

ETHYLENE PRODUCERS' TECHNICAL SUBCOMMITTEE MEETING

Date: Thursday: October 14, 2021

Time: 4:30 to 5:30 PM CDT

Attendance:

		Meeting Attendance
Last Name	First Name	10/14/2021
Arora	VK	
Buehler	Jack	X
Charlton	Bill	X
de Barros	Jose	
Devakottai	Bala	X
Elam	Jeff	
Fox	Rob	X
Hamilton	Jason	X
Imran	Muhammad	X
Kapur	Sanjeev	X
Krinock	Robert	X
Krumins	Aivars	X
Lal	Ravi	X
Le Geyt	Darren	
Lee	Deborah	X
Polito	Charles	X
Rafique	Humera	X
Spicer	David	X
Tallman	Michael	X
Ting	Tiong-Ee	X
Whitney	Mark	X
Zygula	Timothy	X

Agenda:

- 1) Anti-Trust Statement Read by Jason Hamilton  
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) Five Minutes on Safety – Talked about Winter weather precautions and upcoming Halloween Weekend
- 3) Welcome new members and have them each give a brief introduction
  - a. Bill Charlton
  - b. Charles (Chuck) Polito
  - c. David Spicer
- 4) **All Session Leaders: Report Status of Abstract Submissions (Deadline for submissions in November 1<sup>st</sup>)**
  - a. **Circular/Decarburization: Aivars (Potential co-session)**

- i. **No submitted abstracts to date.**
  - 1. Has contacted 2 people outside
    - a. (Plastic Energy, etc) See last month's minutes.
    - b. Haldor Topsoe
  - ii. **Meeting with Richard Rolke about joint session with operations session. Should know something this afternoon.**
  - iii. Mohamed is soliciting Technip for a paper
  - iv. Mike Tallman may have a couple of abstracts (KBR and Mura, Technip)
- b. **Panel Session – Energy Transition & Decarbonization = “Big Picture View” (Sanjeev)**  
 This session will focus on the big picture issues and strategies to address Energy Transition & Decarbonization within the heavy industries, especially petrochemical industry. Petrochemical industry will play a significant role and contribute towards global efforts in addressing climate change and sustainability.

Our panelists are experts in policy matters, energy studies and bridging the science and policy to develop solutions for a sustainable future. We intend to focus on the following key issues with our panel members:

- Tackling industrial emissions through climate policy initiatives and multilevel engagement
  - Discuss the key policy and governance considerations for achieving decarbonization
- Energy Transition & Geopolitics
- Path to sustainability & circular economy

Panelist from”

- i. **Big Picture of Emission Policies, e.g. Paris Agreement. Panelist from SCR**
- ii. **Energy Transition and Geopolitics: Panelist from Rice Univ**
- iii. **Path Sustainability and circular economy: Panelist from Rice Univ**
- iv. **Key note speaker may also be invited as panelist.**

**c. Fundamentals Session: Jack and Bob**

**i. Potential Papers/Abstracts:**

1. RDR eReactor: CO2-Free Steam Cracking – Harri from Coolbrook (**formally submitted**)
2. Dow's UNIFINITY™ Dehydrogenation Technology: Reliably and Economically Filling the Propylene Supply Gap– Dow (abstract being updated to include high level information on e-cracker concept)
3. Steel to Ethylene - UofGhent
4. Catalyst for Conversion of Plastic Waste to 85% Olefin Yield – UofGhent
5. Cracking Renewable bio-based feedstock in cracker furnace - Lyondell-Bassell - title will change
6. Blue H2 and impacts of furnace firing and plant fuel balance- TechnipEnergies
7. Propane dehydrogenation and steam cracking heuristic of plant integration – to be submitted by Linde (Mark Whitney)

**Bob and Jack will send out the abstracts to the group once they are all submitted.** Vote to be held to rank top 6 papers. Email vote will be held at future date after closing of abstracts. Generally a week after abstract submittals. **Jason to schedule a meeting for late November 11th to discuss vote and potential moving Dec 6, is the abstract acceptance/rejection date.**

**d. Ethylene Plant Distillation Tutorial: Bala and Mohamad**

**i. Commitment from Sulzer, Koch-Glitsch, Nova, perhaps UOP**

1. **One topic on scanning of distillation columns**
2. **Each tutorial will cover a separate topic. They will provide us a minimum of a slide deck with notes.**
3. **Currently looking for a couple of more topics**

5) Open Discussion

Future Meeting Dates

- a. November 11 (Review of selected papers and dispersal of any excess)
- b. December 9, 2021 (In-Person, if allowable)
- c. February 10, 2022 (In-Person, if allowable)