



Welcome from the Conference Chairs

Robert Costanza, *Crawford School of Public Policy at Australian National University, Australia*
 B. Larry Li, *University of California, Riverside, USA*
 Jan-Olaf Meynecke, *Griffith University, Australia*

Coastal Systems

Unravelling foreshore ecosystem dynamics: applications for ecosystem based coastal defense

Beatriz Marin-Diaz, *Royal Netherlands Institute for Sea Research, The Netherlands*

Sea level rise scenarios on the east coast of the Yucatan Peninsula (Mexico) and its effects on ecosystems and local economy

Carolina Ramirez-Núñez¹, Jean-François Parrot^{2*}, ¹ENCIT, UNAM, Mexico, ²LAGE, Instituto de Geografía, UNAM, Mexico

Diachronic analysis of erosion and sedimentation processes at the east coast of Yucatán, Mexico. Implications in local coastal ecosystems

Carolina Ramirez-Núñez^{1*}, Jean-François Parrot², ¹ENCIT, UNAM, Mexico, ²LAGE, Instituto de Geografía, UNAM, Mexico

Safeguarding the Changing Seascape of the Urban Foreshore: A Resilient Approach to Coastal Zone Development and Management

Dina Magnaye, *University of the Philippines School of Urban and Regional Planning, The Philippines*

Change of Benthic Environment and Microbial Structure in Contaminated Coastal Sediment with Pyrolyzed Oyster Shell

Hee-Eun Woo, Nur Indradewi Oktavetri, In-Cheol Lee, Byeong-Kuk Kim, Kyunghoi Kim*, *Pukyong National University, South Korea*

An effect of calcium concentration on resuspension of coastal sediment

Illwon Jeong*, In-Cheol Lee, Seung-Yun Nam, Kyunhoi Kim, *Pukyong National University, South Korea*

Ecology and Biodiversity

Effect of ecological factors and breeding habitat types on mosquito larvae occurrence and abundance in residential areas around Surat Thani Rajabhat University

Watcharee Ruairuen*, Kanchanok Amnakmanee, Onpreeya Primprao, *Suratthani Rajabhat University, Thailand*

Airborne emissions of microplastic fibres from domestic laundry dryers

Stacey O'Brien, *University of Queensland, Australia*

Qualitative analysis of the vegetative solutions after restoration - Alto Tijuco Preto lowlands, Brazil

Julia Roizemberg Bahiana*, Maria Vitória Ribeiro Gomes, Virginia Maria Nogueira de Vasconcellos, *Programa de Pós-Graduação em Arquitetura (PROARQ) – Faculdade de Arquitetura e Urbanismo Universidade Federal do Rio de Janeiro (FAU UFRJ), Brazil*

Thermophilic composting of Shrimp pond sludge: ammonia recovery potential, microbial community structure and predicted gene function

Mitsuhiko Koyama¹, Norio Nagao², F. Syukri², T. Toda³, Q.N.M. Tran¹, K. Nakasaki¹, ¹Tokyo Institute of Technology, Japan, ²Universiti Putra Malaysia, Malaysia, ³Soka University, Japan



Bio-prospecting of tropical indigenous microalgae for the production of carotenoids and polyunsaturated fatty acids from Peninsular Malaysia

Tomoyo Katayama¹, Norazira Abdu Rahman¹, Kazutaka Takahashi¹, Ken Furuya², Mohd Effendy Abd Wahid³, Malinna Jusoh, ¹The University of Tokyo, Japan, ²Soka University, Japan, ³Universiti Malaysia Terengganu

Marine Ecosystems/Aquatic Environments

The Influence of Shrimp Culture Effluents on Riverine Nitrogen Dynamics: A Modelling Approach

Suvendu Das, *Zoology Department, Visva-Bharati, India*

Trophic transfer and biotransformation of Se in the mosquito and interactive effects with Cr(VI)

Chuanqi Zhou*, Jung Chen Huang, Lixin Zheng, Shengbing He, Weili Zhou, *Shanghai Jiao Tong University, China*

Coevolution of Mangrove Trees, Invertebrates and Mud Communities, a case study at Myora Springs, Stradbroke Island, Queensland, Australia

Joan Ribí, *(Independent Consultant), Switzerland*

Policies and Governance/Science and Policy

Earthquake waste management, is it possible in developing countries? Case Study: 2017 Mexico City Seism

Flor Hernández-Padilla*, Marisol Anglés, *Mechanical and Industrial Engineering Division, School of Engineering, National Autonomous University of Mexico*

Effect of an innovation rice variety with drying cultivation on methane mitigation in paddy field

Sheng Zhou*, Xianxian Zhang, Huifeng Sun, Junguo Bi, Cong Wang, Jining Zhang, *Shanghai Academy of Agricultural Sciences, China*

Direct and indirect impacts of urban expansion on carbon storage

Lanping Tang, *Huazhong Agricultural University, China*

Management of invasive water hyacinth and its effective utilization for energy and nutrition in Lake Tana, Ethiopia

Masatoshi Kishi*, Tatsuki Toda, Shinjiro Sato, Mutsumi Sekine, Masaaki Fujiwara, *Soka University, Japan*

The Ghost of a market: A policy to govern transitions

Demetrio Miloslavo Bova, *University of Warsaw, Poland*

Socio-economic

Modelling the cooling energy saving potential of facade greening in summer for a set of building typologies

Karin A. Hoffmann, *Technical University Berlin, Germany*

50 Green Buildings: Vegetation Technical Monitoring

Oliver Weiss*, Ulrike Pitha, Julia Dunzer, Christine Kaindl, *University of Natural Resources and Life Sciences Vienna, Austria*



Preserving Marine Life with Waste-to-Energy Technology: An Industry point of view by Co-Energy Ltd.

Aviv Dekel, Co-Energy Ltd., Israel

Closing remarks from the conference Chairs

Robert Costanza, Crawford School of Public Policy at Australian National University, Australia

B. Larry Li, University of California, Riverside, USA

Jan-Olaf Meynecke, Griffith University, Australia