

Cosmos in the Classroom Meeting Poster Titles [7-2-10]:

C1. Dixie Androes (U. of Arkansas): **Making Cosmic Connections in the Nature of Science**

C2. Janelle Bailey (U. of Nevada, Las Vegas), Kim Coble, Geraldine Cochran, Virginia Hayes & Donna Larrieu (Chicago State U.), Roxanne Sanchez (U. of Nevada, Las Vegas), Kevin McLin (Sonoma State U.): **Using the Big Ideas in Cosmology to Teach College Students**

C3. David Baker (Austin Coll.): **"Extreme" Inquiry-Based Learning: Engaging Non-Science Students with the WOW Factor and Science Portfolios**

C4. Pauline Barmby (U. of Western Ontario): **Characterizing Online Tutorial Systems for Introductory Astronomy**

C5. John Beaver & Dominique Robert (U. of Wisconsin, Fox Valley): **A \$1.00 CCD Spectrograph for Use on Small Telescopes in the Introductory Astronomy Lab (But You Provide the CCD Camera)**

C6. John Beck & Deborah Scherrer (Stanford Solar Obs. Group): **Using Astrology to Teach Research Methodology**

C7. Gina Brissenden, Chris Impey, Edward Prather (U. of Arizona) & Kevin Lee (U. of Nebraska): **The Center for Astronomy Education (CAE) and Our NSF CCLI Phase-III Collaboration of Astronomy Teaching Scholars (CATS) Program: Our Community-Based Model for Astronomy Education Research**

C8. David Bruning (U. of Wisconsin, Parkside): **A New Course on Cultural Astronomy**

C9. Katherine Brutlag (Pima CC): **A Novice Instructor's Perspective on Learner-Centered Teaching Techniques in Introductory Astronomy**

C10. Sanlyn Buxner, Jessie Antonellis & Chris Impey (U. of Arizona): **A 20-Year Study of Undergraduate Astronomy Students' Beliefs and Knowledge in Science and Technology**

C11. Erik Christensen (South Florida CC): **Meeting the Needs and Expectations of Millennial Generation Astronomy Students**

C12. Emily CoBabe-Ammann (Emily A. CoBabe & Associates, Inc.), Russanne Low (U. of Nebraska), Greg Schultz (ASP), and Keliann LeConte (Lunar & Planetary Inst.): **The NASA Science Mission Directorate Education Forum Working Group for Higher Education: Building and Supporting a Network that Targets the Next Generation of STEM Workforce**

C13. David Consiglio (Bryn Mawr Coll.), Alexander Rudolph (Cal Poly Pomona), Edward Prather, Gina Brissenden (U. of Arizona) & Vicente Gonzaga, California State Polytechnic U.): **A National Study Assessing the Teaching and Learning of Introductory Astronomy, Part II: The Connection between Student Demographics and Learning**

C14. Sebastian Cormier, Edward Prather & Gina Brissenden (U. of Arizona): **An Online National Archive of Multiple-Choice Questions for Astro 101 & the Development of the Question Complexity Rubric**

C15. Patrick Durrell, John Feldmeier & Deidra Nuss (Youngstown State U.): **Student Feedback on Learner-Centered Astronomy Education**

C16. John Feldmeier (Youngstown State U.), Gina Brissenden (U. of Arizona), Paul Robinson & Jeffrey Sudol (Westchester Community Coll.): **The CAE/CATS Guest Moderator Program: Fostering Better Astronomy Education Through Professional Discussions**

C17. Douglas Fowler (U. of Wisconsin, Fox Valley): **Mathematics in Intro Astronomy: A Less Anxious Model**

C18. Andrew Fraknoi (Foothill Coll.): **Cosmic Philately: Using Stamps in the Astronomy Classroom**

C19. Adrienne Gauthier & Chris Impey (U. of Arizona): **Using Virtual Worlds Creatively in ASTR 101**

C20. Enrique Gomez (Western Carolina U.): **Phenomenological Primitives in Daisyworld**

C21. Harold Hastings, Rituleen Dhingra, Matthew Lazzaretti & Owen O'Neil (Hofstra U): **Enhancing Astro 101: A Course in Telescope Construction**

C22. Seth Hornstein (U. of Colorado), Edward Prather (U. of Arizona), Tom English & Steve Desch (Guilford Technical Community Coll.) & John Keller (Cal Poly San Luis Obispo): **Development of the Solar System Concept Inventory**

C23. Mustapha Ishak-Boushaki & Mary Urquhart (U. of Texas at Dallas): **Dark Energy and Dark Matter in the Astronomy Classroom: Strategies and Approaches**

