



IC-AMME

INTERNATIONAL CONFERENCE
ON AUTOMOTIVE, MANUFACTURING,
AND MECHANICAL ENGINEERING

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CALL FOR PAPER

The decrease of natural energy reserves encourages researchers to search for alternative energy and more efficient equipment and machines. As an effort to contribute in distributing research outcomes, the Mechanical Engineering (ME) Department of Petra Christian University conducted national conferences in the past 12 years. To reach a broader audience, starting from 2018 the ME Department conducts an international conference, an event that is expected to allow local researchers to interact with their overseas fellows. In addition, this conference is designed to encourage local authors to publish their research works in reputable journals and proceedings.



All accepted papers will be published in MATEC Web of Conferences (Scopus-indexed proceedings). Selected Papers will be offered to be published in Scopus Indexed Journal.

Venue :
Holiday Inn Resort Baruna Bali
Jl Wana Segara no 33, Tuban, Kuta,
Kab. Badung, Bali - 80361
(0361)755577

~~MAY 11TH 2018~~

~~EXTENDED ABSTRACT SUBMISSION DEADLINE~~

MAY 25TH - AUGUST 06TH 2018

EARLY BIRD REGISTRATION DEADLINE

~~JULY 11TH 2018 - JULY 25TH 2018~~

FULL PAPER SUBMISSION DEADLINE

AUGUST 10TH 2018

NOTIFICATION OF FULL PAPER DECISION

*Rolling process, paper decision will be given within three weeks after submission.

SEPT 26TH-28TH 2018 CONFERENCE BALI, INDONESIA

TOPICS OF THE CONFERENCE

1

Automotive Engineering :

- Powertrain & Emission
- Fuels & Lubricants
- Noise & Vibration
- Vehicle Dynamics
- Active & Passive Safety
- Electric & Hybrid Vehicles
- Autonomous & Connected Vehicles

2

Mechanical Structure, Design and Vibration :

- Applied Mechanics
- Machinery & Machine Design
- Computational Mechanics
- Mechanical Design
- Dynamics & Vibration
- Solid Mechanics
- Tribology
- Biomechanics

3

Manufacturing :

- Manufacturing & Production Processes
- CAD/CAM
- Manufacturing System & Simulation
- Manufacturing Robots
- Product Design
- Materials Behaviour
- Materials Forming
- Composite Materials
- Rapid Prototyping

4

Energy Conversion :

- Aerodynamics
- Heat & Mass Transfer
- Internal Combustion Engines
- New & Renewable Energy
- Energy Engineering & Management
- Computational Fluid Dynamic
- Fuels & Combustion
- HVAC

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KEYNOTE SPEECHES



Professor Béla Pukánszky
Budapest University of
Technology and Economics



Distinguished Professor Emeritus Walter Bradley
Baylor University



Distinguished Professor Kung-Jeng Wang
National Taiwan University of
Science and Technology



Professor Sunaryo
University of Indonesia

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The 1st International Conference on Automotive, Manufacturing, and Mechanical Engineering

SEPTEMBER 26 - 28, 2018
BALI, INDONESIA



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Preface IC-AMME

The 1st International Conference on Automotive, Manufacturing, and Mechanical Engineering (IC-AMME 2018) has been organized by Mechanical Engineering Department and Continuing Education Center, Petra Christian University, Surabaya, Indonesia. This event was held on September 26–28, 2018 in Bali, Indonesia. As an effort to contribute in distributing research outcomes especially to search for alternative energy and more efficient equipment and machines.

