<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Chair</th>
<th>Presentation</th>
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<tr>
<td>14:00-15:00</td>
<td>Registration</td>
<td>Grand Ballroom C</td>
<td>Sung Jin BAE (Konkuk University, Korea)</td>
<td>OREN-124 / N6KEN-01 Preparation of Aromatic Compounds by Catalytic Hydrogenation of Lignin in Biphasic System, Sticheng ZHANG (Fudan University, China)</td>
</tr>
<tr>
<td>15:00-15:15</td>
<td></td>
<td>207</td>
<td>Jechan LEE (Ajou University, Korea)</td>
<td>OREN-303 / N6KEN-02 Microwave Vacuum Pyrolysis Conversion of Biomass Waste into Cleaner Biofuel, Biplastic Feedstock and Value-added Carbon, Bo-Shing LAM (Universiti Malaysia Terengganu, Malaysia)</td>
</tr>
<tr>
<td>15:15-15:30</td>
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<td>206</td>
<td>TBA</td>
<td>OREN-180 Graphene Quantum Dots Decorated BIS Nano-flowers for Improved Photocatalytic Water Treatment, Ama Sameen AN (Hanyang University, Korea)</td>
</tr>
<tr>
<td>15:30-15:45</td>
<td>The Role of Renewable Energy in Global Transformation for a Sustainable Energy Future</td>
<td>207</td>
<td>Yuhoon HWANG (Seoul National University of Science and Technology, Korea)</td>
<td>OREN-194 / N6KEN-05 Preparation of Aromatic Compounds by Catalytic Hydrogenation of Lignin in Biphasic System, Buyan CHULUUN (National University of Mongolia, Mongolia)</td>
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<tr>
<td>15:45-16:00</td>
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<td>206</td>
<td>Seunghyun WEON (Korea University, Korea) TBA</td>
<td>OREN-227 Aerosol Chemical Composition Modelling with WRF-Chem across Pearl River Delta: Comparability with Multiple Observational Datasets, Qiao ZHU (Peking University, China)</td>
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<tr>
<td>16:00-16:15</td>
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<td>207</td>
<td>Yuhoon HWANG (Seoul National University of Science and Technology, Korea)</td>
<td>OREN-204 Characterization and Biogas Production Potentials of Aqueous Phase Produced from Hydrotreated Lignin, Muhammad USMAN (Fudan University, China)</td>
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<tr>
<td>16:15-16:35</td>
<td>Break (20 min)</td>
<td>206</td>
<td>TBA</td>
<td>OREN-189 Structural Variations and Generation of Binding Sites in Fe-loaded ZSM-5 and Silica under the Effect of UV-irradiation and their Role in Enhanced BTEX Abatement from Gas Streams, Nishesh Kumar GUPTA (University of Science and Technology (UST), Korea Institute of Civil Engineering and Building Technology (KICT), Korea)</td>
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<tr>
<td>16:35-16:50</td>
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<td>207</td>
<td>Seunghyun WEON (Korea University, Korea) TBA</td>
<td>OREN-194 / N6KEN-05 Oil Field Contamination and Remediation in Mongolia, Buyan CHULUUN (National University of Mongolia, Mongolia)</td>
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<tr>
<td>16:50-17:05</td>
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<td>206</td>
<td>TBA</td>
<td>OREN-367 / N6KBR-06 Oil Field Contamination and Remediation in Mongolia, Buyan CHULUUN (National University of Mongolia, Mongolia)</td>
</tr>
<tr>
<td>17:05-17:20</td>
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<td>207</td>
<td>TBA</td>
<td>OREN-374 / N6KBR-07 Mechanical, Durability and X-ray Micro-computed Tomography Investigation of Biochar-admixed Cement-mortars, Ajit Kumar SARMAH (The University of Auckland, New Zealand)</td>
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<tr>
<td>17:20-17:35</td>
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<td>206</td>
<td>TBA</td>
<td>OREN-234 / N6KBR-08 Mechanical, Durability and X-ray Micro-computed Tomography Investigation of Biochar-admixed Cement-mortars, Ajit Kumar SARMAH (The University of Auckland, New Zealand)</td>
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<tr>
<td>17:35-17:50</td>
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<td>207</td>
<td>TBA</td>
<td>OREN-164 Community-Engaged Assessment of Soil Heavy Metal and Metalloid Contamination in Atlanta, Eri SAIKAWA (Emory University, USA)</td>
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<td>206</td>
<td>TBA</td>
<td>OREN-087 Impact of Land Use/Land Cover on the Groundwater Quality at Agricultural Region of South Korea, MoonSu KIM (National Institute of Environmental Research, Korea)</td>
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Thursday, September 7 (Plenary)

