



SHOCK SOCIETY SPRING NEWSLETTER 2014



2013 – 2014 EXECUTIVE COUNCIL

President

Robert N. Cooney, M.D.

President-Elect

Charles H. Lang, Ph.D.

Secretary

Sanna Goyert, Ph.D.

Treasurer

Michaela West, M.D., Ph.D.

Editor, SHOCK

Irshad H. Chaudry, Ph.D.

Scientific Program Chair

Michaela West, M.D., Ph.D.

Past Presidents

Daniel G. Remick, M.D.

Timothy Buchman, Ph.D., M.D.

Basilia Zingarelli, M.D., Ph.D.

Councilors

Laurie Kilpatrick, Ph.D.

Steven Wolf, M.D.

Craig Coopersmith, M.D.

Cynthia Otto, DVM, Ph.D.

Yoram Vodovotz, Ph.D.

John Younger, M.D.

Philip Efron, M.D.

Anirban Banerjee, Ph.D.



President-Elect's Message Charles Lang, PhD

Composing this President-elect message permitted me the opportunity to reflect about my years as a member of the Shock Society and how grateful I am to be involved in this organization and the work it accomplishes. I attended the first conference on shock in Airlie, VA as a graduate student and still remember the excitement of matching faces to the names of researchers whose papers I was reading – this hasn't changed much, except the faces are now mostly younger. In retrospect, my research interests are much the same as in those early days, still searching to understand mechanisms mediating the metabolic disturbances modulating the host response. While some may consider this lack of breadth a disadvantage, I consider myself extremely fortunate to have not only witnessed, but participated in, the growth and development of an important scientific society – one which has strengthened not only my career, but that of many other investigators, in ways much more difficult to achieve as a member of a larger scientific society. As a group, we have done and continue to do amazing research.

With the current funding climate in the US and abroad, it is more important now than ever that scientific meetings be not only an avenue for exchange of cutting edge science but also be viewed as a wise use of public funds. Over the years, our Society has provided a unique environment for clinical and pre-clinical investigators interested in infection, burns, hemorrhage, inflammation and other traumas to present and discuss research in a relaxed format. Of equal importance is the recognition that the annual conference promotes collegial interactions and the opportunity to build long-term relationships. As scientists we pursue the truth wherever it may lead, but must also acknowledge that our ultimate goal, as stated in the Society's mission statement, is "to improve the care of victims of trauma, shock and sepsis..." However, to do so, we must recognize that medical progress originates, often unexpectedly, from research into basic cellular and physiological mechanisms. So we encourage both the generation of new scientific knowledge as well as the translation application of that knowledge. In this era of collaborative science, isolation can be limiting, both professionally and intellectually. So, I invite you to visit with old friends, extend your network of colleagues, learn something new, and visit the beautiful city of Charlotte, NC by attending the 37th Annual Conference on Shock (June 7-10).

We owe a debt of gratitude to Dr. Michaela West and the Program Committee for their exemplary work assembling an outstanding scientific program. The program this year maintains the best of previous meetings (New Investigators Competition, unopposed symposia, ample time and space for poster presentations, and the infamous free afternoon) coupled with innovative symposia topics and plenty of opportunity for professional development for all. I encourage you to read Dr. West's overview of program highlights which follows and review the full schedule available on line ([click here](#)). Dr. West is currently wearing two hats for the Society and is also our Treasurer. Not wanting to detract from her report, I will simply say that the Society remains fiscally healthy and thus has been able to keep the registration cost to the meeting unchanged for the past three years and provide a relatively large number of travel awards given the size of our society.

I would like to encourage all members to vote in the upcoming election. Dr. Basilia Zingarelli and the Nominating Committee have put forth an excellent slate of candidates. These are officers who will guide our Society into the future, ensuring a vibrant annual meeting and financial stability. Our Society has a long history of inclusion, so for those of you interested in volunteering your services to the Society and becoming more active, please see me at the meeting. I would reiterate to all members, the Shock Society is YOUR organization.

Finally, I would be remiss if I did not thank our current President, Dr. Cooney, for his leadership and wisdom during the past year. I have known Bob for almost two decades, and during that time we have co-mentored surgical fellows and collaborated on multiple research projects. I am continually impressed by his ability to balance (maybe juggle is a better word) the tripartite academic mission and his tireless enthusiasm. It has been a pleasure to work and learn from him.

