

***The Biomedical Engineering Society (BMES) Boston Industry Chapter &
Boston University present:***

"Future Trends in the Biomedical Engineering Industry."

Wednesday, November 4th, 5:30 – 8:30 PM

Event Sponsored by Boston University

With new technologies constantly emerging from companies and universities across the globe, it is often hard to keep up with the rate of innovation in healthcare as technology gets increasingly sophisticated. Companies will need to combine both excellent foresight in pursuing promising ideas and keen business sense. The pace of innovation, from the phases of development, and the capital and liquidity events that fuel it all, is constantly evolving. Over the course of the evening, our panel of experts will discuss some the future trends emerging within the life sciences industry.

When: Wednesday, November 4th

Time: 5:30 pm – 8:30 pm

Where: Boston University Photonics Center
8 St. Mary Street
The Colloquium Room, 9th Floor

Agenda:

5:30 - 6:30pm -	Registration/Networking/ Appetizers
6:30 - 6:45 pm -	Opening Remarks, Andrea Ippolito
6:45 - 7:45 pm -	Panel: "Future Trends in the Biomedical Engineering Industry."
7:45 - 8:30 pm –	Networking/Refreshments/Desserts

Panelists:

Professor Steve Colburn, PhD: Associate Chair for Undergraduate Affairs for the Department of Biomedical Engineering and Director of the Hearing Research Center at Boston University

Michael Eppihimer, PhD: Director, Preclinical Sciences, Boston Scientific

Robert Clarke, PhD: Senior Director of Research, Pulmatrix

Stephen Pittman: Manager for Advanced Research Strategy, Philips

Event Fee:

Early Bird: \$10 by October 16th

Regular Deadline: \$15 by November 2nd

On-site registration: \$20 (highly discouraged)

Register Today! [Click Here!](#)

About Our Speakers:

Professor Steve Colburn, PhD.

Professor Steve Colburn is Associate Chair for Undergraduate Affairs for the Department of Biomedical Engineering and Director of the Hearing Research Center at Boston University. Dr. Colburn's research interests focus on the measurement and modeling of how we exploit the fact that we have two ears, particularly in complex environments. His research involves the application of signal processing,

statistical communication theory, and computational modeling to the study of hearing and hearing impairments. Specific current research topics include modeling the activity of auditory brainstem neurons, measurement and modeling of spatial attributes of sound perception, particularly speech intelligibility in complex sound environments, and the effects of hearing impairments, hearing aids, and cochlear implants on binaural abilities. Dr. Colburn studied Electrical Engineering at the Massachusetts Institute of Technology, where he received his bachelor's, master's, and doctor's degrees in the 1960s and was on the faculty in the 1970s. He came to Boston University's Department of Biomedical Engineering as Chair in 1980 and served in that role through the 1980s. He has been the Director of the Hearing Research Center since its formation in 1995. The Center promotes collaborative research and teaching across the units of the University.

Robert Clarke, PhD.

Dr. Clarke joined Pulmatrix in 2004 and currently is responsible for pre-clinical research and safety testing. As one of the company's initial scientists, Dr. Clarke was involved in the early stage growth of research and development programs that identified some of the key aspects of the Pulmatrix technology. Dr. Clarke oversees a group of molecular, cellular, and in vivo scientists dedicated to understanding the impact of Pulmatrix technologies in respiratory disease. Previous to Pulmatrix, Dr. Clarke was an Associate Director of Life Sciences at Alkermes, Inc. managing a group of scientists performing in vitro and in vivo studies in support of Alkermes' drug delivery technologies. Dr. Clarke holds a B.Sc. in Biomedical Engineering from Boston University, has his Ph.D. in Physiology from Johns Hopkins University, and was a Research Fellow in Respiratory Biology at Harvard University. Dr. Clarke has co-authored over 80 chapters, papers, and abstracts focused on pulmonary drug delivery and the role of particles and infection in the lung.

Stephen Pittman

Stephen Pittman is the Manager for Advanced Research Strategy in the Home Healthcare Solutions business group at Philips Healthcare and leads their Philips Respironics office in Boston. Stephen holds both a Bachelor of Science and Master of Science in Biomedical Engineering from Tulane University and is a Registered Polysomnographic Technologist. Prior to joining Respironics in 2005, he managed product research & development for the Sleep Disorders Program at Brigham and Women's Hospital in Boston and led research/early clinical adoption for sleep diagnostics in the United States at Itamar Medical Ltd. Stephen's focus at Brigham and Women's Hospital and now at Philips is the front end of the R&D process (generating concepts) and then investigating them with first-in-human trials. These efforts have resulted in a number of commercial devices/technologies to diagnose sleep-related breathing disorders, automate the analysis of neurophysiologic/respiratory data, and treat central sleep apnea/periodic breathing. Stephen has also worked as a consultant in the reconstructive orthopedic device industry specializing in joint replacement/sports medicine. Stephen grew up in northwest Louisiana where his family's cotton plantation was his first research laboratory and his first product was a software package to optimize leveling land using a rotating laser and earth moving equipment.

