



The 5th CLEAN ENERGY PRIORITY RESEARCH CENTER WORKSHOP

Date : 26th Feb. (Tue), 2018

Venue : ChE Rm 214, Yeungnam University

13:15 - 13:30 Registration

Opening Ceremony

(Moderator: Prof. Woo Kyoung Kim)

13:30 Commemorative Photographing

Introduction

13:40 20min **Overview of Clean Energy Priority Research Center Project**
Prof. Jae-Jin Shim (Director, Clean Energy Priority Research Center)

Research Presentations

Session 1: Team 1 (60min)

Chair: Prof. Jintae Lee

- 14:00 10min "Development of Novel Nanocomposites for Supercapacitors and Photocatalysis"
Prof. Jae-Jin Shim (Team 1 Leader)
- 14:10 10min "Synthesis and Application of Bioactive Organic Compounds and Nanomaterials"
Prof. Yong Rok Lee
- 14:20 10min "Manganese-Cobalt-Sulfides (MCS) Nanoflakes as Binder-Free Electrode Material for Supercapacitor Application"
Ms. Tensangmu Lama Tamang(Advisor Prof. Jae-Jin Shim)
- 14:30 10min "Fabrication of Solar Light-driven C/MoS₂/TiO₂ Photocatalyst for Organic Pollutant Degradation"
Mr. Nguyen Van Quang(Advisor Prof. Jae-Jin Shim)
- 14:40 10min "Synergistic In/Ag Dual Catalyzed Regioselective [2+2+1]-Oxidative N-Annulation for the Construction Polyfunctionalized N-Arylpyrazoles"
Mr. Thombal Raju Sitaram(Advisor Prof. Yong Rok Lee)
- 14:50 10min "Regioselective Synthesis of Functionalized 4-Pyrones via Thermal Wolff-Rearrangement of Diazodicarbonyl Compounds"
Ms. Hye Won Kim(Advisor Prof. Yong Rok Lee)
- 15:00 20min COFFEE BREAK

Session 2: Team 2 (50min)

Chair: Prof. Woo Kyoung Kim

- 15:20 10min "Development Novel and High Efficient Carbon-based ORR Catalysts for Improvement MFC Performance"
Prof. Moo Hwan Cho (Team 2 Leader)
- 15:30 10min "Development of Pesticides Using Halogenated Indoles"
Prof. Jintae Lee
- 15:40 10min "Microbial Fuel Cell-assisted Biogenic Synthesis of Negatively Charged Gold Nanoparticles and its Application to Energy Production and Hydrogen Peroxide Detection"
Mr. Rezaul Karim(Advisor Prof. Moo Hwan Cho)

- 15:50 10min “Antibiofilm and Antivirulence Efficacies of Flavonoids and Curcumin Against Acinetobacter Baumanni”
Mr. Chaitanya Jayprakash Raorane(Advisor Prof. Jintae Lee)
- 16:00 10min “Prevention of Alcoholic Fatty Liver Damage using Okinawa Citrus”
Ms. Eun Young Lee(Advisor Prof. Jintae Lee)
- 16:10 20min COFFEE BREAK

Session 3: Team 3 (90min)

Chair: Jong Su Kim

- 16:30 10min "Observation of Interface Electronic States from InAs/GaSb multi Quantum Wells by Photoreflectance(PR) Spectroscopy"
Prof. Jong Su Kim (Team 3 Leader)
- 16:40 10min " Basic Design of CJ Acetic Acid Recovery Process"
Prof. Moonyong Lee
- 16:50 10min “Design and Evaluation of Bifacial Photovoltaic Cell and Module”
Prof. Woo Kyoung Kim
- 17:00 10min “The Study of Optical Properties for Flexible GaAs Solar Cell Epitaxial Lift-off Process”
Mr. Mo Geun So(Advisor Prof. Jong Su Kim)
- 17:10 10min “Investigation of Optical Transition in InAs/GaAsSb Type-II Submonolayer Quantum Dots Structure Using Photoreflectance Spectroscopy”
Mr. Min Seak Kim(Advisor Prof. Jong Su Kim)
- 17:20 10min “Energy Saving Opportunities in Liquefaction Processes for Offshore LNG Production”
Mr. Abdul Qyyum Muhammad(Advisor Prof. Moonyong Lee)
- 17:30 10min ““Reaping Benefits of Biogas in Power to Methanol System””
Mr. Riaz Amjad(Advisor Prof. Moonyong Lee)
- 17:40 10min “Pin Hole Filling of Cu(InGa)Se₂ Photovoltaic Absorber Using Thin In₂S₃ Layer”
Mr. Doohyung Moon(Advisor Prof. Woo Kyoung Kim)
- 17:50 10min “Effect Of Front Irradiance On Albedo And Bifacial Gain In 1.8kW Bifacial Photovoltaic System”
Mr. Yeongju Seo(Advisor Prof. Woo Kyoung Kim)

Closing Ceremony

- 18:00 **Closing Remarks**
Prof. Jae-Jin Shim (Director, Clean Energy Priority Research Center)