



13th International Symposium on Process Systems Engineering

# PSE 2018

**JULY 1-5**  
**MANCHESTER GRAND HYATT**  
**SAN DIEGO**



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**1959-2016**



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Hatch





**ROBIN CRAVEN**



**BRENNEN REECE**



# CONFERENCE PROGRAM

- Inaugural C.A. Floudas Lecture
- 10 Plenary Lectures
- 18 Keynote Lectures
- 188 Parallel Oral Presentations
- 205 Poster Presentations





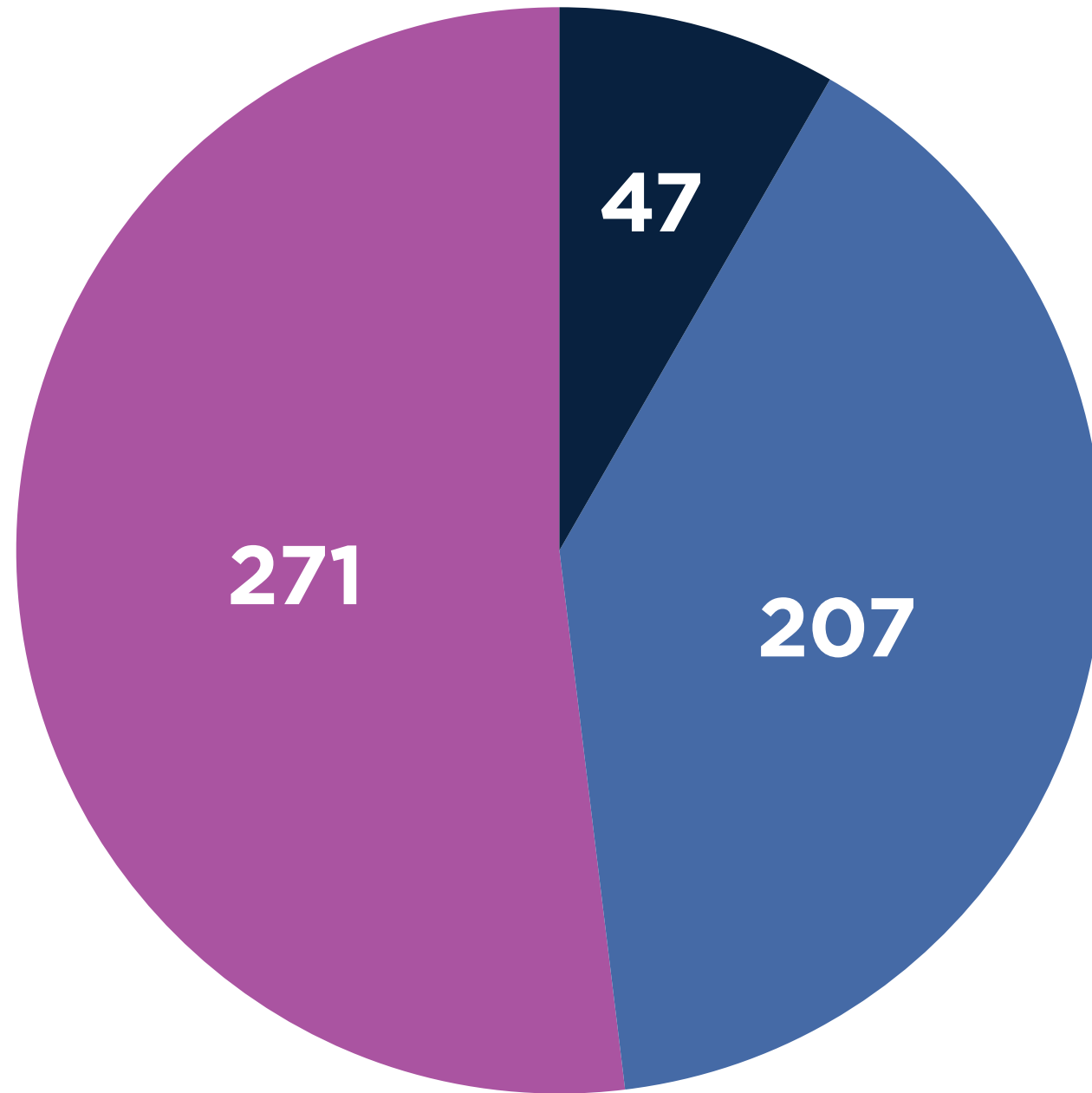
# CONFERENCE PROCEEDINGS

- 11 invited papers/  
extended abstracts
- 407 contributed papers
- Reviewed by 3 members of IPC
- Link sent by Elsevier on June 29
- Download by July 27, 2018





# REGISTRATIONS BY TYPE



**STUDENTS**

**ACADEMIA**

**INDUSTRY/GOVERNMENT**



# REGISTRATIONS BY REGION



# GENERAL INFORMATION

- **Welcome Reception**

Sunday 8:00-9:30 PM, Seaport Ballroom Foyer (2nd Floor)

