

ETHYLENE PRODUCERS' TECHNICAL SUBCOMMITTEE MEETING

Date: Thursday: June 15, 2017

Time: 4:30 to 5:30 PM CDT

DRAFT

Location: Doubletree by Hilton Hotel Houston, TX

Members: VK Arora, Jack Buehler, Heath Chisholm, Bala Devakottai, Rob Fox, Sanjeev Kapur, Robert Krinock, Aivars Krumins, Ravi Lal, Darren Le Geyt, Krishna Merchant , Alberto Morales, Humera Rafique , Mike Tallman, Mark Whitney, Greg Yeo, Tim Zygula,

Present: VK Arora, Jack Buehler, Heath Chisholm, Bala Devakottai, Rob Fox, Robert Krinock, Darren Le Geyt, Alberto Morales, Humera Rafique, Mark Whitney, Greg Yeo, Tim Zygula,

Absent: Sanjeev Kapur-trip, Aivars Krumins-trip, Ravi Lal-mtg conflict, 2017, Krishna Merchant-vac, Mike Tallman-trip

Distr: Above + ethyleneproducerscommittee@gmail.com

AGENDA

- I. Reading of the 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.
- II. Five Minutes on Safety (5 mins)
- III. Approval of Jan 26, 2017 minutes....
- IV. Subcommittee discussion of Spring Mtg (+/-'s, other comments)
 - a. Fundamentals - Jack B / Bob K.....
 - b. "Large Capacity Plants & Their Constraints"- Sanjeev K, Krishna M and Mark W...
 - c. Environmental /Flare Regulations - Aivars, Greg and Mike...
 - d. Any direction/comments from main EPC - Mike
- V. TSC – Other New Business
 1. Subcommittee Leadership –
 2. Session Leadership -
 3. New members -

Future Planning Sessions...

- * June 15, 2017
- * Aug 10, 2017
- * Sept 21, 2017
- * Nov 2, 2017
- * Dec 7, 2017
- * Feb 1, 2018

2018 Ethylene Producers' Committee Conference
Orlando Marriott World Center
Sunday, April 22-26, 2018
8701 World Center Dr
Orlando, FL 32821
United States

Actual June15 Mtg

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II. Five Minutes on Safety (5 mins) Humera: Summer heat safety. Important to be adequately hydrated, avoid caffeine drinks, & take breaks in the shade. Greg: Recent London high rise apartment fire & deaths. Folks who survive these type situations usually exit the bldg. immediately, once an alarm goes off. A number of ethylene related projects are in high rise bldgs throughout the world. Questioned some bldg./company safety plans to remain in place & wait for instructions.

III. Approval of Jan 26 minutes....All acknowledged getting & accepting

IV. Subcommittee discussion of Spring Mtg (+/-'s, other comments). Ravi Lal issued the complete session summary, head counts, comments to everyone in advance of the June 15 mtg. The summaries included a number of possible papers/authors, but none were submitted for the main Fundamentals session.

We have received 1 possible paper of Furnace SU (Kari Enqvist), however it is more suited to Operations Session & they are interested in the paper.

a. Fundamentals - Jack B / Bob K

* Session had 7 papers, most sessions have 5-6 papers. 7 is OK if we are an afternoon session, which allows some time over-run. Strive for 6 papers, this allows for a non-hurried feel to the session. Interest in having more academic papers – **Greg** to follow up on with AIChE/EPC to specifically invite "C2H4 Related" academic paper submittals to the Spring EPC. Need to clarify to anyone submitting a paper we are expecting an actual paper, so as not to deal with the extended ppt, that we accepted this year.

b. "Large Capacity Plants & Their Constraints"- Sanjeev K, Krishna M and Mark W...

* Session had a few substitutions within the last few weeks leading up to the EPC, so it is difficult to control a papers quality at that point.

* Callidus paper was more of a sales pitch, however they agreed to fill in for another paper that was pulled.

c. Environmental /Flare Regulations - Aivars, Greg and Mike...

* Session went well in general, a few papers had too many acronyms. Watch out for these with authors.

d. Any direction/comments from main EPC – Mike - nothing

e. General Discussion:

* Group feeling is that overall quality of papers has deteriorated over the past 6 years. Why?: AIChE official submittal dates allows for little real time to review/edit presentations. We need to get papers & ppts in earlier to allow real editing/commenting. When emails are sent to paper authors, we should tell them we can/will edit their papers, and have expectations about content. When AIChE issues target dates for submittals, we need to allow at least an extra 2 weeks for internal reviews. Entire Tech SC will get more involved with reviewing papers – this can be a big job. We could have dry-runs of Tech session... this requires more

prep time. For the main Fundamentals session, subcommittee members have taken direct part in voting on abstract submittals & selecting final papers. After abstract voting, all logistics, have been up to individual Session Leaders/Co-Leaders. This year's Session Leaders should work on a way to share review load & involve more committee folks in papers/ppt reviews.

- * Subcommittees have little control over what abstracts are submitted. We can go back to our respective companies requesting papers, however that does not always work out. In many past years, we have a few possible possible papers for the August mtg & then have 10 -15 when abstract submissions are finally closed.
- * Confex submittal system caught some sessions leaders off-guard when additional paper were placed in their sessions
- * Discussed some other potential Joint sessions:

- * Quench Tutorial – a lot of interest in this topic
- * CW/HP Steam tutorial
- * Plant SU, commissioning costs/challenges: environmental, very large equipment
- * Debottlenecking, side crackers
- * Converting gas cracker to partial liquids cracker, when feedstock prices reverse again
- * Do tutorials on a rotating 7 year cycle

Greg was going to take these ideas to the main EPC committee.

V. TSC – Other New Business

1. Subcommittee Leadership: For the next EPC planning cycle (2017-2018) –
 - * **Rob Fox** will be the bi-monthly mtg chair (note taker/time keeper/organizer of mtgs)
 - * **Greg Yeo** will be the co-chair, and the main EPC committee contact person
 - * Bob Krinock/Mile Tallman served in these positions for the past 3 years
2. Session Leadership – Agreed to defer this until the August mtg
3. New member discussions – Bob K, earlier polled everyone on their plans to return for the 2017-2018 EPC planning Cycle, see attached spreadsheet. Alain Chepda has returned to France. With Alain's leaving we are down to 17 active members. Except for a few folks, that were caught up in mergers, acquisition, etc... we have one person only from most operating /service companies. Reviewed bios from the 2 potential Sasol reps (Samantha Borssen, and Thomas Wieslaw).
 - * **Greg** will go back to Jeff Nichols at Sasol & tell him to select one person for our sub-committee, we would take on either.
 - * The potential rep Sherri Elder from ChemTreat would be more suited to Feedstocks – forwarded her name to Mark Brayden.

I will issue the June 15 minutes, & then turn over mtg set-up going forward to Rob Fox.

Submitted: June 29, 2017-RJK

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