SYMPOSIUM ON ENGINEERING AND LIBERAL EDUCATION

PRESENTED WITH SUPPORT FROM:
• THE ANDREW W. MELLON FOUNDATION
• THE WILLIAM & FLORA HEWLETT FOUNDATION
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• THE OFFICE OF THE PRESIDENT, UNION COLLEGE

2011 Symposium co-chairs: Chetina Traer, Union College Doug Klein, Union College 2011 Program Committee Ari Epstein, MIT Asashi Muka, RPI Borjana Milic, Smith College

CLIFF BROWN, Union College
DAVID GILLETTE, Cal Poly San Luis Obispo
DIANE MICHIELFELDER, Macalester College
GEORGE KALAKARIOS, Binghamton University
JON KRAPICK, Hope College
LINDA HEARD, Rowan University
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MARK WALKER, Union College
MIKE TOLLE, Bucknell University
PETER RODDIE, Dartmouth College
SHARON JONES, Lafayette College
STEVE RAUCO, Union College
WENDY MURPHY, IBM

Past Symposiums
• Stephen C. Ainslie, President, Union College, “Re-Impacting Liberal Education in the 21st Century” (2008)
• Carol Christ, President, Smith College, “What is Happening in Liberal Education?” (2008)
• Lance Schachterle, Worcester Polytechnic Institute, “Why Does Engineering Fit into a Liberal Education?” (2008)
• Dr. David Ferrucci, IBM, “Rethinking Engineering Education For the 21st Century” (2008)
• Domenico Grasso, University of Vermont, “A Liberal Education and the End of Technology” (2008)
• Lewis M. Duncan, President, Rollins College, “The Illiberal Art of Engineering” (2009)
• Diane M. Michelfelder, Professor of Philosophy, Macalaster College, “Engineering and the Liberal Arts: Toward Academic Cosmopolitanism” (2009)
• Braden R. Allenby, Professor of Civil and Environmental Engineering, and of Law, Arizona State University, “The Challenge of Sustainable Engineering Education” (2009)
• Thanassis Rikakis, Professor and Director School of Arts Media and Engineering, Arizona State University, “Meta-structures for a Contemporary Liberal Education” (2010)

PAST SYMPOSIUM KEYNOTE ADDRESSES
• Stephen C. Ainslie, President, Union College, “Re-Impacting Liberal Education in the 21st Century” (2008)

SYMPOSIUM OBJECTIVES
For four years, Union College has hosted the annual Symposium on Engineering & Liberal Education. The Symposium has served as a springboard for discussion of the rationale for and methods of integrating engineering, technology, and the traditional liberal arts. Past symposia have focused on how engineering contributes to a liberal education, the importance of a liberal education for engineers, and exploration of the intellectual relationship between engineering and the liberal arts.

The 2011 Symposium expanded the discussion to explore the impact of integration on innovation and entrepreneurship. The 2011 Symposium also included a faculty development institute consisting of four parallel workshops in which faculty explored how to enhance their courses and curricula by integrating engineering and the liberal arts.

2008-2011 PARTICIPATING INSTITUTIONS

2011 INTEGRATE TO INNOVATE FACULTY WORKSHOPS

Fostering Integration: Faculty Learning Communities
• Andrew Galvez, Associate Professor Engineering, Director Center for the Environment, Ecological Design and Sustainability, Smith College
• Elisabeth Armstrong, Associate Professor, Study of Women and Gender, Smith College
• Ann Leone, Professor, French and Landscape Studies, Smith College
• Susan Deyle, Assistant Professor, Economics, Smith College

The Intellectual and Practical Challenges of Integrated Teaching
• David Goldberg, Threesixty Associates, Inc.
• Doug Klein, Dean of Interdisciplinary Studies, Union College
• Chetina Traer, Dean of Engineering, Union College

Reaching Across the Disciplines: Facing the Ethical Issues of a Technologically Complex World
• George Catalano, Professor of Business, Binghamton University
• Mark Walker, Union College

Pedagogies for Bridging the Engineering and Humanities Disciplines
• Tom Freda, Professor of Biological Engineering, The University of Georgia
• Dr. Maria Newman, Associate Professor, Agriculture/Leadership, Education, and Communication, College of Agricultural and Environmental Sciences, The University of Georgia

http://www.union.edu/integration