Breakfast Roundtables  
Friday, October 23  
7:45 – 8:45 a.m.  
Regency Ballroom

Table 1: Computer Refurbishing for Hands-on Skills, Recycling, and Student Scholarships  
Susan Malmgren, Foothill-De Anza Community College District, CA

This roundtable will discuss models for student internships and labs that provide hands-on technical support skills and engage students in computer related fields. Paid student interns in the ComptechS program refurbish used computers to give to students who need one, thus supporting community recycling and reuse.

Table 2: Improving Instruction Through Facilitator Development  
Russell Richardson, College of the Canyons, CA  
Mary Slowinski, College of the Canyons, CA

The transformation of teaching on a college campus can begin with a group of dedicated, trained workshop facilitators. Using microteaching techniques, teachers can work together to transform their own teaching. The NSF CREATE Regional Center will discuss how to receive this valuable training.

Table 3: Multimedia Challenges - A Strategy to Engage Students in Problem-Based Learning  
Fenna Hanes, New England Board of Higher Education, MA

Problem-based learning (PBL) is an instructional approach that challenges students to “learn how to learn” through collaborative real-world problem solving. The New England Board of Higher Education has just completed a research, curriculum, and professional development project, during which eight multi-media PBL challenges were developed and field-tested in collaboration with industry. This roundtable will invite open discussion about the design, implementation, field-testing and pedagogical attributes of problem-based learning.

Table 4: Nanotechnology Technician Training and Remote Access Tools  
Paul Hallacher, Pennsylvania State University, PA

This roundtable will bring together representatives of institutions currently offering nanotechnology programs with those considering developing programs for a discussion of promising practices and lessons learned. The movement toward adoption of national skill standards for nanotechnicians and remote use of advanced nanotechnology equipment such as the Field Emission Scanning Electron Microscope at the NACK Center via the internet will be featured.
Table 5: Evaluation Challenges and Solutions  
_Lori Wingate, Western Michigan University, MI_

This roundtable will provide an opportunity for participants to discuss the challenges they’ve faced in evaluating ATE projects and centers. Learn how others have managed similar obstacles and brainstorm potential solutions. The topics discussed will inform the development of resources, workshops, and webinars for developing evaluation capacity within the ATE program.

Table 6: ATE Central - Greater Impact through Collaboration  
_Rachael Bower, ATE Central, WI_

Come join us to learn more about ATE Central and help shape the direction of the project as it moves forward. ATE Central is an online portal containing a collection of materials from ATE projects and centers designed to help educators, students, and the general public discover and learn about the entire depth and breadth of the ATE program.

Table 7: Facing the Challenges of Starting a New Wind Energy Technology Program  
_Michael Schmidt, Laramie County Community College, WY_  
_Mimi Hull, Laramie County Community College, WY_

This roundtable will discuss a realistic and practical approach to wind energy program development and whether or not it is the right thing for your institution to attempt. Lessons learned and practical advice regarding space, equipment, staffing and institutional support will be shared.

Table 8: Leveraging FabLabs in Education and the STEM World  
_Jim Janisse, Fox Valley Technical College, WI_

This roundtable will discuss the concept of using Fab Labs in education to increase STEM recruitment and retention. We are creating a movement with Fab Labs and at the same time transitioning from becoming users to creators and inventors.

Table 9: Get Your Students Involved in STEM through Imagine It!  
_Richard Tavener, Producer, Imagine It!_

*Imagine it!* The _Power of Imagination_ is an online collaborative media application designed for teachers and students to easily watch, remix, and mash-up film resources and videos as a way of getting students involved in STEM. In this roundtable, we will discuss the creation and sharing of videos as a powerful 21st century learning tool to supplement curriculum.

Table 10: ATE Centers and Projects Collaboration with Industry - Who Gets What?  
_Matthias Pleil, Southwest Center for Microsystems Education (SCME), NM_  
_James Hyder, Southwest Center for Microsystems Education (SCME), NM_

This roundtable discussion will be geared towards sharing our collective experiences and learning from each other to improve on our return on investment (ROI). The discussion will address the following questions: What do you do with industry? What do you get from industry? What does industry get from you? What would you like to get from industry?
Table 11: Engaging Underrepresented Students in Technology

John Birch, The Birch Group, CT

This roundtable will share strategies that have been successful in engaging underrepresented students in technology programs. Participants will be asked to share effective strategies, marketing materials, and any success with online social networking methodologies such as Facebook or online mentoring.