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## President's Message . . .



*Vicki Bautch*

I am honored to be the President of NAVBO this year. We have a lot to look forward to, both in terms of exciting meetings/workshops and new educational initiatives, as well as fiscal challenges. I hope to see you all at the annual NAVBO meeting next week at the lovely Asilomar Conference Grounds in Pacific Grove, California. For the first time we will combine the Developmental Vascular Workshop with the Genomics & Genetics Workshop, featuring simultaneous sessions. We will also honor our Earl Benditt Award winner, Brad Berk, and our Folkman Award winner, Cam Patterson. In light of my interest in providing support for junior scientists, we've put together a special session entitled **"Getting to and through 'Early Stage Investigator' - Initiating an Academic Career"**. This session will be held on Wednesday afternoon and is designed to provide senior post-docs and new faculty with a chance to network and to hear from a recently established scientist – Ondine Cleaver – about her career path and her do's and don'ts. I'm excited about this informal session that will help our junior vascular biologists navigate what are still the most difficult aspects of an academic career – obtaining a faculty position and establishing a solid research program while maintaining one's sanity!

There's still time to register for the meeting ! Go to [www.navbo.org/events/vb2012](http://www.navbo.org/events/vb2012)

## Vasculata 2012



*Summary of events from Drs. Susan Smyth and David G. Harrison, Vasculata 2012 organizers.*

*Vasculata participants enjoyed a barbeque at Centennial Park on Friday evening, July 27*

VASCULATA, the summer course offered annually by NAVBO, was held July 25 – 28, 2012 in Nashville, Tennessee. Over 100 attendees participated in discussion of basic and clinical approaches to the study of vascular function and pathophysiology. The topics covered included atherosclerosis, angiogenesis, matrix biology and the role of stem cells, progenitor cells, and immune cells in vascular diseases. Faculty members from Vanderbilt University, the University of Kentucky, and Meharry Medical College contributed their time and expertise to this conference. Jane Scott from NHLBI gave a special session on "Career Choices and Opportunities." Practical workshops were offered in Cell Culture, Isometric Studies, Measurements of Reactive Oxygen Species, Angiogenesis, and Flow Cytometry. In addition, attendees had the opportunity to interact in sessions featuring forty-eight posters from trainees. Twenty-one scholarships, made possible by generous donations from Joel and Ruth Spira through the LUTRON Foundation, Danish Myo Techonology, and Hemoshear, were awarded to support travel and housing of attendees. Funding for the conference was provided in part, by grant 1R13HL116043-01 from the National Institutes of Health. To provide an overview of key concepts and important controversies in vascular biology, seminal articles are being compiled in a VASCULATA worksheet (VW), which together with a précis of course topics, will be a tangible product of the meeting and a lasting resource for students and others new to the field.

## Election Results



Klaus Ley



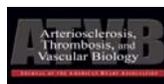
Anne Eichmann



Peter Libby

In the last Council election, the NAVBO members elected Klaus Ley, La Jolla Institute for Allergy and Immunology, President-elect. Dr. Ley has been on the NAVBO Council since 2009 (councilor 2009-2011; Secretary-Treasurer 2011-2012). Members also elected Drs. Anne Eichmann, Yale University, and Peter Libby, Harvard University, as Councilors. Their terms as Councilors began July 1 and will continue to June 30, 2015.

## Special Thanks to the Supporters of the NAVBO Workshops in Vascular Biology 2012



## IVBM 2012

The 17th International Vascular Biology Meeting ([www.ivbm2012.net](http://www.ivbm2012.net)) was hosted in the spa city and Hessen state capital Wiesbaden (Germany) from June 2-5, 2012. Klaus Preissner (Giessen), Hellmut Augustin (Heidelberg), Ingrid Fleming (Frankfurt) and Christian Weber (Munich) served as organizers of this year's meeting.

Alternating biannually between Europe, Asia/Australia and North America (Table 1), the IVB meetings aim at globally bringing together the vascular biology community as the only primarily basic science-covering world congress for the fields of vascular and lymphatic research. Close to 750 scientists from 30 countries attended this year's meeting. Although the primary attendance was from Europe, there was also strong participation from scientists at all levels from other parts of the world, most notably from Asia. Likely reflecting the funding crisis, relatively few junior scientists from North America attended the meeting. Yet, generous NAVBO travel fellowships strongly helped that at least some North American junior scientists could attend the meeting.