In the coming year, I hope to get to know more of the membership, to hear about your research and learn more about your challenges. Working closely with Council, I will continue to develop mentorship programs and cultivate additional points of organizational involvement with the membership. I am deeply honored to be the incoming President of the best scientific society. This is a dynamic and exciting time for the Society and I hope to see everyone in Charlotte.



Michaela West, MD, PhD
2014 Program Chair

Plans for the 37th Annual Conference on Shock in Charlotte, NC, June 7-10, 2014 are nearing final completion. The Program Committee reviewed and scored 253 submitted abstracts for this year's meeting, selecting 51 for oral presentation along with 202 posters. The Awards Committee identified the top 5 qualifying abstracts that will vie for the Shock Society Young Investigator Award competition that will take place on Sunday June 8th. The meeting will kick off on Saturday with two outstanding Plenary Sessions; "Metabolic Syndrome/Inflammation: Thinking Outside the Box" and "Unanswered Biologic Questions". Both of these plenary symposia are designed to broaden our perspectives and understanding by incorporating insights from other disciplines to help us all to better understand pathophysiological mechanisms and responses in shock and sepsis. Saturday's program will culminate with Dr. Charles Lang's Presidential Address entitled, "Wishful Thinking or Willful Blindness". Mysterious, but it will undoubtedly be thought provoking! The Presidential Reception will follow immediately afterwards. A new addition this year will be a Workshop for New Investigators that will be held from 7:30-9:00 PM on Saturday.

The main meeting will start bright and early on Sunday with the first of three poster sessions. In keeping with the

tradition of the Shock Society the Sunday morning Plenary session will feature the highest scoring abstracts. Sunday morning will conclude with the Keynote Address, to be delivered by Ron Davis, PhD, a brilliant innovator who is a Professor of Biochemistry and Genetics at Stanford University. Monday afternoon will commence with the New Investigator Award Competition and formal progress reports from the most recent recipients of Shock Research Fellowship Grants. After the refreshment break the afternoon will conclude with parallel symposia- one on "Aging" and the other devoted to "Innate Immunity". After these scientific sessions there will be a special symposium on "Demystifying Department of Defense Funding" for all interested members and guests. Sunday will be topped off by the New Investigator Competition and Travel Awards Dinner Ceremony, which will be preceded by a reception.

Activities Monday begin at the crack of dawn with the 31st Annual Presidential Fun Run (~5K). On Monday Poster Session II will start 30 minutes later than usual to permit attendees to participate in the Fun Run, or for those so inclined, to get an extra 30 minutes of sleep. Poster Session II will pilot a "Professor Poster Rounds", with discussions of 8-10 abstracts lead by an expert in the field. After the poster session there will be parallel sessions focusing on "Wound Healing" and "Anti-Oxidative Therapies". The Shock Society Business meeting will take place between 12:00 and 1:00 PM, and the remainder of the day will be "free" so that attendees can explore all that Charlotte has to offer.

Poster Session III, Tuesday June 10th from 7:00-9:00 AM, will feature 70 posters on a wide range of topics with continental breakfast and coffee again available in the Providence Ballroom. After the poster session members and guests will need to choose between parallel sessions that explore the "Mechanisms and Treatment of Injury-Induced Immunosuppression" or one that contrasts "Animal Versus Human Models/Biology/Results". Following the morning sessions, lunch can be enjoyed while listening to "Oral Presentations By and For New Investigators" showcasing selected posters by new investigators. Boxed lunches will be provided. Tuesday afternoon will begin with, what is sure to be a highlight of the meeting, a "Pro-Con Debate: Mitochondria: Friend of Foe?" Dr. Marc Jeschke will serve as moderator/referee, with two teams of invited panelists. The "Pro" team will be composed of Carrie Sims, Darren Boehning, and Andrey Kozlov, will square off against the "Con" group that will include Carl Hauser, Brian Zuckerbraun, and JJ LeMasters. We hope that there will be interactive feature allowing the audience to determine which side does the best job of making their case. It should be a stimulating and fun interactive plenary session. Tuesday afternoon the scientific program, will conclude with two parallel sessions. One will focus on Systems Biology in Shock and the second will showcase Novel Immunomodulators. The meeting will conclude with a cocktail Reception that precedes the Scientific Achievements and Service Awards Ceremony and dinner.

