

Schedule summary

Time	September 5, 2019
8:30	Registration
	<i>Session A (Lecture hall) – Moderator: Mary Kraft</i>
8:45	Welcome remarks
9:15	Plenary talk AVS Prairie Chapter Early Career Research Award <u>Ying Diao</u> , University of Illinois Directing assembly of organic electronics inspired by living systems
10:15	<u>Cecilia M. Gentle</u> , University of Illinois - Deciphering the hidden complexity of heterostructured nanocrystals
10:30	<i>Coffee break and poster presentations (Exhibition hall)</i>
	<i>Session B (Lecture hall) – Moderator: Mauro Sardela</i>
11:00	Plenary talk AVS Prairie Chapter Outstanding Research Award <u>Jeffrey Elam</u> , Argonne National Laboratory Elucidating the mechanisms for atomic layer growth through in situ studies
12:00	<u>A. M. Boscoboinik</u> , University of Wisconsin-Milwaukee - Decomposition of methyl thiolates on Cu(100)
12:15	<u>Devika Choudhury</u> , Argonne National Laboratory - Atomic layer deposition of HfO₂ thin films using Hf(BH₄)₄ and H₂O
	<i>Lunch (Exhibition hall and Meeting room)</i>
12:30	AVS Prairie Chapter business meeting (open to all) and lunch
	<i>Session C (Lecture hall) – Moderator: Kathy Walsh</i>
2:00	Plenary talk <u>Nadya Mason</u> , University of Illinois Electronic transport in strain-engineered graphene
3:00	Plenary talk <u>Stephen Jacobson</u> , Indiana University Bloomington Integrated micro- and nanofluidic devices for single-particle tracking of biological processes
4:00	<i>Coffee break and poster presentations (Exhibition hall)</i>
	<i>Session D (Lecture hall) – Moderator: Timothy Spila</i>
4:30	<u>Steven Tait</u> , Indiana University Bloomington - Tuning support interactions in metal-ligand single-site heterogeneous catalysts on powdered titania supports
4:45	<u>S. Murray</u> , University of Illinois - The contact-driven reduction of Mn₂O₃ to Mn₃O₄ via a propagating phase transformation front during flash sintering
5:00	<u>Feifei Li</u> , Loyola University - Improved interfaces by molecular surface chemical modification in organic electronics
5:15	<u>Rachael G. Farber</u> , University of Chicago - Nano-scale characterization of the growth and suppression behavior of niobium hydrides for next generation superconducting RF accelerators and light sources
5:30	<u>Justin Bergfield</u> , Illinois State University - Emergence of Fourier's law of heat transport in quantum electron systems
5:45	<i>Closing reception and poster awards ceremony</i>

List of events

- 8:00 – Poster and vendor exhibit setup starts (Exhibition hall)
- 8:30 – Registration opens (Exhibition hall)
- 8:45 – Conference talks start (Lecture hall)
- 10:30 – Equipment Exhibition and poster area opens
(Exhibition hall)
- 10:30 – Coffee break at the Equipment Exhibition
(Exhibition hall)
- 10:30 – Poster presentations and judging
(Exhibition hall)
- 11:00 – Conference talks resume (Lecture hall)
- 12:30 – Lunch served (Meeting room)
- 12:40 – AVS Prairie Chapter business meeting – open to all
(Meeting room)
- 2:00 – Conference talks resume (Lecture hall)
- 4:00 – Coffee break at the Equipment Exhibition
(Exhibition hall)
- 4:00 – Poster presentations and judging
(Exhibition hall)
- 4:30 – Conference talks resume (Lecture hall)
- 4:30 – Equipment Exhibition closes
- 5:45 – Closing reception and poster awards ceremony
(Exhibition hall)

Exhibition hall – 2008 SC and 2nd floor lobby SC

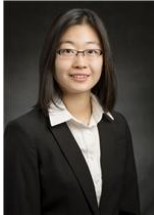
Lecture hall – 190 ESB

Meeting room – 280 MRL

Plenary talks

9:15

Directing assembly of organic electronics inspired by living systems



Ying Diao

Assistant Professor, Dow Chemical Company Faculty Scholar
Chemical and Biological Engineering, University of Illinois at Urbana-Champaign
2019 AVS Prairie Chapter Early Career Award

11:00

Elucidating the mechanisms for atomic layer growth through in situ studies



Jeffrey W. Elam

Sr. Chemist/Group Leader, Functional Coatings
Argonne National Laboratory
2019 AVS Prairie Chapter Outstanding Researcher Award

2:00

Electronic transport in strain-engineered graphene



Nadya Mason

Associate Professor
Physics, University of Illinois at Urbana-Champaign.
Director
Illinois Materials Research Science and Engineering Center

3:00

Integrated micro- and nanofluidic devices for single-particle tracking of biological processes



Stephen Jacobson

Professor, Dorothy & Edward Bair Chair
Chemistry, Indiana University Bloomington