



**President's Message**  
**Timothy G. Buchman, Ph.D., M.D.**

The Shock Society is honored by your membership. That decision, and more importantly your participation, sustains the Shock Society as the principal intersection among basic, translational and clinical studies of shock. Elsewhere in this newsletter, you will read the reports of our prior meeting and the exciting plans for the joint meeting with the International Federation of Shock Societies. Dr. James Lederer and his program committee have organized an exciting program. I look forward to seeing you there!

Research funding is likely to continue scarce over the next few years. We will have to work together to ensure that shock science continues to get its fair share. Here are ten strategies that might help your lab sustain itself:

1. Track the "pulse" of federal funding. Concept sheets for new RFAs can point to areas of interest before RFAs are formally announced. Keep abreast.
2. Apply widely. Other agencies beyond NIH may have an interest in your work.
3. Help your local development officer develop a campaign around shock. Take the opportunity to address lay audiences.
4. "Team science" might not have you as the PI, but it might bring in funds to keep your lab running. Collaborate.
5. Advocacy. Speak with your congressional staffers and representatives, especially if you are from a district that is thin on NIH support. Let them know what you do.
6. Find efficiencies through shared resources and IT deployment. Save a bit here, and a bit there. It adds up.
7. Use institution-specific opportunities (have a new building? is there a capital campaign?) to advocate for recruitment of leaders who can complement your shock research efforts.
8. Tool and retool. Reviewers are selected because they are cutting-edge scientists. Make sure your tools match their expectations.

9. Pursue industry funding. Shock is a key medical problem. Take advantage of alignments.

10. Most universities have internal competition for pilot awards. Read the announcements, and apply for all relevant opportunities.

**Good luck on your applications!**



**Robert N. Cooney, MD.**  
**Secretary**

Greetings to the SHOCK Society membership! It is my pleasure to update all of you on the Society's recent initiatives. I'd like to begin by offering our thanks to Tim Billiar and the rest of the Program Committee for making the 34<sup>th</sup> Annual Meeting of the Shock Society in Norfolk, VA such a great success. The meeting was well attended with outstanding science and collaborative discussion. The Harborfest activities in Norfolk, VA added to the local entertainment options.

Congratulations to **Daithi Heffernan** from Brown University who received the 2011 **Early-Career Investigator Award**. We also congratulate this year's winner of the **New Investigator Award**, **Juan Idrovo** from North Shore LIJ Medical Center, who gave an outstanding presentation entitled "Post-treatment with the combination of AICAR and carnitine improves renal function after ischemia/reperfusion injury". I would also like to recognize the many contributions of **David Herndon**, the recipient of the 2011 **SHOCK Society Scientific Achievement Award** and to congratulate **Alfred Ayala**, the recipient of the **Distinguished Service Award**.

**Nominations for the 2012 SHOCK Society Scientific Achievement and Distinguished Service Awards**

(Cover letter and curriculum vitae) should be submitted to Eileen Bulger MD, Chair of the Awards Committee at [ebulger@u.washington.edu](mailto:ebulger@u.washington.edu) by December 1, 2011.

The 35<sup>th</sup> Annual Conference on Shock will be a joint meeting with the International Shock Congress from June 9 to 13 at the Eden Roc Renaissance Resort and Spa in Miami, FL. Jim Lederer will Chair the Program Committee and details on the scientific sessions should be available soon. The deadline for abstract submission will be January 31, 2012. I would like to remind the membership the number of Travel awards this year will be increased to forty (from 20 in 2011). The goal of this initiative is to facilitate participation in the annual meeting in light of the financial constraints most academic institutions are facing. So please, encourage your residents, postdoctoral fellows and other research trainees to submit their best work for these awards.

The 36<sup>th</sup> Annual Conference on Shock meeting will be held June 1 - 4, 2013 at the Sheraton San Diego Hotel in San Diego, California and the 2014 meeting will be held June 7 - 10 in Charlotte, North Carolina. I look forward to seeing all of you this June at our annual meeting in Miami, Florida.



