

The 22nd International Symposium on Clean Technology

- Hosts**
- The Institute of Clean Technology at YU
 - Clean Energy Priority Research Center at YU (supported by MOE)
 - BK21 FOUR: Cultivation Program of Future Chemical Engineers for the IT- Energy Materials and Processes
 - Hydrogen Education & Research Consortium

V e n u e : Engineering Auditorium (F05), Yeungnam University

Date/Time : Nov 17-19, 2022

November 17, 2022

18:00-20:00 Welcome Reception

November 18, 2022

Opening Ceremony

Moderator: Prof. Woo Kyoung Kim / Vice Director, Office of Industrial-Academic Research Affairs

13:10-13:20 **Opening Address**

Prof. Jae-Jin Shim / Director, Institute of Clean Technology
& Director, Clean Energy Priority Research Center

Congratulatory Address

Prof. Chaechun Gim / Executive Vice President, Yeungnam University

Research Presentations

Session 1: **Green Hydrogen and Green Environmental Technology**

Chair Prof. Minkyu Kim / School of Chemical Engineering

13:20-13:50 **Invited Speech**

Decarbonization via Green Hydrogen Blends: Energy Transition Cluster in the Sultanate of Oman

Prof. Muhammad Abdul Qyyum (Sultan Qaboos University, Oman)

13:50-14:20 **Invited Speech**

Advanced Oxidation Processes Meets Removal of Recalcitrant Organic Pollutants

Prof. Hussein Amr Hussein Mady (EPRI, Egypt)

14:20-14:30 **Coffee Break**

Session 2: **High-power Batteries and Seawater Batteries**

Chair Prof. Taeho Yoon / School of Chemical Engineering

14:30-15:10 **Keynote Speech**

How to Tune Inactive Compounds into Electrodes for High Power Batteries?

Prof. Thierry Brousse (University of Nantes, France)

15:10-15:50 **Invited Speech**

Rechargeable Seawater Battery: from Concept to Applications

Prof. Youngsik Kim (UNIST, Korea)

Session 3: **Poster Session (Auditorium 1F & 2F Hall)**

15:50-16:25 Chair : Prof. Jintae Lee / School of Chemical Engineering

Session 4: **Conjugated Polymers for Energy Applications**

Chair Prof. Sunghun Cho / School of Chemical Engineering

- 16:25-17:05 ***Keynote Speech***
**Engineering Charge Transport Properties of Semiconducting Polymers
for High-Performance Organic Thermoelectric Materials**
Prof. Kilwon Cho (POSTECH, Korea)
- 17:05-17:45 ***Keynote Speech***
Conjugated Polymers for Energy Saving Smart Windows
Prof. Eunkyong Kim (Yonsei University, Korea)
- 17:45-18:00 **Closing Remarks, Best Poster Award, and Lucky Draw**
Prof. Jae-Jin Shim / Director, Institute of Clean Technology

November 19, 2022

- 9:00-15:00 Symposium Tour (Campus & Local Area)
- 15:00-20:00 Discussions on International Research Cooperation