

TUEE Transforming Undergraduate Education in Engineering

Phase II: Insights from Tomorrow's Engineers

Discussion Facilitators



Ashok Agrawal, D.M., P.E.

Ashok Agrawal is the managing director for professional services and director of education and career development at the American Society for Engineering Education.

Dr. Agrawal holds a Doctorate in Management degree from the University of Maryland University College, an MS degrees in Materials Science and in Mining Engineering from the University of Kentucky, and a BS degree in Metallurgical Engineering from Nagpur University in India. Prior to assuming the present position he was the vice president for Academic Affairs, and dean of the Math, Science, Engineering, and Technology Division at St. Louis Community College at Florissant Valley. His efforts led to the establishment of the Emerson Center for Engineering and Manufacturing, and creation of several customized training programs for key regional corporations including Ameren, AT&T, and Boeing.

In 2006, he was appointed by the Governor of Missouri to serve on the Missouri Math, Engineering, Technology, and Science (Mo-METS) task force, and served on the Mo-METS coalition. He also served on the planning team of the St. Louis Region's *FIRST* Robotics Competition, and is a member of the Society of Manufacturing Engineers- Education Foundation board.

Ashok was the recipient of the 2003 Florissant Valley David L. Underwood Lecture Award, and also the Governor's Award for Excellence in Teaching. An ASEE Fellow and a Life Member, he is the recipient of 2012 James H. McGraw Award and 1996 Frederick J. Berger Award. He has served ASEE in numerous offices of the Engineering Technology Council and Division, and on the Technology Accreditation Commission of ABET.

Dr. Agrawal has received several grants from the National Science Foundation (NSF), and other public and private agencies. He has served as a Program Officer at the Division of Undergraduate Education at NSF. Ashok has also served on several National Academy of Engineering (NAE) study committees, including Making Value of America, Guiding Implementation of K-12 Engineering Education, and Committee on Community Colleges Role in Engineering and Education.

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Christopher Carr

Christopher Carr is the Program Manager, Outreach & Public Affairs for the National Science Foundation's Graduate Research Fellowship Program, administered through the American Society for Engineering Education. He represents the program throughout the United States at conferences, workshops, panels, and webinars. Christopher mainly works in the area of STEM education and policy, with a particular passion for access to education, diversity in STEM, and nuclear, and international politics. Christopher is co-author on "What's Next with Trident," a backgrounder on the United States and the United Kingdom's joint nuclear deterrent: the Trident submarine ballistic missile system. Christopher holds a Bachelor of Arts in International Relations and History from William Jewell College, a Master of Science in International Management (Middle East and North Africa) from the School of Oriental and African Studies at the University of London, and a Master of Public Policy from Pepperdine University. He is currently working on his Doctor of Public Administration degree from the University of Baltimore.



Yvette B Deale

Yvette B Deale is the User Interaction Design Manager at ASEE. She works with both internal customers as well as ASEE members to enhance the user experience of ASEE's websites, applications, forms, etc. Yvette holds a BS Engineering – Computer Science from the University of Florida with a minor in Mathematics and is a Tau Beta Pi member. Some of the organizations she has worked for are Fairfax County Public Schools system, United Airlines, CSC, and Hewlett-Packard.



Stephanie Harrington Hurd

Stephanie Harrington Hurd is the *Manager for K-12 Activities at ASEE*. She previously managed various engineering education initiatives at JETS, Inc. and was the Program Manager of the AbilityOne/National Engineering Design Challenge, a competition for high school and university students. Stephanie was an Instructor at the Catholic University of America in both School of Architecture and the School of Engineering where she also served as the Assistant to the Dean for Outreach. Stephanie coordinated multiple outreach programs including a summer residential program for high school students at Catholic University. Stephanie began her career as a Structural Engineer for the Office of Overseas Building at the US Department of State and later worked as consulting Structural Engineer on residential and commercial designs. Stephanie holds a BS in Civil Engineering from the University of Virginia and an MS in Civil Engineering for the University of Texas at Arlington. She is also currently adjunct faculty at Northern Virginia Community College.

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Russell Korte, Ph.D.

Russell Korte is Assistant Professor, Organization Learning, Performance, and Change, School of Education, Colorado State University. Dr. Korte's research focuses on understanding the socio-cultural processes affecting the learning and performance of engineering students, graduates, and faculty. Recent work included developing innovative educational experiences for engineering students as a Fellow with the Illinois Foundry for Innovation in Engineering Education and a member of the Academy for Excellence in Engineering Education at the University of Illinois. He has been active for over 20 years in designing and delivering educational programs across a range of industries and educational institutions. He also has experience working with professionals in activities similar to the training program proposed here. Dr. Korte received his B.S. in Education, an M.B.A. in Marketing, and a Ph.D. in Human Resource Development, with a doctoral minor in Business Administration and a Graduate Certificate in Adult Education from the University of Minnesota.

Rachel Levitin

Rachel Levitin is currently the Program Manager for the National Defense Science and Engineering Graduate (NDSEG) Fellowship Program at the American Society for Engineering Education (ASEE) and moved to Washington, D.C. in 2005. Ms. Levitin attended American University in pursuit of a B.A. in Print Journalism before she was officially hired as a Program Assistant for the NDSEG Fellowship Program in January 2010. While at ASEE, Ms. Levitin has participated in five ASEE Annual Conferences as a member of the registration staff in addition to being recognized by her colleagues in March 2014 for achievements that were deemed to be "Above and Beyond" her call-of-duty per the recommendation of her direct supervisor. Ms. Levitin has worked in some capacity within the NDSEG Fellowship's Program Team since 2010 and assumed the role of Program Manager in Spring 2013.



Brian Yoder, Ph.D

Dr. Yoder is the director of Assessment, Evaluation and Institutional Research at the American Society for Engineering Education, guiding the overall direction of research and evaluation activities. Prior to working at ASEE, Brian worked at NASA Education, overseeing the development of an on-line performance management system to assess NASA's educational investments nationally. He also serves as President of the Washington Evaluators, a local affiliate of the American Evaluation Association.