August 14, 2023

1. **Presenter: Professor Young-Shin Jun**
   - Title: High purity extraction of rare earth elements from low-grade resources using supercritical fluids
   - Division: [COMSCI] Committee on Science
   - **Time/Date: 10:25am - 10:50am/August 14, 2023**
   - Location: Room 2002, West Bldg. (Moscone Center)

2. **Presenter: Ping I Chou**
   - Title: Photolysis of disposable surgical masks facilitates abiotic manganese oxide formation
   - Division: [ENVR] Division of Environmental Chemistry
   - Session: Processes and Risks of Micro- & Nano-Plastics in the Environment
   - **Time/Date: 03:15pm - 03:35pm/ August 14, 2023**
   - Location: Room 3006, West Bldg. (Moscone Center)
3. **Presenter: Ping I Chou**  
   - **Title:** Surface functional groups affect iron (hydr)oxide heterogeneous nucleation: Implications for membrane scaling  
   - **Division:** [GEOC] Division of Geochemistry  
   - **Session:** Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes  
   - **Time/Date:** 08:05am - 08:25am/August 15, 2023  
   - **Location:** Room 2022, West Bldg. (Moscone Center)

4. **Presenter: Ying Wang**  
   - **Title:** Nanoconfinement controls calcium sulfate nucleation  
   - **Division:** [GEOC] Division of Geochemistry  
   - **Session:** Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes  
   - **Time/Date:** 09:05am - 09:25am/August 15, 2023  
   - **Location:** Room 2022, West Bldg. (Moscone Center)

5. **Presenter: Xuanhao Wu**  
   - **Title:** Electrified nitrogen element reduction in the aqueous phase  
   - **Division:** Division of Environmental Chemistry  
   - **Session:** Electrified Water Treatment Processes:  
   - **Time/Date:** 09:20am - 09:40am/August 15, 2023  
   - **Location:** Room 3001, West Bldg. (Moscone Center)

6. **Presenter: Ying Wang**  
   - **Title:** Calcium sulfate nucleation at the oil-water interface  
   - **Division:** [COLL] Division of Colloid & Surface Chemistry  
   - **Session:** Basic Research in Colloids, Surfactants and Interfaces  
   - **Time/Date:** 10:50am - 11:10am/August 15, 2023  
   - **Location:** Room 307, South Bldg. (Moscone Center)

7. **Presenter: Yaguang Zhu**  
   - **Title:** Uncovering the formation and phase transformation of calcium carbonate nanoparticle near the oil–water interface with X-ray scattering techniques  
   - **Division:** [GEOC] Division of Geochemistry  
   - **Session:** Advancements in the Characterization and Modeling of Interfacial Phenomena Driving Environmental Processes  
   - **Time/Date:** 11:00am - 11:20am/August 15, 2023  
   - **Location:** Room 2022, West Bldg. (Moscone Center)
8. **Presenter: Jessica Ray**  
    - **Title:** Treatment of stormwater runoff Organics using cost-effective, biochar adsorbent infiltration media  
    - **Division:** [AGRO] Division of Agrochemicals  
    - **Session:** Pesticides and Other Organics in Urban Environments  
    - **Time/Date:** 11:30am - 11:55am/August 15, 2023  
    - **Location:** Room 3018, West Bldg. (Moscone Center)

9. **Presenter: Jessica Ray**  
    - **Title:** Oxidized vanadium carbide nanosheets for catalytic defluorination of PFAS in water  
    - **Division:** [ENVR] Division of Environmental Chemistry  
    - **Session:** Women in Science and Engineering (WISE): Biological and Chemical Processes and Interactions for Water Treatment  
    - **Time/Date:** 05:14pm - 05:37pm/ August 15, 2023  
    - **Location:** Room 3008, West Bldg. (Moscone Center)
10. Presenter: Qingyun Li  
- Title: Straddling geosciences and environmental engineering as a chemist  
- Division: [ENVR] Division of Environmental Chemistry  
- Session: Women in Science and Engineering (WISE): Air Quality, Aerosols, Climate Change Geochemical Processes  
- **Time/Date: 09:09am - 09:32am/ August 16, 2023**  
- **Location: Room 3008, West Bldg. (Moscone Center)**

11. Presenter: Chelsea Wren Neil  
- Title: Investigating high temperature gas transport for nuclear event detection  
- Division: [ENVR] Division of Environmental Chemistry  
- Session: Women in Science and Engineering (WISE): Air Quality, Aerosols, Climate Change Geochemical Processes  
- **Time/Date: 09:32am - 09:55am/ August 16, 2023**  
- **Location: Room 3008, West Bldg. (Moscone Center)**

12. Presenter: Lijie Zhang  
- Title: Methylmercury formation in Arctic soils: Implications in remobilization and transformation of heavy metals under changing climate  
- Division: [ENVR] Division of Environmental Chemistry  
- Session: Women in Science and Engineering (WISE): Air Quality, Aerosols, Climate Change Geochemical Processes  
- **Time/Date: 10:05am - 10:28am/ August 16, 2023**  
- **Location: Room 3008, West Bldg. (Moscone Center)**

13. Presenter: Minkyung Jung  
- Title: Novel struvite and calcium phosphate mineral-hydrogel composites for simultaneous removal of ammonium and phosphate  
- Division: [ENVR] Division of Environmental Chemistry  
- Session: Innovative Materials for Environmental Sustainability  
- **Time/Date: 11:00am - 11:20am/ August 16, 2023**  
- **Location: Room 3006, West Bldg. (Moscone Center)**

14. Presenter: Prof. Young-Shin, Jun  
- Title: Thermodynamics and kinetics of heterogeneous nucleation of CaCO3 in water-energy systems  
- Division: [COLL] Division of Colloid & Surface Chemistry  
- Session: Symposium in Honor of Cynthia M. Friend  
- **Time/Date: 03:55pm - 04:25pm/ August 16, 2023**  
- **Location: Room 305, South Bldg. (Moscone Center)**