**James Lederer, Ph.D.**  
**Chair, 2012 Program Committee**

Dear Colleagues,  
On behalf of the International Program Committee, we invite you to attend the 7<sup>th</sup> Congress of the International Federation of Shock Societies and the 35<sup>th</sup> Annual Conference on Shock. This year's program is aimed at providing an international perspective on injury, shock, and sepsis research by highlighting ongoing research from all represented countries of the International Federation of Shock Societies. The program will include plenary sessions and parallel symposia on topics that encompass new as well as ongoing shock research areas. In addition, we will hold an international session with presentations by the current presidents of the International Federation of Shock Societies, the US Shock Society, the Brazilian Shock Society, the China Shock Society, the European Shock Society, the Indonesian Shock Society, and the Japan Shock Society. We are certain that you will find the scientific and social program rewarding. The following is a list of topics to be featured:

#### **Plenary Sessions:**

##### **Shock Research From Around the Globe**

Irshad Chaudry (US) & Ansgar Aasen (Norway)

This session will include presentations from the current presidents of the International Federation of Shock Societies.

##### **Endogenous Triggers of the Injury Response**

Carl Hauser (US) & Eugen Faist (Germany)

This session will focus on new and ongoing shock research aimed at identifying and studying endogenous factors

released by injured cells and tissues that act to initiate and regulate the pathophysiology of the injury response.

##### **The Influence of Predisposing Conditions on the Pathophysiology of Injury and Sepsis**

Mashkour Choudhry (US) & Christoph Thiemermann (UK)

This session will deal with the complex nature of differences in injury and sepsis responses between healthy and unhealthy individuals.

##### **Nutritional Influences on Critical Injuries**

Paul Wischmeyer (US) & Alessandro Pontes-Arruda (Brazil)

This is a topic area that has not been featured at Shock Society meetings in the past years. New ideas about nutritional supplements and vitamins should spark discussion and insights to attendees that do not specifically investigate the influence of nutrition on the response to injury and sepsis. Topics could include amino acids, vitamins, anti-oxidants, plus other supplements.

##### **An International Perspective on New Treatments for Injury, Sepsis, and Organ Dysfunction**

Hiroyuki Hirasawa (Japan) & Richard Hotchkiss (US)

Specialists from different countries will present preclinical and clinical information about new treatment approaches to injury and sepsis.

#### **Symposia:**

##### **Cellular and Molecular Responses to Hemorrhagic Shock**

Joe Messina (US) & Haim Bitterman (Israel)

This session will focus on fundamental research advances in the biology of hemorrhagic shock focusing on cellular pathways modulated by shock.

##### **Pathways to Discovery: Cellular and Molecular Mediators of Injury and Shock**

Michael Yaffe (US) & Edmund Neugebauer (Germany)

This session will focus on innovative approaches and discoveries that have led to better understanding of the pathophysiological response to injury and shock. Some examples could be gene microarray studies, cell signaling, high throughput drug screening, innovative mouse models.

##### **Alternative Medicine Approaches to Study and Treat Injury, Shock, and Sepsis**

Charles Caldwell (US) & Yongming Yao (China)

This session will introduce us to drugs and chemicals that are considered to be "alternative" treatments for injury, shock, and sepsis. Examples could include medical marijuana, Chinese herbs, and other unconventional drugs.

##### **Traumatic Brain Injury: Prevalence, Diagnosis and Treatment**

Irshad Chaudry (US) & Ingo Marzi (Germany)

The influence of traumatic brain injury and changes in neurological function after severe injury and shock is a complex area of research that requires attention. This symposium will serve as an informative introduction on the occurrence and prevalence of TBI, suitable models, pathophysiological sequelae, and biomarkers in TBI, diagnosis of TBI and novel treatment modalities for TBI.

**The Significance of Stem Cells to Injury Research and Therapy –**

Celeste Finnerty (US) & Heinz Redl (Austria)

Stem cells play a vital role in the response to injury and healing. This symposium could serve as an overview of the relevance of stem cell biology to injury, shock, and sepsis responses and recovery. Talks on hematopoietic and mesenchymal stem cells should be included. Factors that are produced by or modulate stem cells could also be included as part of this symposium.

