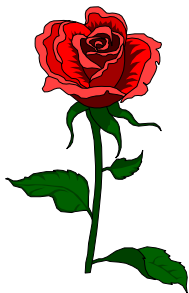


2003 APS SCCM Portland



APS TOPICAL CONFERENCE ON SHOCK COMPRESSION OF CONDENSED MATTER

Sunday - Friday, July 20 - 25, 2003
Doubletree Hotel - Lloyd Center
Portland, Oregon, USA

Conference website: www.aps.org/meet/SHOCK03

Y. M. Gupta, Conference Chair

Final Announcement

The 13th American Physical Society Topical Conference on Shock Compression of Condensed Matter will be held in Portland, Oregon, USA, Sunday evening through Friday noon, July 20-25, 2003. Contributed presentations in oral and poster sessions, along with invited and plenary presentations, will be featured during the four and one-half days of the Conference. Recent advances in experimental, theoretical, and computational studies will be highlighted.

Representative scientific topics of interest are:

- ES - Equation of State
- PT - Phase Transitions
- CR - Chemical Reactions
- WM - Warm Dense Matter
- DF - Inelastic Deformation and Fracture
- MP - Materials-Related Phenomena
- GP - Geophysics and Planetary Science
- EM - Energetic Materials and Detonation
- OS - Optical studies
- MD - Ab-Initio and Molecular Dynamics Calculations
- ED - Experimental Developments
- WP - Nonlinear Wave Propagation
- ST - Special Topics

Hardbound Conference proceedings will be published after technical review of the papers. Only papers presented at the Conference will be published in the Proceedings.

TECHNICAL SESSIONS

APS *Bulletins* with abstracts and schedules will be available at the Conference. All technical sessions will be in ground-floor meeting rooms of the hotel adjoining the lobby. A continental breakfast will be served in the foyer Monday through Friday at 0700. Sessions will begin each morning at 0800.

Monday through Thursday will start with one-hour plenary talks in the Lloyd-Center Ballroom. Plenary Speakers will be:

- **Neil Ashcroft**, Cornell University;
- **Russell Hemley**, Geophysical Laboratory, Carnegie Institute, Washington, DC;
- **Donald Curran**, SRI International; and
- The **Shock Wave Science Award** winner.

Friday will start with parallel sessions.

A special session of invited papers on "Biological Applications" is planned. George Duvall, recently deceased, will be remembered in a special session. An author-attended poster session with refreshments will start Monday at 1630. All other sessions will be simultaneous parallel ones, with allocated times of 12 minutes for contributed and 25 minutes for invited papers. Many of the parallel sessions will start with an invited paper. The following authors have agreed to present invited papers:

- Scott Bardenhagen**, Los Alamos National Laboratory
- Stanley Caulder**, Naval Surface Warfare Center—Indian Head
- Ricky Chau**, Lawrence Livermore National Laboratory
- Hyunchae Cynn**, Lawrence Livermore National Laboratory
- Michael Desjarlais**, Sandia National Laboratories
- Dan Dolan**, Washington State University
- William Goddard**, California Institute of Technology
- Dennis Grady**, Applied Research Associates
- Rick Gustavsen**, Los Alamos National Laboratory
- Damien Hicks**, Lawrence Livermore National Laboratory
- David Holtkamp**, Los Alamos National Laboratory
- Brian Jensen**, Washington State University
- Kai Kadau**, Los Alamos National Laboratory
- Marcus Knudson**, Sandia National Laboratories
- Ray Lemke**, Sandia National Laboratories
- Cheng Liu**, Los Alamos National Laboratory
- Jean-Bernard Maillet**, CEA, France
- Pavel Makarov**, Institute of Strength Physics and Materials Science, Tomsk, Russia
- Riad Manaa**, Lawrence Livermore National Laboratory
- Stephane Mazevet**, Los Alamos National Laboratory
- Shawn McGrane**, Los Alamos National Laboratory
- Jeffrey Nguyen**, Lawrence Livermore National Laboratory
- David Partouche-Sebban**, Los Alamos National Laboratory
- Su Peiris**, Naval Surface Warfare Center—Indian Head
- Evan Reed**, Massachusetts Institute of Technology
- William Reinhart**, Sandia National Laboratories
- Sarah Stewart-Mukhopadhyay**, Harvard University
- Viktor Struzhkin**, Carnegie Institute
- Sergey Zybin**, US Naval Academy

Several companies, including Ktech, Hadland, Cooke, and Cordin, expect to have exhibits at the Conference.

Mid-morning and mid-afternoon breaks will be served in the adjacent foyer. Lunches will be provided Monday, Tuesday, and Thursday in the second-floor Cascade Ballroom. A Topical Group Business Meeting will occur in the Lloyd Ballroom on Wednesday following the last technical paper of the morning. The Conference Reception and Banquet will be on Thursday in the Lloyd-Center Ballroom starting at 1830. The Conference will end at 1230 on Friday.



