



AMSM 2019

The 4th International Conference on Active Materials and Soft Mechatronics
16~19 October, 2019 | Sheraton Grand Incheon Hotel, Incheon, Republic of Korea

Abstract Submission Deadline : July 2, 2019

[Abstract Submission](#)

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Dear Colleagues,

It is our great honor for us to invite you to attend the 4th International Conference on Active Materials and Soft Mechatronics (AMSM 2019) which will be held in Incheon, Republic of Korea in October 2019.

The Organizing Committee will provide a dynamic technical program which will be highly informative for every participant. The conference will be the place to interchange and integrate of professional colleagues from all around the world with an interest in this field.

We are so confident that the AMSM 2019 will turn to be one of the most successful platform for networking people and inspiring new technical ideas with the support from all of you.

All members of the AMSM 2019 organizing committee look forward to meeting you at Incheon, Republic of Korea in October, 2019.

Conference Chairs of AMSM 2019

Joo-Hyung Kim(Inha Univ.), Il-Kwon Oh(KAIST) and Seung Tae Choi(Chung-Ang Univ.)

| Call for Abstracts

The abstract submission system will be opened from May, 2019. The abstracts will be screened by Program Committee and authors will be advised of acceptance. Important dates are given below.

- **Abstract Submission Deadline** July 2, 2019
- Notification of Acceptance July 19, 2019
- Pre-registration Deadline August 15, 2019

| Conference Topics included (but are not limited to)

- Symposium on Soft Sensors, Actuators and Robotics
 - Soft Sensors and Electronics
 - Soft Actuators and Stimuli-Responsive Polymers
 - Electro-Active Polymers and Artificial Muscles
 - Soft Robotics and Mechatronics
- Symposium on Functional Materials and Structures
 - CNT, Graphene and 2D Materials
 - Functional Composites and Structures
 - Hydrogel and Ionic Gels
 - Stretchable and Flexible Electronics
 - Multifunctional Fibers and Textiles
 - Metamaterials

- Symposium on Advanced Energy Technology

3D and 4D Printing

Triboelectric Nanogenerators

Piezoelectric Energy Harvesters

Thermoelectric Materials and Devices

Solar Energy Harvesters

Energy Harvesting Systems and Their Applications

Energy Storage Materials and Devices

Materials and Structures for Space Exploration

Space Mission

Space Robotics

Issues on Fine Dust

Space Medicine

- Symposium on Space Technology

| Conference Structure

The conference will consist of the following symposium, event, and related meetings.

- Symposia on
 - Soft Sensors, Actuators and Robotics
 - Functional Materials and Structures
 - Advanced Energy Technology
 - Space Technology
- Plenary and Keynote lectures by renowned researchers
- Conference tour
- Exhibitions
- Oral and poster presentations
- Social gatherings

| Plenary Lectures



John Rogers

Northwestern Univ., USA



Zhenan Bao

Stanford Univ., USA



Zhong Lin Wang

Georgia Tech, USA



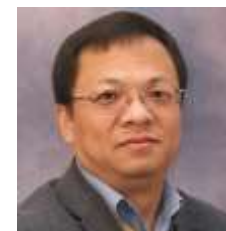
Herbert Shea

EPFL, Swiss



Gerald B. Sanders

NASA, USA



Richard Liang

Florida State Univ., USA

| Keynote & Invited Lectures

Keynote Lectures

- Hidenori Okuzaki, Yamanashi Univ., Japan
- Christoph Keplinger, Univ. of Colorado Boulder, USA
- Wei Chen, The Hong Kong Polytechnic Univ., Hong Kong
- Frederic Vidal, Univ. of Cergy-Pontoise, France
- Maurizio Porfiri, New York Univ., USA
- Edwin Jager, Linköping Univ., Sweden
- Hyacinthe Randriamahazaka, Paris Diderot Univ., France
- Kean Aw, Univ. of Auckland, New Zealand
- Zoubeida Ounaies, The Pennsylvania State Univ., USA
- Hani Naguib, Univ. of Toronto, Canada
- Fabrice Domingues Dos Santos, ARKEMA-Piezotech, France
- Kim, Dae Hyeong, Seoul National Univ., Korea
- Ya Yang, Chinese Academy of Sciences, China
- Zong-hong Lin, National Tsing Hua Univ., Taiwan
- Seok Woo Lee, Nanyang Technological Univ., Singapore
- Wenzhuo Wu, Purdue, USA
- Youfan Hu, Peking Univ., China
- Xudong Wang, Univ. of Wisconsin, USA
- Kim Sang-Jae, Jeju National Univ., Korea
- Jong Hyeok Park, Yonsei Univ., Korea
- Robert Moses, NASA Langley Research Center, USA
- Dale Arney, NASA Langley Research Center, USA
- Erik Antosen, Baylor Medical Center, USA
- David Glass, NASA Langley Research Center, USA

