

# SIAM Conference on Numerical Combustion At-A-Glance

# SIAM Conference on Numerical Combustion At-A-Glance

Sunday, April 2

Monday, April 3

Monday, April 3

5:00 PM - 8:00 PM

Registration  
Registration Desk C - Lobby Level

6:00 PM - 8:00 PM

Welcome Reception  
Upper Pool Deck



7:00 AM - 4:00 PM

Registration  
Registration Desk C - Lobby Level

7:30 AM

Continental Breakfast  
Ballroom C Foyer - Lobby Level



8:00 AM - 8:15 AM

Welcoming Remarks  
Ballroom C - Lobby Level

8:15 AM - 9:00 AM

**IP1** Modeling Flame Holes in Turbulent Nonpremixed Flows  
Carlos Pantano, University of Illinois at Urbana-Champaign, USA  
Ballroom C - Lobby Level

9:00 AM - 9:30 AM

Coffee Break  
Ballroom C Foyer - Lobby Level



9:30 AM - 11:30 AM

**Concurrent Sessions**  
**CP1** Energetic Materials  
Ballroom C - Lobby Level  
**CP2** Electric Fields  
Salon 5 - Mezzanine Level  
**CP3** Flamelets and Tabular  
Salon 6 - Mezzanine Level  
**CP4** Kinetics and Sprays I  
Salon 7 - Mezzanine Level  
**CP5** Stability  
Salon 8 - Mezzanine Level

11:30 AM - 1:00 PM

Lunch Break  
Attendees on their own

1:00 PM - 3:00 PM

**Concurrent Sessions**  
**MS1** Numerical Modelling and Simulation of Detonations in High-energy Explosives - Part I of II  
Ballroom C - Lobby Level  
**MS2** Uncertainty Quantification and Model Inadequacy in Combustion Simulations - Part I of II  
Salon 5 - Mezzanine Level

**CP6** Dimension Manifolds I

Salon 6 - Mezzanine Level

**CP7** Kinetics and Sprays II

Salon 7 - Mezzanine Level

**CP8** Soot

Salon 8 - Mezzanine Level

3:00 PM - 3:30 PM

Coffee Break  
Ballroom C Foyer - Lobby Level



3:30 PM - 5:30 PM

**Concurrent Sessions**  
**MS3** Numerical Modelling and Simulation of Detonations in High-energy Explosives - Part II of II  
Ballroom C - Lobby Level  
**MS4** Uncertainty Quantification and Model Inadequacy in Combustion Simulations - Part II of II  
Salon 5 - Mezzanine Level  
**CP9** Numerical Methods I  
Salon 6 - Mezzanine Level  
**CP10** Heat Transfer and Radiation  
Salon 7 - Mezzanine Level  
**CP11** LES I  
Salon 8 - Mezzanine Level

Tuesday, April 4

Tuesday, April 4

Wednesday, April 5

7:30 AM - 4:00 PM

Registration  
Registration Desk C - Lobby Level

7:30 AM

Continental Breakfast  
Ballroom C Foyer - Lobby Level



8:10 AM - 8:15 AM

Remarks  
Ballroom C - Lobby Level

8:15 AM - 9:00 AM

**IP2** Progress and Challenges in Simulating Combustion Systems with Realistic Chemistry  
Perrine Pepiot, Cornell University, USA  
Ballroom C - Lobby Level

9:00 AM - 9:30 AM

Coffee Break  
Ballroom C Foyer - Lobby Level



9:30 AM - 11:30 AM

**Concurrent Sessions**  
**MS5** Uncertainty Quantification in Computational Combustion - Part I of III  
Ballroom C - Lobby Level  
**MS6** Model Validation for Solid Fuel Combustion from Experiments  
Salon 5 - Mezzanine Level  
**CP12** Numerical Methods II  
Salon 6 - Mezzanine Level  
**CP13** Kinetics I  
Salon 7 - Mezzanine Level  
**CP14** LES II  
Salon 8 - Mezzanine Level

11:30 AM - 1:00 PM

Lunch Break  
Attendees on their own

1:00 PM - 3:00 PM

**Concurrent Sessions**  
**MS7** Uncertainty Quantification in Computational Combustion - Part II of III  
Ballroom C - Lobby Level  
**MS8** High Karlovitz Number Turbulent Combustion: Physics and Modeling Challenges - Part I of II  
Salon 5 - Mezzanine Level  
**CP15** Turbulent Flames  
Salon 6 - Mezzanine Level

**CP16** Kinetics II

Salon 7 - Mezzanine Level

**CP17** LES III

Salon 8 - Mezzanine Level

3:00 PM - 3:30 PM

Coffee Break  
Ballroom C Foyer - Lobby Level



3:30 PM - 5:30 PM

**Concurrent Sessions**  
**MS9** Uncertainty Quantification in Computational Combustion - Part III of III  
Ballroom C - Lobby Level  
**MS10** High Karlovitz Number Turbulent Combustion: Physics and Modeling Challenges - Part II of II  
Salon 5 - Mezzanine Level  
**CP18** Premixed Flames  
Salon 6 - Mezzanine Level  
**CP19** Kinetics III  
Salon 7 - Mezzanine Level  
**CP20** LES IV  
Salon 8 - Mezzanine Level

Wednesday, April 5

7:30 AM - 1:30 PM

Registration  
Registration Desk C - Lobby Level

7:30 AM

Continental Breakfast  
Ballroom C Foyer - Lobby Level



8:10 AM - 8:15 AM

Closing Remarks  
Ballroom C - Lobby Level

8:15 AM - 9:00 AM

**IP3** Dynamic Partitioning and Quantum Speedup for Turbulent Combustion Simulation  
Peyman Givi, University of Pittsburgh, USA  
Ballroom C - Lobby Level

