

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Committee on the
Supply Chain for Middle-Skill Jobs:
Education, Training, and Certification Pathways

In cooperation with
The Institute for Defense Analyses

**Building America's Skilled Technical Workforce:
The Role of Digital Tutors**

AGENDA

October 26, 2017

The Lecture Room
National Academy of Sciences
2101 Constitution Avenue, NW
Washington, DC

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- 9:00 AM **Welcome**
David Chu, NASEM Committee on the Supply Chain for Middle-Skill Jobs
- 9:10 AM **The Digital Tutoring Opportunity**
John Dexter Fletcher, Institute for Defense Analyses
- 9:30 AM **Panel I: Design, Development, and Effectiveness of Digital Tutors**
Moderator: Ray Perez, Office of Naval Research
- Learning with Cyber-Tutors
Arthur C Graesser, University of Memphis
- Intelligent Tutoring Systems
Kurt VanLehn, Arizona State University
- Building Intelligent Interactive Tutors
Beverly P. Woolf, University of Massachusetts at Amherst
- Discussion
- 10:30 AM **Coffee Break**

10:40 AM

Panel II: Applications for Digital Tutoring in Workforce Development

Moderator: Harry Holzer, Georgetown University

Improving Student Achievement

Neil T. Heffernan, Worcester Polytechnic Institute

Enhancing the Skilled Technical Workforce

Jennifer McNelly, 180 Skills

Training the Military Workforce

Lt. Gen. Gina M. Grosso, U.S. Air Force

An Educator's Perspective

Mark Zientek, Toledo Technology Academy

Discussion

Noon

Concluding Roundtable

Moderator: David Chu, Institute for Defense Analyses

Eva Baker, University of California at Los Angeles

Alan Lesgold, University of Pittsburgh

LeAnn Wilson, ACTE

Enrique Shadah, Massachusetts Institute of Technology

12:45 PM

Adjourn