[Read more . . .](#)

## Current Trends in Vascular Biology

### "Your Microbiome" in Vascular Health and Disease



David Milstone

Although the importance of host endogenous flora, otherwise known as one's "microbiome," for general health maintenance and disease prevention has been recognized for decades, the intimate dialog between our bacterial and viral passengers and our own cells and tissues on a virtually minute by minute basis has been appreciated only recently and the tools necessary to investigate these bidirectional interactions at the molecular level are still being developed. Intestinal bacteria, important for a healthy gastrointestinal tract (1, 2), have been extensively characterized at the genomic level, with metabolic profiling not far behind, leading to the impressive proclamation that "... humans are superorganisms whose metabolism represents an amalgamation of microbial and human attributes" (whatever that means). Perhaps to be expected, the metabolic actions of bacteria in the gut can contribute to diseases characterized by insulin resistance and hepatic steatosis (3). However, it has also become clear that diseases with prominent vascular components including atherosclerosis show important interrelationships with an individual's microbiome. Despite the nascent status of this field it is now possible to glimpse how in the not-too distant future determining an individual's microbiome, and its modulation by endogenous and exogenous influences, will contribute to improved health maintenance, disease prevention/diagnosis, and clinical therapeutic interventions.

[Read More . . .](#)

Robert J. Tomanek, Professor Emeritus of Anatomy and Cell Biology at the University of Iowa, is publishing a book, *Coronary Vasculature: Development, Adaptations, Structure-Function and Adaptations*, (Springer), with anticipated availability in November, 2012. Preparation of this twelve-chapter volume was supported by a grant from NIH and the National Library of Medicine. The first chapter reviews concepts of vascular development. The remaining chapters address the coronary vasculature with regard to embryonic/fetal coronary development, postnatal development, structure and function of the coronary hierarchy, historical perspective, coronary anomalies, aging, exercise, hypoxia, ischemia and infarction, cardiac hypertrophy, and therapeutic potential.

Dr. L. Maximilian Buja, Executive Director of the Houston Academy of Medicine and Professor of Pathology and Laboratory Medicine at the University of Texas Health Science Center at Houston, has been appointed Editor-in-Chief of *Cardiovascular Pathology*, the journal sponsored by the Society for Cardiovascular Pathology and published by Elsevier. Dr. Buja, whose term runs 2012-2017, succeeds former editors Drs. Avrum Gotlieb and Jagdish Butany of the University of Toronto. More information about the Society for Cardiovascular Pathology and the CVP journal can be found at <http://scvp.net/> and <http://www.journals.elsevier.com/cardiovascular-pathology/>.

Dr Sébastien Bonnet, Associate Professor of Medicine and Research Chair in Vascular Biology, Pulmonary Hypertension Research Group at the Université Laval, Québec, Canada, reports development of a website giving research information on vascular remodeling processes in pulmonary hypertension. <http://www.hypertensionarteriellepulmonaire.ca>

New books from NAVBO members published in 2012!

*Molecular and Translational Vascular Medicine* (edited by Jonathon W. Homeister and Monte S. Willis). ISBN: 978-1617799051

*Translational Cardiology: Molecular Basis of Cardiac Metabolism, Cardiac Remodeling, Translational Therapies and Imaging Techniques* (edited by Cam Patterson and Monte S. Willis). ISBN: 978-1617798900.

Mukesh K. Jain, Ellery Sedgwick Jr. Chair and Distinguished Scientist and Director of the Case Western Reserve Cardiovascular Research Institute, has been elected as Vice President of the American Society of Clinical Investigation. He will then advance to President Elect and President on successive years. The ASCI is one of the oldest and most prestigious national medical honor societies and is comprised of physician-scientists from all specialties who are elected because of their extraordinary scholarly achievements. The principal Society publication is the Journal of Clinical Investigation. Dr. Jain also has been selected to deliver the Russell Ross Memorial Lectureship in Vascular Biology at this year's AHA Scientific Sessions in Los Angeles, November 3-7, 2012. Congratulations!

Dr. Yun Fang will join the faculty of the Department of Medicine at the University of Chicago effective Nov. 1, 2012. Yun has been a NAVBO trainee member since early 2000 as a PhD student at the University of Pennsylvania working with Dr. Irena Levitan, continuing throughout postdoctoral training years at the University of Pennsylvania with Dr. Peter F Davies.

## Meetings

[Visit the Calendar of Events](#)

**Save the date for Vascular Biology 2013!**  
**October 20-24 - on Cape Cod, Massachusetts**  
[www.navbo.org/events/vb2013](http://www.navbo.org/events/vb2013)

[Atherosclerosis: Translating the Biology of Atherosclerosis](#)  
June 16-21, 2013 - Stowe, VT

[Vascular Cell Biology](#)  
January 27 - February 1, 2013 - Ventura, CA

## Jobs

[Visit the NAVBO Career Center](#)

[University of Texas Health Science Center at San Antonio](#)  
[Sumathy Mohan](#)

[University of California, Los Angeles - Postdoc](#)  
[Linda Demer](#)

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