



CeRCaS News Blast 4/6/23

Ring 1: Dive into the Action!

Our record number (13) of projects have kicked off with enthusiastic participation of our members. Remember that project updates are not just limited to the nominal mentors, but can be attended by all members. If any member wants to dive deeper into any particular project (what CeRCaS would be complete without a high-rise diving platform?), each recorded project update and the update slide deck can be accessed with the member password and username. Click on the link in the left column of each project. Happy diving.

Current Project Updates:

Update Links	Project	Principal Investigators	Industrial Mentor(s)	Upcoming (or Recent) Report Date (ET)
<u>Project 46</u>	Single Atom Catalysts via Switched Solvent Synthesis (SwISS)	Williams(USC) Regalbuto(USC) Blom(USC)	UOP ADM Clariant Evonik	3/15/23 1:00pm EST
	From Isolated Atoms to 2d-Raft Clusters via Switched Solvent Synthesis	Gupton(VCU) Ciston(UCD-B)		
<u>Project 47</u>	Synthesis of Well Defined Ru-Nanoparticles on an Oxide Support	Lauterbach(USC) Regalbuto(USC)	Heraeus Clariant	3/20/23 12:00pm EST
<u>Project 48</u>	Bimetallic Catalysts on Commercial Extruded Supports Prepared by Electroless Deposition	Tengco(USC) Monnier(USC)	Evonik Heraeus BASF INL Clariant	3/30/23 10am EST
<u>Project 49</u>	Imaging Atomically Dispersed and Aggregated Metals Supported On and Encapsulated In Zeolites	Katz(UCD-B) Kronawitter(UCD-B) Ciston(UCD-B) Gates(UCD-B) Kulkarni(UCD-B)	Shell XOM UOP BASF	3/9/23 2:00pm EST
	Reversible Formation of Encapsulated Nanoparticles from Atomically Dispersed Pt in Zeolites	Runnenbaum(UCD-B) Bare (UCD-B) Monnier(USC)		
<u>Project 50</u>	Facile Synthesis of Pd/GO Catalysts Immobilized on an Oxide Support	Gupton(VCU) Carpenter(VCU)	Biogen TC GreenChem	TBD

<u>Project 51</u>	Chemistry and Catalysis of Atomically Dispersed Pt and Pd in Zeolites	Kronnawitter(UCD-B) Runnenbaum(UCD-B) Kulkarni(UCD-B) Bare (UCD-B) Katz(UCD-B) Gates(UCD-B)	Shell UOP	3/9/23 2:00pm EST
<u>Project 52</u>	Understanding the CO2 Binding Site Created in Humid Environments in K-MER	Katz(UCD-B) Kulkarni(UCD-B) Monnier	XOM Phillips66 Mitsubishi	3/16/23 3:00pm EST
<u>Project 53</u>	Enabling Rigorous Quantification of Humid CO2 Adsorption/Desorption in Zeolites	Katz(UCD-B) Kulkarni(UCD-B)	XOM Phillips66 Mitsubishi	3/16/23 3:00pm EST
<u>Project 54</u>	Controlling Selectivity in Enantioselective Catalysts Using Partial Confinement in Zeolitic External Surface Pockets	Gupton(VCU) Raine(VCU) Katz(UCD-B)	Biogen TCG	4/6/23 12:00pm EST
<u>Project 55</u>	Improved Catalysts for Direct Reduction of CO2 to Methanol Using Bimetallic Catalysts Using Electroless Deposition Methods	Monnier(USC) Tengco(USC)	INL Aramco BASF Heraeus UOP	3/30/23 10am EST
<u>Project 56</u>	Effect of Extraframework Al and/or P Species on Alkane Cracking Catalysis	Katz(UCD-B) Kronnawitter(UCD-B) Runnenbaum(UCD-B) Kulkarni(UCD-B) Gates(UCD-B)	Aramco INL Shell BASF UOP	3/16/23 1:00pm EST
<u>Project 57</u>	Non-Precious Metal Phosphides and Nitrides as HER and OER Catalysts	Y-Lin(WSU) H-Lin(WSU) McEwen(WSU)	Phillips66 UOP	3/2/23 12:00pm EST
<u>Project 58</u>	Supported Mixed Metal Oxide Catalysts for Oxidative Dehydrogenation of Ethane to Ethylene	Tengco(USC) Monnier(USC)	Clariant Phillips66 INL Heraeus	4/3/23 2:00pm EST

Ring 2: Spring meeting on the West Coast! May 10-12th, 2023. Tee times at Pebble Beach to be provided (right, Alex?)

The agenda of our spring meeting (May 10-12) has a “get to know you” theme. For the benefit of the students in our center, we will hear from our new member companies, and for the benefit of our members, the project updates and additional research posters will be presented by our students and postdocs. A detailed agenda will be distributed shortly. The formal meeting will start at 1 pm Pacific time on Wednesday the 10th and will conclude about noon on Friday the 12th.

But wait, there’s more! Faculty PIs are asked to attend a Friday afternoon session for planning our Phase III renewal. And while the faculty work, the IAB can play. The faculty at UC Davis will host (within the Robert Mondavi Institute for Wine and Food Science¹) an informal Saturday visit to their university to include lab tours, meetings with students, and a superb lunch. See the Manetti-Shrem Museum² and the UC Davis Arboretum and Garden³ in advance of your own wine tour! Nearby hotels are available.^{4,5} RSVP to follow...

1. <https://wineserver.ucdavis.edu/about/facilities/academic-buildings>
2. <https://manettishremmuseum.ucdavis.edu/>
3. <https://arboretum.ucdavis.edu/>
4. Hyatt Place UC Davis (0.4 miles, ~7 min walk): https://www.hyatt.com/en-US/hotel/california/hyatt-place-uc-davis/smfzu?src=corp_lclb_gmb_seo_smfzu
5. Hilton Garden Inn Davis Downtown (1.2 miles, 20–25 min walk): https://www.hilton.com/en/hotels/smfdagi-hilton-garden-inn-davis-downtown/?SEO_id=GMB-AMER-GI-SMFDAGI&y_source=1_MTI0Mzc0OTktNzE1LWxvY2F0aW9uLndlYnNpdGU%3D

Ring 3: Meeting accommodations must be made soon!

The meeting venue is the Doubletree by Hilton San Francisco Airport North Bayfront (5000 Sierra Point Parkway, Brisbane, CA 945005, phone 415 467-4400. It is minutes from the airport and located on the beautiful Bay Trail. Rooms have been discounted for the nights of May 9th - 11th for the “NSF Meeting.” The deadline for the discounted rates is **April 12th**. Use this link to reserve your room:

<https://www.hilton.com/en/attend-my-event/sfonodt-nsf-66a0a5b5-ecb0-4e8f-836b-af5667e8529f/>



See you next month!

For more information:

<http://www.che.sc.edu/centers/cercas/>