

Phase II: Insights from Tomorrow's Engineers

April 10-11, 2015 | The Westin Crystal City | Arlington, VA



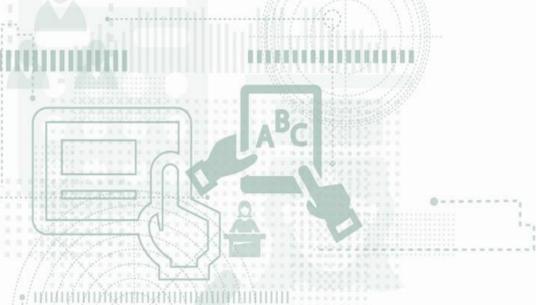


SCHEDULE AT-A-GLANCE

Friday, April 10, 2015

BC

Time	Session	I	Room
2:00PM - 2:30PM	Registration		Foyer
2:30PM - 3:15PM	Welcome – Ashok Agrawal, Managing Director, Professional Services, American Society for Engineering Education	Jefferson III	
	Review of Survey – <i>Brian Yoder</i> , Director, Assessment, Evaluation, & Institutional Research, American Society for Engineering Education		
	Student Introductions – <i>Christopher Carr</i> , Program Manager, Fellowships & Research Opportunities, American Society for Engineering Education		
	Breakout I	Group 1	Jefferson III
	Students will comment on assigned KSAs with regard to their experience in their academic environment and classroom	Group 2	Crystal II
3:15PM - 4:15PM		Group 3	Crystal III
	setting and make specific suggestions for improvement of Engineering Education.	Group 4	Crystal IV
4:15PM - 4:30PM	Break	Foyer	
	Breakout II	Group 1	Jefferson III
	Students will comment on assigned KSAs with regard to their experience in their academic environment and classroom	Group 2	Crystal II
4:30PM - 5:30PM		Group 3	Crystal III
	setting and make specific suggestions for improvement of Engineering Education.	Group 4	Crystal IV
5:30PM - 5:45PM	Break		Foyer
5:45PM - 6:45PM	Day 1 Collective Debrief	Jefferson III	
7:00PM - 8:00PM	Dinner (buffet served in the Foyer) Speaker: John Krupczak, Program Officer, National Science Foundation	Jeff	erson III



Saturday, April 11, 2015

BC

Time	Session	F	Room
7:00AM - 7:30AM	Breakfast	Foyer	
	Breakout III	Group 1	Jefferson III
7:30AM - 8:30AM	Students will comment on assigned KSAs with regard to their	Group 2	Crystal II
	experience in their academic environment and classroom setting and make specific suggestions for improvement of	Group 3	Crystal III
	Engineering Education.	Group 4	Crystal IV
8:30AM - 8:45AM	Break	I	Foyer
	Breakout IV	Group 1	Jefferson III
	Students will comment on assigned KSAs with regard to their	Group 2	Crystal II
8:45AM - 9:45AM	experience in their academic environment and classroom setting and make specific suggestions for improvement of	Group 3	Crystal III
	Engineering Education.	Group 4	Crystal IV
9:45AM - 10:00AM	Break	Foyer	
10:00AM - 11:00AM	Day 2 Collective Debrief All groups will return to Main Room to confer.	Jeff	erson III
11:00AM - 11:15AM	Break	Foyer	
11:15AM - 12:30PM	Final Debrief and Open Discussion All groups will return to Main Room to confer.	Jefferson III	
	Lunch (buffet served in the Foyer)		
1:00PM - 2:00PM	Overall reflections on TUEE Phase II and next steps.	Jeff	erson III
	Ashok Agrawal, Managing Director, Professional Services, ASEE		
2:00 PM	Adjourn		



STUDENT BREAKOUT GROUPS – DAY 1 Friday, April 10, 2015

Breakout Session I	Time: 3:15PM – 4:15PM
Breakout Session II	Time: 4:30PM – 5:30PM

Students will comment on assigned KSAs with regard to their experience in their academic environment and classroom setting and make specific suggestions for improvement of Engineering Education.

Group 1 | Room: Jefferson III

Moderator - Dr. Russell Korte, Associate Professor, University of Colorado

Report-out - Amber Mills, The Citadel

Name	Institution
Amber Mills	The Citadel
Bill Kim	Johns Hopkins University
Bryan Bonnet	Stevens Institute of Technology
Bryan Ricksecker	University of South Alabama
Dalia Abo Mazid	Qatar University, College of Engineering
Erica Flores	Seattle University
Jordan Burns	University of Colorado Boulder
Keoponnreay Kim	Concordia University
Nicolas Corrales	Arizona State University
Robert Christian Ford	North Carolina A&T State University
William Zygmunt	Wayne State University

Group 2 | Room: Crystal II

Moderator - Christopher Carr, Program Manager, Fellowships & Research Opportunities, ASEE Report-out - Alison Grady, Smith College

