

INTEGRATING EDUCATION IN THE ARTS AND HUMANITIES WITH EDUCATION IN SCIENCE, ENGINEERING, TECHNOLOGY, AND MEDICINE

A Workshop Hosted by the Board on Higher Education and Workforce of the
National Academies of Sciences, Engineering, and Medicine
8:30 a.m. to 5:00 p.m.

December 2, 2015
Carnegie Endowment for International Peace
1779 Massachusetts Ave, NW | Washington, DC 20036

AGENDA

- 9:00-9:30 a.m. **Opening Video: “The Adaptable Mind” (10 minutes, followed by group discussion)**
- 9:30-10:15 a.m. **Overview of the project, delivered through an interactive panel discussion of the project steering group**
- Moderator: Richard Miller, President, Olin College of Engineering
 - William “Bro” Adams, President of the National Endowment for the Humanities
 - Susan Albertine, Vice President, Office of Diversity, Equity, and Student Success, AAC&U
 - Laurie Baefsky, Executive Director of the Alliance for the Arts in Research Universities (a2ru) and the University of Michigan’s ArtsEngine
 - Norman Bradburn, the Tiffany and Margaret Blake Distinguished Service Professor Emeritus in the faculties of the University of Chicago’s Irving B. Harris Graduate School of Public Policy Studies
 - Edward Derrick, Chief Program Officer, Center of Science, Policy & Society Programs, AAAS
 - Suzanna Rose, Founding Associate Provost for the Office to Advance Women, Equity and Diversity at Florida International University

- 10:30-11:15 p.m.** **Presentation on the existing “evidence” of the value of an integrated education:** *Hannah Stewart-Gambino, Professor and Former Dean of the College, Lafayette College; Jenn Stroud Rossmann, Associate Professor and Department Head, Department of Mechanical Engineering, Lafayette College*
- 11:15-12:30 p.m.** **Interactive sessions in small groups (kicked off by two presenters) with a discussion of why we need to draw on STEM, humanities and arts in addressing the global challenges of the day—and the value of giving undergraduate and graduate students both broader and deeper exposure to all of those fields in an integrated manner. The “New Biology for the 21st Century” (including the Gene Editing project) will serve as the focal point of the discussions. Presenters: *Jay Labov, Senior Advisor for Education and Communication, National Academies; Ben Hurlbut, Assistant Professor, Arizona State University School of Life Sciences***
- 12:30-1:00 p.m.** **Lunch**
- 1:00-1:45 p.m.** **Artistic Performance by Jeffrey Steiger, Visiting Scholar, The George Washington University School of Medicine & Health Sciences, and Founding Artistic Director, CRLT Players Theatre Program, University of Michigan. “The Autopsy of Dr. Melinda J. Smith.”**
- 1:45-2:40 p.m.** **Student/Recent Graduates Panel:**
- Moderator: Rick Vaz, Dean, Interdisciplinary and Global Studies Division, Worcester Polytechnic Institute
 - Charles Wu, Research Assistant, Regeneron Pharmaceuticals, St. Louis
 - Jessica Bishop, Senior Undergraduate student in Mechanical and Nuclear Engineering, Virginia Commonwealth University
 - Joshua Gigantino, Ph.D. student in Media Arts and Sciences, Arizona State University
 - Patrick Ford, Graduate Research Assistant, Massachusetts Institute of Technology
- 2:45-4:15 p.m.** **Group discussions of how employers see value in an integrated educational experience for students and how institutions might adapt their instructional programs accordingly:** *Doug Hunt, General Manager of Education, and Satya Nitta, Program Director and Master Inventor, Cognitive Computing for Education Transformation at*

IBM Corporation, will discuss the "IBM Watson Project" to kick off this part of the meeting. This will be followed by a brief presentation of an innovative course by Professor Rob Martello of Olin College.

4:15-5:00 p.m.

Concluding full group discussion: Where do we go from here?

- **Is there sufficient "preliminary evidence" of the benefits of an integrated experience to students and to society to justify moving forward with a full study of the benefits and the process of implementing such experiences on our campuses?**
- **What is our definition of "evidence?" What kind of data do we need to create a solid evidence base? What is the value of "narrative" and "testimonial" in assembling the evidence base?**
- **Who should be involved in a larger study, if the decision is made to take this work to the next level?**

5:00-6:00 p.m.

Reception