- **Pre-Session Coffee/Tea**

Monday-Thursday 7:00-8:00 AM in Coronado Foyer

- **Lunch**

Grand Hall CD

- **Poster Sessions in Coronado Foyer & Terrace**

Monday 4:10-5:40 PM

Tuesday 3:10-4:40 PM

Wednesday 4:10-5:40 PM

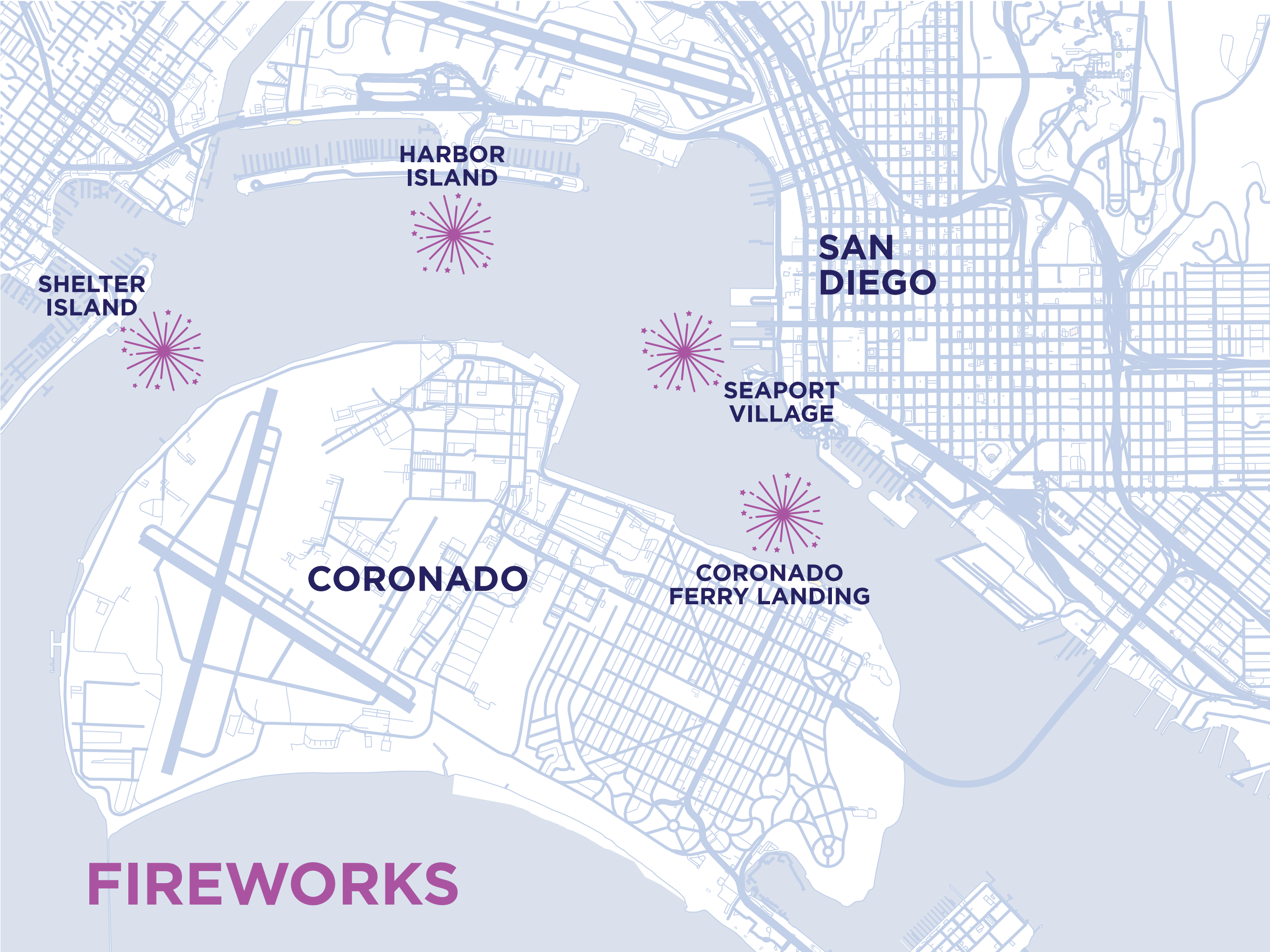
- **Conference Banquet**

Tuesday 7:30-10:00 PM — Grand Hall CD









**HARBOR  
ISLAND**



**SHELTER  
ISLAND**



**SAN  
DIEGO**



**SEAPORT  
VILLAGE**



**CORONADO**

**CORONADO  
FERRY LANDING**

**FIREWORKS**



# POSTER AWARD WINNERS

## SESSION A

### Winner

**289 Expanding the Scope of Electric Power Infrastructure Planning**

*Cristiana L. Lara, Ben Omell, David Miller, and Ignacio E. Grossmann*

### Honorable Mentions

**28 A Methodology for Development of a Pedagogical Simulation Tool used in Fermentation Applications**

*Simoneta Caño de las Heras, Seyed Soheil Mansouri, Stefano Cignitti, Hinrich Uellendahl, Charlotte Lærke Weitze, Krist V. Gernaey, Helle Rootzén, and Ulrich Krühne*

**104 From Property Uncertainties to Process Simulation Uncertainties – Monte Carlo Methods in SimSci PRO/II Process Simulator**

*Jérôme Frutiger, Mark Jones, Nevin Gerek Ince, and Gürkan Sin*