C24. John Keller (Calif. Polytechnic State U.), Edward Prather (U. of Arizona) & Trevor Strickland (Calif. Polytechnic State U.): **Addressing Central Student Misconceptions Regarding the Greenhouse Effect**

C25. Kristine Larsen (Central Connecticut State U.): **Bringing the Cosmos Down to Earth: Assessing Student Learning in a Non-major Online Astronomy Course**

- C26. Kristen Larson (Western Washington U.): **What They've Always Wondered: Questions Students Ask on the First Day of Astro 101**
- C27. Larry Lebofsky (U. of Arizona): **Teaching a General Education Astronomy Class in a Non-traditional Setting: Not Your Traditional Astronomy 101 Class!**
- C28. Kevin Lee (U. of Nebraska) & Rica French (MiraCosta Coll.): **ClassAction: A Computer Database of Interactive Classroom Materials**
- C29. Patrick Len (Cuesta Coll.): **Promoting Student Promptness and Awareness in Introductory Astronomy Laboratory with Current Events Quizzes**
- C30. James Lochner & Barbara Mattson (NASA Goddard): **Uncovering the Stories Behind the Science: Infusing Astro 101 with the History of Modern Cosmology**
- C31. Michael LoPresto (Henry Ford Community Coll.): **Astronomical Misconceptions**
- C32. Daniel Loranz (Truckee Meadows CC): **Adapting the RBSEU Nova Search Project for Use in Intro Astronomy at Truckee Meadows Community College: A Case Study**
- C33. Benjamin Mendelsohn (West Valley Coll.), Sebastien Cormier, Edward Prather, & Gina Brissenden (U. of Arizona): **Assessing Changes to Student Attitudes and Beliefs about Science & Astronomy**
- C34. Milan Mijic, Eun-Young Elaine Kang, & Tony Lonsgon (California State University Los Angeles): **"MyUniverse": A Java-based Classroom Tool to Visualize and Understand Relativistic Cosmology**
- C35. Deidra Nuss & John Feldmeier (Youngstown State U.): **Developing a Celestial Sphere Display for Lecture Tutorials for Introductory Astronomy**
- C36. Aileen O'Donoghue (St. Lawrence U.): **Using Time Zones and Celestial Mechanics to Teach the Phases of the Moon**
- C37. Delphine Perrodin (Franklin & Marschall Coll.): **Learning by Teaching: Implementation of a Multimedia Project in Astro 101**
- C38. Bob Philbin (Trinidad State Jr. Coll.): **Using Gamma-Ray Burst Research in an Online Introductory Astronomy Course**
- C39. Ed Prather, Gina Brissenden, Wayne Schlingman (U. of Arizona) & Alex Rudolph (Cal Poly Pomona): **A National Study Assessing the Teaching and Learning of Introductory Astronomy; Part I: The Effect of Interactive Instruction**

C40. Lanika Ruzhitskaya & Wouter Montfrooij (U. of Missouri): **Gravity and Tides: How Students Don't Get It**

C41. Nick Schneider, David Brain (U. of California, Berkeley), & Ross Beyer (SETI Inst.): **'Discoveries in Planetary Sciences': Slide Sets Highlighting New Advances for Astronomy Educators**

C42. Stephen Shawl (U. of Kansas): **A Lunar Phases Planisphere**

C43. Harry Shipman (U. of Delaware): **Teaching Math and Astronomy Together: How Students Can Measure the Mass of the Galactic Center Black Hole Using a Ruler and Ratio Tables**

C44. Kendra Sibbernsen (Metropolitan Community Coll.): **Measuring Understanding of Inquiry in Introductory Astronomy Laboratories**

C45. Jessica Smay (San Jose City Coll.) & Karen Kortz (Community Coll. of Rhode Island): **Solar System Lecture Tutorials for Intro Astronomy**

C46. Raphael Steinitz (Ben Gurion U.): **Astronomy: A Vital Link in Interdisciplinary Education**

C47. Nicole Vogt, Amy Smith & Stephen Cook (New Mexico State U.): **Promoting Access, Retention and Interest in Astronomy Higher Education: Developing the STEM Professionals of Tomorrow in New Mexico**

C48. Colin Wallace & Douglas Duncan (U. of Colorado) & Edward Prather (U. of Arizona): **Students' Reasoning Difficulties in Cosmology**

C49. Christi Whitworth & Michael Castelaz (Pisgah Astron. Res. Inst.): **PARI's Online Tools for Astronomy Education**