**Symposium – Resolution of the Injury Response**

Laurie Kilpatrick (US) & Jean-Marc Cavaillion (France)

Counter- or anti-inflammatory mechanisms are pivotal features of the injury response. This symposium will highlight advances in understanding the cellular and molecular mechanisms responsible for resolving the response to injury, shock, or sepsis.

**NOTE:** The program booklet with registration forms and meeting info will appear on the website soon. Abstract submission opens Dec. 1. [www.shocksociety.org](http://www.shocksociety.org)

**ABSTRACT SUBMISSION DEADLINE IS JANUARY 31, 2012.**



## **SHOCK SOCIETY - 2011 - 2012**

### **COUNCIL**

Timothy Buchman, Ph.D., M.D, President (2012)  
Basilgia Zingarelli, M.D., Ph.D., President-Elect (2012)  
Robert Cooney, M.D., Secretary (2012)  
Lorrie Langdale, M.D. Treasurer (2013)  
Mark Clemens, Ph.D., Past President (2012)  
Daniel Remick, M.D., Past President (2013)  
Daniel Traber, Ph.D., Past President (2014)  
Irshad H. Chaudry, Ph.D., Editor, SHOCK  
James Lederer, Ph.D., Program Chair (2012)  
Charles Lang, Ph.D., Publications Chair (2015)  
Brenda Smith, Ph.D. (2012)  
Paul Wischmeyer, M.D. (2012)  
Rosemary Kozar, M.D., (2013)  
Wolfgang Junger, Ph.D., (2013)  
Laurie Kilpatrick, Ph.D., (2014)  
Steven Wolf, M.D., (2014)  
Craig Coopersmith, M.D., (2015)  
Cynthia Otto, DVM, Ph.D. (2015)

### **STANDING COMMITTEES**

#### **Awards and Honors Committee**

Eileen Bulger, Chair (2012)  
Yoram Vodovotz (2013)  
Michael Dubick (2014)  
Charles Wade (2014)  
Perenlei Enkhbaatar (2014)  
Csaba Szabo (2014)  
Philip Efron (2015)  
Mark Clemens, Past President (2012)  
Daniel Remick, Past President (2013)  
Daniel Traber, Past President (2014)

#### **Development Committee**

David N. Herndon, Chair (2013)  
Saman Arbabi (2012)  
James Lederer, ex-officio (2012)  
Ron Tompkins (2013)  
Carl Hauser (2013)  
Ed Deitch (2014)

#### **Finance Committee**

Lorrie Langdale, Chair (2013)  
David Herndon (2013)  
Basilgia Zingarelli, ad hoc (2012)

#### **International Relations Committee**

Daniel Remick, Chair  
Basil Pruitt, Jr.  
Mark Clemens  
Daniel Traber, ex-officio  
Timothy Buchman, ex-officio  
Basilgia Zingarelli, ex-officio  
Irshad H. Chaudry, ex-officio  
Tina Palmieri, ex-officio

#### **Internet Committee**

Gary An, Chair (2012)  
Deborah Stearns-Kurosawa (2012)  
Edmund Neugebauer (2012)  
Yoram Vodovotz (2013)  
Irshad H. Chaudry, ex-officio

#### **Laboratory Animals Issues**

Piper Wall, Chair (2012)  
Joanne Lomas (2012)  
Martyn van Griensven (2013)  
Kevin McConnell (2014)  
Penny Reynolds (2014)

#### **Membership Committee**

Michelle Henry-Stanley, Chair (2012)  
Octavia Peck-Palmer (2012)  
Joseph Messina (2013)

#### **Mentorship Committee**

Brenda Smith, Co-Chair  
Basilgia Zingarelli, Co-Chair  
Richard Hotchkiss  
Alfred Ayala  
Robert Barber  
Keith Borg  
David Shepherd  
Jessica Clark  
Irshad Chaudry, Senior Advisor  
Daniel J. Bracket, Senior Advisor

