



ASIAN CONFERENCE ON EXPERIMENTAL MECHANICS 2017

**BALI INTERNATIONAL CONVENTION CENTRE
(BICC) NUSADUA, BALI, INDONESIA**

Website:

<https://acem2017-ina.org>

Email:

contact@acem2017-ina.org

AUGUST 28 - 31, 2017

Organized by



- **Deadline for Extended Abstract Submission**
April 15 2017
- **Notification of Extended Abstract Review**
June 1, 2017
- **Deadline for Revised Extended Abstract Submission**
July 1, 2017
- **Cancelled Participant**
July 15, 2017
- **Deadline for Full Manuscript and Digital Poster**
August 1, 2017
- **Conference Date**
August 28-31, 2017
- **Social Activities (tentative)**
Sept 1, 2017

Supported by



Hosted by



Conference Secretariat :

Department of Physics,

Faculty of Mathematics and Sciences, Gadjah Mada University (UGM)

Address: Sekip Utara Yogyakarta - 55281 Indonesia

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ACEM 2017 INDONESIA

Asian Conference on Experimental Mechanics

August 28-31, 2017

Bali International Convention Centre (BICC), Nusadua, Bali
Indonesia



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Welcome to **ACEM 2017**

May the Almighty God bless us with happiness and great success.

The Asian Conference on Experimental Mechanics (**ACEM**) 2017 will be held at Bali International Convention Centre (BICC) in exclusive Resort Area of BICC, Nusadua, Bali Indonesia from August 28-31, 2017. The **ACEM 2017** organizing committee cordially invites you to share your recent research and experience in the development of experimental mechanics and its practical use specialties.

The **ACEM** is a prestigious international conference held by the Asian Society of Experimental Mechanics (**ASEM**). The 1st **ACEM** was held on December 28th, 2002 at Taipei in Taiwan. Since that time, many scientists, engineers, scholars and industries from many regions in Asian countries have involved in the **ACEM**.

The **ACEM 2017** is the 16th conference. In 2017, the Indonesia Society for Experimental Mechanics as a sub-organization of the Indonesia Physical Society will host this meeting for **ACEM**. This conference is open to international experts from academic institutions and industrial companies. It is strongly encouraged to all participants giving contribution in research and development, interdisciplinary application and active promotion of experimental methods. In this conference, events regarding social gathering and art-techno-science entertainment are also being planned for all participants to promote Asian cultures.

Experimental Mechanics is a gateway to understanding the behavior of materials, structures, and systems. Further, Experimental Mechanics provides the physics understanding and verification of analytical, computational and experimental approaches to the development of engineering and technology solutions. The **ACEM 2017** conference welcomes research-based articles in all areas of Experimental Mechanics. Articles discussing emerging technologies in nano-particle, imaging, drugs mechanism, functional materials and biotechnology are also welcomed.

The **ACEM 2017** organizing committee enthusiastically greeting you to the **ACEM 2017** in Bali International Convention Centre (BICC) Resort of Bali, Indonesia from August 28-31, 2017. We hope all of you will enjoy the conference and have valuable discussions in Experimental Mechanics.



Chairman of **ASEM**

As we know, experimental mechanics research is a gateway to deeply understand the behavior of materials, structures, and systems in order to providing the necessary and reliable physical basis to support the analytical and computational approaches in the engineering solutions. Therefore, the Asian Society of Experimental Mechanics (**ASEM**) was established to promote interaction between academia, societies and organizations in the Asian Region and beyond. To achieve this, a steering committee comprising three members from different regions in Asia has been formed. The committee supports National/International Conferences, Exhibitions, Seminars and Workshops with a view to promoting the Asian Experimental Mechanics Community.

The Asian Conference on Experimental Mechanics (**ACEM**) is a prestigious series of an international conference planned and organized by the **ASEM**. The 1st **ACEM** was held at Taipei in Taiwan on 2002 and the 2nd conference at Nagoya in Japan. The **ACEM 2017**, the 16th conference, will be held in Bali International Convention Centre, Indonesia from August 28-31, 2017. The organizing committee graciously invite you to join the **ACEM 2017**. We sincerely hope all of you will have the valuable discussion with participants, happily enjoy the exciting social events, and deeply understand Indonesia cultures. Thank you.

