



**ANNUAL CONFERENCE**  
**September 25-26, 2008**  
**Mesa Convention Center**  
(as of 08-19-08)

**BE SURE TO REGISTER ONLINE – EARLY BIRD REGISTRATION PRICES DEADLINE – AUGUST 30, 2008**  
<http://www4.nau.edu/CSTL/asta/index.asp>

**Thursday – September 25, 2008 (tentative)**

**KEYNOTE: Educating Arizona** – Arizona Community Foundation

**STEM on Steroids**

Presenter/s: Allan Cameron  
Fred Lajvardi

**Hands-on Exploration of Population, Consumption and Our Changing Climate**

Presenter/s: Sara Jenkins

**Using Science Notebooks to Increase Science Achievement and Empower Student Learning**

Presenter/s: Birgit Musheno  
Crystal Roller

**Biodesign Institute: K-12 Bioscience Outreach**

Presenter/s: Kenneth Costenson  
Rick Fisher, Lisa Osinga

**Integrating Biotechnology Into Your Science Courses**

Presenter/s: Amanda Grimes  
Cheryl Dunham-Arcadia High School, Kelly Tommasino-Pinnacle High School

**Eco-Detectives**

Presenter/s: Debbie Henney

**Bio-Rad. What's Next After pGLO<sub>2</sub> Bacterial Transformation? (2 hrs)**

Presenter/s: Essy Levy  
Barbara Clendenen

**"GLOBE at Night" and the International Year of Astronomy**

Presenter/s: Connie Walker  
Robert T. Sparks

**Family Science Night**

Presenter/s: Debi Molina-Walters

**Biodesign Institute: Summer Research Experience**

Presenter/s: Kenneth Costenson  
Rick Fisher, Lisa Osinga

**Put PBS Resources to Work in Your Classroom!**

Presenter/s: Mark Becker  
Debra Lorenzen, Mandy Bachali

**Water from A to Z...in AZ!**

Presenter/s: Alison Waterkotte

**It's a Bird, It's a Plane...**

Presenter/s: ERIC PROCTOR

**Explore the World of Materials Science and Engineering**

Presenter/s: Mia Kroeger  
Roxanna Montoya-Gonzales

**New Strategies for Teaching about Body Systems**

Presenter/s: Mike Twiling

**Teacher as Investigator**

Presenter/s: Josh Adams

**Integrating Authentic Genomic Research into the Science Classroom**

Presenter/s: Xan Simonson

**ELSI (Ethical, Legal & Social Issues)**

Presenter/s: Amanda Attryde  
David Serafin, Emily Kipp, Stuart Charlip

**Facing the Future**

Presenter/s: Pam Whiffen

**Monster Black Holes**

Presenter/s: Robert Sparks

**Biotechnology Roundtable**

Presenter/s: Cheryl Dunham  
Xan Simonson

**A Natural Approach to Chemistry**

Presenter/s: Mike Twiling

**A River Reborn in the classroom: Arizona curriculum for Arizona students!**

Presenter/s: Stefan Sommer  
Brenda Harrop

**Science Curriculum Topic Study** (Ticket Required)

Presenter/s: Jackie Menasco  
Jane Kirkley, Trena Vannette, Lori Hare, Kristi Fredrickson

**Black Holes and Gamma Ray Bursts**

Presenter/s: Robert Sparks

**Overcoming Road Blocks in the Teaching of Evolution**

Presenter/s: Jonathan Smith

**PRIME Data Collection**

Presenter/s: Josh Adams

**Bio-Rad pGLO<sup>2</sup> Bacterial Transformation Kit (1 hr 15 mins)**

Presenter/s: Essy Levy  
Barbara Clendenen

**Science Takes Wing**

Presenter/s: Catryn Wise

**Polar Opportunities for Educators**

Presenter/s: Mindy Bell

**Friday – September 26, 2008 (tentative)**

**KEYNOTE: Is Life Possible on Mars?** – Peter Smith, Senior Research Scientist, Phoenix Mars Mission,  
University of Arizona

**The Galileoscope and the International Year of Astronomy**

Presenter/s: Robert Sparks  
Constance E. Walker

**Bringing the Garden Into Your Classroom**

Presenter/s: Gerry Parker

**From Fear to Action: Teaching About Global Climate Change**

Presenter/s: Tina Skjerping

**A River Reborn in the Classroom: Arizona Curriculum for Arizona Students!**

Presenter/s: Stefan Sommer  
Brenda Harrop

**Biotechnology from a Chemistry Teacher's Point of View**

Presenter/s: Cheri Kinney

**Tracking Wildlife: Using Maps to Guide Inquiry**

Presenter/s: Eric Proctor

**The Frances Short Pond Restoration Project at Flagstaff Middle School: Collecting & Analyzing  
Real World Data Using Geospatial Technologies**

Presenter/s: Lori Hare  
Joy Pavich

**The Symmetry and Patterns in the Rangoli Art from India**

Presenter/s: Madhuri Bapat

**Biotech in a Virtual World**

Presenter/s: Lisa Byers  
Anne English, Katon Kras, Reta Yanik, Cherri

**Using Science Notebooks**

Presenter/s: Vicki Massey

**Supporting STEM for Diverse Learners Using IDEAL Resources**

Presenter/s: Irma Sandercock  
Victoria Schmitt

**Impact of Global Climate Change on Nutrient Cycles.**

Presenter/s: Egbert Schwartz

**Designing Curriculum Addressing Student Misconceptions in Science**

Presenter/s: Barbara Austin  
Trenda Vannette

**Medical Mysteries**

Presenter/s: Kenneth Costenson

Lisa Osinga (primary instructor)

**Careers in the Biotechnology Industry**

Presenter/s: Renee Ouimette  
Paige Davis, Mark Schmidt

**Solutions Through Higher Education**

Presenter/s:

**Black Holes: The Monster in the Middle**

Presenter/s: Pam Whiffen

**The Arizona Rivers Program** (Ticket Required)

Presenter/s: John Madden  
Jim Washburne, Martha Whitaker

**Taking the Science Standard Outside**

Presenter/s: Vicki Massey

**Climate Change Science - Lessons and Activities**

Presenter/s: Maggie Kane  
Mindy Bell

**"Forensics through Inquiry" (using biotechnology in the high school classroom)**

Presenter/s: Renee Diether  
Micheal Lee, Errol Rose, Patricia Smith

**Bio-Rad Got Protein? Kit (1 hr 15 mins)**

Presenter/s: Essy Levy  
Barbara Clendenen

**Fast Plants: Inquiry Science At Its Best**

Presenter/s: Kenneth Costenson

**Chemistry is Cooking-Cooking is Chemistry**

Presenter/s: Jim Burrow  
Wayne Duncan and Mark Lomeland

**A Natural Approach to Chemistry**

Presenter/s: Mike Twiling

**Ready, Set, SCIENCE!**

Presenter/s: Lacey Wieser

**How a Normal Cell Becomes a Cancer Cell**

Presenter/s: Alison Adams

**An Introduction to Biotechnology**

Presenter/s: John Vreyens  
Darcy Cook, Michelle Landreville, Jonathon Miller

**What Makes an Award-winning Science Fair Project**

Presenter/s: Phillip Huebner