal Agricultural and Horticultural Research Station (ZAHRS), India)
	P4	Temporal Variability of Trace Elements in Surface Water of Langat River, Malaysia
		Looi L.J., Lim W.Y., Aris A.Z., Isa N.M. (Universiti Putra, Malaysia, Malaysia)
	P5	Impact of Climate Change and its Adaptation for Sustainable Food Production in Southern Region of Bangladesh
		Chaitanya Kumar Das, Dr. K. Maudood Elahi, Dr. Ahmad Kamruzzamna Majumder (Stamford University Bangladesh, Bangladesh)
	P6	Determination of Groundwater Quality and Nutrients Concentration in Langat River Basin
		Yahya N.A., Isa N.M., Sefie A., Ghazilan A.L.A., Zainol N.F.M., Ghani H.A.C. (Universiti Putra Malaysia, Malaysia)
	P7	The Climate Sooty Agent: Measurement of Black Carbon (BC) using Low-Cost Effective Methods
		Eliani Ezani <sup>1</sup> , Iain J. Beverland <sup>2</sup> ( <sup>1</sup> Universiti Putra Malaysia (UPM), Malaysia, <sup>2</sup> University of Strathclyde, United Kingdom)
	P8	The Spatial Variation <i>Melaleuca Cajuputi</i> Powell Essential Oil in Peninsular Malaysia
		Azemin A. <sup>1</sup> , Juahir H. <sup>1</sup> , Isa N.M. <sup>2</sup> , Tengku Ismail T.H. <sup>2</sup> ( <sup>1</sup> Universiti Sultan Zainal Abidin, Malaysia, <sup>2</sup> Universiti Putra Malaysia, Malaysia)
	P9	Effect of Changing Meteorological Drivers on Spring Wheat in India
		Sarita Kumari Baidya Roy S., Srivastava A., Sehgal V., Dhakar R. (Indian Institute of Technology, India)
	16.0	00 – 16.20 Evening Refreshments



KEYNOTE SPEECH	Thursday, 21 <sup>st</sup> February 2019   16.20 to 16.40   Sky Room			
0	16.20 - 16.40	Climate Change: Are the Small Islands 'Drowning'?		
		Prof. Dr. Ahmad Zaharin Aris (Dean, Faculty of Environmental Studies, Universiti Putra Malaysia, Malaysia)		

TECHNICAL SESSION 02	CLIMATE CHANGE, HEALTH AND GENDER RELATED ISSUES				
	Thursday, 21 <sup>st</sup> F	-ebru	ary 2019   16.40 to 18.00   Sky Room		
	Chaired by: Dr. Ley Juen (Universiti Putra Malaysia, Malaysia)				
	16.40 - 17.00	B1	Impact of Climate Change on Human Health: A Study on Manikganj, Bangladesh		
			Muhammad Abdur Rahaman <sup>1</sup> , Ahmad Kamruzzaman Majumder <sup>2</sup> , Abdullah Al Nayeem <sup>3</sup> ( <sup>1</sup> Bangladesh Research Initiatives of Environment-Society, Bangladesh, <sup>2,3</sup> Stamford University, Bangladesh)		
	17.00 – 17.20	B2	Adaptation Strategy of Indramayu Female Farmers in Dry Season Asma Irma Setianingsih, Muzani Jalaludin, Warnadi (Universitas Negeri Jakarta, Indonesia)		
	17.20 – 17.40	В3	Assessment of Worriness, Trust in Government, Preparedness and Intension to Relocation of Post Flood Victim Community in Kelantan		
			Abdullah Ahmad Makmom, Tengku Ismail Tengku Hanidza (Universiti Putra Malaysia, Malaysia)		
	17.40 – 18.00	B4	Socio-Legal Perspectives of Climate Displaced Persons in Bangladesh		
			Moumita Dasgupta (Supreme Court of Bangladesh (High Court Division), Bangladesh)		

WORKSHOP ON SCHOLARLY	Thursday, 21st	, 21st February 2019   18.00 to 18.40   Sky Room		
PUBLICATIONS	18.00 - 18.40	Dr. Erandathie (Erandi) Lokupitiya (Senior Lecturer, Department of Zoology and Environment Sciences, University of Colombo, Sri Lanka)		



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### DAY 02 - FRIDAY 22ND FEBRUARY, 2019

