

# The 21<sup>st</sup> 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 Engineer for the IT- Energy Materials and Processes
  - Hydrogen Education & Research Consortium
- V e n u e** : Chemical Eng. Bldg. (E24) Room 214, Yeungnam University
- Date/Time** : May 20, 2022 / 13:00-18:00

13:00-13:10 **Registration**

## Opening Ceremony

Moderator: T.B.D. / School of Chemical Engineering

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: Hydrogen Production and CO<sub>2</sub> Conversion Catalysis**

Chair T.B.D. / School of Chemical Engineering

13:20-14:00 **Keynote Speech**

**Solar Hydrogen Production at Scale by Water Splitting**

Prof. Jae-Sung Lee (School of Energy and Chemical Engineering, UNIST)

14:00-14:35 **Invited Speech**

**Sorption-enhanced Reaction for Blue Hydrogen Production**

Prof. Ki Bong Lee (Dept. of Chemical and Biological Engineering, Korea Univ.)

14:35-15:10 **Invited Speech**

**Manipulating Light, Matter, and Energy for a Sustainable Future**

Prof. Sungju Yu (Dept. of Chemistry, Ajou Univ.)

### **Session 2: Poster Session (ChE 1F & 2F Hall)**

15:10-15:40

Chair Prof. Dohyung Kang / School of Chemical Engineering

### **Session 3: Battery, Chemical Looping, and APCATB Publication**

Chair Prof. Minkyu Kim / School of Chemical Engineering

15:40-16:15 **Invited Speech**

**CO<sub>2</sub> Splitting and H<sub>2</sub> Production by Lattice Oxygen Transfer in Metal Oxides**

Prof. Jae W. Lee (Dept. of Chemical & Biomolecular Engineering, KAIST)

16:15-16:55 **Keynote Speech**

**Design of New Advanced Materials for Lithium-ion Batteries and Beyond**

Prof. Kisuk Kang (Dept. of Materials Science and Engineering, Seoul National Univ.)

16:55-17:40 **Keynote Speech**

**How to prepare Manuscripts for the Readership of APCATB**

Em. Prof. In-Sik Nam (Dept. of Chem. Eng., POSTECH) (*Editor-in-Chief, Appl. Cat. B.*)

17:40-18:00 **Closing Remarks, Best Poster Award, and Lucky Draw**

Prof. Jae-Jin Shim / Director, Institute of Clean Technology