**Minutes of Meeting**

Location: Doubletree Hotel, Houston, TX

Present: In Person: VK Arora, Jack Buehler, Chell Chellappan, Bala Devakottai, Thomas Emmert, Sanjeev Kapur, Aivars Krumins, Ravi Lal, Krishna Merchant, Mike Tallman, Mark Whitney, Greg Yeo, Tim Zygula

Conference Call: Rob Fox, Humera Rafique

Absent: Alain Chepda, Anthony Hakim, Robert Krinock, Darren Le Geyt, Alberto Morales

Distr: Above + ethyleneproducerscommittee@gmail.com

Agenda:

1. Reading of the Anti-Trust Statement
2. Five Minutes on Safety
3. Approval of February 4, 2016 Meeting Minutes
4. Review of 2016 EPC Conference Sessions
   1. 40) Managing Capital Cost of Ethylene Based Petrochemical Investments
   2. 192) General Fundamentals of Ethylene Technology -
   3. 199) Feedstock Flexibility
5. 2017 Conference Planning
   1. Key dates and timeline
   2. Themes
   3. Paper Ideas / Joint sessions with other subcommittees
   4. Number of sessions and session leaders
6. 2016-2017 Technology Subcommittee Leadership – nominate Chair and Vice-Chair
7. Calendar for 2016 – 2017
8. New Business
9. Adjourn
10. **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.

1. **Safety Topic**

Bala mentioned a recent incident in which people had been injured after taking refuge from lightning under a tree. Trees should be avoided during lightning events and best place is a ditch or away from tall objects.

1. **Approval of Previous Meeting Minutes**

Minutes as prepared by Robert Krinock were approved without change.

1. **Review of 2016 EPC Conference Sessions**

The feedback from the three sessions conducted by the Technology Subcommittee during the 2016 EPC conference was reviewed as follows:

* 1. 40) Managing Capital Cost of Ethylene Based Petrochemical Investments – average attendance = 126 people, which was less than expected. Session received good feedback including Ron’s paper. Panelists’ written responses have been collected and verbal responses have been reviewed and will be uploaded onto the online library
  2. 192) General Fundamentals of Ethylene Technology – average attendance = 150 people. This session also received good feedback overall. Some had trouble understanding the dialect of the first speaker who was from China (but the content was fine).
  3. 199) Feedstock Flexibility – average attendance = 232, which was considered very good for the last session of the conference and on Thursday morning. This session had 5 papers in the end and also had generally good feedback. There was some issue with one of the papers PPT with a lot of graphics in the file.

Summary from the Feedback Forms as prepared by Ravi was distributed (as attached) and included comments on some of the papers, suggestions for future content and some volunteers for future papers.

1. **2017 Conference Planning**

Ideas and suggestions were made by various sub-committee members. After discussion the following ideas were agreed as worthy of further development:

* 1. Fundamentals – the annual session and there is a starting point with some abstracts held over from 2016. Jack Buehler and Robert Krinock will again chair, although VK Arora also expressed interest in helping.
  2. Review of technology options and implications of processes both upstream and downstream of the ethylene plant. Focus should be on what an ethylene process engineer might want to understand about both the up-steam sources of feed supply and derivative value chain. There is potential that this could be worked jointly with the Feedstock subcommittee. Sanjeev and Greg agreed to further develop this idea for further discussion at the next meeting.
  3. Review of maximum size of ethylene plants and constraints. Plants have been getting larger over time and this session would review the equipment size limitations, potential to design around current constraints and etc. Sanjeev, Krishna and Bala agreed to further develop this idea for further discussion at the next meeting.
  4. Review of process technology solutions to ethylene plant environment challenges. This would entail a review of technology and means to address various environmental concerns facing ethylene plant operators – such as flare, SCR and NOx reduction, WAO and other spent caustic treatment options, etc. There may be an introductory paper reviewing MACTs, permitting, etc. There is potential that this could be worked jointly with the Environmental subcommittee. Aivars, Greg and Mike agreed to further develop this idea for further discussion at the next meeting.

All of the above sessions should be developed further for discussion at the next meeting. The goal will be for the subcommittee to decide on the 2-3 sessions for the 2017 conference at the next meeting.

1. **2016-2017 Subcommittee Leadership**

Since there were no other volunteers, and since Robert Krinock and Mike Tallman have both expressed willingness to continue in their roles as subcommittee Chair and Co-Chair for the coming cycle, it was agreed that they will remain in these roles. Others expressed interest in taking the roles next year.

1. **Meeting Schedule**

The next formal group meeting will be held at the Doubletree Hotel at Greenway Plaza: August 4, 2016.

Subsequent meetings are scheduled for:

September 15, 2016

October 27, 2016 *(note corrected date from that listed in the meeting agenda that was distributed prior to the meeting)*

December 1, 2016

January 19, 2017

The Ethylene Producers’ Conference is scheduled for March 26-30, 2017, in San Antonio, TX. Major milestones leading up the conference will be confirmed but are roughly:

Abstracts must be uploaded end October 2016

Session chair accept/reject/order papers mid November 2016

Extended abstracts must be uploaded mid March 2017

1. **New Business**

Chell Chellappan and Thomas Emmert are both leaving the subcommittee and this was their last meeting. Chell will be replaced by Rob Fox (not present) and Thomas will be replaced by Mark Whitney (in attendance). The subcommittee thanked both for their contributions.

Humera Rafique is also a new member from Siluria and participated in the meeting via teleconference. She hopes to join in person next time.

Updated subcommittee member list and contact information is attached.

1. **Adjourn**

Minutes Prepared By:

MJ Tallman (Technology Subcommittee Co-Chair)

June 20, 2016