

**2010 Business Meeting
of the APS Topical Group on Shock Compression of Condensed Matter**

March 16, 2010, 5:45 PM, room D139 Oregon Convention Center, Portland OR
(held in conjunction with the 2010 APS March Meeting)

Agenda:

- A. Welcome (Dave Moore)
- B. Elections results (Mike Furnish)
- C. Financial report (Mike Furnish)
- D. Committee memberships, committee reports, and awards (Mike Furnish, Dave Moore)
- E. Job manuals (Mike Furnish)
- F. Group membership statistics and issues (Dave Moore, Mike Furnish)
- G. Proposed Bylaws change to clarify role of Awards / Fellowship Committee
- E. 2011 conference report (John Borg?)
- F. Outreach report (Dana Dattelbaum?)
- G. Open floor

A. Welcome (Dave Moore)

(Minutes of last meeting approved)

B. Elections results (Mike Furnish).

Newly elected officers are preceded by an asterisk.

Past-Chair (1/1/2010 through 12/31/2010) M. D. Knudson (Sandia)

Chair (1/1/2010 through 12/31/2010) D. S. Moore (LANL)

Chair-Elect (1/1/2010 through 12/31/2010) N. K. Bourne

*Vice-Chair (1/1/2010 through 12/31/2010) D. M. Dattelbaum (LANL)

*Secretary/Treasurer (1/1/2010 through 12/31/2012) M. D. Furnish (Sandia)

Webmaster E. R. Lemar

Executive Committee, Members At Large:

*E. A. Glascoe (LLNL) (1/1/2010 through 12/31/2011)

J. L. Jordan (AFRL/MNNE) (1/1/2009 through 12/31/2010)

*S. M. Peiris (DTRA) (1/1/2010 through 12/31/2011)

K. P. Prestridge (LANL) (1/1/2009 through 12/31/2010)

C. Financial report (Mike Furnish)

The summary financial report for the SCCM09 Nashville conference was presented. The net conference revenue was \$21,281.68 (difference between gross income of \$373309.01 and expenditures of \$352,027.33). For future reference, two items were critical to this surplus. First, we received \$10,000 each from LANL and LLNL in support of the Conference. These almost exactly counterbalanced the \$20,081.48 required to bring the overall room block to per diem plus 25%, a generally accepted level for a conference hotel. Second, we provided APS (Mike Stephens) with the documents required for an APS application for sales tax exemption in the state of Tennessee. This

saved \$19,185.19. Future conference organizers should bear this in mind. Jack Wise (jlwise@sandia.gov) can provide more details.

The GSCCM account balance is presented as a function of time here (at year end):

2/28/2010	2009	2008	2007	2006	2005
\$101,894	\$99,322	\$69,662	\$68,834	\$127,426	\$173,687

The large fluctuations in odd-numbered years are due in large part to the respective Conference surpluses or losses.

These figures do NOT include the Duvall Award account balance, which currently is \$55,592.

D. Committee memberships, committee reports, and awards (Mike Furnish, Dave Moore)

The nominating committee is comprised of the following people:

- Chair (through 12/31/2010) Maija Kukla (Univ of MD/NSF) National Science Foundation 4201 Wilson Blvd Arlington, VA 22230 Phone: (703) 292-4940 Email: mkukla@nsf.gov
- APS Appointee (through 12/31/2010) Joel Carney, 4104 Evans Way, Suite 102 Indian Head Division NSWC Indian Head, MD 20640 Phone: (301) 744-4213 Fax: (301) 744-4445 Email: joel.carney@navy.mil
- Member (through 12/31/2010) Choong-Shik Yoo , Institute for Shock Physics Department of Chemistry Washington State University Pullman, WA 99164, Phone: (509) 335-2712 Fax: (509) 335-6115 Email: csyoo@wsu.edu
- Member (through 12/31/2011) William Proud , Imperial College London
- Member (through 12/31/2011) Eric Brown, Los Alamos National Lab

The George E. Duval Shock Compression Science Award Selection Committee and Fellowship Committee For 2011 Award and 2010-2011 Fellowships is comprised of the following people:

- Chair: Suhithi Peiris (Through 12/2009) Defense Threat Reduction Agency Tel: (703) 767-4732 Fax: (301) 767-5535 Email: suhithi.peiris@dtra.mil
- Don Curran (2009 Award Recipient) (Through 12/2011)
- Justin Wark (Through 12/2011) Tel: +44 1865 272251 Fax: +44 1865 282296 Email: justin.wark@physics.ox.ac.uk
- New members and Vice-Chair are in the process of being nominated.