9:00 AM - 9:30 AM

Coffee Break  
Ballroom C Foyer - Lobby Level



9:30 AM - 11:30 AM

**Concurrent Sessions**  
**MS11** New Strategies towards Control of Flame Acceleration and DDT - Part I of II  
Ballroom C - Lobby Level  
**MS12** Progress and Opportunities in Modeling and Simulations of Supercritical Combustion - Part I of II  
Salon 5 - Mezzanine Level  
**CP21** Modeling Complexity I  
Salon 6 - Mezzanine Level  
**CP22** DNS I  
Salon 7 - Mezzanine Level  
**CP23** Practical Systems I  
Salon 8 - Mezzanine Level

11:30 AM - 1:00 PM

Lunch Break  
Attendees on their own

1:00 PM - 3:00 PM

**Concurrent Sessions**  
**MS13** New Strategies towards Control of Flame Acceleration and DDT - Part II of II  
Ballroom C - Lobby Level  
**MS14** Progress and Opportunities in Modeling and Simulations of Supercritical Combustion - Part II of II  
Salon 5 - Mezzanine Level  
**CP24** DNS II  
Salon 6 - Mezzanine Level  
**CP25** Practical Systems II  
Salon 7 - Mezzanine Level  
**CP26** Modeling Complexity II  
Salon 8 - Mezzanine Level

Key to abbreviations and symbols

= Coffee Break

= Refreshments Served

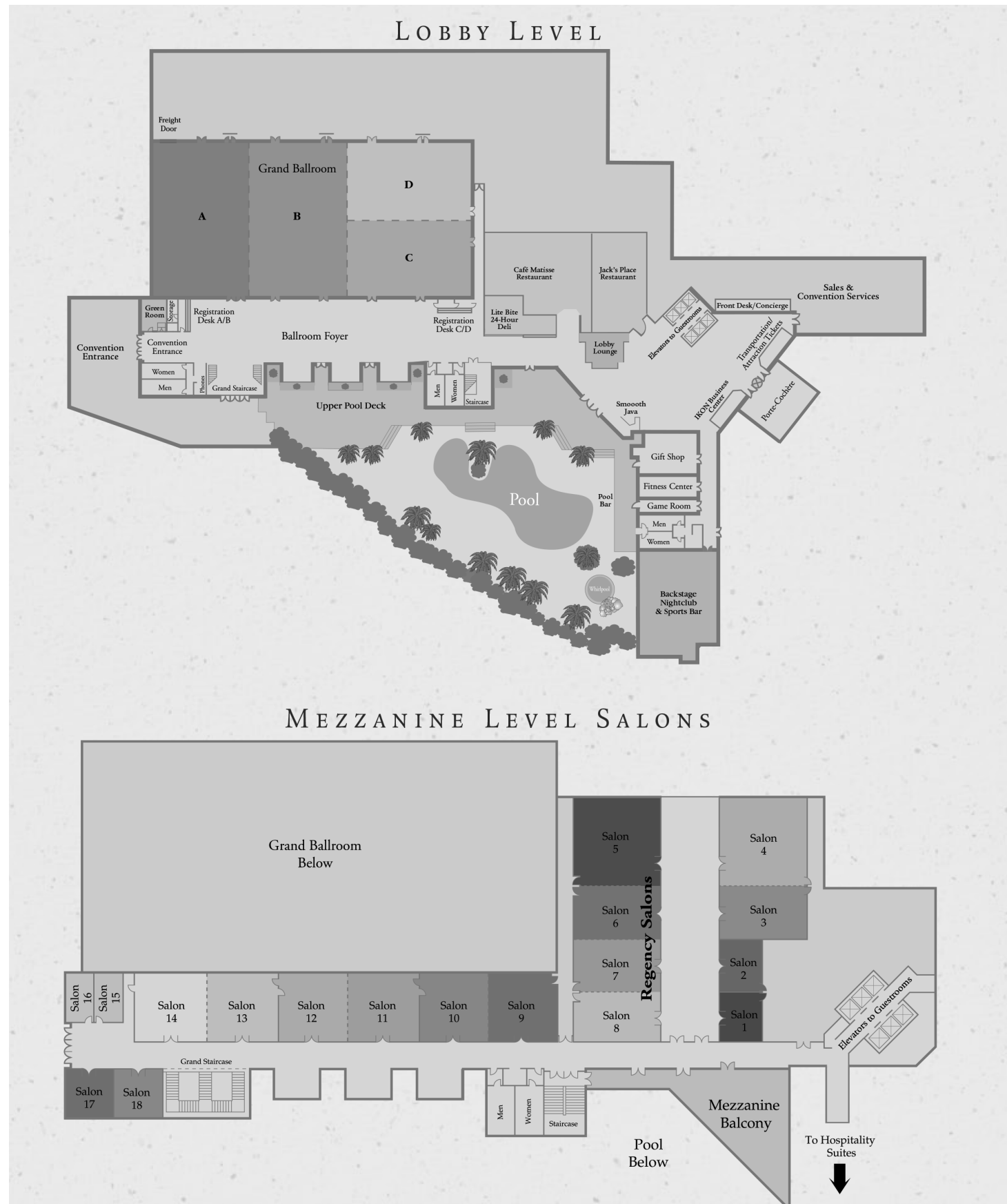
IP = Invited Plenary Speaker

CP = Contributed Presentation

MS = Minisymposium

= Continental Breakfast

# Rosen Plaza Hotel Floor Plan



# Program At-A-Glance

*Sixteenth International*



**Conference  
on Numerical  
Combustion**

**April 3 - 5, 2017  
Rosen Plaza Hotel  
Orlando, Florida, USA**