Ring 1: The awards keep coming!

Shortly after his election to the National Academy of Engineering, John Monnier was awarded the 2017 AICHE Chemical Reaction Engineering Division’s Practice Award for his work in epoxidation catalysis. A standing room only session was held in his honor at the Annual AIChE Meeting in the Minneapolis Convention Center. Prof. Monnier was on his best behavior.

Not to be outdone, Frank Gupton’s team was awarded $25 million from the Gates Foundation for his Medicines for All (M4ALL) center, whose mission is to improve access to affordable, high-quality medicines. This is done by reducing the cost of active pharmaceutical ingredients through among other things – better catalyst synthesis.

Oh, and in the process of kicking off his center, Frank learned of his reception of one of the two nationwide 2018 ACS Awards for Affordable Green Chemistry. Who will be next to top that?

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**VCU Engineering's Medicines for All awarded $25 million to increase access to lifesaving medications**

Frank Gupton (left) and Virginia Governor Terry McAuliffe at the August kickoff of the Medicines for All Center at VCU.

**CeRCaS News Blast 11/7/17**

**CRE Practice Award Session participants from left:** Lars Grabow (Houston, coChair), Paul Barger (UOP), Aditya Bhan (Minnesota), Our Man Monnier, JR Regalbuto (coChair), Bob McCabe (NSF, Chair), Carsten Sievers (Georgia Tech), Raj Gounder (Purdue), and Joseph Holles (Wyoming).
Improving Pharmaceutical Processing with Palladium/Graphene Catalysts

Also look for results from a CeRCaS-related project in Science (the paper will appear in print 11/22 and will appear first online). You saw it here first. Using simultaneous strong electrostatic adsorption (co-SEA), ten different pairs of homogeneously alloyed bimetallic nanoparticles have been prepared on a silica support. The average size of all particles is about 1 nanometer!
Remember, all members are welcome on all monthly update calls.

<table>
<thead>
<tr>
<th>Update Links</th>
<th>Project</th>
<th>Principal Investigators</th>
<th>Industrial Mentor</th>
<th>Reports</th>
<th>Call In*</th>
<th>Next Date**</th>
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</thead>
<tbody>
<tr>
<td><strong>Project 7</strong></td>
<td>Statistical design for guided nanoparticle synthesis</td>
<td>Lauterbach Wen (USC)</td>
<td>Deutsch (BASF)</td>
<td>Second Thursday (Afternoon)</td>
<td>1 800 753-1965</td>
<td>11/9 1:00 PM</td>
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<tr>
<td><strong>Project 8</strong></td>
<td>Fundamental Studies of Pd/Graphene for Cross Coupling and C-H activation</td>
<td>Ellis Gupton (VCU) Williams Chen Regalbuto (USC)</td>
<td>Soled (ExxonMobil) Fundrick (BI)</td>
<td>Second Tuesday (Afternoon)</td>
<td>1 800 753-1965</td>
<td>11/14 2:30 PM</td>
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<tr>
<td><strong>Project 9</strong></td>
<td>Continuous production of Supported Monometallic and Bimetallic Catalysts for Methanol Formation</td>
<td>Carpenter Tang (VCU) Monnier (USC)</td>
<td>Barger (UOP) Devlin (Afton)</td>
<td>Third Tuesday (Morning)</td>
<td>1 408 638-0968 US TOLL</td>
<td>11/21 10:00 AM</td>
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<tr>
<td><strong>Project 10</strong></td>
<td>Catalytic Upgrading of Hydrocarbons by Selective Oxidation</td>
<td>Khanna (VCU) Adams Williams (USC)</td>
<td>Weiss (ExxonMobil)</td>
<td>Third Thursday (Afternoon)</td>
<td>1 800 753-1965</td>
<td>11/16 2:30 PM</td>
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<td><strong>Project 11</strong></td>
<td>In situ XRD to study the effects of temperature and gas phase on the stability of monometallic catalysts and structure/stability of bimetallic catalysts</td>
<td>Carpenter (VCU) Monnier (USC)</td>
<td>McMillan (Eastman) Diao (INL)</td>
<td>Fourth Tuesday (Morning)</td>
<td>1 800 753-1965</td>
<td>11/28 11:00 AM</td>
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Ring 3: Come south for a spell!

The Fall CeRCA meeting will be held December 14-15 (Thursday and Friday) at the Hilton Columbia Center, a block away from “restaurant row” and two blocks west of the Capital Building. Superb amenities, comfy rooms. Discounted rates are $134 for the nights of Dec. 13-15. Call 803 744-7800 and mention “CeRCA” to get the group rate.

The meeting will begin 7:30 a.m. Thursday and conclude at noon, Friday. Come early Wednesday for a round of golf! A detailed meeting agenda will be distributed soon.

For more information:
http://www.che.sc.edu/centers/cercas/