



# ICAnCEE 2018

The International Conference on Advances in Civil and Environmental Engineering

October 24 - 25, 2018

Bali, Indonesia - Prime Plaza Hotel & Suites

# INTRODUCTION & THEME

The International Conference on Advances in Civil and Environmental Engineering

ICAnCEE 2018

**“Civil and Environmental for Green Technology and Sustainable Development”**

October 24 – 25, 2018 – Bali, Indonesia

---

**The 1<sup>st</sup> International Conference on Advances in Civil and Environmental Engineering (ICAnCEE) 2018** aims to bring together academic scientists, researchers and practitioners from around the world to develop realistic solutions and share their experiences and research results on all aspects of Civil and Environmental Engineering. It also provides a premier interdisciplinary platform for researchers, practitioners and academicians to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Civil and Environmental Engineering.

# TOPICS

## Civil Engineering

Construction and Building Materials

Construction Management

Disaster Management

Geotechnical Engineering

Highway and Transportation Engineering

Hydraulic and Water Resource Engineering

Remote Sensing and GIS

Structural Engineering

## Environmental Engineering

Air and Water Pollution Management and Control

Bio Energy

Soil and Water Conservation

Solid and Hazardous Waste Management

Water and Waste Water Treatment

Wetland Management

and other topics under Civil and Environmental Engineering

# SUBMISSION

Accepted papers will be published in MATEC Web of Conferences. Excellent research papers will be recommended to publish in journals indexed by Scopus:

1. [Journal Teknologi E-ISSN 2180-3722](#)
2. [ASTM journal on Advances in Civil Engineering Materials](#)

Selected papers will also be published in journal [Media Komunikasi Teknik Sipil](#), accredited by Arjuna ([Akreditasi Jurnal Nasional](#)).

---

## ABSTRACT SUBMISSION

The deadline for electronic abstract-submissions is **1 June 2018**.

The MS Word template to prepare your abstract is available [here](#).

Authors of invited and contributed papers must submit electronically in a MS Word document (\*.doc or \*.docx) of size less than **2MB**, an abstract containing sufficient information to allow the *Scientific Committee* to evaluate their contribution.

If the Abstract has been requested for an **Invited Speaker** presentation, please provide "*Invited Paper*" after the paper title at the top of the Extended Abstract page.

The Electronic submissions at ICAAnCEE 2018 will be accepted only through the Conference web site link by *Easy Chair* (paper submitted via e-mail attachments will be not accepted).

# KEYNOTE SPEAKERS



**PROF. KOHEI ARAI, PH.D**

Saga University, Japan



**DR. DARREN WISHART**

ARRB, Australia

# SPEAKERS



**PROF. KEISUKE MURAKAMI,  
PH.D**

[Read more](#) ➔



**ASSOC. PROF. KOICHI  
YAMAMOTO, PH.D**

[Read more](#) ➔



**PROF. DR. AMINATON  
MARTO**

MUIT-UTM, Malaysia



**PROF. DR. MASYHUR IRSYAM**

Institut Teknologi Bandung, Indonesia



**ASSOC. PROF. ARI  
SANDHYAVITRI, PH.D**

Universitas Riau, Indonesia



**PROF. I NYOMAN NORKEN,  
PH.D**

Universitas Udayana, Indonesia



**ASSOC. PROF. DR. MONITA  
OLIVIA**

Universitas Riau, Indonesia



**PROF. I NYOMAN ARYA  
THANAYA, PH.D**

Universitas Udayana, Indonesia



**PROF. TAVIO, PH.D**

Institut Teknologi Sepuluh Nopember, Indonesia



**EHSAN SAGHATFOROUSH,  
PH.D**

University of The Witwatersrand, South Africa



**ASSOC. PROF. I KETUT  
SUDARSANA, PH.D**

Universitas Udayana, Indonesia



**DR. ENG. SIGIT SUTIKNO**

Universitas Riau, Indonesia

# EDITORIAL

1. **Assoc. Prof. Dr. Monita Olivia**, Universitas Riau, Indonesia
2. **Ridwan, Ph.D**, Universitas Riau, Indonesia
3. **Dr. Gunawan Wibisono**, Universitas Riau, Indonesia
4. **Dr. Mawiti Infantri Yekti**, Universitas Udayana, Indonesia
5. **Dr. I Made Agus Ariawan**, Universitas Udayana, Indonesia
6. **Gede Pringgana, Ph.D**, Universitas Udayana, Indonesia
7. **Dr. David Andrio**, Universitas Riau, Indonesia
8. **Dr. I Dewa Ketut Sudarsana**, Universitas Udayana, Indonesia

