



COLUMBIA ELECTROCHEMICAL ENERGY CENTER

Design, Study, and Implement Sustainable Energy Storage and Conversion

Fall Symposium Agenda

September 15, 2022

Joseph D. Jamail Lecture Hall, Columbia Journalism School, Pulitzer Hall

The CEEC Fall Symposium will engage attendees on scaling and accelerating the deployment of electrochemical energy storage and conversion technologies. Symposium panels will draw on learnings from CEEC labs, industry partners, and startups spun out of CEEC labs. A poster session curated by CEEC's 50 PhD students and postdocs will provide industry participants with an atoms to markets view of electrochemical energy applications including fast-charging EV LiB's, grid scale storage, electrolysis, hydrometallurgy, and more.

8:30 – 9:00	Check-in / Continental Breakfast (Lecture Hall)
9:00 – 9:10	Welcome, Overview of Day Alan West – <i>Director, CEEC; Professor, Chemical Engineering, Columbia University</i>
9:10 – 9:15	Keynote Introductions Shih-Fu Chang – <i>Dean, Fu Foundation School of Engineering and Applied Science, Columbia University</i>
9:15 – 10:00	Keynote – Towards net zero Yang Shao-Horn – <i>JR East Professor of Engineering, Materials Science and Engineering, MIT</i>
10:00 – 10:30	Break
10:30 – 11:15	CEEC Faculty Talks – Materials science in scaling & deployment Lauren Marbella – <i>Assistant Professor, Chemical Engineering, Columbia University</i> Alex Urban – <i>Assistant Professor, Chemical Engineering, Columbia University</i>
11:15 – 12:15	Panel – Materials challenges in scaling and deployment Yuan Yang, Moderator – <i>Associate Professor, Applied Physics and Materials, Columbia University</i> <ul style="list-style-type: none">• Kathy Ayers – <i>Vice President of Research & Development, Nel Hydrogen</i>• Paul Corbett – <i>Research Scientist, Electrolysis and Electrification, Shell</i>• Melissa Lott – <i>Director of Research, Center for Global Energy Policy, Columbia University</i>
12:15 – 1:45	Lunch



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Agenda (continued)

- 1:45 – 2:30 **CEEC Faculty Talks – Real-world deployment**
Matthias Preindl – *Associate Professor, Electrical Engineering, Columbia University*
Bolun Xu – *Assistant Professor, Earth and Environmental Engineering, Columbia University*
- 2:30 – 3:30 **Panel – Real-world scaling and deployment: taking ideas out of the lab**
Dan Esposito, Moderator – *Associate Professor, Chemical Engineering, Columbia University*
- Anantha Desiken – *Executive Vice President, Chief Innovation and Technology Officer and Member of Executive Leadership Team, ICL Group*
 - Angelica Ramdhari – *Director, Resilient Solar, Solar1*
 - Constantine Spanos – *R&D Senior Technical Program Manager, ConEdison*
- 3:30 – 3:50 **Break**
(Group photo)
- 3:50 – 4:35 **Panel – From CEEC PhD student to Activate Fellow and startup founder**
Andrew Chang, Moderator – *Managing Director, Activate New York*
- Marissa Beatty – *Founder, FilterPig; Fellow, Activate New York*
 - Rob Mohr – *Founder, Innate Energy; Fellow, Activate New York*
 - Jon Vardner – *Founder, Still Bright; Fellow, Activate Boston*
- 4:35 – 4:45 **Wrap Up and Summary of Outcomes**
Dan Steingart – *Professor, Earth and Environmental Engineering, Columbia University*
- 4:45 – 6:30 **Poster Session / Reception**
- 6:30 **Departures**



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