

**SEPARATIONS DIVISION**  
**American Institute of Chemical Engineers**  
**2020**

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**MINUTES**

Separations Division Online Planning Meeting

Monday, June 22, 2020 – 2:00pm – 3:00pm (EST)

***Attendance (via phone or Webex):***

Ranil Wickramasinghe	Anand Vennavelli	Alice He
Atanas Serbezov	Tarun Poddar	Marcus Mello
Dan Summers	Haiqing Lin	Marina Tsianou
Isaac Gamwo	Paul Scovazzo	Stefano Brandani
Angela Lueking	Steve Thiel	Andrew Soley
Handan Tezel	Mahdi Malmali	Peter Ravikovitch
Josh Thompson	Heather Chenette	Steve Richey
William Phillip		

***2020 Annual Meeting Update (Ranil Wickramasinghe)***

See the Appendix to the Minutes for details.

The 2020 Annual meeting is still planned as a face-to-face meeting. A final decision on the format (face-to-face or virtual) is expected by the end of August.

The Division has been allocated 5 meeting rooms from Saturday till Friday. The Division will not schedule sessions on Saturday or Sunday. The Division programming will start on Monday with two back-to-back plenary sessions. There will be no other sessions running in parallel with the plenaries. The Division programming will run from Monday until Friday. Ranil has requested additional rooms early in the week in an attempt to avoid Friday sessions.

***2020 Awards Update (Ranil Wickramasinghe)***

See the Appendix to the Minutes for details.

The Gerhold award winner is Tony Cai. The Kunesh award winner is Anand Vennavelli. The Innovation award winner is Haiqing Lin. The Founders award winner is Dibakar (DB) Bhattacharyya.

There is a submission to the Education and Outreach award. This submission will be discussed at the annual planning meeting in accordance with the rules for the award.

***Website Update (Stephen Thiel)***

The Division leadership information has been updated. The link to the Division's LinkedIn page has been fixed. AIChE has been asked to remove the names of past winners in the graduate student award descriptions.

A menu item will be added with links to current and past award winners. A link to the Division's Engage platform will be added with explanation of its purpose. A menu item will be added with information about the Division's programming areas.

**Action Item:** Area Chairs to send Steve one-paragraph descriptions of their area focus and scope.

***On-Line Community "Engage-Separations" (Paul Scovazzo)***

The Engage platform has a "Library" feature which can be used as a document repository. There was a discussion on the type of documents that might be stored on the Engage platform. No decisions were made. The discussion will continue.

***Newsletter (Marina Tsianou)***

2019 newsletter will be completed in a few weeks. 2020 newsletter will be completed before the 2020 annual meeting.

***Treasurer's Update (Tarun Poddar)***

There was an inquiry from AIChE about the 2021 Division dues. There was a consensus among the Division leadership to keep the dues at their present level.

***TED-SEP Rapid Fire Session (Paul Scovazzo)***

The TED-SEP session was suspended several years ago in an attempt to reduce the total number of sessions. The TED-SEP session was an innovative programming approach and should be reconsidered for 2021.

**APPENDIX**

# AIChE Separations Division

## 2020 Online Planning Meeting

**22 June 2020**

**1:00 PM – 2:00 PM CDT**



# 2020 Annual Meeting Update

				Saturday, November 14			Sunday, November 15		
Room	Capacity	Cap -20%	Setup	AM	PM1	PM2	AM	PM1	PM2
Room 1	60	48	Theater						
Room 2	74	59	Theater						
Room 3	175	140	Theater						
Room 4	175	140	Theater						
Room 5	175	140	Theater						



# 2020 Annual Meeting Update

Monday, November 16		
AM	PM1	PM2
		02G01 Advances in Bioseparations and Modeling
		02A00 <u>Distillation Processes</u> <u>Fundamentals, Developments, and Applications</u>
02000 Division Plenary: Gerhold and Kunesh Awards on Separations (Invited Talks)	02001 Division Plenary: Major Separations Challenges	02D01 In Honor of Jerry Lin I (Invited Talks)
		02B00 Plenary Session: Crystallization and Evaporation - Area 2B (Invited Talks)
		02E00 Area Plenary: Adsorption and Ion Exchange - In Honor of Giorgio Carta (Invited Talks)