Name	Institution
Alison Grady	Smith College
Allison King	Swarthmore College
Amy Haddix	West Virginia University Institute of Technology
Andrew Sousa	University of Massachusetts, Amherst
Brian Ward	Bucknell University
Emily Hernandez	Missouri University of Science and Technology
Hayley Spears	University of South Florida
Jenna Humble	Embry-Riddle Aeronautical University
Mary Osetinsky	Tulane University
Thomas Foulkes	Rose-Hulman Institute of Technology

Group 3 | Room: Crystal III

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Moderator - Yvette Deale, Interaction Design Manager, ASEE Report-out - Braden Gourley, The Pennsylvania State University

Name	Institution
Antoinette Winckel	South Dakota School of Mines and Technology
Bethany Brigandi	Rowan University
Braden Gourley	The Pennsylvania State University
Brian M. Van Nortwick Jr.	New Jersey Institute of Technology
Chloe McPherson	Iowa State University
Kevin McNamara	University of Waterloo
Lucius M. Rice IV	Tuskegee University
Melinda McClure	Texas A&M University
Melissa Flores	California State University, Northridge
Miriana Doghan	University of Michigan, Dearborn

Group 4 | Crystal IV

Moderator – Ashok Agrawal, Managing Director Professional Services, ASEE Report-out - Austin Smith, University of Arizona

Name	Institution
Austin Smith	University of Arizona
Brian Grau	Santa Clara University
Hayden Hast	Valparaiso University
Joshua Alcala	New Mexico State University
Kia Graham	Southern University and A&M College
Lupita Carabes	University of Portland
Mackenzie Peterson	James Madison University
Mashail Khalifa Al-Kaabi	Qatar University, College of Engineering
Michael Vartan	California State University, Long Beach
Skylar Addicks	Texas Christian University



STUDENT BREAKOUT GROUPS – DAY 2

Saturday, April 11, 2015

Breakout Session I	Time: 7:30AM – 8:30AM
Breakout Session II	Time: 8:45AM – 9:45AM

Students will comment on assigned KSAs with regard to their experience in their academic environment and classroom setting and make specific suggestions for improvement of Engineering Education.

Group 1 | Room: Jefferson III

Moderator - Dr. Russell Korte, Associate Professor, University of Colorado Report-out - Brian Grau, Santa Clara University

Name	Institution
Alison Grady	Smith College
Brian Grau	Santa Clara University
Brian M. Van Nortwick Jr.	New Jersey Institute of Technology
Dalia Abo Mazid	Qatar University, College of Engineering
Hayley Spears	University of South Florida
Jenna Humble	Embry-Riddle Aeronautical University
Jordan Burns	University of Colorado, Boulder
Melinda McClure	Texas A&M University
Michael Vartan	California State University, Long Beach
Nicolas Corrales	Arizona State University

Group 2 | Room: Crystal II

Moderator - Christopher Carr, Program Manager, Fellowships & Research Opportunities, ASEE Report-out - Amy Haddix, West Virginia University Institute of Technology

Name	Institution
Allison King	Swarthmore College
Amy Haddix	West Virginia University Institute of Technology
Braden Gourley	The Pennsylvania State University
Bryan Ricksecker	University of South Alabama
Emily Hernandez	Missouri University of Science and Technology
Erica Flores	Seattle University
Keoponnreay Kim	Concordia University
Kia Graham	Southern University and A&M College
Lucius M. Rice IV	Tuskegee University
Mackenzie Peterson	James Madison University
Hayden Hast	Valparaiso University

Group 3 | Room: Crystal III

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Moderator - Yvette Deale, Interaction Design Manager, ASEE Report-out - Bill Kim, Johns Hopkins University

Name	Institution
Bethany Brigandi	Rowan University
Bill Kim	Johns Hopkins University
Bryan Bonnet	Stevens Institute of Technology
Joshua Alcala	New Mexico State University
Lupita Carabes	University of Portland
Mary Osetinsky	Tulane University
Melissa Flores	California State University, Northridge
Miriana Doghan	University of Michigan, Dearborn
Skylar Addicks	Texas Christian University
William Zygmunt	Wayne State University

Group 4 | Crystal IV

Moderator - Ashok Agrawal, Managing Director Professional Services, ASEE Report-out - Andrew Sousa, University of Massachusetts, Amherst

Name	Institution
Amber Mills	The Citadel
Andrew Sousa	University of Massachusetts, Amherst
Antoinette Winckel	South Dakota School of Mines and Technology
Austin Smith	University of Arizona
Brian Ward	Bucknell University
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Mashail Khalifa Al-Kaabi	Qatar University, College of Engineering
Robert Christian Ford	North Carolina A&T State University
Thomas Foulkes	Rose-Hulman Institute of Technology



FACILITATORS



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. 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 holds a Bachelor of Arts in International Relations and History from William Jewell College, a Master of Science in International Management 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.



