

Good Ideas in Teaching Precalculus and...

March 18, 2005

First Timers Session: 8:00-8:15, Room 209

Abstracts of sessions posted at – <http://dimacs.rutgers.edu/precalc-conf/>

	Precalculus	Calculus	Algebra & Geometry	Discrete Mathematics	Statistics	Applications	Assessment	General	Mathematics & Technology
Session I 8:30 to 9:20	Weber Teaching and Understanding Trigonometric Functions Room 202	Pantozzi The First Thing Students Should Learn in Calculus is Room 203	Wissler Exploring Triangle Congruence Postulates Room 204	Edelman Is Love Transitive? Room 206	Eismann Leaping Frogs, Popsicles and Gummi Bears: Modeling Through Data Room 205		Cooperman Don't Just Solve for "x", Solve for "Why"! Room 209	Richards A Tongue in Cheek History of e, i and π Room 208	Cranwell & Hanas Integrating Technology in the Precalculus Classroom Room 210
Session II 9:30 to 10:20	Cohen-Corwin Some Favorite Examples and Test Items from Precalculus Room 202	Crombie Calculus Using Only High School Algebra and Geometry Room 203	Biehl Voronoi Diagrams and Empty Circles Room 204	Merges Fractals in Math & Art Room 206		Berkowitz Racecars and Mirrors Room 207	Del Vecchio & Van Riper Project Ideas for Algebra, Geometry, Precalculus & Calculus Room 209	Schiffman Number Theoretic Activities with the TI-89 Room 208	McCulloch Functions Online: Using Tech. to Investigate Functions Room 221A (Computer Lab: <i>Limited to 25 participants</i>)
Sharing Sessions 10:30-11:05	Preparing Grade 9 - 10 Students for Precalculus Room 202	What to Keep and What to Leave Out at Grades 11-12 Room 203	Getting Your Feet Wet – For New Teachers Room 204	Alternative Assessment in Calculus & Precalculus Classes Room 209	Alternative Assessment in Geometry & Algebra Classes Room 210	Preparing Students for the HSPA Room 205	What Do Your Precalculus Exams Look Like? Room 206	Assessment with and without Calculators Room 207	Strategies for Undoing Common Student Mistakes Room 208
11:10-12:10	Plenary Session: <i>New Thinking About Pre-Calculus Mathematics</i> – Dr. Jim Fey, University of Maryland Room 111, SERC (on first floor, across from registration table area)								
12:15-1:10	Lunch - Multipurpose Room, Busch Campus Center (Walking directions are in the program, in your folder)								
Session III 1:15 to 2:05		Alfred Functions with Easily Computed Arc Lengths Room 203	Gaffney & Herkimer How Geometer's Sketchpad Has Changed the Way We Teach Geometry Room 204		Shay Exploring Data with Fathom Room 221A (Computer Lab: <i>Limited to 25 participants</i>)	Hyman How CAN We Do Better? (Making Better Cans) Room 207	O'Callaghan & O'Reilly The New SAT Room 209	Smith WOW! It Can Do This? (The TI-8x) Room 208	Kiessling Using PowerPoint to Present Precalculus Lessons (Part I of II) Room 210
Session IV 2:10 to 3:00	Raman History of Functions Room 202	Arguelles Non-AP Calculus: Teaching Kids Who Don't Think They're Smart in Math Room 203		Rosenstein The Utilities Problem and Planar Graphs Room 206			Gulick Assessment Activities that Promote Learning Room 209	Richman Unique Brain-Based Study Techniques to Enhance the Learning of Mathematics Room 208	Kiessling Ideas on Creating PowerPoint Slides for Math Presentations (Part II of II) Room 210