



GAVIN CONFERENCES



# International Conference on Environmental Sustainability and Climate Change

April 22–23, 2019 | Osaka, Japan

**Gavin Conferences**

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# Scientific Program

Day 1

April 22, 2019

9:00 – 09:30 Registrations



GAVIN CONFERENCES 09:30 – 10:00 **Opening Ceremony**

## Keynote Forum

10:00 – 10:30 **Nian She**  
Shenzhen University, China

10:30 – 11:00 **Jun Xia**  
Director, Research Institute for Water Security (RIWS), Wuhan University, China

Coffee Break: 11:00 - 11:15

11:15 – 11:45 **Masayuki Sakakibara**  
Research Institute for Humanity and Nature, Kyoto, Japan

11:45 – 12:15 **Shoichiro Ozaki**  
Ehime University, Japan

## Scientific Sessions

12:15 – 12:40 **Energy Nation, Energy Planet: Navigating the global energy transition**  
**Harrie Vredenburg**, University of Calgary, Haskayn, Canada

12:40 – 13:05 **Findings of integrated assessment model simulations towards sustainability**  
**Shunsuke Mori**, Tokyo University of Science, Japan

Lunch Break: 13:05 – 14:00

14:00 – 14:25 **Tackling global challenges: Trade, climate change and sustainable energy in the context of the WiseGRID project**

**Rafael Leal-Arcas**, Queen Mary University of London, United Kingdom

14:25 – 14:50 **Recovery planning for damaged terrestrial ecosystems**

**Matrah A. Almutairi**, Kuwait Institute for Scientific Research, Kuwait

14:50 – 15:15 **Sustainable urban design for Downtown area with snow and wind simulations for winter cities**

**Setoguchi Tsuyoshi**, University of Hokkaido at Sapporo, Hokkaido, Japan

15:15 – 15:40 **Carbon Dioxide Capture using novel green solvents**

**Inas M. AlNashef**, Khalifa University of Science, Masdar City Campus, Abu Dhabi, UAE

15:40 – 16:05 **Techniques and methods of artificial intelligence to improve the economics of electrical energy storage**

**Arjan Sidhu**, Johns Hopkins University, Washington D.C., United States

Coffee Break: 16:05 - 16:20

16:20 – 16:45 **Lead Isotopic and morphological analysis of atmospheric dust in Panzhihua City, Southwest of China**

**Yi Huang**, College of Environment, Chengdu University of Technology, Sichuan, China

16:45 – 17:15 **Mexican-Caribbean: Sargassum bloom and its origin, evolution, and integral management in the short, medium and long term**

**Norma Patricia Muñoz Sevilla**, National Polytechnic Institute, Mexico

17:15 – 17:40 **Waste to wealth**

**N.Gomathi**, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science & Technology, India

## Panel Discussion

## Keynote Forum

10:00 – 10:30 **Lyuba Varticovski**  
National Cancer Institute, NIH, Bethesda, USA

10:30 – 11:00 **Masaaki Morikawa**  
Hokkaido University, Sapporo, Japan

Coffee Break: 11:00 – 11:15

11:15 – 11:45 **Bill X Hu**  
Jinan University, Guangdong, China

11:45 – 12:15 **Govinda R. Timilsina**  
World Bank, Washington, DC, United States

## Scientific Sessions

12:15 – 12:40 **Forest plantations, between sustainability, climate change and controversies**  
**Amelie Robert**, University of Tours, CNRS, France

**A smart low-cost network to assess air quality impacts from harbour activities**

12:40 - 13:05 **Alessandro Zaldei**, National Council of Research - Biometereology Institute (CNR-IBIMET), Italy

Lunch Break: 13:05 – 14:00

14:00 - 14:25 **Are we buying the future we want? Public procurement in the context of sustainability and climate change mitigation**

**Paula Cayolla Trindade**, LNEG – National Laboratory of Energy and Geology, Portugal

14:25 - 14:50 **Environmental sustainability of the air transport sector: the bio jet potential**

**Lorena Mendes de Souza**, Brazilian Agency of Oil, Natural Gas and Biofuels (ANP), Brazil

14:50 - 15:10 **A Smart Cities Application: The Capannori Environmental Living Lab**

**Lorenzo Brilli**, National Council of Research - Biometereology Institute (CNR-IBIMET), Italy

15:10 - 15:35 **Solubility of Chlorophenols in Ionic Liquids**

**Inas M. AlNashef**, Khalifa University of Science, Masdar City Campus, Abu Dhabi, UAE

15:35 - 16:00 **Vegetation dynamics and the implications for ecosystem service values changes using satellite derived MODIS NDVI in Nepal**

**Binod Baniya**, University of Chinese Academy of Sciences (UCAS), Beijing, China

Coffee Break: 16:00 – 16:15

16:15 - 17:00

## Poster Presentations

P - 101 **Study on the problems and causes of Township coal mining based on the concept of Sustainable Development**

**Jiang Wei**, Zhongnan University of Economics and Law, China

P - 102 **Spatiotemporal variations in n-alkane from the southern inner shelf sediment of the Korea: Implications for Holocene paleovegetation and climate change**

**Sangmin Hyun**, Korea Institute of Ocean Science and Technology (KIOST), South Korea

P - 103 **Safety and Microbiological Evaluation of Plant Residues and Total Mixed Rations (TMRs)**

**Mohammad Al-Otaibi**, Kuwait Institute for Scientific Research (KISR), Kuwait

P - 104 **Room temperature removal of CO<sub>2</sub> using electrogenerated homogeneous [Co<sub>1</sub>+(CN)<sub>5</sub>]<sub>4</sub>-electron mediator at electroscrubbing**

**I. S. Moon**, Suncheon National University, Republic of Korea

## Closing Ceremony & Awards Presentation