Date/Time
15:00-15:20
14:20-15:00
17:40-17:55
16:55-17:10
16:20-16:35
16:05-16:20
15:50-16:05
10:45-11:00
9:30-10:10
8:30-9:00

Session Environment (online+offline) Bioresources (online+offline) Materials Technology / Energy

Room
Grand Ballroom C

Hyun Woo KIM
Chair

Seunghan YU (Sungkyunkwan University, Korea)

Kitae BAEK (Sichuan University, China)

Xue QIAO (Sichuan University, China)

ORBR-301 /N7KBR-12 OREG-133 / N7KEG-13 OREN-070 ORMT-099

Maliheh RAZAVI (University of Alberta, Canada)

Daniel S. ALESSI (University of Technology, Taiwan)

Jörg RINKLEBE (University of Wuppertal, Germany)

Wuppertal, Germany)

Seoktae KANG
Chair:

Sangjun JEONG (Jeonbuk National University, Korea)

Yong Seoktae KANG
Zohreh MASOUMI (University of Engineering, Perul)

Soo LEE

Andong National University, Korea)

Yonsei University, Korea)

Shinje LEE (Kyung Hee University, Korea)

Gyeongnam University, Korea)

Shih-Hao JIEN (National Pingtung University, Taiwan)

Mumtaz ALI (Hanyang University, Korea)

Naresh Kumar AMRADI (Yonsei University, Korea)

Sangjun YIM (Semyung University, Korea)

Jungho JAE (Korea Institute of Science and Technology, Korea)

Jae Hee LEE (GAIA Corporation, Korea)

Cheol Hoon KIM (Sookmyung Women`s University, Korea)

Sanghyun JEONG

Rida FATIMA (Hanyang University, Korea)

Bryan M. CÓRDOVA (National University, Korea)

Yonsei University, Korea)

