

CCC Content Generation For Workforce Training Workshop

Georgia Tech Hotel and Conference Center
Atlanta, GA

Thursday March 14th, 2019

7:30 BREAKFAST
Conference Seven

8:30 Opening remarks and Introductions
Conference Four

9:00 Part I – State of Education/Training Technology Research
Conference Four

Presentations by *Educational Technology researchers* about the current cutting edge in incorporating technology in lifelong/workplace (rather than K-12 or university) education.

1. Carolina Cruz-Neira, University of Arkansas -“Is VR the Future of Education?”
2. Kapil Chalil Madathil, Clemson University

9:45 BREAK
Conference Break Station

10:00 Part II – State of Education/Training in Practice
Conference Four

Presentations by *Consumers of Education and Training* on programs that exist today, and challenges they face.

Presentations by *Producers of Educational/Training Materials* of the demand they see, and the tools they use.

1. Chuck Spangler, SCMEP
2. Erik Verlage, MIT- “Educational simulations and blended learning for workforce training in photonics”

10:45 Part III – State of Content Authoring Research
Conference Four

Presentations by *Researchers in Content Authorship* of new ideas for authoring systems and components of systems.

1. Jessica Hodgins, CMU
2. Blair MacIntyre, Georgia Tech and Mozilla

3. Steve Feiner, Columbia University

11:45 LUNCH

Conference Seven

12:30 Part IV- High-level views of the challenges

Conference Four

Virtual- and Augmented-Reality based Workforce Development Platforms for Robotics-enabled Advanced Manufacturing Environments: A Perspective from the Advanced Robotics in Manufacturing Institute

Rebecca Hartley, ARM Institute

Combining the Virtual and Physical Worlds in Synthetic Learning Environments for Advanced Skill Training: Application, Adoption and Content Development

Maribeth Gandy, IMTC, Georgia Tech

Paul M.A. Baker, CACP, Georgia Tech

1:30 Part V - Case Studies of applying VR/AR to training

Conference Four

Virtual and Augmented Reality Enabled Personalized Manufacturing Training

Rajesh Jha, SimInsights

The Challenges and Opportunities of Designing AR to Support Complex Problem Solving

Louise Yarnall, SRI Education

Case Study in VR Content Generation for Clemson University Center for Workforce Development

Anand Gramopadhye, Clemson University

Jeff Bertrand, Clemson University

2:30 BREAK

Conference Break Station

3:00 Part VI -- Research on Methods specifically aimed at Training

Conference Four

Omnidirectional Cinemagraphs for Safety Training

Eakta Jain, University of Florida

Ad hoc Allocentric AR-Based Team Training with Human-in-the-Loop Avatars and Aware/Influential Agents

Greg Welch, University of Central Florida

Creating Novel VR Tools for Spatial Design Training via Learning from Human Perceptions and Behaviors in Virtual Simulated Workplaces

Lap-Fai Yu, George Mason University

Tomer Weiss, University of California, Los Angeles

Christos Mousas, Purdue University

4:00 Open discussion
Conference Four

4:30 Demo Field Trip

6:30 DINNER
Ecco Midtown Restaurant (40 7th St NE, Atlanta, GA)

Friday, March 15th, 2019

7:30 BREAKFAST
Conference Seven

8:30 Recap Day 2
Conference Four

9:00 Part VII – Comparisons and Setting an Agenda
Conference Four

10:00 BREAK
Conference Break Station

10:30 Breakout Groups / Report Outlining
Conference Four

11:45 Report Back
Conference Four

12:00 LUNCH
Conference Seven

1:00 Report Writing
Conference Four

2:00 Meeting Ends