Michael Eppihimer, PhD

Michael obtained his Bachelors of Science in Biomedical Engineering at Boston University in 1990. Thereafter, Michael attended graduate school at The Pennsylvania State University where his research was focused on the role of leukocyte deformability in mediating the resistance to blood flow in disease states. He obtained his Master of Science and Doctor of Philosophy in Bioengineering in 1992 and 1995, respectively. Following, he pursued a Postdoctoral Fellowship at the Louisiana State University Medical Center in the Department of Molecular and Cellular Physiology under the direction of Dr. D. Neil Granger. Michael's research was focused on the mechanisms of endothelial cell activation in inflammatory diseases. In 1997, Michael joined Genetics Institute (now Wyeth Research) in Andover, MA as Staff Scientist in the Preclinical Pharmacology Group. While at Genetics Institute/Wyeth Research, he developed a vascular inflammation group responsible for developing protein therapeutics and small molecules aimed at inhibiting leukocyte-platelet-endothelial cell interactions in variety of diseases. In 2004, Michael accepted

the position of Associate Professor in Bioengineering at The Pennsylvania State University in the Department of Bioengineering. His laboratory research was directed to understanding the relationship between inflammation and thrombosis in cardiovascular disease and the interactions between cancer cells and endothelial cell in mediating metastasis. In 2006, Michael joined Boston Scientific to develop a core competency in Cell Biology to facilitate and expedite medical device development. This competency has grown significantly and supports early and late device development and has been critical to regulatory filings. In his position at Boston Scientific, Michael is also responsible for overseeing the preclinical evaluation of medical devices in Neurovascular, Electrophysiology and Imaging business divisions. His career in industry and academia has resulted in more than 35 peer reviewed manuscripts, reviews, book chapters and patents. Michael is also an active member of the American Physiological Society, The Microcirculatory society and the Biomedical Engineering Society.

About Our Sponsor:

From its roots fostering the invention of the telephone to the innovation that made the blue LED possible, the Boston University College of Engineering has remained at the cutting edge of contemporary technology. The laboratories and research centers at the College attract faculty from throughout the University. Students and faculty spanning all departments and disciplines are working together to advance the scientific understanding of how the world works and discover new technologies that will have a positive impact on society. Founded in 1966, the Biomedical Engineering Department at Boston University was among the first to offer a bachelor's degree in the discipline. Today, the department offers a full suite of bachelor's, master's and doctoral degrees, and is rated among the top 10 in the nation by US News & World Report. With 32 full-time faculty, the Biomedical Engineering Department at Boston University is among the largest in the country. Research and teaching primarily focus on applying engineering, computational, and analytical techniques to biological systems from the nanoscale level of DNA to the macroscopic level of organ systems.

About Our Chapter:

The Biomedical Engineering Society, Boston Industry Chapter, was founded in October 2008 to develop a community that provides Biomedical Engineering (BME) professionals with networking, continuing education, and technology transfer opportunities. Our mission is to serve as the lead society for BME professionals, expand the careers of current and next generation BMEs, educate the technical community regarding the expertise BMEs provide to engineering and scientific field, and enhance the recognition of biomedical engineering as a discipline critical to the continued improvement of human health. Check out our website: <http://www.bmes.org/mc/page.do?sitePageId=71380&orgId=bmes> please contact Andrea Ippolito (bmesprofessional@gmail.com) if you have any questions.

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- To serve as the lead society for BME professionals
- To expand the careers of current and next generation BMEs
- To educate the technical community regarding the expertise BMEs provide to engineering and scientific fields
- To enhance the recognition of biomedical engineering as a discipline critical to the continued improvement of human health

Contact Andrea Ippolito (bmesprofessional@gmail.com) if you have any questions or BMES office at regina.borkoski@bmes.org.

Directions:

The Boston University Photonics Center is located at 8 St. Mary Street in the heart of BU's Charles River Campus. Guests are encouraged to take the MBTA's Green Line, the Boston University Central stop on the B Line is at the intersection of Commonwealth Avenue and St. Mary Street. Cross Comm. Ave and proceed

up St. Mary Street, the Photonics Center is the last building on your left before you cross the bridge over the Mass Pike. Upon entering the building, proceed down the right corridor to the elevator bank (if you hit the atrium, you missed the elevators). The Colloquium Room is on the 9th floor. Guests who come by car may find street parking or can park one block away in the Warren Towers garage (the address is 700 Commonwealth Avenue but the entrance is on Hinsdale Street). Parking is \$6 upon entrance, but you must reference the "BMES Event" to the attendant to qualify for that rate.