#### **Nominating Committee**

Daniel Traber, Chair (2015)  
Daniel Remick (2014)  
Mark Clemens (2013)  
Basil Pruitt, Jr. (2012)

#### **Publications Committee**

Charles Lang, Chair (2015)  
Celeste Finnerty (2014)  
Ping Wang (2013)  
Jessica Dominguez (2015)

#### **Rules Committee**

Alfred Ayala, Chair (2012)  
Lorrie Langdale (2012)  
Hongwei Gao (2012)  
Cynthia Otto (2013)

#### **Scientific Program Committee**

James Lederer, (Chair 2012)  
Edward Sherwood (2012)  
Marcin Osuchowski (2012)  
Ping Wang, (Chair 2013)  
Edmund Miller (2013)  
Charles Caldwell (2013)  
Michael West, (Chair 2014)  
Celeste Finnerty (2014)  
Judith Hellman (2014)

## MINUTES OF THE SHOCK SOCIETY COUNCIL MEETING - JUNE 11, 2011

Minutes of the October 23, 2101 Council Teleconference were reviewed and approved.

**Nominating Committee** report and election results were reviewed and approved. The Shock Society President-elect is Basilia Zingarelli, the Scientific Program Chair for 2014 will be Mike West, The Basic Science councilor will be Cynthia Otto and the Clinical Science Counselor will be Craig Coopersmith. Of note, voting participation was higher this year, approximately 50%.

**Program Committee** report – highlights presented by Dr Billiar.

A) Briefly, abstracts were placed in one of 3 categories Sepsis/Infection, Shock/Trauma/Burns and Clinical Trials. The program committee was subdivided by expertise and interests to facilitate the reviewing/scoring of oral presentation abstracts. Poster only submissions were reviewed by the Program Chair and Program Chair-elect only. Of note, the total number of submissions (278) is down slightly from previous years (approximately 300).

B) The top abstracts from the Japanese Shock Society were selected for oral presentation. Next year's meeting is a joint meeting with the International Shock Society, however, it was recommended we consider extending this practice of offering abstracts to other Shock societies (e.g. European, Chinese, etc.) and have an International Shock session at future meetings.

C) Dr. Billiar developed the agenda for this year's meeting by soliciting topics from the society membership. These topics were presented to the program committee for ranking and "fine tuned" by the Program Chair.

D) Of note, the budget for invited speakers was increased this year. This was acceptable to Council, but obviously requires ongoing communication between the Program Chair, the Treasurer and Shock Society council.

**Meeting Registration** report – presented by Mary Schuerman contained information about meeting registration (160 members registered), geographic representation of registrants and historic attendance. The pre-registration of 333 attendees this year is down slightly from 355 last year in Portland, OR.

**Honors and Awards Committee** report – was presented by Dr Buchman in Dr Wolf's absence. Council discussed the current practice of only allowing one travel award per laboratory and two awards per institution. Council voted to increase the number of travel awards from 20 to 40/year. Dr. Eileen Bulger, Chair- Awards & Honors committee and past-presidents Mark Clemens and Dan Remick were charged to work with Mary Schuerman and generate information on the total number of awards requested from different institutions and individual laboratories. This information will be presented to Council to facilitate decision making about committee policies regarding multiple awards to the same institution and/or laboratory going forward.

The following awards were granted for 2011:

### **Five (5) New Investigator Awards**

Akinori Osuka – Brigham and Women's Hospital -  
Rituparna Moitra – Boston University  
Juan Idrovo – North Shore University Hospital  
Shaoning Jiang – University of Alabama at Birmingham  
Dennis Sonnier – University of Cincinnati College of Medicine