Maliheh RAZAVI (University of Ulsan, Korea)
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair/Lead Speaker(s)</th>
<th>Title</th>
<th>Organization/Institution</th>
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<tbody>
<tr>
<td>16:35-16:55</td>
<td>Break</td>
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<tr>
<td>16:55-17:10</td>
<td>Plenary 1</td>
<td>Binoy SARKAR (Lancaster University, China)</td>
<td>Medium by Using Carbon Materials to Remove Pollutants from Aqueous Solutions</td>
<td>KICT, Korea</td>
<td>Grand Ballroom C</td>
<td>207</td>
</tr>
<tr>
<td>17:10-17:25</td>
<td>Poster 1</td>
<td>Xiaomin DOU (Beijing Forestry University, China)</td>
<td>Microplastics in Sewage Treatment Plants: Effect of Reaction Conditions on Microplastics and the Aromatic Transformation of Seaweed to Solid Acids</td>
<td>Yonsei University, Korea</td>
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<tr>
<td>17:25-17:40</td>
<td>Poster 2</td>
<td>Maleet N. GEBRESILLASE (Myongji University, Korea)</td>
<td>Accelerated Aging of Biochar for Energy Production and Sulfonamides Antibiotics from Adsorptive Removal of Ammonium and Sulfonamides Antibiotics</td>
<td>Myongji University, Korea</td>
<td>Grand Ballroom C</td>
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<tr>
<td>17:55-18:10</td>
<td>Plenary 2</td>
<td>Siming YOU (University of Glasgow, UK)</td>
<td>A Synergistic Approach to Research of the Removal of Nutrients and Microorganisms from Wastewater Treatment and Resource Recovery through Innovative Materials Technology</td>
<td>University of Glasgow, UK</td>
<td>Grand Ballroom C</td>
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<tr>
<td>18:10-18:25</td>
<td>Poster 3</td>
<td>Joosung PARK (Korea Advanced Institute of Science and Technology)</td>
<td>Fibrous Precursor from Furfuryl Alcohol over γ-Al2O3 Sphere Supported Candle-assisted Oxidation of Microbes</td>
<td>Korea Advanced Institute of Science and Technology</td>
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<td>18:40-18:55</td>
<td>Poster 4</td>
<td>Lian ZONG (Nanjing University of Science and Technology, China)</td>
<td>Hydroxylamine Slow-release FeII and Persulfate Reaction and the Aromatic Sulfonation Reaction of Functional Groups</td>
<td>Nanjing University of Science and Technology, China</td>
<td>Grand Ballroom C</td>
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<td>19:10-19:25</td>
<td>Poster 5</td>
<td>Joonyeob LEE (Pukyong National University of Science and Technology, Korea)</td>
<td>Understanding Surface Ferrocene to Produce Ferrocene-Based Selective Water Oxygenation and Energy Materials Infiltration</td>
<td>Pukyong National University of Science and Technology, Korea</td>
<td>Grand Ballroom C</td>
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<td>19:25-19:40</td>
<td>Break</td>
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<tr>
<td>19:40-19:55</td>
<td>Poster 6</td>
<td>Yong-Hui JEON (Kyungpook National University, Korea)</td>
<td>Enhancing Biochar Properties for the Sulfate Radical-induced Degradation of Organic Pollutants</td>
<td>Kyungpook National University, Korea</td>
<td>Grand Ballroom C</td>
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<td>Break</td>
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<tr>
<td>20:10-20:25</td>
<td>Poster 7</td>
<td>Yun-Hui JEON (Kyungpook National University, Korea)</td>
<td>Biochar Derived Levulinic Acid as a Novel Carbon Source for Degradation of Organic Polymers</td>
<td>Kyungpook National University, Korea</td>
<td>Grand Ballroom C</td>
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<td>Break</td>
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<tr>
<td>20:40-20:55</td>
<td>Poster 8</td>
<td>Jong Hyun PARK (Kyung Hee University, Korea)</td>
<td>Development of Modified Biochar on Coffee-ground Derived Pyrolysis Oil as Light Filter Devices</td>
<td>Kyung Hee University, Korea</td>
<td>Grand Ballroom C</td>
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<td>Break</td>
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<tr>
<td>21:10-21:25</td>
<td>Poster 9</td>
<td>Eui-chan JEON, Hyun-Han KWON (Kyung Hee University, Korea)</td>
<td>Monitoring the Bioaccumulation of Antimicrobial Agents in Groundwater Using Novel Electrochemical Methods</td>
<td>Kyung Hee University, Korea</td>
<td>Grand Ballroom C</td>
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*September 8 (Tuesday)*

- **Break (15 min)**
- **Poster Session 2**
- **Break (20 min)**

**Standing Committee**

- **Chair:** Eum-Chul Yim
- **Lead Speaker(s):** Binoy Sarkar
- **Title:** Medium by Using Carbon Materials to Remove Pollutants from Aqueous Solutions
- **Organization/Institution:** KICT, Korea

**Room:** Grand Ballroom C

**Time:** 16:35-16:55

- **Session:** Plenary 1
- **Chair/Lead Speaker(s):** Binoy SARKAR
- **Title:** Medium by Using Carbon Materials to Remove Pollutants from Aqueous Solutions
- **Organization/Institution:** Lancaster University, China

