## **Meeting Minutes**

Meeting Held: August 17th, 2018

Subject: EPC Rotating Equipment Subcommittee Meeting (2018/19 Season)

Attendees:

Smitha Vadrevu - McDermott	Kalyan Malnedi - Elliott	Shadi Gilke - INEOS
Clayton Jurica - MHI	Kevin Kisor - MAN	
Seth Kennedy - DowDuPont	Dan Jones - Technip	
Brian Wadas - BHGE	Clayton Finney - BHGE	
Bryan Barrington - Lyondell	Rushi Gandhi - LINDE	

Item			Action Required		
No.	Report	Ву	Date		
1	Safety Moment Review of Previous MOM				
	UPDATED - EPC heads per the following:				
2	Chair – Shane Harvey (sharvey@elliott-turbo.com) Co-Chair – Clayton Jurica (clayton_jurica@mhicompressor.com) Secretary – Smitha Vadrevu – McDermott (smitha.vadrevu@mcdermott.com)				
	2019 Spring Meeting and 15th Global Congress on Process Safety  New Orleans, LA – Hilton Riverside				
3	<ul> <li>Call for Abstracts Opens – June 29<sup>th</sup></li> <li>Call for Abstracts Closes – November 12<sup>th</sup></li> <li>Papers Accepted/Rejected – December 14<sup>th</sup></li> <li>Draft Schedule Available – January 9<sup>th</sup></li> <li>Conference in New Orleans – March 31-April 4<sup>th</sup>, 2019</li> </ul>				
4	<ul> <li>Spring 2018 EPC Review of Feedback &amp; Ideas of 2019 Topics</li> <li>Feedback Forms</li> <li>Reach out to potential authors who expressed interest in feedback forms</li> <li>Review subjects suggested in feedback forms</li> <li>Committee will reach out to all feedback contacts to see their interest in participating</li> <li>See Appendix A – Feedback from Spring 2018</li> </ul>				
	Potential Topics for Abstracts				
	- Reliability – Points of failure				
	Outage planning				
5	How to manage data (Inspection, Repair, etc)  Anti-Fauling (Funcan Mahil & M.H. Abetract submitted)				
	- Anti-Fouling – (ExxonMobil & MHI Abstract submitted)				
	MHI XOM Abstract_81718.pdf				

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No.	Report	Ву	Date
	- API 692 – Dry Gas Seals – (692 101 session w/ Ethylene specifics)		
	<ul> <li>Reach out to API 692 to receive abstract</li> </ul>		
	<ul> <li>Seal retrofits</li> </ul>		
	<ul> <li>John Crane &amp; Flowserve – Reach out</li> </ul>		
	- Turboshow Papers that weren't selected		
	- Digitization – GE Compression		
	■ Big Data		
	- Turboexpanders		
	<ul> <li>LINDE to follow up, GE to follow up</li> </ul>		
	- Ethylene Product Pump – Lyondell		
	Mechanical Seals upgrades		
	- Large Turbines – Mega Ethylene		
	o MHI		
	- High Cycle Fatigue Steam Turbine		
	o INEOS		
	- EEPC October 2018 – Croatia (Could utilize papers)		
	- Water Injection – CGC Temperature Control		
	o Technip		
	- McDermott Bloomfield – Check on their involvement		
	- How to submit abstracts – Tutorial for next meeting		
	Future Meeting Dates - EPC Subcommittee Meeting		
6	- September 28th 2018 – Next Meeting (Elliott to host)		
	Ethylene Producers Committee Anti-Trust Agreement		
7	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.		

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## Appendix A:

#5a	"Really good; liked bringing in operator; also, lots of examples!"
#5b	"Very good1 he's a good speaker!"
#5c	"Very good subject! Too many acronyms; can it work for other CV's?"
#5d	"Subject is too common!"
#5c	"What needs to be installed physically to monitor?"
\$5c	"Not an area relevant to me; so I learnt a lot!"
#5d	"A bit too much info presented – hard to keep up!"
#5d	"Excellent presentation – good job covering topic w/o becoming sales pitch!"
#5a	"More details of implementation required!"

#33b	"If it was a "101" course, could have been more technical!"	
#33c	"More of an advertisement or history; not really technical/problem highlights!"	
#33d	"Very relevant, timely, insightful!"	
#33c	"Nice summary of recent improvements!"	
#33d	"Energy impact? Cost ratios?"	
#33a	"Best paper ever on wash oil!"	
#33d	"I want one!"	
#33d	"Thanks!"	

