



The scientific focus of the Conference will be on fundamental and applied research topics related to dynamic compression of condensed matter. This multidisciplinary field of research encompasses areas of physics, chemistry, materials, science, mechanics, geophysics, planetary science, and applied mathematics.

The conference will include both oral and poster presentations. In addition, a day-long student symposium will take place on Sunday, July 9, 2017.

Abstracts are being solicited for the following 15 technical areas and 2 focus topic areas:

- Detonation and shock-induced chemistry
- Energetic and reactive materials
- Equations of state
- Experimental developments; diagnostics and loading techniques
- First-principles and molecular dynamics
- Geophysics and planetary science
- Grain-scale to continuum modeling
- High energy density physics / warm dense matter
- Inelastic deformations, fracture, and spall
- Materials science
- Particulate, porous, and composite materials
- Phase transitions
- Soft matter
- Ballistics studies
- Spectroscopy and optical studies
- Focus Topic: Ejecta physics
- Focus Topic: Uncertainty quantification (UQ) in compressible high-speed flows

*Second Announcement*  
20<sup>th</sup> American Physical Society  
Topical Conference on  
Shock Compression of  
Condensed Matter

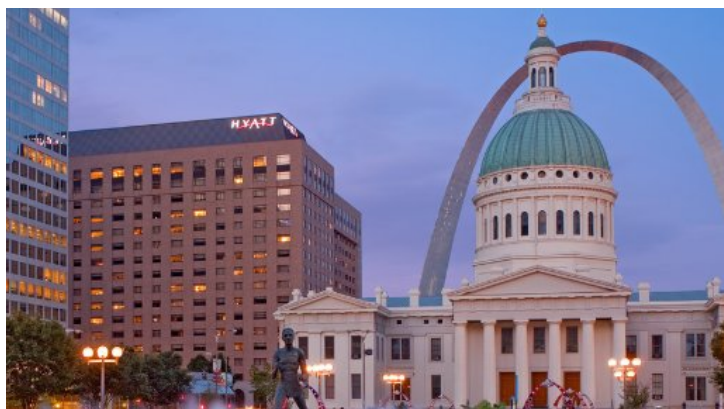
July 9-14, 2017

Hyatt Regency at the Arch  
St. Louis, Missouri, USA

Conference website: <http://www.cm.wsu.edu/sccm>

We are excited to announce that the 20<sup>th</sup> Biennial APS Shock Compression of Condensed Matter Conference will be held in St. Louis, Missouri, on July 9-14, 2017 at the Hyatt Regency St. Louis at the Arch. The conference hotel is situated in the heart of downtown St. Louis at the base of the Gateway Arch, immediately adjacent to the newly renovated Gateway Arch National Park.

St. Louis, located on the Mississippi River, is known as the Gateway to the West. Home to the St. Louis Cardinals and Anheuser-Busch, St. Louis is also one of the more family-friendly cities. Next to Washington, D.C. St. Louis offers the greatest number of free attractions, including their World-class Zoo, many museums, the Muny (St. Louis' outdoor amphitheater), and much more. Easily accessible by airplane and centrally located in the U.S., St. Louis will be a great venue for this Conference.



## Calendar of Events

- December 12, 2016 – 2<sup>nd</sup> Announcement and Call for Abstracts
- January 3, 2017 – Hotel Reservation, Registration, and Activity Information
- February 24, 2017 – Abstracts Deadline
- June 12, 2017 – Hotel Reservation Deadline and Early Registration Deadline
- July 9-14, 2017 – Conference

We invite you to save these dates, and next summer

# Meet Me in St. Louis!

Eric Brown, Marcus Knudson, and Jon Eggert  
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SCCM-2017 Co-Chairs

# Abstract Submission

Abstract submission is open through February 24, 2017. Abstracts should be submitted online through the APS website:

<http://www.aps.org/meetings/meeting.cfm?name=SHOCK17>

using the sorting categories that correspond to the 15 technical areas and 2 focus topic areas. We will inform submitters of their acceptance after abstracts are sorted into oral and poster sessions – the sorters meeting is currently scheduled for early March, 2017.