The new APS Fellows from the 2009 nominations cycle nominated by GSCCM are:
Benson, David J.

University of California, San Diego

Citation: In recognition of fundamental algorithms in hydrocodes and pioneering work in nonlinear, time-dependent continuum numerical simulations at the micromechanical level to develop a fundamental understanding of the response of materials to shock propagation, including energy.

Fried, Laurence E.

Lawrence Livermore National Laboratory

Citation: In recognition of outstanding contributions to the physics and chemistry of shocked materials, the high pressure, high temperature equations of state of solids and liquids, and the prediction of energetic material reactivity, most notably the existence of sub-picosecond chemistry in high temperature dense fluids.

E. Job manuals (Mike Furnish)

These descriptions of the duties and how-to facts for the various TG officers are in preparation and will be posted on the web via the SCCM website, <http://www.shockphysics.org/>. At this point documents are completed for Secretary-Treasurer, Nominating Committee, and (process notes) the student award selection committee. The Secretary-Treasurer is continuing this project, and will be posting these as they are completed and checked. These will be living documents.

F. Group membership statistics and issues (Dave Moore, Mike Furnish)

The recent history of the Topical Group membership is as follows:

Year	2006	2007	2008	2009	2010
Number	379	367	407	354	385
% of APS	0.83%	0.79%	0.88%	0.75%	0.80%

A breakdown of the current 385 members follows:

Total	Regular	Senior	Life	Student	Fellow	Male	Female	GNG*
385	225	20	16	75	49	332	28	25

*Gender not given

We need a membership committee, with a recommended composition of a chair and three members. A name was suggested to chair this committee at the meeting, and contacting this person is in progress. This committee would be tasked to work with APS HQ and the GSCCM officers / executive committee to increase GSCCM membership. In the past we have had a table at the SCCM conferences. This has been extremely time intensive for the benefit received.

Per the APS Constitution (<http://www.aps.org/about/governance/constitution.cfm>), Topical Groups must have at least 300 members to retain their status as Topical Groups (see Article VIII, Section I).

Other membership statistics and demographics may be found at the APS site under <http://www.aps.org/membership/units/statistics.cfm>.

Ramon Ravelo suggested that the website should better lay out the benefits of membership, in particular, that of nominating fellows. As well, he pointed out that the newsletters and website could be instrumental in promoting members' professional contributions.

Matthew Lane pointed out that the large fraction of students in the TG reflects either a god job recruiting students or a bad job retaining them as they move on into full-time professional positions.

Dave Moore suggested that we contact SCCM attendees who are not GSCCM members and discuss what is in it for them. Also consider life members.

Returning to the website topic, Su Peiris feels we should revisit the question of whether to let APS host the website.

G. Proposed Bylaws change to clarify role of Awards / Fellowship Committee (Mike Furnish)

The APS GSCCM Bylaws (<http://www.aps.org/units/gsccm/governance/bylaws.cfm>) do not reflect the recent merger of the Fellowship and Awards committees. We proposed that Article VIII Section 4 of the Bylaws be amended to read (additions in *italics*):

4. *George E. Duval Shock Compression Science Award Selection and Fellowship Committee.* The *George E. Duval Shock Compression Science Award Selection and Fellowship Committee* shall be chaired by the Vice-Chair or his/her replacement as selected by the Chair if the Vice-Chair is vacant, and shall include three members appointed by the Chair, to two-year terms.. It shall solicit, propose and review the nominations of candidates for Fellowship and shall report its recommendations to the Executive Officer of the Society. *As well, it shall solicit, propose and review the nominations of candidates for the George E. Duval Shock Compression Science Award and select the winner of the Award, to be presented at the Topical Group Meeting.*

However, during discussion, it became apparent that a requirement that the Vice-Chair of the Topical Group serve on this committee might create an institutional conflict of interest. A suggested revision will be made available to the membership in the near future for their consideration, leading eventually to a vote and to approval by APS Council. The membership of the Committee needs to agree with APS requirements for Awards Committees.

