

# Symposium Structure

## Plenary Speakers

**Ignacio E. Grossmann**, Carnegie Mellon University, USA  
**Ka Ming Ng**, The Hong Kong University of Science and Technology, Hong Kong  
**Kai Sundmacher**, Max Planck Institute for Dynamics of Complex Technical Systems, Germany  
**Gintaras V. (Rex) Reklaitis**, Purdue University, USA

## Keynote Speakers

Industry	<b>Subash Balakrishna</b> , Optience, USA	<b>Jason Mustakis</b> , Pfizer Research and Development, USA
	<b>Andreas Bode</b> , BASF, Germany	<b>Patrick M. Piccione</b> , Syngenta, UK
	<b>Iiro Harjunkoski</b> , ABB Corporate Research, Germany	<b>Gavin Reynolds</b> , AstraZeneca, UK
	<b>Roel Hoefnagels</b> , Janssen, Belgium	<b>Bent Sarup</b> , Alfa Laval Copenhagen A/S, Denmark
	<b>Concepción "Conchita" Jiménez-González</b> , GlaxoSmithKline, USA	<b>Erik Skibsted</b> , Novo Nordisk, Denmark
	<b>Dorus van der Linden</b> , DSM, Netherlands	<b>Hansheng Suo</b> , Petro-CyberWorks Information Technology Co., Ltd., China
	<b>Khavinet Lourvanij</b> , SCG Chemicals Co., Ltd., Thailand	<b>Antoon ten Kate</b> , AkzoNobel, Netherlands
	<b>Brenno C. Menezes</b> , Petrobras, Brazil	<b>Konrad Triebeneck</b> , Bayer Technology Services GmbH, Germany
	<b>Toshiharu Morishita</b> , Mitsubishi Chemical Corporation, Japan	

Academia	<b>Adisa Azapagic</b> , University of Manchester, UK	<b>Stratos Pistikopoulos</b> , Texas A&M University, USA
	<b>Mario R. Eden</b> , Auburn University, USA	<b>Jeffrey J. Sirola</b> , Carnegie Mellon University & Purdue University, USA
	<b>Nimir Elbashir</b> , Texas A&M University at Qatar, Qatar	<b>Sigurd Skogestad</b> , Norwegian University of Science and Technology, Norway
	<b>Krist V. Gernaey</b> , Technical University of Denmark, Denmark	<b>Rajagopalan Srinivasan</b> , Indian Institute of Technology Gandhinagar, India
	<b>Shinji Hasebe</b> , Kyoto University, Japan	<b>Metin Turkay</b> , Koc University, Turkey
	<b>Yiinlun Huang</b> , Wayne State University, USA	<b>Venkat Venkatasubramanian</b> , Columbia University, USA
	<b>Marianthi Ierapetritou</b> , Rutgers University, USA	<b>John Villadsen &amp; John M. Woodley</b> , Technical University of Denmark, Denmark
	<b>Johannes Khinast</b> , Graz University of Technology, Austria	<b>Fengqi You</b> , Northwestern University, USA
	<b>Jay H. Lee</b> , KAIST, Korea	<b>Xiangping Zhang</b> , Chinese Academy of Sciences, China
	<b>Philip Lutze</b> , Technical University Dortmund, Germany	<b>Jinsong Zhao</b> , Tsinghua University, China
<b>Davide Manca</b> , Politecnico di Milano, Italy		
<b>Christos Maravelias</b> , University of Wisconsin, USA		

# Quick Facts

PSE2015/ESCAPE25 represents the joint conference combining Process Systems Engineering (PSE) and Computer Aided Process Engineering (CAPE). The presentations promise to represent a wide range of topics and represent countries from all over the world.

- A 4 day conference
- 4 Internationally renowned plenary speakers
- Keynote presentations representing industry and academia
- Approximately 175 oral presentations
- 3 poster sessions containing over 210 presentations



- Over 50 countries
- More than 600 abstracts accepted
- Nearly 400 manuscript submissions, excluding Plenary and Keynote Presentations
- Peer-reviewed book of conference proceedings to be published

## Contact Information

### PSE/ESCAPE 2015 Secretariat

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# PSE2015/ ESCAPE25

31 May–4 June 2015 Copenhagen  
PSE-2015 / ESCAPE-25 Joint Event

Bella Center  
Center Boulevard 5  
DK-2300 Copenhagen S



Event number  
727 of the EFCE



Technical University  
of Denmark



CAPE-Working Party

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# Invitation

We warmly invite you to attend the 12th PSE and 25th ESCAPE Joint Event to be held in Copenhagen, Denmark **31 May–4 June 2015**.

With this conference we would like to highlight the contributions of the PSE/CAPE community to the sustainability of the modern society. Through contributions from academia and industry, we would like to establish the core products of PSE/CAPE, define the new and changing scope of our results, and the future challenges we face.



## Symposium Organisation

PSE-2015 is a conference on Process Systems Engineering taking place once every three years and rotates between Europe, Asia and the Americas. ESCAPE-25 is the 25<sup>th</sup> annual event of the European Symposium of Computer Aided Process Engineering. In 2015, since the PSE-conference was already scheduled for Europe and Denmark was selected as the host for ESCAPE-25, it was decided to combine the two conferences. Professor Rafiqul Gani together with his colleagues at the research center CAPEC-PROCESS at DTU Chemical Engineering is the chair-person of the organizing committee for this event. This committee has decided to hold PSE-2015/ESCAPE-25 at Bella Center from 31 May – 4 June 2015.

### Local Organisation Committee

Rafiqul Gani (Symposium Chair), John M. Woodley, Krist V. Gernaey, Jakob K. Huusom, Ulrich Krühne and Eva Mikkelsen.