## Some suggestions for future papers:

FROM SESSION [5]: "Relia		f Rotating Equipment in Ethy	ylene Plants Session" Monday, April 23, 2018
09:30 AM - 11:30 AM; Orlando	o World Center Marriot	t- Room: Palms Ballroom RO	YAL
MHI Machines difficulties and wrong design and how to deal with for example impellers issues and high delta P in extraction	NASER	SABIC SAUDI ARABIA	Tel: Fax: Email:
Water injection programs for compressors     Vibration mitigation tactics     Other possibilities other than fouling	Tiffany Hester	Sasol	Tel: 601-528-0042 Fax: E-mail:tif.hester@gmail.com
Furnace mechanical issues, metallurgy, welding, refractory, counter-weights, sealing from air ingress, etc.	Cesar Torres	Ineos Olefins & Polymers 2 Miles South FM 2917 on FM 2004 Alvin, TX 77511	Tel: 281-581-3122 Fax" Email: cesar.torres@ineos.com
Effect of water chemistry on CGC fouling	Mark Whitney	Linde Engineering	Tel: 281-717-9083 Fax: Email: mark.whitney@linde.com
Best practices regarding improved rotating equipment reliability	Nathan Reed	Westlake Chemicals	Tel: Fax: Email:
- Compressor troubleshooting Inspections of rotating equipment	Kate Heymans	Dow Chemicals	Tel: Fax: Email:

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Need to see more field experience building on the current assets capability improvement without major hardware modification	Hussain Al Zahrani	SABIC/Sharq	Tel: Fax: Email: zahraniha@sharq.sabic.com	
Solids carry over to the steam used to run those compressors	Fahad Al Milali	SABIC Saudi Arabia - Jubail	Tel: +966-5-4646-3608 Fax: Email: alfahad3608@hotmail.com	
Surface condenser replacement overview, construction challenges etc	Megan Finstad	Dow Chemicals	Tel: 780-998-8822 Fax: Email: mfinstad@dow.com	

FROM SESSION [33] "Ethylene Plant Rotating Equipment Panel Discussion" Monday, April 23, 2018 2:00 PM - 5:00					
PM; Orlando World	PM; Orlando World Center Marriott- Room: Palms Ballroom ROYAL				
Micheal Smith	Exxc	nMobil	Tel: 225-331-0122		
			Fax:		
			Email:		
			micheal.e.smith@exxonmobil.com		
Marty Novak	Hunt	sman	Tel: 409-723-3425		
•			Fax:		
			Email: marty_novak@huntsman.com		
FROM SESSION	[78] "	Ethylene Plant C	perations Session", Tuesday, April 24, 2	2018: 8:00 AM - 11:00 AM; Orlando World	
Center Marriott- Ro	oom: P	alms Ballroom SA	AGO		
Industry operating	l	David Spicer	ExxonMobil Chemical	Tel: 346-259-2660	
experience with S	CR	-	4500 Bayway Drive	Fax:	
in ethylene furnac	es		Baytown, TX 77520	Email:	
•				david.b.spicer@exxonmobil.com	
All troubleshooting	3	Gwen Kelley	Shell	Tel:	
subjects are great	ly			Fax:	
appreciated	-			Email: gwen.kelley@shell.net	

Finally, some volunteers for future papers:

FROM SESSION [5]: "Reliability and Operability of Rotating Equipment in Ethylene Plants Session" Monday, April 23, 2018 09:30 AM - 11:30 AM; Orlando World Center Marriott- Room: Palms Ballroom ROYAL				
Yes; MHI machines and machinery concerns in olefin plants	Naser	SABIC Saudi Arabia	Tel: Fax: Email: mutairina@sharq.sabic.com	

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Yes; Subjects: -  New anti-foulant chemistries  Compressor anti-foulant strategies  Nitrogen free anti-foulants  Innovations in Furnace sulfiding agents	James Ondyak	Dorf Ketal 11200 Westheimer Rd. Suite 400 Houston, TX 77042	Tel: 713-419-3376 Fax: Email: james.ondyak@dorfketal.com	
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	SESSION [33] "Ethylene Place o World Center Marriott- Room			Monday, April 23, 2018 2:00 PM - 5:00 PM;
7.	Compressor fouling and coatings	Francesca Monti	BHGE	Tel: Fax: Email: francesca.monti@ge.com
8.	Unable to consider until after turnaround ending	Marty Novak	Huntsman	Tel: 409-723-3425 Fax:
	July			Email: marty novak@huntsman.com