

YES 2025 YONSEI ENGINEERING SYMPOSIUM

March 23 (Sun) – 25 (Tue), 2025

The Commons, Yonsei University, Korea (연세대학교 백양누리)



Hosted/Organized by



연세대학교 기계공학과 사회지향 기계기술 글로벌 리더 양성 교육연구단
연세대학교 신소재공학과 인간중심 미래선도 소재 교육연구단
연세대학교 전기전자공학과 글로벌 융합기술 미래인재 교육연구단
연세대학교 화공생명공학과 사회지향 글로벌 초격차 화공인재양성 교육연구단

Co-hosted by



Co-organized by



공과대학



Abstract Book

Pleenary Speakers

Mar 24 (Mon), 2025 | Grand Ballroom



09:20 ~ 10:00

George Gregory Malliaras
University of Cambridge, UK

*Materials and Devices for
Bioelectronic Medicine*



10:20 ~ 11:00

Jun Zhang
HKUST, Hong Kong

*Foundation Models for Wireless
Communications: From
WirelessLLM to WirelessAgent*



11:00 ~ 11:40

Atsuo Yamada
The University of Tokyo, Japan
*Toward Sustainable and Safe
Batteries*

Mar 25 (Tue), 2025 | Grand Ballroom



13:30 ~ 14:10

Liwei Lin
UC Berkeley, USA

*Intelligent Sensor/Actuator for
Human-Machine Interfaces*



14:10 ~ 14:50

Jungho Hwang
Yonsei University, Korea

*Detection of Virus Aerosols via Air
Sampling and PCR Analysis, for the
Post-COVID-19 Era*



YONSEI
UNIVERSITY



YONSEI 140th
ANNIVERSARY

Welcome Message

We are delighted to welcome you to YES2025. This symposium serves as a meaningful platform where experts, researchers, and students from diverse fields come together to exchange cutting-edge knowledge and foster collaboration. In an era of rapid change, academic exchange and technological innovation are essential, and gatherings like this play a pivotal role in shaping the future.

At Yonsei University, we remain committed to advancing the frontiers of scholarship and research while cultivating the next generation of leaders. We hope this symposium provides you with valuable opportunities for intellectual and professional growth, inspiring insightful discussions and meaningful connections that lead to new possibilities.

We sincerely appreciate your enthusiastic participation and dedication, and we wish you a successful and inspiring symposium. Thank you.

Chungyong Lee

Dean, College of Engineering
Yonsei University

Committee

* All committee members affiliated with Yonsei University

Co-Chairs, Organizing Committee



Sang-Young Lee



Cheolmin Park



Won Woo Ro



WonHyung Ryu



Chulmin Joo



Wooyoung Shim

Chemical & Biomolecular Engineering Electrical & Electronic Engineering Materials Science and Engineering Mechanical Engineering

Co-Chairs, Program Committee

Members, Organizing Committee

Chemical & Biomolecular Engineering



Daewoo Kim



Junghwan Kim



Jong Hyeok Park



Youngmin You



Byung Wook Min



Jeonghun Park



Jungmok Seo

Electrical & Electronic Engineering

Materials Science and Engineering



Yeonsik Choi



Hongkyung Lee



Jang-Ung Park



Hae-Jin Kim



Wonjung Kim



Woochul Kim

Mechanical Engineering

Invited Speakers

March 24 (Mon), 2025

Jake Lah Hall (B147)

Bioelectronics



13:30~14:00
Shabir Hassan
Khalifa University, UAE



14:00~14:30
Jayoung Kim
Yonsei University, Korea



14:30~15:00
Sunghoon Lee
University of Tokyo, Japan



15:00~15:30
Haeryung Lee
Wiley, USA



15:45~16:15
Zijian Zheng
PolyU, Hong Kong



16:15~16:45
Yoshiyuki Tagawa
TUAT, Japan



16:45~17:15
Jinkee Lee
SKKU, Korea



17:15~17:45
Hoe Joon Kim
DGIST, Korea

Bio-mechanics

Kwak Jung-Hwan Challenge Hall (B146)

Communication Technology



13:30~14:00
Kaiming Shen
CUHK, China



14:00~14:30
Jeonghun Park
Yonsei University, Korea



14:30~15:00
Jinseok Choi
KAIST, Korea



15:00~15:30
Jemin Lee
Yonsei University, Korea



15:45~16:15
Changsheng Wu
NUS, Singapore



16:15~16:45
Yeonsik Choi
Yonsei University, Korea



16:45~17:15
Sanggil Han
Incheon National University, Korea



17:15~17:45
Jang-Ung Park
Yonsei University, Korea

Bioelectronics

Industrial Bank of Korea Hall (B145)

