

ICMR-2019

November 27–29, 2019

Maison Glad Jeju, Jeju, Korea

5th International Conference on Materials and Reliability

Organized by

The Korean Society of Mechanical Engineers
Reliability Division, The Korean Society of
Mechanical Engineers
Korean Society for Prognostics & Health Management

Sponsored by

China Mechanical Engineering Society
Chinese Society of Theoretical and Applied Mechanics
The Society of Materials Science, Japan
Vietnam Federation of Mechanical Engineering Associations
Materials Research Society of India

Welcome to ICMR-2019

We are very pleased to inform that ICMR-2019 will be held at 'Maison Glad Jeju (<http://www.glad-hotels.com/en/web/maison-en>)', in Jeju, Korea, November 27-29, 2019.

In this conference, various topics of development, characterization, mechanical analysis, theoretical and experimental reliability analysis, technologies for reliability assessment, and prognostics and health management for various materials, systems and products will be presented and discussed.

Exciting activities to enjoy the nature of Jeju island and a great performance are also prepared.

Key Organizing Members

Conference Chairman

Insu Jeon Chonnam National University, Korea

Conference Co-chairman

Suk Joo Bae Hanyang University, Korea

Hong-Zhong Huang University of Electronic Science and
Technology of China, China

Licheng Guo Harbin Institute of Technology, China

Koich Goda Yamaguchi University, Japan

Nguyen Truong Thinh Ho Chi Minh City University of Technology and
Education, Vietnam

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Science, Korea

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Jae Hyuk Lim Chonbuk National University, Korea

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Advisory Chairman

Joo Ho Choi Korea Aerospace University, Korea

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Program Chairman

Jong-Sung Kim Sejong University, Korea

Conference Topics

1. Materials and Characterization

- | | |
|------------------------|--------------------------|
| 1.A Stress analysis | 1.H Electrical materials |
| 1.B Fracture & Failure | 1.I Biomaterials |
| 1.C Fatigue | 1.J Soft materials |
| 1.D Creep | 1.K Advanced materials |
| 1.E Corrosion | 1.L Surface & coatings |
| 1.F Metals | 1.M Wear/Tribology |
| 1.G Alloys/Composites | 1.N Others |

2. Reliability

- 2.A Reliability analysis and modeling
- 2.B Design for reliability
- 2.C Failure modes and effects analysis (FEMA)
- 2.D Quality assurance & control
- 2.E Risk assessment and safety
- 2.F Software reliability and testing
- 2.G Accelerated life testing and analysis
- 2.H Non-destructive testing and evaluation (NDT&E)
- 2.I Others

3. PHM (Prognostics and Health Management)

- 3.A Advanced sensing and data acquisition
- 3.B Big data analytics
- 3.C Condition-based maintenance
- 3.D (Residual) life prediction
- 3.E Prognostics methodology
- 3.F Smart manufacturing
- 3.G Structural health management
- 3.H Accelerated life and degradation test
- 3.I Others

4. Reliability and PHM applications

- 4.A Nuclear industry
- 4.B Green technology
- 4.C Transformation industry
- 4.D Energy and plant engineering
- 4.E Aerospace and defense industry
- 4.F Manufacturing equipments and machineries
- 4.G Nano/micro-systems
- 4.H Electronics/packaging
- 4.I Bio-systems
- 4.J Emerging technologies (robotics, autonomous navigation systems, ...)

Submission of Abstract & Organized Session

Abstract should be submitted electronically by the deadline following the template provided on the ICMR-2019 website. At least one of the authors must register for ICMR-2019 for the abstract to be included in the proceedings.

Proposals are invited for organized sessions at ICMR-2019. Organized sessions can be on any relevant topic that would be of interest to ICMR-2019 participants.

Detailed information is provided on the official website: <http://www.icmr2019.com>

Full Manuscript Submission (Optional)

More than 100 conference papers will be recommended for major SCI(E) international journal publication as a special issue, guest-edited by the ICMR-2019 committee members.

Authors of the accepted abstracts may choose a journal, and submit the full manuscript to the ICMR-2019 website by November 15, 2019. The confirmed journals are

1. Applied Sciences (SCIE, IF: 1.689)
2. Journal of Mechanical Science and Technology (SCIE, IF: 1.194)
3. Advances in Mechanical Engineering (SCIE, IF: 0.848)
4. International Journal of Fatigue (SCI, IF: 3.132)

* More journals will be added

The full list of confirmed journals and full manuscript formats can be found at the ICMR-2019 website.

Awards

Several awards for students, postdocs, and faculties will be presented at the Awards Session during the week of the ICMR-2019. The winners will be selected based on the quality of the papers and the presentations.

Important Dates

- Deadline for 2-page abstract submission
June 14, 2019
- Notification of abstract acceptance
August 16, 2019
- Early registration due date
August 30, 2019
- Deadline for full paper submission (optional)
November 15, 2019

Registration Fee

	On or Before August 30	After August 30
Regular	USD 600 / KRW 680,000	USD 700 / KRW 790,000
Student*	USD 350 / KRW 400,000	USD 450 / KRW 510,000

Accompanying person fee : USD 130 / KRW 150,000 (Includes conference banquet)

Registration fee includes :

- Conference proceedings in USB format, conference access and program booklet.
- Three lunch coupons, conference banquet and refreshment breaks.

* Students must present a proof of their student status at the REGISTRATION DESK.

Performance of Banquet



Ms. Kim Yonja has been very popular not only in South Korea but in Japan as well ever since 1980s. Kim Yonja is one of the best South Korean Singers who made her professional debut on Korean television in 1974. She released her first Japanese Single, <A woman's lifetime> in 1977. In 1988, she recorded the song,

<From the land of the morning> for the Seoul Olympics, which also made herself known to the world as the Korea's top star singer. Recently, She released her new album and hit the song which is called <Amor Fati> in 2014. The song is mixed with EDM and trot. She got an explosive response from the 20s by <Amor Fati>.

Contact Information

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Activities



Golf



Boat fishing (caught fishes can be cooked and served at restaurants)



Tangerine picking



Oreum (Volcanic Cones) Trekking



Halla Mountain Trekking