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Korean Sensors Society (KSS) & Regional Leading Research Center (RLRC)

2021 International Symposium on Advanced Sensor Technology

Advanced Sensor Technologies for Smarter Future

- Venue: Online (Zoom platform)
- Date: Mar 26, 2021 (Friday)

* Registration Period : Mar 9 ~ Mar 17, 2021

The importance of advanced sensor technologies is rapidly increasing in the era of Industry 4.0. The applications of smart sensors are expanding in a variety of industrial fields such as environmental, biomedical, healthcare, robot, AR/VR, and entertainment industries. In this symposium, we focus on the advanced sensor technologies in the aspects of materials, devices, and systems. By sharing the insights and knowledges of world-renowned experts, we discuss the future and find visions for the next generation sensors. The following list includes the topics for this symposium.

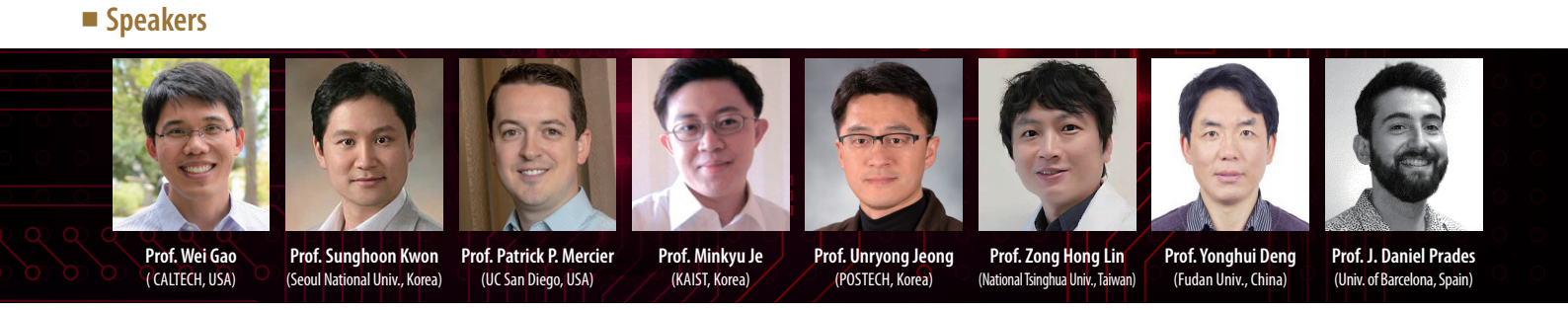
- Session 1: Advanced material/device technologies for biosensors
- Session 2: Advanced circuits/systems for smart sensors
- Session 3: Advanced material/device technologies for physical sensors
- Session 4: Advanced material/device technologies for chemical sensors

■ Schedule

Time (Korean Standard Time; KST)	Program
09:00-09:10	**Opening Remarks & Introduction to KSS** Prof.Jong-Heun Lee (Korea University), Chair of KSS
	Session 1: Advanced material/device technologies for biosensors
09:10-10:00	**Skin-Interfaced Wearable Biosensors** Prof. Wei Gao (California Institute of Technology, USA)
10:00-10:50	**Life-saving biosensor systems for blood stream infection** Prof. Sunghoon Kwon (Seoul National University, Korea)
10:50-11:00	Break Time
	Session 2: Advanced circuits/systems for smart sensors
11:00-11:50	**Ultra-Low-Power Integrated Circuits and Physiochemical Sensors for Next-Generation "Unawearables"** Prof. Patrick P. Mercier (University of California at San Diego, USA)
11:50-12:40	**Integrated Circuits and Microsystems for Emerging Biomedical Applications** Prof. Minkyu Je (KAIST, Korea)
12:40-13:30	Lunch Break
	Session 3: Advanced material/device technologies for physical sensors
13:30-14:20	**Deformable Artificial Skins and Healthcare Sensors** Prof. Unryong Jeong (POSTECH, Korea)
14:20-15:10	**Self-Powered Sensors for Healthcare Applications** Prof. Zong Hong Lin (National Tsinghua University, Taiwan)
15:10-15:20	Break Time
	Session 4: Advanced material/device technologies for chemical sensors
15:20-16:10	**Ordered Mesoporous Semiconductor Metal Oxides for Gas Sensing Applications** Prof. Yonghui Deng (Fudan University, China)
16:10-17:00	**Ideas for specific, low-power and cost-effective chemical sensors** Prof. J. Daniel Prades (University of Barcelona, Spain)
17:00-17:10	**Closing Remarks**

- Pacific Standard Time (PST) = KST -17
- China Standard Time (CST) = KST -1
- Central European Time (CET) = KST -8

■ Speakers



Prof. Wei Gao (CALTECH, USA) | Prof. Sunghoon Kwon (Seoul National Univ., Korea) | Prof. Patrick P. Mercier (UC San Diego, USA) | Prof. Minkyu Je (KAIST, Korea) | Prof. Unryong Jeong (POSTECH, Korea) | Prof. Zong Hong Lin (National Tsinghua Univ., Taiwan) | Prof. Yonghui Deng (Fudan Univ., China) | Prof. J. Daniel Prades (Univ. of Barcelona, Spain)

■ Registration

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- Registration Fee

	Member	Non-member
Regular	KRW 100,000	KRW 150,000
Student	KRW 80,000	KRW 100,000

- Registration Website : www.sensors.or.kr/85

■ Contact

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- Program Chair : Prof. Inkyu Park (KAIST) (Email: inkyu@kaist.ac.kr)

Hosted by THE KOREAN SENSORS SOCIETY 심혈관 환자맞춤형 차세대 정밀의료기술 선도 연구센터 Advanced Medical Device Research Center for Cardiovascular Disease