The upcoming meeting in Charlotte will be another opportunity for members and guests of the Shock Society to obtain the latest knowledge, exchange ideas, network, and share friendships. I look forward to seeing you in June.



**Mentorship
Committee
Co-Chairs**

Brenda J. Smith, PhD



Jennifer M. Kaplan, MD

The Mentorship Committee has been busy organizing two key events scheduled for this year's Shock Society meeting in Charlotte. The first event is a new investigators workshop, "**Finding Your Scientific Niche and Establishing Yourself as an Independent Investigator**", which will be held immediately after the Presidential Reception on Saturday, June 7th. The new investigator workshop is a joint effort with the Diversity Sub-committee that will feature recently established and senior investigators providing tips and insights on how to successfully transition to independent investigator status. The second event is the annual "**Oral Presentations By and For New Investigators**", scheduled for Tuesday, June 10th. Over the years this session has provided a great environment for new investigators to gain additional experience giving oral presentation and actively participating as audience members. More details related to both of these events will be forthcoming.



**Irshad H. Chaudry, PhD
Editor-in-Chief, SHOCK**

Thank you, President-Elect Lang, for the opportunity to write briefly about our journal in the Newsletter. The number of manuscripts submitted to *SHOCK* has remained the same as in previous years; however, since we have cleared the backlog, we need more quality manuscript submissions. I therefore urge the entire membership and others to submit their best work to *SHOCK* and also to please cite references in *SHOCK* in articles you submit to any journal, including *SHOCK*. I also wish to express my sincere thanks and appreciation to all of the authors, the Associate Editors, the Editorial Board members, and the guest referees for the thorough and expeditious review of the manuscripts and for their tremendous help and support to the journal. I am very grateful to the Associate Editors and to the Editorial Board members who continue to take time from their busy schedules to write under the banner, "What's New in Shock?" in each issue of the journal.

I am delighted to inform you that the Publication Committee Chair, Dr Charles Lang, and the Committee approved the appointment of the following individuals to the Editorial Board of *SHOCK*: Hugo Castro Faria Neto, Hongkuan Fan, Markus Huber-Lang, John A Kellum, Marc Maegele, Krishnan Raghavendran, Todd Rasmussen, Philip Spinella, Andreas Spittler and Kevin R Ward. The following gentlemen have stepped down after serving on the Editorial Board for many years: Michael Bauer, Daniel Brackett, Wim Buurman, Steve Calvano, Bruno Levy,

Basil Pruitt, Mauricio Rocha-e-Silva and F Ulrich Schade. I welcome the new Editorial Board members and I express my sincere thanks and gratitude to the members who have stepped down from the Editorial Board after providing an extremely valuable service to the journal. I wish to express my sincere thanks to Connie Weldon and Dennis Campbell for continuing to provide tremendous help in all aspects of the journal. I am also thankful to Mr. John Ewers, our Senior Publisher, and to Rosemary Hutzler, our Production Editor, Lippincott Williams & Wilkins (LWW), for their continued help in all regards to the publication.

I am deeply saddened to lose the outstanding support and help of George F Sheldon and Lambertus Thijs, due to their untimely death.

I will greatly appreciate any suggestions from our members for improving any facet of our journal. Please e-mail your suggestions to me at shock@uabmc.edu. The Editor and the Editorial Office of *SHOCK* wish to thank all of the authors who have submitted and who continue to submit articles to *SHOCK*.

I wish each of our members a wonderful spring and summer.



**Sanna Goyert, PhD
Secretary**

Hello all. I want to update you on several business issues of the Shock Society. Firstly, I want to congratulate Dr. Michaela West and the program committee for putting together what will surely be a stimulating program for the **37th Annual Conference on Shock** and I hope you are all coming! You can register on the website. Save money and register early before early registration closes April 4 (cheapest). Also, reserve your hotel room at the Westin Charlotte before May 12, at which time the lower-priced block of rooms will be gone! You may book via telephone (704) 375-2600 or via the website, <https://www.starwoodmeeting.com/Book/shocksociety>. For access to online meeting registration and hotel reservations, go to the Shock Society website: <http://www.shocksociety.org>. **The 38th Annual Conference** will be held in Denver Colorado at the Grand Hyatt Denver on **June 6 – 9, 2015**. In 2016, the **39th Annual Shock Conference** will be held in Austin, Texas at the Hilton Austin, **June 11-14**.