It was suggested that we approach Dana Dlott for his proposed wording change.

E. 2011 conference report (John Borg slides given by Mike Furnish)

A Powerpoint presentation about SCCM11 (6/26-7/1/11; Renaissance Hotel, Chicago, IL), was given. The organizing committee for SCCM11 includes

- John Borg (Marquette University)
- Jennifer Jordan (Eglin AFB)
- Tracy Vogler (Sandia National Laboratories)
- Sunil Dwivedi (University of Florida) [Treasurer]

The hotel POC at present is Sharon Pergande of Marriott Renaissance.

Other facts about this Conference:

- The Conference website is <http://www.marquette.edu/aps2011/>; email may be sent to aps2011@marquette.edu. Email regarding the companion and social aspects of the meeting may be sent to apscompanions@comcast.net.
- We will “own” the hotel, occupying essentially the entire suite of meeting rooms.
- Expected Registrations: 500 (471 in 2009)
- Expected Early Member Registration Fee: \$690 (\$690 in 2009)
- Hotel Room Nights 1,650 with 80% Commitment (? 2009)
- Non-Government Rate: \$177 per night and Government Rate: per-diem guaranteed
- A/V provided by in-house IT (current option)
- Online registration and fee payment (PayPal)

[Note – Ramon Ravelo asked why not use APS direct support – this could be easier for many government organizations to handle. Scott Crockett asked about costs. These questions were forwarded to John Borg.]

- Catering minimum \$130,000 (vs. 120,000 in 2009)

The tentative planning schedule is as follows:

- Planning Visit to Chicago: Early summer 2010
- First Conference Call: October 15, 2010
- Submission of Abstracts OPEN: October 31, 2010
- Submission of Abstracts CLOSES: February 20, 2011
- Abstract sort at APS: March, 2011
- Email Notification of Poster/Oral Presentation / Posting of Meeting Schedule on APS Website: April, 2011
- On-line Submittal of Manuscripts: April, 2011
- Close of Early Registration: June 1, 2011
- Last chance for booking hotel at CONFERENCE RATE: June 1, 2011
- Conference Dates: June 26 - July 1, 2011

Other details about the conference are as follows:

- Approximately 5 concurrent sessions for 5 days
- 30 Technical Committee Members to be Identified from DoE, DoD, academics and International institutions
- Host special New sessions as suggested by GSCCM members
- Wednesday break/Companion Program (Linn Furnish)
- Proceedings by AIP (Mark Elert and Billy Buttler)
- Conference proceedings made open source, where GSCCM pays a one time fee of \$15 per article

F. Outreach report (Dana Dattelbaum; given by Dave Moore and Mike Furnish)

- 2009 SCCM meeting
 - Student Breakfast held at SCCM2009 Nashville
 - Not well attended (too early? Not publicized well enough?) Note that the Conference organizers didn't ascertain whether a budget existed for this event until ~2 months ahead.
- 2010-2011
 - March Meeting - APS FGSA (Forum on Grad Student Affairs), Society of Physics Students (AIP Org)
 - SCCM2011 Chicago
 - Information table?
 - Happy hour / mixer?
 - What mechanism to publicize?
- Dana needs helpers - please nominate your friends and let Dana know!
- For 2011, should the student awards be made at one of the lunches? The problem appears that there are no full lunches planned.

G. Open floor

(No further discussion)

Motion to adjourn by Thomas Mattsson, seconded by Tim Germann; motion passed.

Meeting adjourned 3/16/10 ~7:15 PM.

Attendees (8):

Scott Crockett

Ramon Ravelo

Thomas Mattsson

Tim Germann

Matthew Lane

Suhithi Peiris

Mike Furnish

Dave Moore