



Ethylene Producers &lt;ethyleneproducerscommittee@gmail.com&gt;

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## EPC Feedstock Impurities Subcommittee

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Ethylene Producers &lt;ethyleneproducerscommittee@gmail.com&gt;

Sun, Oct 12, 2014 at  
10:32 AM

To: ethyleneproducerscommittee@gmail.com

Notes:

Two meetings were held to primarily discuss potential papers for the Feedstock Contaminants Session. Tom has already communicated the name of the session (Feedstock Contaminants Session), the session chair (Mark), the session co-chair (Joe), and the number of papers (5). Significant dates listed at the end of these notes.

Attendance:

**Wednesday, August 20**

Steve Coleman  
Art Baumgartner  
Joe Lally  
Andre Bernard  
Susan Brunner  
Mark Brayden

**Monday, August 25**

Dave Smith  
Dane Grenoble  
Jay Gorawara (subbing for Lea Ann Nairn)  
Zhenning Gu  
Mark Brayden

1. Read anti-trust statement (Mark):

*"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. Discuss ideas for papers in 2015 session:

A. Art proposed a paper by someone like Pall on impurities in ethane based on a similar paper from several years ago at the EEPC. A paper by Pall and Dow discussed the impact of particulates in liquid naphtha feed, but the focus of this paper would be gas feeds.

A potential war story may be presented immediately after with a producer discussing an incident due to pipeline contaminants.

**Action Item:** Contact Pall to gauge interest. (Mark) – completed.

**Update:** Mark contacted Pall, and they are enthusiastic about working with us to present a paper. See attached information.

B. Mercury Removal paper offered by Honeywell (UOP): During the Wednesday meeting there were questions about what was new with this subject. No mercury issues in ethane but might be in shale condensate. Also, there were comments that this might be an issue in Europe. One new area might be EPA project on mercury emissions.

**Action Item:** Check on EPA regulations (Joe) – completed.

**Update:** On Monday Jay addressed the issues that were brought up on Wednesday. He said EPA would be enacting MACT for mercury in fuel gas in January 2016, which will impact emissions from mercury beds during regeneration. A customer of Honeywell's will act as co-author and co-presenter if allowed to travel from Europe.

A second issue discussed was the mercury content of shale condensate. Jay may be able to provide data on Hg content of some sources of shale. According to Jay some condensate has mercury, other does not. Jay also asked if the paper would be restricted to 20-25 minutes. If 4 papers are chosen could we expand time to 30 minutes or so?

**Action Item:** Follow up on shale condensate mercury content (Jay)

C. A third idea centered around ammonia in quench systems, as a follow up to the paper in 2006 by Dwight Hines entitled "Ammonia in the BASF FINA Petrochemicals Limited Partnership Steam Cracking Plant at Port Arthur Texas". Nitrogen compounds can be found in various feeds including shale condensate, as well as feeds treated by amine treaters. Ammonia in quench water and in product ethylene are impacted by breakdown of amines to ammonia.

A second area to explore is the analysis of ammonia.

**Action Item:** Sub-group meeting to discuss topic to see if this can be developed. (Mark, Steve, Susan, Dwight, anyone else?)

D. Another topic covered in recent years was sulfiding agents. Is there anything new in this area?

**Action Item:** Contact U of Ghent to see if there is anything new in this area. (Mark)

E. One item brought up at the previous meeting was the impact of any contaminant issues with SCR operation with decoke to firebox.

**Action Item:** Follow up with SCR experience and contaminants (Art? Tom?)

F. Caustic measurement by Applitek was presented last year. Any other applications for the conditioning system?

**Action Item:** Follow up / contact information (Dave)

G. **Action Item:** Contact Vasily regarding impurities in feed gas. (Andre)

#### Dates:

November 14, 2014	Call For Papers (abstracts) closes, abstract submission ends
December 1, 2014	Online conference registration opens at <a href="http://www.aiche.org/spring">www.aiche.org/spring</a>
December 5, 2014	Session chairs accept/reject/order papers in their Sessions
December 10, 2014	Draft Program available in Confex
December 12, 2014	Session Chairs comment on draft program
December 15, 2014	Program live in Confex
December 16, 2014	Confex open for paper uploads
?	EPC Program Chair and Session Chairs will set deadline for paper submissions.
April 27-30, 2015	EPC Conference held in conjunction with AIChE Spring Meeting in Austin, TX