# Program Overview

	Sunday	Monday	Tuesday	Wednesday	Thursday
08:30-09:00		Opening session (A11+A12)	Oral-A2.1: T-1.1 <b>A11</b> Oral-A2.2: T-4.1 <b>A12</b> Oral-A2.3: T-5.1 <b>19</b> Oral-A2.4: T-2.1 <b>18</b> Oral-A2.5: T-9.3 <b>20</b> <i>Oral-highlights-2: 17</i>	Oral-A3.1: T-1.5 <b>A11</b> Oral-A3.2: T-4.2 <b>A12</b> Oral-A3.3: T-3.1 <b>19</b> Oral-A3.4: T-2.2 <b>18</b> Oral-A3.5: T-9.1 <b>20</b> <i>Oral-highlights-3: 17</i>	Oral-A4.1: T-1.3 <b>A11</b> Oral-A4.2: T-4.5 <b>A12</b> Oral-A4.3: T-5.3 <b>19</b> Oral-A4.4: T-2.3 <b>18</b> Oral-A4.5: T-9.6 <b>20</b>
09:00-10:00		<b>Plenary-1 (A11+A12)</b> Prof Ignacio Grossmann			
10:00-10:30		Break (Coffee/tea Hall A)			
10:30-11:00	CAPE-WP Business meeting (room 17)	Oral-A1.1: T-8.1 <b>A11</b> Oral-A1.2: T-0 <b>A12</b> Oral-A1.3: T-5.2 <b>18</b> Oral-A1.4: T-9.5.4 <b>19</b> Oral-A1.5: T-9.2 <b>20</b> <i>Oral-highlights-1: 17</i>	Break (Coffee/tea Hall A)	Break (Coffee/tea Hall A)	Break (Coffee/tea Hall A)
11:00-12:00	Lunch for CAPE-WP		<b>Plenary-2: A11+A12</b> Prof Ka M Ng (start at 11.10)	<b>Plenary-3: A11+A12</b> Prof Kai Sundmacher (start at 11:10)	Key-4.1: B-6 <b>A11</b> Key-4.2: B-4 <b>A12</b> Key-4.3: B-3 <b>20</b>
12:00-13:00		Lunch – Hall A (from 12:10)	Lunch – Hall A	Lunch – Hall A	Lunch – Hall A
13:00-14:00	CAPE-WP meeting continues until 17:00	Oral-B1.1: T-1.4 <b>A11</b> Oral-B1.2: T-4.4 <b>A12</b> Oral-B1.3: T-5.4 <b>19</b> Oral-B1.4: T-7.1 <b>18</b> Oral-B1.5: T-9.5.1 <b>20</b> (ends at 14:40)	Oral-B2.1: T-1.2 <b>A11</b> Oral-B2.2: T-4.3 <b>A12</b> Oral-B2.3: T-5.5 <b>19</b> Oral-B2.4: T-7.2 <b>18</b> Oral-B2.5: T-9.5.2 <b>20</b> (ends at 14:40)	Oral-B3.1: T-1.6 <b>A11</b> Oral-B3.2: T-4.6 <b>A12</b> Oral-B3.3: T-6.1 <b>19</b> Oral-B3.4: T-7.3 <b>18</b> Oral-B3.5: T-9.5.3 <b>20</b> (ends at 14:40)	Key-5.1: B-5 <b>18</b> Key-5.2: B-1 <b>19</b> Key-5.3: B-2 <b>20</b>
14:00-14:30	Registration (opens)				<b>Closing Session* A11+A12</b> <b>Plenary-4: Prof G V (Rex) Reklaitis Awards</b>
14:30-15:30		<b>Elsevier Poster-1: Hall A Plus</b> (Coffee/tea Hall A)	<b>Elsevier Poster-2: Hall A Plus</b> (Coffee/tea Hall A)	<b>Elsevier Poster-3: Hall A Plus</b> (Coffee/tea Hall A)	Farewell with coffee/tea and sweets
15:30-16:00					* Note: Closing session will include presentations of the next ESCAPE-26 and PSE-2018
16:00-17:30		Key-1.1: A-2 <b>A11</b> Key-1.2: A-1 <b>A12</b> Key-1.3: A-6 <b>20</b>	Key-2.1: A-8 <b>A11</b> Key-2.2: A-3 <b>A12</b> Key-2.3: A-4 <b>20</b>	Key-3.1: A-9 <b>A11</b> Key-3.2: A-7 <b>A12</b> Key-3.3: A-5 <b>20</b>	
18:00-??	Reception (18:00 - )	Town Hall reception with Mayor(19:00 - )	Novo Nordisk Reception (inviteonly)	Conference dinner @ Wallmann's	

For a list of presenters for each session as well as the table of contents for the proceedings visit the conference website; **blue=session type**; **black=theme tracks**; **red=session room**

An International Scientific Committee consisting of around 100 experts from all over the world has been formed to help with the development of the technical program, where, PSE community will address the opportunities and challenges facing the modern society - energy, water, environment, food and health issues will be highlighted. The objectives are to bring experts from industry and academia from all over the world to present and discuss their latest research results, to provide participants a forum for networking and to provide students the opportunity to learn about the latest developments. It is expected that PSE-2015/ESCAPE-25 will attract around 500-600 participants from all over the world. Arrangements are being made to make PSE-2015/ESCAPE-25 a memorable event not only for the scientific-technical program but also for the social arrangements.

**Registration—please register as soon as possible!** (<http://www.pse2015escape25.dk/accomodations-registration/>)

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