# 2020 Annual Meeting Update

Tuesday, November 17		
AM	PM1	PM2
02G01 Advances in Bioseparations and Modeling	02G05 Complex Biomolecule Isolation and Clearance	02D09 Membrane Modeling and Simulation I
02B06 Nucleation and Growth I	02B04 Nucleation and Growth II	02E10 Experimental Methods in Adsorption
02D20 In Honor of Jerry Lin II (Invited Talks)	02D21 In Honor of Jerry Lin III (Invited Talks)	02B03 Crystallization of Pharmaceutical and Biological Molecules I
02A01 Distillation: Recent Developments in Advanced Techniques and Process Intensification	<u>02E13 Plenary on Fundamentals and Applications of Adsorption and Ion Exchange</u>	02E08 CO2 Capture By Adsorption I
02E01 Chromatographic Separations and SMB	02F00 Advances in Fluid Particle Separations	<u>02D14 Surface Engineered and Responsive Membranes</u>
	02F01 Fluid Particle Separation in Energy and Environmental Systems	
	<b>Poster Session 3.30 -5.00 pm</b> <b>2 sessions in same room and programming slot 21 min talks total 7 talks</b>	



# 2020 Annual Meeting Update

Wednesday, November 18		
AM	PM1	PM2
02D19 Membrane Modeling and Simulation II	02H01 Hybrid Separation Processes	02D05 Bioinspired Membranes and Membrane Processes
02B01 Crystallization of Pharmaceutical and Biological Molecules II	02B02 Continuous Crystallization Processes	02B05 Modeling and Control of Crystallization
<u>02D10 Membrane-Based Organic Solvent Separations</u>	02D04 Antifouling Membranes for Water Purification	02D06 Charged Polymers for Membrane-Based Water and Energy Applications
02E15 CO <sub>2</sub> Capture By Adsorption II	02E03 Adsorbent Materials	02E04 Adsorbent Materials for Sustainable Energy and Chemicals
02D12 Membranes for Electrochemical Conversions and Applications I	02D18 Membranes for Electrochemical Conversions and Applications II	02D00 Highly Selective Separations with Membranes I



# 2020 Annual Meeting Update

Thursday, November 19		
AM	PM1	PM2
02D08 Membrane Formation	02D03 Advanced Polymeric Membranes for Gas Separation	02D11 Membranes for CO <sub>2</sub> Capture
02B07 Particle Formation and Crystallization Processes from Liquids, Slurries, and Emulsions	02B08 PAT and Process Monitoring in Crystallization Development and Manufacturing	02B09 Solid Form Selection: Cocrystals, Salts, Solvates, Polymorphs, and Beyond
02E16 Structured Adsorbents: Beyond Pellets and Beads	02E14 PSA/TSA	02E12 Molecular Simulation of Adsorption
02E05 Adsorbent Materials: MOFs	02E06 Adsorption Applications for Sustainable Energy and Chemicals	02E07 Characterization of Adsorbent Materials
02D00 Highly Selective Separations with Membranes II	02D16 Water Treatment, Desalination, and Reuse I	02D17 Water Treatment, Desalination, and Reuse II



# 2020 Annual Meeting Update

Friday, November 20		
AM	PM1	PM2
02D13 Mixed-Matrix Materials for Gas Separation		
02C00 Developments in Extractive Separations: Processes		
02E11 Molecular and Data Science Modeling of Adsorption	02D02 Advanced Inorganic Materials for Membrane Gas Separation	
02E09 Diffusion, Transport, and Dynamics in Adsorption Systems		
02D17 Water Treatment, Desalination, and Reuse III	02C01 Developments in Extractive Separations: Solvents	



# 2020 Awards

Award	Nominees	Winner
Gerhold	4	Tony Cai
Kunesh	2	Anand Vennavelli
Innovation	3	Haiqing Lin
Education and Outreach	1	Natacha Melgar*

**Education and Outreach Award:** One submission (Natacha Melgar, U Arkansas) to be discussed at the annual planning meeting.



# 2020 Graduate Student Awards

<b>Distillation &amp; Absorption (2a)</b>	<b>1 winner</b>
<b>Crystallization &amp; Evaporation (2b)</b>	<b>1 winner</b>
Extraction (2c)	No winners
<b>Membrane-Based Separations (2d)</b>	<b>3 winners</b>
Adsorption & Ion Exchange (2e)	No winners
Fluid-Particle Separations (2f)	No winners
Bioseparations (2g)	No winners

