

Contaminants & Impurities in Ethylene Plants Subcommittee – December 21st, 2023 Meeting Minutes

Team Members

Robert Alvers	X	Scott Hailey	X	Ross Perchuk	X
Andre Bernard	X	Omar Hamid		Matt Pretz	
Joice G. Boll	X	Dwight Hines		Debby Rossana	X
Jessica Burgin		David Hood		Yong Wang	
Mark Davis		Joe Lally		Mark Whitney	X
Sherri Elder		Vinay Naik	X	Lisheng Xu	
Alex Fritz	X	Jennifer Nill			

1. Anti-trust statement

“No activity of the Committee shall involve the exchange, collection or dissemination among competitors of information or be used for the purpose of bringing about or attempting to bring about any understanding or agreement written or oral, formal or informal, express or implied, among competitors, with regard to costs, prices, or pricing methods, terms or conditions of sale, distribution, production quotas or other limitations on either the timing or volume of production or sales, or allocation of territories or customers.”

2. Updates from Main EPC Committee

A new session, Ethylene Producers General Topics, has been added on Monday with the following papers.

- Decarbonizing Olefins Production (Michael Tallman, KBR)
- Carbon Tax Impact on Ethylene Plants (Mark Whitney, Linde Engineering)
- Manufacturing of Sustainable Ethylene from Captured CO₂ (James Middleton, Technip Energies)
- Advances in Purification of Refinery Off-Gas Streams - Including a New Lead-Free Arsine Adsorbent (Allan Hatami, UOP)

3. Key Dates

- Draft Program Available for Review: Monday, January 8th, 2024
- Comments from Chairs Due: Friday January 12th, 2024
 - Final changes due in Confex. (Times, speaking order, substitutions)
 - The Session has been set in Confex – This item is considered complete.

- All info in Confex for invited Sessions & Keynotes: Friday January 12th, 2024
- Final Program Posted: Wednesday, January 15th, 2024
- Paper submission in confex Closes: March 10th, 2024
- EPC Paper submission & Permission to Publish & Presentation to Session Chair prior to the Conference (suggest 1 week early/ March 17th)
- Virtual Dry Run -> Suggest Week of March 4th or March 11th)
- The Conference will be between March 24th to 28th 2024, in New Orleans
- T4060 Contaminants and Impurities in Ethylene Plants: Tuesday March 26, 2024, 8:00 AM – 11:00 AM. In parallel to Rotating Equipment.
- T4095 Contaminants Tutorial: Tuesday March 26, 2024, 13:00 to 17:30. In parallel to Technology & Fundamentals.

4. Tutorial on Contaminants Removal Update (Debby)

- Need to setup a date to review draft presentations. Targeting end of January. (Debby)

5. Next Steps

- Communicate Session Agenda to Speakers & Subcommittee.
- 20 minutes allocated per presentation & 5 minutes questions.
- Agenda as per following
 - Welcoming Remarks (5 minutes)
 - Detailed Characterization of Plastic Pyrolysis Oils and Their Contaminants By FT-ICR MS and GCxGC (25 minutes)
 - Impact of α -Olefins and Diolefins from Polyolefin Pyrolysis Oil to the Catalytic Cracking Mechanistic Pathways (25 minutes)
 - Advances in Dechlorination of Plastic Pyrolysis Oil (25 minutes)
 - Break (20 minutes)
 - Ammonia: Sources, Impacts, Monitoring, and Solutions (25 minutes)
 - Amine Additives as a Source of Ammonia in Ethylene Production and Its Control: A Case Study. (25 minutes)
 - Tar in Quench Systems: Causes, Consequences, & Care Solutions (25 minutes).
 - Concluding Remarks (5 minutes).
- Communicate above dates to speakers (Andre to follow up).

- Need to setup meeting early January with speakers on ammonia topics – need to avoid repetition in presentations. Suggest reviewing outlines. (Andre to setup meeting)

6. Schedule Dry Run

Spring break in the Houston area is the week of March 11th. Will therefore target the week of March 5th for the dry run. Looking at Tuesday or Monday (Andre to follow up)

7. Other Business

None

8. Schedule Next Meeting

Next meeting will be Thursday Jan 25th, 15h00 CST.