# POSTER AWARD WINNERS

## SESSION B

### Winner

**437** Development of a Gas Composition Soft Sensor for Distillation Columns: A Simplified Model based and Robust Approach

*Eliza H.C. Ito, Argimiro R. Secchi, Marcos V.C. Gomes, and Carlos R. Paiva*

### Honorable Mentions

**294** Multi-Objective Optimization of Membrane-based CO<sub>2</sub> Capture

*Miguel A. Zamarripa, John C. Eslick, Michael S. Matuszewski, and David C. Miller*

**288** Multi-System Development Planning for Optimizing Shale Gas Production

*Abigail Ondeck, Markus Drouven, Nathan Blandino, and Ignacio E. Grossmann*



# POSTER AWARD WINNERS

## SESSION C

### Winner

**415 Modular Concept Inspired by Microchemical Systems and Application to Distillation**

*Ken-Ichiro Sotowa, Takahiro Aoyama, Ryo Takagi, Kohei Ito, Jesús Rafael Alcántara Avila and Toshihide Horikawa*

### Honorable Mentions

**364 An Ontology Based Cyber-infrastructure for the Development of Smart Eco Industrial Parks**

*Aravind Devanand, Li Zhou, Iftekhar A. Karimi, and Markus Kraft*

**551 Deep Neural Networks for Source Tracking of Chemical Leaks and Improved Chemical Process Safety**

*Hyunseung Kim, En Sup Yoon, and Dongil Shin*





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