IC-AMME 2018 presented three international honorable keynote speakers from representative countries: 1) Prof. Béla Pukánszky, Budapest University of Technology and Economics, Budapest, Hungary; 2) Prof. Sunaryo, University of Indonesia, Jakarta, Indonesia; and 3) Prof. Walter L. Bradley, Distinguished Professor Emeritus of Mechanical Engineering, Baylor University, Texas, USA (2012), Professor Emeritus of Mechanical Engineering, Texas A&M University, Texas, USA (2000). To reach a broader network of researchers, this event selected local researchers and overseas fellows to share their best research works in this conference. Over 100 representatives from 51 institutions participated in this event, involving more than 80 abstracts submitted. After a rigorous selection process, the Scientific & Editorial Board decided to publish 42 papers in E3S Web of Conferences, an open-access proceedings in environment, energy and earth sciences, managed by EDP Sciences, Paris, and indexed on Scopus, Scimago, Conference Proceedings Citation Index-Science (CPCI-S) of Clarivate Analytics's Web of Science, DOAJ (Directory of Open Access Journals) and the like.

Of 42 selected papers, 27 papers were the result of joint researches between Indonesia and various countries such as Australia, England, Germany, Japan, Lithuania, Malaysia, Nigeria, Republic of China, the Republic of Korea, Republic of Singapore, Sweden, and United States of America. Each of the 42 papers in E3S Web of Conferences was reviewed by at least two experts using the double-blind system. The published papers have passed all necessary improvement requirements in accordance to the Web of Conferences standard, reviewer's comments, SI (*Système International d'Unités*), similarity tests by Turnitin program (with the highest threshold of 20 %), 90 % of references must be at least dated from 15 years, and reflected on Google, as well as editing procedure by professional editors from seven countries (Georgia, India, Indonesia, Latvia, Lithuania, Malaysia, and Sweden).

We would like to express our gratitude to the official committee, scientific & editorial boards, and organizing partners. Special thanks as well to our co-host partners: University of Indonesia, Binus University, Binus ASO School of Engineering, Sebelas Maret University, Tarumanegara University, and *Badan Kerja Sama Teknik Mesin Indonesia* (Indonesian Mechanical Engineering Cooperation Agency) for trusting and supporting this conference.

Finally, we would like to briefly thank all presenters and attendees for their participations to share the wonderful ideas and take creative decision to inspire further research and exchange scientific reason. We hope this time, all papers can be compiled into scientific works as first publication of the 2018 IC-AMME. Lastly, we hope that this conference encourage further research collaboration. Also, everyone should be proud of this result.



Assoc. Prof. Dr. Didik Wahjudi
Conference Chair

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PHOTOS IC-AMME 2018



**Holiday Inn Resort Baruna Bali, Indonesia:
IC-AMME 2018 Venue**



Left to Right:

- Roy Hendroko Setyobudi (Editor in Chief)
- Juliana Anggono (Dean of Faculty of Industrial Technology – Petra Christian University)
- Didik Wahjudi (the 1st IC-AMME Conference Chair)



IC-AMME 2018: Opening Ceremony

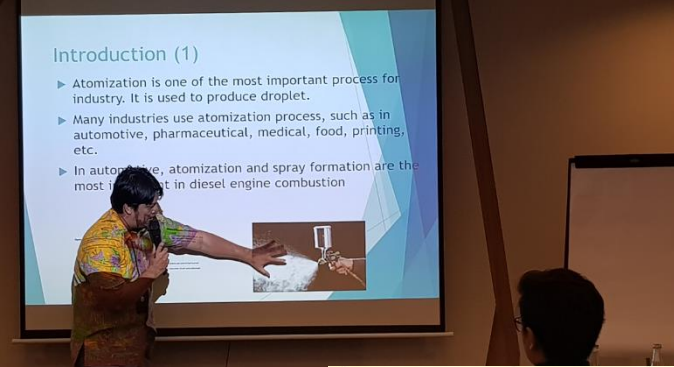


Keynote Speakers:

- Prof. Dr. Béla Pukánszky
- Prof. Dr. Walter L. Bradley
- Prof. Dr. Sunaryo



Participants of the 1st International Conference on Automotive, Manufacturing, and Mechanical Engineering (IC-AMME 2018)



IC- AMME 2018: Parallel Session