Agenda

Workshop and Reception • Thursday, November 21, 2019
C213 Coal Utilization Lab, EMS Energy Institute

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:30 – 5:00 pm</td>
<td>Experimental Analysis of Alkali-Salt-Alcohol Phase Behavior with OMV Crude Oil&lt;br&gt;Daulet Magzymov, Russell Johns, and OMV staff only</td>
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<tr>
<td>5:00 – 5:30 pm</td>
<td>Travel to restaurant</td>
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<td>5:30 – 7:30 pm</td>
<td>Dinner at Spats at the Grill (formerly Allen Street Grill), 100 West College Ave., 814-231-4745</td>
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End of Workshop

Technical Presentations • Friday, November 22, 2019
C213 Coal Utilization Lab, EMS Energy Institute

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>8:00 – 8:10 am</td>
<td>Coffee and continental breakfast</td>
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<tr>
<td>8:10 – 8:30 am</td>
<td>Welcome and Introductory Remarks&lt;br&gt;Russell Johns</td>
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<td>8:30 – 9:00 am</td>
<td>Oil Recovery from Diffusive Transport During Huff’n’Puff&lt;br&gt;Michael Cronin, Hamid Emami-Meybodi, and Russell Johns</td>
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<tr>
<td>9:00 – 9:20 am</td>
<td>Demonstration of PennShale Toolkit&lt;br&gt;Michael Cronin, Hamid Emami-Meybodi, and Russell Johns</td>
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<td>9:20 – 9:50 am</td>
<td>Development of an Accurate LBM Code for Permeability Estimation from CT Images&lt;br&gt;Xiaolong Ouyang and Russell Johns</td>
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<td>9:50 – 10:10 am</td>
<td>Break</td>
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<td>10:10 –10:40 am</td>
<td>Advances in Developing a New Relative Permeability Equation-of-State&lt;br&gt;Prakash Purswani, Russell Johns, and Zuleima Karpyn</td>
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<td>10:40 – 11:20 am</td>
<td>High Temperature Contact Angle Modeling for Enhanced Oil Recovery&lt;br&gt;Tim Duffy, Serguei Lvov, and Russell Johns</td>
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<td>11:20 –11:50 pm</td>
<td>Investigating the Effect of Oil Chemistry on Chemically-Tuned Waterflooding&lt;br&gt;Miral Tawfik, Zuleima Karpyn, and Russell Johns</td>
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<tr>
<td>Time</td>
<td>Session</td>
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<td>11:50 – 1:00 pm</td>
<td>Lunch at CUL</td>
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| 1:00 – 1:30 pm | Modeling the Effect of Reaction Kinetics and Dispersion during Low-Salinity Waterflooding  
Daulet Magzymov, Prakash Purswani, Zuleima Karpyn, and Russell Johns  |
| 1:30 – 2:10 pm | Improved Equation-of-State Modeling for Surfactant EOR and PennSurf Update  
Daulet Magzymov and Russell Johns  |
| 2:10 – 2:40 pm | Measurement of Microemulsion Phase Behavior of Complex Alcohol-Surfactant Mixtures at High Pressure  
Hafsa Abubaker Hashim Abboud and Russell Johns  |
| 2:40 – 3:00 pm | Break                                                                 |
| 3:00 – 3:30 pm | Theory of Bicontinuous Microemulsion Viscosity Considering Interfacial Phenomenon  
Pooya Khodaparast and Russell Johns  |
| 3:30 – 4:00 pm | Incorporation of Physical Viscosity Model into a Chemical Flooding Simulator  
Pooya Khodaparast and Russell Johns  |
| 4:00 – 4:30 pm | Compositional Dependence of Viscosity in Microemulsion Systems  
Daulet Magzymov, Pooya Khodaparast, and Russell Johns  |
| 4:30 – 5:00 pm | Discussion of Research Direction  |
| 5:00 pm      | End of Meeting                                                          |