Environmental and Membranes



13:30~14:00
Zhiping Lai
KAUST, Saudi Arabia



14:00~14:30
Dae Woo Kim
Yonsei University, Korea



14:30~15:00
Tae-Hyun Bae
KAIST, Korea



15:00~15:30
Jong Suk Lee
Sogang University, Korea



15:45~16:15
Yuzhang Li
UCLA, USA



16:15~16:45
Kyung-Wan Nam
Dongguk University, Korea



16:45~17:15
Hyun-Wook Lee
UNIST, Korea



17:15~17:45
Junghwan Kim
Yonsei University, Korea

Energy Storage

March 25 (Tue), 2025

Jake Lah Hall (B147)

Medical-mechanics



10:00~10:30
Beomjoon Kim
The University of Tokyo, Japan



10:30~11:00
Liangcai Cao
Tsinghua University, China



11:00~11:30
Sungwook Yang
KIST, Korea



11:30~12:00
Jae-Sang Hyun
Yonsei University, Korea

Kwak Jung-Hwan Challenge Hall (B146)

Nanoelectronics



10:00~10:30
Sang-Hoon Bae
WashU, USA



11:00~11:30
Youngmin You
Yonsei University, Korea



10:30~11:00
Han Wang
University of Hong Kong, Hong Kong



11:30~12:00
Sooyeon Cho
SKKU, Korea

Industrial Bank of Korea Hall (B145)

Energy Storage



10:00~10:30
Yong-Ning Zhou
Fudan University, China



11:00~11:30
Yong Min Lee
Yonsei University, Korea



10:30~11:00
Seongmin Bak
Yonsei University, Korea



11:30~12:00
Dong-Hwa Seo
KAIST, Korea

Program

**March
23(Sun)**

16:00-18:00 Registration
18:00- Welcome Reception

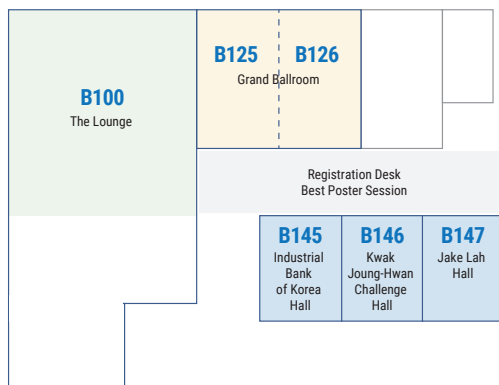
**March
24(Mon)**

09:00-09:05 Opening Ceremony
09:05-09:15 Welcome Address
09:15-09:20 Group Photo
09:20-10:00 Plenary Lecture I - George Malliaras (University of Cambridge, UK)
10:00-10:20 Coffee Break
10:20-11:00 Plenary Lecture II - Jun Zhang (HKUST, Hong Kong)
11:00-11:40 Plenary Lecture III - Atsuo Yamada (University of Tokyo, Japan)
11:40-13:30 Lunch ※ Invited Only
13:30-15:30 Invited Talks (Parallel Sessions)
Bioelectronics Communicatin Technology Environmental and Membranes
15:30-15:45 Coffee Break
15:45-17:45 Invited Talks (Parallel Sessions)
Bio-mechanics Bioelectronics Energy Storage
17:45-18:00 Break
18:00-20:00 Banquet

**March
25(Tue)**

09:00-10:00 Best Poster Session & Coffee Break
10:00-12:00 Invited Talks (Parallel Sessions)
Medical-mechanics Nanoelectronics Energy Storage
12:00-13:30 Lunch ※ Invited Only
13:30-14:10 Plenary Lecture IV - Liwei Lin (UC Berkeley, USA)
14:10-14:50 Plenary Lecture V - Jungho Hwang (Yonsei University, Korea)
14:50-15:10 Award & Closing
15:10-15:20 Break
15:20-18:20 Tour (Changdeokgung Palace, Bukchon Hanok Village) ※ Invited Only
18:20-20:20 Dinner ※ Invited Only

Venue



B125+B126 Grand Ballroom
Opening, Plenary Lecture, Banquet, Award & Closing

B147 Jake Lah Hall
Invited Talk (Session 1)

B146 Kwak Joung-Hwan Challenge Hall
Invited Talk (Session 2)

B145 Industrial bank of Korea Hall
Invited Talk (Session 3)

Lobby
Registration Desk,
Best Poster Session

Registration Fee ※ only credit card

Participant Category	Overseas	Domestic
Regular	USD 300	KRW 450,000
Student	USD 100	KRW 150,000

Coffee Break

MAR. 24 10:00~10:20 / 15:30~15:45
MAR. 25 09:00~10:00

Banquet

MAR. 24 18:00~20:00
Grand Ballroom