- Qingwen Li, SINANO in CAS, China
- Woong-Ryeol Yu, Seoul National Univ., Korea

- Jaehwan Kim, INHA Univ., Korea

Invited Lectures

- Moon Jeong Park, POSTECH, Korea
- Myung-gil Kim, Chung-Ang Univ., Korea
- Soong Ju Oh, Korea Univ., Korea
- Changhyun Pang, Sungkyunkwan Univ., Korea
- Youn Soo Kim, POSTECH, Korea
- Hong Chul Moon, Univ. of Seoul, Korea
- Do Hwan Kim, Hanyang Univ., Korea
- Soo Min Kim, KIST, Korea
- Tae-Wook Kim, KIST, Korea
- Kyo D. Song, Norfolk State Univ., USA
- Cheol Park, NASA Langley Research Center, USA

- Seung-Ho Yu, Korea Univ., Korea
- Ikwhang Chang, Wonkwang Univ., Korea
- Baik, Jeong Min, UNIST, Korea
- Han-Bo-Ram Lee, Incheon National Univ., Korea
- Kyungwho Choi, KRRI, Korea
- Sangtae Kim, KIST, Korea
- Miso Kim, KRISS, Korea
- Ho-Hsiu Chou, National Tsing Hua Univ., Taiwan
- Chia-Chih Chang, National Chiao Tung Univ., Taiwan
- Chih-Yen Chen, National Sun Yat-Sen Univ., Taiwan

| Conference Tour: DMZ (Demilitarized Zone)

The Demilitarized Zone (DMZ) is a weapons-free buffer zone between North and South Korea. The area was established on July 27, 1953 when the Armistice Agreement was signed during the Korean War, and includes the 2km-wide stretch of land both north and south of the line. The DMZ extends largely from Gyeonggi-do to Gangwon-do, including seven different cities and smaller counties of Paju, Yeoncheon, Cheorwon, Hwacheon, Yanggu, Inje and Goseong. The zone has been protected from human disturbance for about 6 decades and has unintentionally become a haven for wildlife, making it a popular destination for nature lovers.



| Participation

Those wishing to attend the conference should visit the conference website: www.amsm2019.org. Detailed information including registration and hotel accommodation forms will be available from May, 2019. A program of cultural visits will be arranged for participants. Technical tours or general excursion to other interesting places in Seoul will also be offered.

| Sponsorship/Exhibition

The Organizing Committee of AMSM 2019 welcomes all kinds of sponsors and exhibitors from interested companies and institutions. AMSM 2019 will be a great opportunity to promote the true value of your product and services. Moreover, you can interact and communicate with the international participants. The sponsors will have maximal benefits from on-line(webpage) and off-line(program book) advertisement, marketing activities, and communications with participants during the conference. The sponsors will have benefits from the package programs of sponsorship in reward for their contribution to the conference. Please click a button below for more specified information.

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| Conference Chairs

Conference Chairs: Joo-Hyung Kim(Inha Univ.), Il-Kwon Oh(KAIST), Seung Tae Choi(Chung-Ang Univ.)

Symposium Chairs:

Soft Sensors, Actuators and Robotics

- Qibing Pei(UCLA), Ki-Uk Kyung(KAIST), Cheol Hoon Park(KIMM), Steve Park(KAIST)

Functional Materials and Structures

- Bon-Cheol Ku(KIST), Young-Bin Park(UNIST), Unyong Jeong(POSTECH)

Advanced Energy Technology

- Dukhyun Choi(KHU), Chong-Yun Kang(KIST), Sang-Woo Kim(SKKU)

Space Technology

- Sang H. Choi(NASA), Kyu-Sung Kim(Inha Univ.), Kum Won Cho(KISTI), Kyung Ja Kim(KIGAM), Woosub Lee(KIST)

Award Chair: Youngsu Cha(KIST)

Exhibition Chair: Sangeui Lee(Inha Univ.)

Treasure & Social Chair: Seongsu Kim(KAIST)

International Committee Chairs: KwangJin Kim(UNLV), Il-Kwon Oh(KAIST), Kinji Asaka(AIST)

| Conference Venue

Incheon Songdo International City, a City Embracing the Future

Songdo embodies the future of Incheon. Built on reclaimed land, Songdo offers a number of attractions. A trip to Songdo can start at Central Park, a natural oasis in the city. Because of its proximity to the sea, the manmade waterway is filled with sea water, and water taxis travel through the park. Close by are a lawn and a promenade along a field of reeds. Nearby, there are many futuristic-looking buildings, creating a harmonious combination of technology and the natural environment.

※ [Please click here for more information about Incheon](#)



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Contacts

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