TECHNICAL SESSION 03	CLIMATE CHANGE AND AGRICULTURE				
2E22ION 02	Friday, 22 <sup>nd</sup> February 2019   09.00 to 10.40   Sky Room				
	Chaired by: Dr. Geeta Shivshanker Joshi (The Maharaja Sayajirao University of Baroda, India)				
	09.00 - 09.20	C1	Mitigating Carbin Dioxide Emission from Paddy Soil with Sawdust Biochar Amendment		
			Mannan M.A, Khatun A., Haque M.M., Rahman M.M. (Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh)		
	09.20 - 09.40	C2	Use of ICT-based Agro-Application "Rice Crop Manager" to Improve Soil Health, Farm Productivity and Profitability of Rice Crop		
			P. Bharti, S. Sharma (International Rice Research Institute, India)		
	09.40 - 10.00	C3	Enhancing Water Productivity, Yield and Quality of Sugarcane under Subsurface Drip Fertigation System with Paired Row Technique for Sustainable Production		
			Parashuram Chandravanshi, Nagaraju, Ananadakumar B.M, O. Kumar, Gururaj Kombli, Anusha S. (University of Agricultural and Horticultural Sciences, India)		
	10.00 - 10.20	C4	Soil Fertility Status of Selected Bt Cotton Growing Areas of Northern Transition Zone of Karnataka		
			Jyothi T.V. <sup>1</sup> , N.S. Hebsur <sup>2</sup> , Parashuram Chandravanshi <sup>1</sup> , S.K. Bansal <sup>3</sup> , Patricia Imas <sup>4</sup> ( <sup>1</sup> UAHS, India, <sup>2</sup> University of Agricultural Sciences, India, <sup>3</sup> Research Institute of India, India, <sup>4</sup> Chief Agronomist at ICL Fertilizers, Israel)		
	10.20 - 10.40	C5	Digital Soil Mapping for Alternate Land Use Planning in Aladahalli Watershed of Chikkamagaluru District, Karnataka, India		
			Gurumurthy K.T., Ravikumar D., Shivanna B., Anantakumar Patil (UAHS, India)		
	10.40 - 11.00	Mor	ning Refreshments		



PANEL DISCUSSION	Friday, 22 <sup>nd</sup> February 2019   11.00 to 12.00   Sky Room			
	11.00 - 12.00	"Good Practices in National Level Climate Change Mitigation"		
		Moderated by Asst. Prof. Masayuki Kondo (Center for Environmental Remote Sensing (CEReS), Chiba University, Japan)		

PLENARY	Friday, 22 <sup>nd</sup> Fe	Friday, 22 <sup>nd</sup> February 2019  12.00 to 12.20   Sky Room			
SPEECH	12.00 - 12.20	"Emerg Nano Filter: A Benign Option for Emergency Water Filter"			
		Prof. Sarva Mangala Praveena (Associate Professor & Unit Head (Environmental Health), Department of Environmental and Occupational Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Malaysia)			
	12.20 - 13.20	Networking Lunch			

TECHNICAL SESSION 04	ASSESSING THE IMPACT TO CLIMATE CHANGE				
	Friday, 22 <sup>nd</sup> Feb	oruary	/ 2019   13.20 to 15.20   Sky Room		
	Chaired by: Prof. Ahmad Makmom (Universiti Putra Malaysia, Malaysia)				
	13.20 – 13.40	D1	Assessing Household Carbon Emission and the Driving Factors: A Case Study in Balangoda Divisional Secretariat Division, Sri Lanka		
			K.L.W.I. Gunathilake, C.M.K.N.K. Chandrasekara (University of Colombo, Sri Lanka)		
	13.40 – 14.00	D2	Assessment of Climate Change and Its Impact on Rainfall-Runoff Correlations in Mazam Riverwatershed, India		
			Geeta S. Joshi , Payal Makhasana (The Maharaja Sayajirao University of Baroda, India)		
	14.00 – 14.20	D3	Impacts of Weather Pattern Changes and the Ratio between Potential Evapotranspiration and Precipitation as a Drought Index on Tea Productivity in Selected Locations of Sri Lanka		
			J.K.M.C.D. Perera, E. Lokupitiya (University of Colombo, Sri Lanka)		
	14.20 - 14.40	D4	Assessment of Climate Change in Orsang River Basin, India		
			Geeta S. Joshi, Jainy Shah (The Maharaja Sayajirao University of Baroda, India)		



	14.40 - 15.00	D5	How does Climate Change affect Coral Reefs?
			Tengku T.F.K. <sup>1</sup> , Turner J.R. <sup>2</sup> ( <sup>1</sup> Universiti Malaysia Terengganu, Malaysia, <sup>2</sup> Bangor University, United Kingdom)
	15.00 – 15.20	D6	Climate Change Impact Assessment on Rainfall for Kim River Basin, India
			Geeta S. Joshi, Chandole Vishal, Shilpesh Rana (The Maharaja Sayajirao Iniversity of Baroda India)