Do not forget to **apply** for and/or encourage your colleagues to apply for the **Research Fellowship Award** for an Early Career Investigator. The deadline for receipt of applications is **April 1st, 2014**; see the instructions at <http://www.shocksociety.org/research-fellowship>.

This award is to support a young investigator in the early stage of his/her career. Those with small R03 or R21 grants or CAP (no more than 3 years) are eligible. Preference will be given for new and innovative research, basic or translational, in the area of trauma, shock and/or sepsis. Please see the details on the website that describe a requirement for a minimum of 20% time to be spent on professional development and research.

Also, please vote! Elections are open until April 30. Positions and candidates for voting include **President elect** (Lorrie Langdale, MD, FACS and Rosemary Kozar, MD, PhD); **Program Chair 2017** (Clifford S. Deutschman, MD and Alex Lentsch, PhD); **Basic Science Councilor** (Celeste Finnerty, PhD and Wendy Walker, PhD); **Clinical Science Councilor** (Judith Hellmann, MD and Kevin McConnell, MD).

If you want to get more involved in the Shock Society, please go to the website and look at the committees; most committees want help and would love to have volunteers so if you are interested in one or more, contact the head of the committee and ask how you can get involved.

Mary Schuerman and Bill Curreri of Strategem continue to provide general management for the Shock Society, including meeting organization and planning and a multitude of tasks to make our meetings possible and to keep us running as a group, solving a myriad of problems and acting as the “glue” that we need to keep things going cohesively. We thank them for their outstanding efforts. See you in Charlotte!



Shock 2014 Treasurer's Report

Michaela West, MD, PhD

This is my first newsletter report as Treasurer of the Shock Society. I want to express my thanks to Dr. Lorrie Langdale, the outgoing Treasurer, for doing such a fantastic job. Dr. Langdale provided me with detailed and extremely well organized records, so it's clear that it will be a challenge for me to match her example. I am happy to report that the Shock Society remains fiscally healthy. A detailed 2013 income and expense report will be provided to Council and the membership at the Annual Meeting in Charlotte, NC in June.

As of December 31, 2013, the Society had \$1.26 million in total assets. This represents an increase of approximately \$114,000 over December of 2013. Our funds are distributed over three FDIC-insured banking institutions and consist of: one checking account, three money market accounts, plus a 3 year CD held in a fourth bank. Nearly four years ago, the Society invested \$250,000 into two mutual funds, managed by RBC Capital Markets, LLC, with a strict stop-loss strategy. During the economic downturn that fund experienced some “negative growth”, but during the most recent reporting years the net returns are now positive, up 18.6% overall! Our strategic plan has been to access gains as they accrue and utilize these to underwrite Travel and Fellowship Awards.

Income from the Shock Journal continues to be our primary source of revenue with the base contract providing \$160,000 for 2013. During 2013 the Society received additional royalty payments from the Journal, per contract, of \$88,707 from Shock for 2012. For 2014 the base royalty payment will be \$170,000 and we should receive additional royalties from Lippincott, Williams, and Wilkins from 2013 very soon. Our primary expenses include our contract with Strategem of Alabama to provide administrative support;

Journal subscriptions for members; research fellowships and travel awards; and the costs of the Annual Meeting. Despite our strong fiscal health, we continue to seek additional vendor contacts and support to offset our meeting expenses. If any Shock members know of organizations or companies that might be interested in exhibiting their product or service at an intimate, focused, medical/scientific venue, please forward them to me or to Drs Cooney or Lang.