International Advisory Board

1. Yu-Lung Lo (National Cheng Kung University, Taiwan)
2. Yoshiharu Morimoto (Emeritus Professor of Wakayama University, Japan)
3. Anand Asundi (Nanyang Technological University, Singapore)
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35. Pham Van Hoi (Vietnam Academy of Science and Technology, Vietnam)
36. I Wayan Muderawan (Universitas Pendidikan Ganesha), Indonesia

Topics

The topics of the conference is including but not limited to:

A. Stress, Strain and Deformation

- A.1. MEMS, Transducers, Sensors, Strain Gage Technology
- A.2. Thermoelasticity, Thermoelastic, Stress Analysis and Infrared Imaging
- A.3. Advances and Applications

B. Dynamics and Impact

- B.1. Advanced testing methods and diagnostics
- B.2. Mechanics of vibration
- B.3. Flaw detection based on vibration analysis
- B.4. Crashworthiness of materials and structures
- B.5. Low and high speed impact problems
- B.6. Material and structure at high strain rates
- B.7. Blast impact and explosion
- B.8. Advances and Application

C. Damage, Fatigue and Fracture

- C.1. Damage assessment
- C.2. Fatigue and Fracture
- C.3. Thermal Problem and Creep
- C.4. Probabilistic Fatigue and Fracture
- C.5. Advances and Application

D. Advanced Materials

- D.1. Crystallography
- D.2. Thin Film
- D.3. Nano-Composite
- D.4. Novel Composite from Natural and Recycled Materials
- D.5. Polymer and Composite
- D.6. Time dependent materials
- D.7. Biomaterials
- D.8. Biologically inspired materials
- D.9. Smart materials and structure
- D.10. Shape Memory Alloys
- D.11. Adhesive

E. Reliability in Material and Structures, and Conditional Monitoring Techniques

- E.1. Structural Testing
- E.2. Mechanical System Reliability
- E.3. Prognostics and Health Management
- E.4. Weld and Joint
- E.5. Vibration based condition monitoring
- E.6. Structural integrity and health monitoring
- E.7. Smart monitoring system
- E.8. Electronic Packaging
- E.9. Probabilistic model

F. Non-destructive Measurement, Testing & Inspection

- F.1. Conventional Non-destructive Measurement, Testing and Inspection
- F.2. Advanced and Improved Non-destructive Measurement, Testing and Inspection
- F.3. Non-contact measurement and inspection
- F.4. 2D/3D Profile and Shape Measurement
- F.5. In-situ measurement, testing and inspection
- F.6. Quantitative Evaluation and Analysis
- F.7. Advances and Application

G. Optical Metrology, Measurement Techniques and Their Application

- G.1. Photoelasticity
- G.2. Spectroscopy
- G.3. Interferometry and Diffraction Technique
- G.4. Speckle Interferometry & Moire and Grid based Test Methods
- G.5. Digital Image Correlation
- G.6. Digital Tomography
- G.7. 3D Image Reconstruction
- G.8. Micro/Nano Metrology and Testing
- G.9. Digital Holography
- G.10. Advances and applications

H. Biomechanics and Its Applications

- H.1. Musculoskeletal Biomechanics
- H.2. Gait and Posture
- H.3. Robotics and Prosthetics
- H.4. Injury and Rehabilitation Biomechanics
- H.5. Sports Biomechanics and Technology
- H.6. Experimental Technologies/Instrumentation
- H.7. Occupational Biomechanics-Ergonomics

Important Date

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Submission Guideline

Submission of Extended Abstract

An extended abstract should be submitted by the deadline following the template provided on the ACEM2017 website. Every participant may choose the type of publications, whether in proceeding or journal. At least one of the authors must register no later than May 15, 2017 for the abstracts to be included in the proceedings.

Submission Instructions

- Extended abstract should be within 2 pages long in English.
- Extended abstract should be submitted in English using an abstract template form which can be downloaded from the ACEM 2017 website.
- Authors may further edit and modify submitted extended abstracts until the submission deadline.
- Please ensure that text does not contain typos or grammatical errors.
- No Proof reading will be carried out, and no corrections will be possible after the submission deadline.
- All abstracts will be reviewed by the scientific committee and accepted papers will be assigned to appropriate sessions for presentations at the conference.

Participants journal will be decided following the journal management review.

Registration Fee

Category	Early July 1, 2017	Normal
Participant (Full)	USD 650	USD 750
Student A (oral)	USD 400	USD 500
Student B (poster)	USD 300	USD 400
Attendance	USD 200	USD 200
Accompanying (Galadiner)	USD 100	USD 100
Extra one Paper	USD 100	USD 100

* Payment directed to :

Name : MADEENA KARYA INDONESIA
No Rek : 0503991817 (IDR)
Swiftcode : BNINIDJAXXX
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E-mail : contact@acem2017-ina.org

Conference Venue



" Since it is peak season, all participants are kindly request to book one of the three supporting hotels: The Westin, Nusa Dua Hotel&spa, and Grand Whiz for special rate and family convenience during conference".

Location

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