**Room:** Grand Ballroom C

**Time:** 16:55-17:10

- **Session:** Poster 1
- **Chair/Lead Speaker(s):** Xiaomin DOU
- **Title:** Microplastics in Sewage Treatment Plants: Effect of Reaction Conditions on Microplastics and the Aromatic Transformation of Seaweed to Solid Acids
- **Organization/Institution:** Beijing Forestry University, China

**Room:** Grand Ballroom C

**Time:** 17:10-17:25

- **Session:** Poster 2
- **Chair/Lead Speaker(s):** Maleet N. GEBRESILLASE
- **Title:** Accelerated Aging of Biochar for Energy Production and Sulfonamides Antibiotics from Adsorptive Removal of Ammonium and Sulfonamides Antibiotics
- **Organization/Institution:** Myongji University, Korea

**Room:** Grand Ballroom C

**Time:** 17:25-17:40

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 17:40-17:55

- **Session:** Plenary 2
- **Chair/Lead Speaker(s):** Siming YOU
- **Title:** A Synergistic Approach to Research of the Removal of Nutrients and Microorganisms from Wastewater Treatment and Resource Recovery through Innovative Materials Technology
- **Organization/Institution:** University of Glasgow, UK

**Room:** Grand Ballroom C

**Time:** 17:55-18:10

- **Session:** Poster 3
- **Chair/Lead Speaker(s):** Joosung PARK
- **Title:** Fibrous Precursor from Furfuryl Alcohol over γ-Al2O3 Sphere Supported Candle-assisted Oxidation of Microbes
- **Organization/Institution:** Korea Advanced Institute of Science and Technology

**Room:** Grand Ballroom C

**Time:** 18:10-18:25

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 18:25-18:40

- **Session:** Poster 4
- **Chair/Lead Speaker(s):** Lian ZONG
- **Title:** Hydroxylamine Slow-release FeII and Persulfate Reaction and the Aromatic Sulfonation Reaction of Functional Groups
- **Organization/Institution:** Nanjing University of Science and Technology

**Room:** Grand Ballroom C

**Time:** 18:40-18:55

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 18:55-19:10

- **Session:** Poster 5
- **Chair/Lead Speaker(s):** Joonyeob LEE
- **Title:** Understanding Surface Ferrocene to Produce Ferrocene-Based Selective Water Oxygenation and Energy Materials Infiltration
- **Organization/Institution:** Pukyong National University of Science and Technology

**Room:** Grand Ballroom C

**Time:** 19:10-19:25

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 19:25-19:40

- **Session:** Poster 6
- **Chair/Lead Speaker(s):** Yong-Hui JEON
- **Title:** Biochar Derived Levulinic Acid as a Novel Carbon Source for Degradation of Organic Polymers
- **Organization/Institution:** Kyungpook National University

**Room:** Grand Ballroom C

**Time:** 19:40-19:55

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 19:55-20:10

- **Session:** Poster 7
- **Chair/Lead Speaker(s):** Yun-Hui JEON
- **Title:** Development of Modified Biochar on Coffee-ground Derived Pyrolysis Oil as Light Filter Devices
- **Organization/Institution:** Kyung Hee University

**Room:** Grand Ballroom C

**Time:** 20:10-20:25

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 20:25-20:40

- **Session:** Poster 8
- **Chair/Lead Speaker(s):** Eui-chan JEON, Hyun-Han KWON
- **Title:** Monitoring the Bioaccumulation of Antimicrobial Agents in Groundwater Using Novel Electrochemical Methods
- **Organization/Institution:** Kyung Hee University

**Room:** Grand Ballroom C

**Time:** 20:40-20:55

- **Session:** Break (15 min)

**Room:** Grand Ballroom C

**Time:** 20:55-21:10

- **Session:** Poster 9
- **Chair/Lead Speaker(s):** Jong Hyun PARK
- **Title:** Development of Modified Biochar on Coffee-ground Derived Pyrolysis Oil as Light Filter Devices
- **Organization/Institution:** Kyung Hee University

**Room:** Grand Ballroom C