Advocating For Increased Federal Funding For Basic Science Research

Every year the Federation of American Societies of Experimental Biologists (FASEB) brings scientists to Washington DC as part of Capitol Hill Day. Scientists from across the country meet with Congressional staff to discuss the importance of federal research funding. On March 5, 2014 scientists from 21 states met with their representatives. FASEB's specific recommendations for funding included \$32 billion for the National Institutes of Health and \$7.6 billion for the National Science Foundation. The \$32 billion recommendation for NIH funding represents fewer actual dollars (not inflation adjusted dollars) compared to 2010. More information about federal funding for basic science research is available on FASEB website: <http://www.faseb.org/Policy-and-Government-Affairs/Advocacy-on-Capitol-Hill.aspx>



Dan Remick advocating for science in Washington

Dr. Dan Remick was invited by FASEB to participate in this activity, as part of a delegation from Massachusetts, representing the Shock Society. He and others from the delegation were escorted by Joseph McInerney, the Executive Vice President of the American Society of Human Genetics. The group visited the offices of Senators Warren and Markey as well as Representatives Tierney and Kennedy.

At each office the group gave specific information about how reduced funding for science was having multiple negative impacts. Individual stories were told including:

- Scientists no longer doing research because of lack of funding
- Increased scientific publications from other countries in the Journal of Immunology compared to publications from the United States
- International genomic sequencing initiatives (e.g. Beijing Genomics Institute) surpassing efforts at the NIH.
- Loss of funding for the Framingham Heart studies and missing a generation of data
- Decreased funding resulting in fewer experiments to examine the devastating effects of aging. These studies require a long term, consistent commitment since aging takes place over decades and it is difficult to start and stop science.

Capitol Hill staff assured the group that the Senators and Representatives were highly supportive of increased funding for basic science research. Each agreed to submit

programmatic requests to the budget committees. This will ensure that funding for basic science will be considered as an integral part of the budget process and not as a separate earmark. They also agreed to sign a "Dear Colleague" letter to be circulated to other Senators and

Representatives advocating increased funding for NIH research. Dan and the other faculty invited Senators, Representatives and their staff to visit the basic science labs at Boston University, and thanked them for their continued support.

SHOCK SOCIETY COMMITTEES

Awards and Honors Committee:

Charles Wade, Chair

Michael Dubick
Perenlei Enkhbaatar
Csaba Szabo
Philip Efron
Jennifer Kaplan
Weng-Lang Yang
Daniel Remick, Past President
Timothy Buchman, Past President
Basilia Zingarelli, Past President

Development Committee:

David N. Herndon, Chair

Michaela West, ex-officio
Carl Hauser
Ed Deitch
Charles Caldwell
Rosemary Kozar

Finance Committee:

Michaela West, Chair

David Herndon
Charles Lang, ad hoc
Lorrie Langdale

International Relations Committee:

Daniel Remick, Chair

Basilia Zingarelli
Mark Clemens
Irshad Chaudry
Timothy Buchman
Tina Palmieri

Internet Committee:

Gary An, Chair

Deborah Stearns-Kurosawa
Edmund Neugebauer
Yoram Vodovotz
Irshad H. Chaudry, ex-officio

Laboratory Animals Issues:

Piper Wall, Chair

Kevin McConnell
Penny Reynolds
Narayanan Parameswaran
Shibani Pati

Membership Committee:

Joseph Messina, Co-Chair

Wei Chao
Octavia Peck-Palmer, Past Chair
Gary Nieman

Diversity Subcommittee:

Octavia Peck-Palmer, Chair

Hongkuan Fan
Joshua Gatson

Mentorship Committee

Brenda Smith, Co-Chair

Jennifer Kaplan, Co-Chair

Richard Hotchkiss
Alfred Ayala
Deborah Carlson
Irshad Chaudry, Senior Advisor
Daniel J. Brackett, Senior Advisor

Nominating Committee:

Basilia Zingarelli, Chair

Timothy Buchman
Daniel Remick
Mark Clemens

Publications Committee:

Charles Lang, Chair

Celeste Finnerty
Elizabeth Kovacs
Wayne Barbee

Rules Committee:

Lorrie Langdale, Chair

Carrie Sims
Rajesh Aneja
Joshua Gatson

Scientific Program Committee:

Michaela West, (Chair 2014)

Celeste Finnerty
Judith Hellman
Edward Sherwood (Chair 2015)
Perenlei Enkhbaatar
Hiroshi Saito
Marc Jeschke (Chair 2016)
Matthew Rosengart
Tracy Toliver-Kinsky