Multnomah Falls



SCHEDULE OF EVENTS

- April 1, 2003 - Final announcement with Hotel and Registration forms mailed
- April 15, 2003 - Abstract acceptance letters mailed
- June 20, 2003 - Hotel reservation deadline
- July 20-25, 2003 - APS Topical Conference



AUDIO-VISUAL EQUIPMENT

The primary projection equipment will be standard overhead projectors. Provisions will be available for electronic projection of slides and movies from laptop PC computers as stipulated below. Special requests for any other equipment must be received by Jerry Forbes, Technical Chair, [forbes1@llnl.gov or (925) 423-4906] at least two weeks before the meeting.

Electronic projection will only be from conference-provided laptop computers. These PCs will have Windows 2000 or Windows XP. All presentations must be in Power Point 2000/XP or pdf. Pictures should be inserted into talks and not copied and pasted, since insert command keeps pictures in Microsoft or Adobe format so computers can recognize them. Presenters are responsible for making sure that their presentation will operate on the

conference computers. No extra time will be allotted in a session for fixing computer problems.

A CD with the talk needs to be given to the A/V people the day before the scheduled presentation so it can be loaded on the computer hard drive. It is strongly recommended that presenters check their presentations on the available computer/projector system in the review room (Portland Room, 2nd floor) at least a day before the talk. The CD needs to be labeled with the first author's name, paper session number, date of session, and slide numbers that have embedded movies. If a movie is embedded, the presentation and movie should be together in one folder on the CD. A set of viewgraphs for the standard overhead machine should be brought (in case the computer does not work) since the sessions must be kept on schedule.

If you prefer to send your presentation on a CD to AV Chair Paulo Rigg for checkout before the meeting, it has to arrive at his office no later than two weeks prior to the meeting. Dr. Rigg's address is Mail Stop P952, Los Alamos National Laboratory, Los Alamos, NM 87545, prigg@lanl.gov or (505) 665-5934.



Portland Rose Garden



CONFERENCE REGISTRATION

Prompt pre-registration and hotel reservation with the included forms are highly recommended and desirable for a successful Conference. The registration fee is \$450 for APS members, \$675 for non-APS members, and \$225 for students and retirees. The fee entitles participants to attend all technical sessions, refreshments during scheduled breaks, continental breakfasts, three lunches, registration social, poster-session reception, conference reception and banquet, a copy of the conference proceedings, and a voluntary \$10 Shock Compression Award contribution.

If you pre-register using a credit card (Visa or Mastercard only), your account will NOT be charged until immediately before the Conference. The Registration desk and a Topical Group membership desk will open at 1600 on Sunday, July 20, in the foyer near the Lloyd Center Ballroom. New APS and SCCM Group memberships will be accepted at the membership table during registration. Light hors d'oeuvres will be served at 1800. Alita Roach, alita@lanl.gov or (505)665-6277, can be contacted for more information on conference registration and hotel reservations.

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PORTLAND

Portland, located in the beautiful Pacific Northwest, is known as the City of Roses. Portland, with its vibrant, diverse neighbors is home to all manner of people, with cafes and markets, art, parks, plazas, vistas and sanctuaries. It has distinct districts, such as the artistic Pearl District, sophisticated Nob Hill, and bohemian Hawthorne. All draw enthusiastic visitors. These areas encourage exploration on foot, and Portland has been designated as one of America's best walking cities.

For visitors wanting to cover larger portions, public transportation is both accessible and user friendly with MAX (Metropolitan Area Express) light rail trains, streetcars, and a bus system. All offer FREE service within the downtown area. The 110-year old Portland Art Museum, newly and richly endowed, has opened new permanent exhibit galleries and an outdoor sculpture garden. Registrants wishing to extend their stay can plan mini-vacations with a number of day trips, such as to Mount Hood, Oregon coast, and Willamette Valley vineyards.

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ACCOMMODATIONS

The Doubletree Hotel-Lloyd Center has been chosen for lodging and Conference activities. This hotel is about 15 minutes from the airport and will provide complimentary shuttle service from the airport on a 30-minute schedule. MAX Rail operates directly from the baggage-claim area of the airport to within one-half block of the hotel at 15-minute intervals for a nominal fare of \$1.55. Taxi fare from the airport to the hotel is about \$22.



Portland, Oregon

The hotel location is considered as "center of the city" with free MAX Rail running directly from the hotel to the central business, shopping, and entertainment districts. Several restaurants and a lounge are in the hotel, as are a swimming pool and exercise room. Rates will be \$105/night plus 11.5% tax for single/double occupancy. Children under 18 stay free when occupying the same room as their parents. On-site covered parking has been arranged for \$7/night. Registrations must be made through the Conference Coordinator; forms are provided with this announcement.