## Conference Registration

Conference registration will open in early January, 2017; additional information regarding registration will be included in the final announcement in early January, 2107. Registration rates will be as follows:

- APS Member (by June 12, 2017) \$800
- APS Member (after June 12, 2017) \$950
- Non-Member \$1200
- Student/Retiree \$250
- One-Day Registration \$400

## Accommodations

A room block has been reserved at the host hotel, The Hyatt Regency St. Louis at the Arch, at the standard government per diem rate of \$125 per night. Additional information regarding hotel reservations will be included in the final announcement in early January, 2017. We ask that you please wait to make hotel reservations until that time.

## Conference Committee

### **Conference Chairs**

- Eric Brown, Los Alamos National Laboratory (en\_brown@lanl.gov)
- Marcus Knudson, Sandia National Laboratories / Washington State University (mknudson@wsu.edu)
- Jon Eggert, Lawrence Livermore National Laboratory (eggert1@llnl.gov)

### **Conference Treasurer**

- Mark Elert, US Naval Academy (elert@usna.edu)

### **Conference Student Program**

- Katie Brown, Los Alamos National Laboratory (kebrown@lanl.gov)

### **Conference Proceedings Editors**

- Ricky Chau, Lawrence Livermore National Laboratory (chau2@llnl.gov)
- Tim Germann, Los Alamos National Laboratory (tcg@lanl.gov)

- Matt Lane, Sandia National Laboratories (jlane@sandia.gov)

### **International Advisors**

- Tony Zocher, Los Alamos National Laboratory (zocher@lanl.gov)
- Frank Cherne, Los Alamos National Laboratory (cherne@lanl.gov)

### **Conference Technical Committee**

- Detonation and shock-induced chemistry: Tariq Aslam (LANL), Caroline Handley (AWE), and Mario Fajardo (AFRL)
- Energetic and reactive materials: Bryce Tappan (LANL), Trevor Willey (LLNL), and Mike Lindsay (AFRL)
- Equations of state: Neil Bourne (Manchester), Stephanie Brygoo (CEA), and Dayne Fratantuono (LLNL)
- Experimental developments; diagnostics and loading techniques: Brian Jensen (LANL) and Robin Benedetti (LLNL)
- First-principles and molecular dynamics: Ann Mattsson (SNL), Saryu Fensin (LANL), and Alejandro Strachan (Purdue)
- Geophysics and planetary science: Federica Coppari (LLNL) and Thomas Duffy (Princeton)
- Grain-scale to continuum modeling: Nicola Bonora (Cassino) and Sunil Dwivedi (Ga Tech)
- High energy density physics / warm dense matter: Arianna Gleason (LANL) and Amy Jenei (LLNL)
- Inelastic deformations, fracture, and spall: Nathan Barton (LLNL), Cyril Williams (ARL), and Tom Ao (SNL)
- Materials science: Thomas Mattsson (SNL), Jeremy Millet (AWE), and Naresh Thadhani (Ga Tech)
- Particulate, porous, and composite materials: Anthony Fredenburg (LANL), Steve Bliss (NYU), and Minta Akin (LLNL)
- Phase transitions: Jow-Lian Ding (WSU), Ray Smith (LLNL), and Frank Cherne (LANL)
- Soft matter: Clive Siviour (Oxford) and Dana Dattelbaum (LANL)
- Ballistics studies: Scott Alexander (SNL) and Ernest Baker (NATO MSIAC)
- Spectroscopy and optical studies: Dan Dolan (SNL) and Brandon LaLone (NSTech)
- Focus Topic: Ejecta physics: William Butler (LANL) and Fady Najjar (LLNL)
- Focus Topic: Uncertainty quantification (UQ) in compressible high-speed flows: Thomas Jackson (UF), Fady Najjar (LLNL), and Habib Naim (SNL)

## Topical Group Officers 2017

### **Past Chair**

- Dan Dolan, Sandia National Laboratories

### **Chair**

- Damian Swift, Lawrence Livermore National Laboratory

### **Chair-Elect**

- Brian Jensen, Los Alamos National Laboratory

### **Vice-Chair**

- Tim Germann, Los Alamos National Laboratory

### **Secretary / Treasurer**

- Mark Elert, US Naval Academy