### **Twenty (20) Travel Awards**

Susan Lang – Penn State  
Cletus Cheyuo – North Shore University  
Ryan Brown – UT-Houston  
Juan Rendon – Loyola University  
Todd Baker – Loyola University  
Rami Namas – University of Pittsburgh  
Marc Hanschen – Brigham and Women's  
Christian Zeckey – Hannover Medical School  
Noelle Hutchins – Brown University  
Siarhei Slinko – University of Cincinnati  
Richard Oppeltz – UTHSC San Antonio  
Nandakumar Packiriswamy – Michigan State  
Nasser Yousif – University of Colorado  
Gautam Bandyopadhyay – University of Rochester  
Kendra Iskander – Boston University

Kyoko Kojima – University of Alabama Birmingham  
Linda Sousse – UTMB Galveston  
Bastian Bruns – University of Ulm  
Alyssa Kallweit – University of Colorado  
Liz Mann – University of Texas at Houston

### **Four (4) Diversity Enhancement Travel Awards**

Marlene Starr, B.S., University of Kentucky,  
Luis Lee, M.D., University of Colorado  
Wilbert Jones, M.D., University of Colorado  
Alexandr Samocha, University of Pennsylvania

**Development Committee** – Basically Dr Herndon's solicitation of contributions and exhibits to industry was unsuccessful. A face-to-face approach with potential donors/exhibitors and more targeted approach to vendors was suggested. Gary An noted a survey of potential vendors might be useful and offered to facilitate this effort.

**Treasurer Report** was presented by Dr Langdale and approved by Council. The Shock Society transferred its accounts from Ohio to Washington this year. The financial summary was reformatted. The society signed a new meeting with Strategem for meeting management services which extends from June thru July 2015. The society also signed a new contract with Lippincott for the journal Shock. This provided a \$100,000 signing bonus and we anticipate increased revenues annually for the duration of the contract. The society will have to obtain liability insurance coverage as stipulated in the contract. Council voted to have the president –elect, President and Treasurer listed as official signatures on Shock Society accounts.

**Shock Journal Editor's Report** was presented by Dr Chaudry. Total manuscript submission is down slightly from 560/yr to 519 this year. This represents an 8% reduction. An overview of submissions and published manuscripts were detailed. The average turn-around time from acceptance to publication is 4.5 months.

**Strategic Planning Report** was presented by Dr Remick. The proposed mission statement was reviewed and met with Council acceptance.

A) The goal to become the leader in SHOCK research at interface between basic and translational research was generally accepted. There was generally nonproductive discussion trying to define what exactly was translational research.

B) Shock Society should facilitate collaborations between basic and clinical investigators. This idea was generally accepted the group. How best to accomplish this within the society's current budget was discussed. The idea of offering funding either alone or with NIH to foster collaborative research was discussed. Dr Buchman will follow up on this with Scott Somers from NIH and report back. Another idea was to offer a Collaborative Research Award at future meetings. This was met with enthusiasm by the group as an "inexpensive" mechanism to foster collaborative research within the society.

C) Annual white paper on Shock was viewed as a good idea, but we were unable to resolve the logistics and ownership required to move this idea forward.

**Internet Committee Report** was presented by Dr An. Many of the society functions including membership application, dues, balloting for officers, etc. have become internet based functions.

**Lab Animals Issues Committee report** was reviewed and had no major concerns to present to the society.

**Membership Committee Report** was discussed in Dr Henry-Stanley's absence. Basically, the society's membership is stable. There were 24 new members in 2010 and 32 new members in 2011. Attrition of previous members seems to be primarily related to change in research focus or to global financial issues.

**Mentorship Committee Report** was presented by Dr Brenda Smith. The session on "Oral Presentations by and for New Investigators" will be held this year. In addition, there will be a mentorship luncheon on Tuesday to promote interactions and mentorship between experienced and new investigators.

**Publication Committee Report** was reviewed and discussed by Council in Dr Fred Moore's absence. The title of Dr Dan Meldrum as Senior Associate Editor for Shock or Associate Editor-in-Chief was discussed. Council voted on changing/maintaining his title as the Associate Editor-in-Chief.

**Rules Committee Report** was reviewed and approved by Council.

Dr Buchman submitted a list of committee appointments which was reviewed and approved by Council.

A motion to adjourn was approved and passed.