Oregon's largest shopping mall, Lloyd Center, is adjacent to the hotel. It houses a 17-restaurant food court, 18-screen movie theater, an indoor ice rink, and 200 shops and department stores. Portland has no sales tax, which can add savings to your shopping pleasure. The hotel's extensive meeting space will allow for plenary and breakout sessions, a poster session, continental breakfasts and three lunches, as well as receptions and the banquet.

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TOURS / COMPANION PROGRAM

A one-hour free Companion Breakfast and orientation is scheduled for Monday at 9 am in the Cascade Ballroom, second floor. Companions are invited to join the Registration Social on Sunday evening, the author-attended poster session and reception on Monday at 1630, and Conference lunches Monday, Tuesday, and Thursday (additional charge for lunches) in the 2nd-floor Cascade Ballroom. Please note your intent on the Registration form.

A seven-hour Portland City Tour has been arranged for companions for Tuesday, July 22. A bus will drive the group through parks, historic districts, cultural districts, Chinatown and Gardens and the International Rose Test Gardens. Time will be allowed for lunch (on your own) and shopping in the "trendy Nob Hill" area. The Japanese Garden and the historic Pittock Mansion will be toured. Companions will have time to explore the art galleries and shops in the Pearl District. Cost of this tour will be \$45 and the bus will leave from and return to the Doubletree Hotel.

On the free Wednesday afternoon, the entire group will have an opportunity to tour the Columbia River Gorge by bus from 1300 to 1800. A gourmet sack lunch will be provided on the way to Multnomah Falls, continuing on to the Bonneville Fish Hatchery and the giant sturgeons. The Bonneville Dam Visitor Center will be a highlight with a tour of the facility by the US Forest Service staff. Buses will leave from and return to the Doubletree Hotel; tour cost including lunch will be \$60 each. This extra tour is NOT included in the registration fee. Please note your interest in this tour on the Registration Form.



Bonneville Dam

TECHNICAL PROGRAM COMMITTEE

- Jerry Forbes:** Chair,
Lawrence Livermore National Laboratory
- Rebecca Brannon:** Computational Mechanics of Materials,
Sandia National Laboratories
- Robert Cauble:** Warm Dense Matter, EOS,
Lawrence Livermore National Laboratory
- Ricky Chau:** Planetary Science, Geophysics,
Lawrence Livermore National Laboratory
- Dana Dlott:** Optical Studies, Biological Systems,
University of Illinois
- Marcus Knudson:** EOS, Mesoscale,
Sandia National Laboratories
- Philip Miller:** Energetic Materials, Detonation,
Naval Surface Warfare Center--Indian Head
- David Moore:** Chemical Reactions, Optical Studies,
Los Alamos National Laboratory
- Vitali Nesterenko:** Materials Related Phenomena (Mechanics),
Nonlinear Waves,
University of California, San Diego
- Paulo Rigg:** Phase Transitions,
Los Alamos National Laboratory
- Carter White:** Condensed Matter Theory, M.D. Simulations,
Naval Research Laboratory
- Choong-Shik Yoo:** Static Pressure Studies,
Lawrence Livermore National Laboratory
- Anna Zurek:** Materials Related Phenomena (Materials Science),
Fracture,
Los Alamos National Laboratory



Mount Hood

CONFERENCE COMMITTEE

- Conference Chair**
Yogendra Gupta, Washington State University
- Technical Program Coordinator**
Jerry Forbes, Lawrence Livermore National Laboratory
- Advisors**
James Asay, Washington State University
Robert Hixson, Los Alamos National Laboratory
Neil Holmes, Lawrence Livermore National Laboratory
- Poster Session Chairs**
Clinton Hall, Sandia National Laboratories
Ricky Chau, Lawrence Livermore National Laboratory
- Publication Chair**
Michael Furnish, Sandia National Laboratories
- Educational Outreach**
Vitali Nesterenko, University of California, San Diego
- International Advisor**
Paul Urtiew, Lawrence Livermore National Laboratory
- Conference Treasurer**
J. Michael Boteler,
Naval Surface Warfare Center--Indian Head
- Conference Coordinators**
Alita M. Roach, Los Alamos National Laboratory
William E. Deal, Los Alamos National Laboratory
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TOPICAL GROUP OFFICERS 2003

- Chair**
Steve Bless, University of Texas, Austin
- Chair-Elect**
Brad Holian, Los Alamos National Laboratory
- Vice-Chair**
Craig Tarver, Lawrence Livermore National Laboratory
- Secretary/Treasurer**
J. Michael Boteler, Naval Surface Warfare Center--Indian Head

04-01-03