



**Title:** Using Technology to Assess Electronics Students

**Date/Time:** Thursday, July 31, 11:00 AM – 12:00 PM

**Location:** Renaissance Austin Hotel

**Description:** This session will report on an NSF-funded project that is exploring the use of computer simulations to assess students' abilities in electronics. This will be an interactive session; attendees will have the opportunity to solve electronics problems using simulated circuits and test equipment, and to obtain reports bearing on their performance. The attendees will be able to try out a series of "performance assessments" in the area of electronic circuit troubleshooting and the use of test equipment.

**Presenters:**

**Dr. Paul Horwitz** is a Senior Scientist at the Concord Consortium in Concord, Massachusetts. A physicist with broad interests in the application of technology to science and mathematics education, he currently serves as Principal Investigator for the Computer-Assisted Performance Assessment Project, sponsored by the ATE Program at NSF, which is examining the use of simulations of circuits and test equipment to assess students' knowledge and skills in the domain of electronics.

**John Chamberlain** is a Senior Associate at CORD in Waco, Texas, where he develops curriculum and delivers training in support of contextual teaching and learning. John's experience is in mathematics, physics, and instructional technologies. His current projects include developing computer-simulated performance assessments, coordinating team-development of STEM projects for the IT cluster, and assisting a Hawaiian implementation of contextual physics.

**Trudi Leone Lord** is a Research Associate at the Concord Consortium in Concord, Massachusetts, where she assists in the design, evaluation and implementation of several educational software research projects. Trudi is able to draw on her experience as a high school teacher to help partner teachers successfully integrate technology into their classrooms. Trudi has a B.S. in Human Factors Engineering from Tufts University and an Ed.M. in Technology Education from Harvard University.

**Seong Kim**, a programmer at the Concord Consortium, has an M.S. degree from DePaul University and a B.S. from the University of Virginia in Computer Science. He has extensive experience in software engineering with various domains and development environments.