TECHNICAL SESSION 05	CLIMATE CHANGE IN RURAL AND URBAN ENVIRONMENTS				
	Friday, 22 <sup>nd</sup> February 2019   15.20 to 17.00   Sky Room				
	Chaired by: Dr. Elinie Zani (Universiti Putra Malaysia, Malaysia)				
	15.20 – 15.40	E1	Managing Small Tanks in Sri Lanka in a Changing Climate		
			Kekulandala L.D.C.B., Jacobs B., Cunningham R. (University of Technology Sydney, Australia)		
	15.40 – 16.00	E2	Urbanization as a driver of flood disaster events: A study based on Sri Lankan flood events		
			Chathumani D. (University of Colombo, Sri Lanka)		
	16.00 – 16.20	E3	Water Resources Management System: A Way of Creating Climate Smart Village Ensuring Water Sufficiency throughout the Year		
			Santosh Rasaily <sup>1</sup> , Laxmi Raj <sup>2</sup> , Shova Koiral <sup>2</sup> , Nagdev Yadav <sup>3</sup> ( <sup>1</sup> National Agriculture Research Council (NARC), Nepal, <sup>2</sup> CARITAS, Nepal, <sup>3</sup> Community Development & Advocacy Forum, Nepal)		
	16.20 - 16.40	E4	Intensifying Climate Change Awareness Programmes through International Collaboration in Sabah, Malaysia		
			M.Y. Abdullah, D. Aloysius, N. Nordin, A. <i>Ganing (Environment Protection Department, Malaysia)</i>		
	16.40 – 17.00	E5	Riding out the Tide: Labor Mobility and Climate Change Vulnerability in Kiribati		
			John Marazita III (University of Zürich, Switzerland)		
	17.00 – 17.20	Eve	ning Refreshments		



TECHNICAL SESSION 06	CLIMATE CHANGE AND LOCAL ADAPTATION, KNOWLEDEGE AND AWARENESS				
	Friday, 22 <sup>nd</sup> February 2019   15.20 to 17.00   Pahang Suite				
	Chaired by: Dr. Geeta Shivshanker Joshi (The Maharaja Sayajirao University of Baroda, India)				
	15.20 - 15.40	F1	Local Knowledge of Agro-Pastoralists in the Face of Climate Change: Case of the Region of Ras El Ma (Western Algeria)		
			Zaza Bensmira, <sup>1</sup> Meriem Bensmira, <sup>1</sup> Hellal Benchaben, <sup>2</sup> Sophie Bouju <sup>3</sup> ( <sup>1</sup> University of Mascara, Algeria, <sup>2</sup> University of Tiaret, Algeria, <sup>3</sup> <sup>3</sup> University of Bordeaux Montaigne, France)		
	15.40 - 16.00	F2	Conceptualizing The Role of Traditional Ecological Knowledge (TEK) in Climate Change Adaptation		
			Nadzirah Hosen, Hitoshi Nakamura (Shibaura Institute Of Technology, Japan)		
	16.00 - 16.20	F3	Improvement of Biodiversity through Green Infrastructure: A Case Study of Hazaribagh Tannery Area		
			Md. A. Islam, Kazi N. Kowser, Md. M. Mamun ( <i>Rajdhani Unnayan Kartripakkha</i> ( <i>RAJUK</i> ), <i>Bangladesh</i> )		
	16.20 - 16.40	F4	Movement of Educational Institutions in Environmental Preservation (Study about the Effort of Creating Eco-Pesantren in Pesantren Spmaa Lamongan Jawa Timur )		
			Rihlah Nur Aulia, Faisal M.Jasin, Dr. Izzatul Mardhiah, Sari Narulita (Universitas Negeri Jakarta, Indonesia)		
	16.40 - 17.00	F5	Technology Transfer towards Climate Change: A Case Study on the Effectiveness of Clean Technologies in Southern Africa		
			Ephraim Daka (University of Turku, Finland)		
	17.00 – 17.20	Eve	ning Refreshments		



# **3rd International Conference on Climate Change 2019**

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CONFERENCE CLOSURE	Friday, 22 <sup>nd</sup> February 2019   17.20 to 18.00   Sky Room			
	17.20 – 17.50	Conference Concluding and Awarding Ceremony		
	17.50 - 18.00	Vote of Thanks		
		Mr. Oshadee Withanawasam (CEO, Chairman and Co - Founder - The International Institute of Knowledge Management (TIIKM), Sri Lanka)		

# ICCC 2019 Conference Chair Dr. Erandathie (Erandi) Lokupitiya

(University of Colombo, Sri Lanka)

# Conference Convener Mr. Isanka P. Gamage

(The International Institute of Knowledge Management, Sri Lanka)

# Conference Secretary Ms. Asha Ratnayake

(The International Institute of Knowledge Management, Sri Lanka)

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- Asst. Prof. Masayuki Kondo (Banaras Hindu University, India)
- Prof. Sarva Mangala Praveena (Universiti Putra Malaysia, Malaysia)
- Dr. Erandathie Lokupitiya (University of Colombo, Sri Lanka)
- Prof. Ahmad Zaharin Aris (Universiti Putra Malaysia, Malaysia)