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. 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.

SPEAKERS



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

Dr. Agrawal is the Managing Director for professional services and director of outreach and engagement at the ASEE. Agrawal holds a Doctorate in Management degree from the University of Maryland University College, an MS degree in Materials Science, an MS degree in Mining Engineering from the University of Kentucky, and a BS degree in Metallurgical Engineering from Nagpur University in India. Prior to assuming his present position he was the vice president for Academic Affairs, Dean of the Math, Science, Engineering, and Technology Division at St. Louis Community College at Florissant Valley. Over the last 35 years Agrawal has served as a faculty member and administrator of engineering science and engineering technology Associates and Baccalaureate programs and has many professional and academic positions.



John Krupczak, Ph.D

Dr. Krupczak is a Program Director for the NSF S-STEM and IUSE programs in Division of Undergraduate Education. Krupczak has served as a Senior Fellow for the CASEE at National Academy of Engineering. He is a past chair of the ASEE Liberal Education Division and the founding Chair of the ASEE Technological and Engineering Literacy Division. Dr. Krupczak has also held positions at the Superconducting Super Collider Laboratory in Texas, and Meiji Gakuin University in Tokyo, Japan. He received an M.S. and Ph.D. in Mechanical Engineering from the University of Massachusetts, Amherst and a B.A. in Physics from Williams College. Dr. Krupczak is also a Professor of Engineering at Hope College in Holland, Michigan. Krupczak was Engineering Department Chair and received the Hope Outstanding Educator Award from the graduating class of 2009.



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.

TUEE PHASE II PROJECT MANAGER



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 began her career as a Structural Engineer for the Office of Overseas Building at the US Department of State. 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.

PARTICIPANTS

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	March 1



The **American Society for Engineering Education** is a global society of individual, institutional, and corporate members founded in 1893. We are committed to furthering education in engineering and engineering technology by promoting excellence in instruction, research, public service, professional practice, and societal awareness.

ASEE seeks to more fully engage with high school students, parents, teachers, engineering faculty and business leaders to enhance the engineering workforce of the nation.

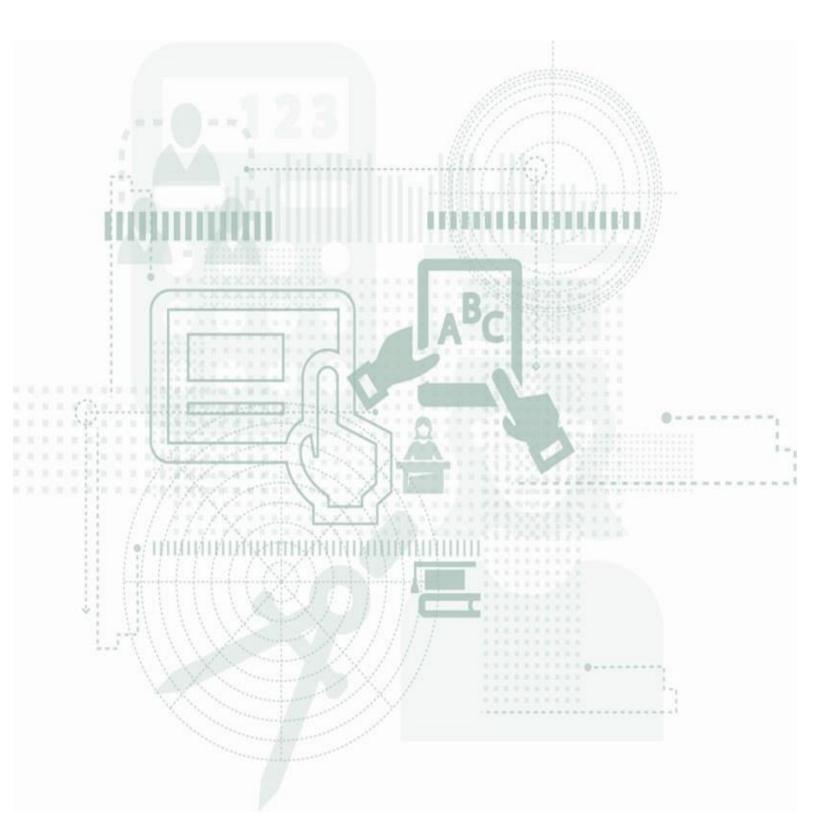
ASEE is the only professional society addressing opportunities and challenges spanning all engineering disciplines, working across the breath of academic education, research, and public service.

- We support engineering education at the institutional level by linking engineering faculty and staff to their peers in other disciplines to create enhanced student learning and discovery.
- We support engineering education across institutions, by identifying opportunities to share proven and promising practices.
- We support engineering education locally, regionally, and nationally, by forging and reinforcing connection between academic engineering and business, industry, and government.

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