Respectfully Submitted  
Robert N. Cooney, MD  
Shock Society Secretary

## **MINUTES - SHOCK SOCIETY BUSINESS MEETING – JUNE, 2011**

President Traber called the Shock Society Business Meeting to order

Dr. Billiar presented the report of the Program Committee and acknowledged the hard work of the committee members in reviewing abstracts, etc. Total abstract submissions (278) were slightly decreased from previous years (approximately 300). Members were referred to his official report for details of the committee activities this year.

Mary Schuerman from Strategem noted the final meeting registration was 360 attendees this year. She reviewed future meeting dates and locations which are present on the Shock Society website.

Dr Chaudry presented the Shock Journal Editor's Report. Total manuscript submissions were down slightly from 560/yr to 519 this year. A detailed overview of submissions and published manuscripts is detailed in the editor's report. The average turn-around time from acceptance to publication is 4.5 months. Details of the new journal contract with Lippincott were briefly outlined for the membership.

Dr Dan Remick presented the Nominating Committee report and election results to the society. The Shock Society President-elect is Basilia Zingarelli, the Scientific Program Chair for 2014 will be Mike West, The Basic Science councilor will be Cynthia Otto and the Clinical Science Counselor will be Craig Coopersmith.

Next, Dr Remick presented the Strategic Planning Report to the membership. He noted the draft plan is posted on the website and not completely finalized. Members were encouraged to review the strategic plan and provide either him or council members with any feedback. He also mentioned the plan to create a member Research Database to provide a directory of research expertise to facilitate identifying collaborators for Shock society members.

Dr Gary An presented the Internet Committee Report to the membership. Many of the society functions including membership application, dues, balloting for officers, etc. have become internet based functions. The relatively limited use of Shock society social networking venues; Facebook and Twitter was also noted.

Dr Wall presented the Lab Animals Issues Committee report and had no major concerns to present to the society.

Dr Henry Stanley presented the Membership Committee Report to the society. Basically, the society's membership is stable. There were 24 new members in 2010 and 32 new members in 2011. Attrition of previous members seems to be primarily related to change in research focus or to global financial issues. Potential strategies to increase membership were presented in her report and will be reviewed and acted on by council.

Dr Herndon had no progress to report for the Development Committee.

Dr. Brenda Smith presented the Mentorship Committee Report to the society. The session on "Oral Presentations by and for New Investigators" will be held tomorrow and chaired by herself and Dr Vodovitz. There will also be a mentorship luncheon on Tuesday to promote interactions and mentorship between experienced and new investigators.

Dr. Langdale presented the Treasurer Report to the membership. The Shock Society transferred its accounts from Ohio to Washington this year and the society's financial summary was reformatted. The society signed a new meeting with Strategem for meeting management services which extends from June thru July 2015. The society also signed a new contract with Lippincott for the journal Shock. This provided a \$100,000 signing bonus and we anticipate increased revenues annually for the duration of the contract. The society will have to obtain liability insurance coverage as stipulated in the contract. Council voted to have the president –elect, President and Treasurer listed as official signatures on Shock Society accounts. The membership was referred to the submitted report for details.

New Business – Dr Vodovitz made a motion for the Shock Society to send a letter of expression the society's condolences and support to the UMDNJ Dept. of Surgery in New Brunswick, NJ given Dr Lowry's recent death. This was unanimously approved by the membership and will be drafted and sent out on Shock Society letterhead.

Dr Tim Buchman was introduced as the new President of the Shock Society. Dr Traber was presented with a plaque recognizing his contributions to the society during the last year. Dr. Buchman vowed to operate with Dr Zingarelli as effectively a co-president during the coming year. He challenged the society members to develop basic science solutions to clinical problems, translate existing knowledge to the clinical arena and foster evidence-based medical practice. The potential for NIH to support a meeting to facilitate the development and implementation of evidence-based care for Shock was discussed. The need to balance progress in evolving personalized medicine in this context was also mentioned. A motion to adjourn was approved and passed.

Respectfully Submitted

Robert N. Cooney, MD Shock Society Secretary