Name	Affiliation
<b>Monita Olivia</b> (Chair)	Universitas Riau, Indonesia
<b>Aminaton Marto</b>	Universiti Teknologi Malaysia, Malaysia
<b>Anastasia Muliana</b>	Texas A&M University, USA
<b>Ari Sandhyavitri</b>	Universitas Riau
<b>Ayomi Dita Rarasati</b>	Universitas Indonesia, Indonesia
<b>Bal Khrisna</b>	University of Western Sydney, Australia
<b>Bambang Sugeng S</b>	Institut Teknologi Bandung, Indonesia
<b>Bambang Trigunaryah</b>	King Fadh University of Petroleum and Minerals, Saudi Arabia
<b>Bart Schultz</b>	IHE Delft Institute for Water Education, Netherlands
<b>Benny Suryanto</b>	Herriot-Watt University, UK
<b>Budhi Primasari</b>	Universitas Andalas, Indonesia
<b>David Andrio</b>	Universitas Riau, Indonesia
<b>Dewa Ketut Sudarsana</b>	Universitas Udayana, Indonesia
<b>Dewa Made Priyantha Wedagama</b>	Universitas Udayana, Indonesia
<b>Edy Saputra</b>	Universitas Riau, Indonesia
<b>Ehsan Saghatforoush</b>	University of the Witwatersrand, South Africa
<b>Emenda Sembiring</b>	Institut Teknologi Bandung, Indonesia
<b>Eric Too</b>	RMIT, Australia
<b>Ery Suhartanto</b>	Universitas Brawijaya, Indonesia
<b>Fatchan Nurochmad</b>	Universitas Gadjah Mada, Indonesia



<b>Gede Pringgana</b>	Universitas Udayana, Indonesia
<b>Gunawan Wibisono</b>	Universitas Riau, Indonesia
<b>Gusti Ayu Putu Candra Dharmayanti</b>	Universitas Udayana, Indonesia
<b>Hector Guerrero Bobadilla</b>	National Autonomous University of Mexico, Mexico
<b>Hendra Jitno</b>	Institut Teknologi Nasional, Indonesia
<b>Ida Ayu Made Budiwati</b>	Universitas Udayana, Indonesia
<b>I Ketut Sudarsana</b>	Universitas Udayana, Indonesia
<b>I Made Alit Karyawan Salain</b>	Universitas Udayana, Indonesia
<b>I Made Agus Ariawan</b>	Universitas Udayana, Indonesia
<b>Januarti Jaya Ekaputri</b>	Institut Teknologi Sepuluh Nopember, Indonesia
<b>Jati Utomo Dwi Hatmoko</b>	Universitas Diponegoro, Indonesia
<b>Joewono Prasetijo</b>	Universiti Tun Husein Onn Malaysia, Malaysia
<b>Koichi Yamamoto</b>	Yamaguchi University, Japan
<b>Mario Castro Gama</b>	KWR Watercycle Research Institute
<b>Mawiti Infantri Yekti</b>	Universitas Udayana, Indonesia
<b>Miftahul Fauziah</b>	Universitas Islam Indonesia, Indonesia
<b>Mochamad Arief Budihardjo</b>	Universitas Diponegoro, Indonesia
<b>Mohammad Saiful Nizam Mohd Suhaimi</b>	The International Islamic University Malaysia, Malaysia
<b>Momon Sodik Imanudin</b>	Universitas Sriwijaya
<b>Muhardi</b>	Universitas Riau, Indonesia
<b>Muhammad Yusa</b>	Universitas Riau, Indonesia

<b>Muhammad Ikhsan</b>	Universitas Riau, Indonesia
<b>Muna Sarimin</b>	UiTM, Malaysia
<b>Ni Made Utami Dwipayanti</b>	Universitas Udayana, Indonesia
<b>Nurly Ghofar</b>	National Technology University, Singapore
<b>Partogi H Simatupang</b>	Universitas Nusa Cendana, Indonesia
<b>Pitojo Tri Juwono</b>	Universitas Brawijaya, Indonesia
<b>Purnawan</b>	Universitas Andalas, Indonesia
<b>Reni Suryanita</b>	Universitas Riau, Indonesia
<b>Ridwan</b>	Universitas Riau, Indonesia
<b>Samir Dirar</b>	University of Birmingham, UK
<b>Sigit Sutikno</b>	Universitas Riau, Indonesia
<b>Steve Supit</b>	Politeknik Negeri Manado, Indonesia
<b>Sunil Herat</b>	Griffith University, Australia
<b>Syawal Satibi</b>	Universitas Riau, Indonesia
<b>Taufika Ophiyandri</b>	Universitas Andalas, Indonesia
<b>Tavio</b>	Institut Teknologi Sepuluh Nopember, Indonesia
<b>Tony Hadibarata</b>	Curtin University, Malaysia
<b>Vaughan Coffey</b>	Queensland University of Technology, Australia
<b>Wim Bastiaanssen</b>	IHE Delft
<b>Yaser Jemaa</b>	Liverpool John Moores University, UK
<b>Yusep Muslih Purwana</b>	Universitas Negeri Sebelas Maret, Solo
<b>Yusak Susilo</b>	KTH, Sweden