Proposal Number: 24519
Title of Proposal : Assessing Mathematical Thinking from Online, Collaborative Problem-Solving

Scheduled on:
Thursday 4/27/2006   From 3:30:00 PM to 4:30:00 PM
America's Center - 142

Speakers
Johann Sarmiento, The Math Forum @ Drexel University; Philadelphia PA
Gerry Stahl, College of Information Science and Technology, Drexel University; Philadelphia, PA.
Stephen Weimar, The Math Forum @ Drexel University; Philadelphia PA

Description of Proposal
Online collaboration to solve non-routine mathematical problems can be a rich source from which students' conceptual strengths and weaknesses can be revealed, and where the unique features of their problem-solving methods can be observed. Learn and discuss with us assessment methods used to analyze the chat records of middle and high school students who have participated in Virtual Math Teams (VMT), a research program of The Math Forum @ Drexel. Participants in this session will explore and discuss in particular the assessment implications of VMT research, starting from the specially designed mathematics problems used and using the chat records as a source of information about students' conceptual strengths and weaknesses, in addition to serve to uncover the unique features of the participants' problem-solving methods.

Goals:
- Learn to use virtual math chats for formative, performance assessments of student math concepts and problem-solving - Identify unique assessment opportunities of a virtual collaborative problem-solving environment. - Gain strategies for helping students direct their own improvement through group feedback and reflection in the virtual (e.g. chat) and face-to-face environments.

Category: Focus of the Year--Assessment
Topics: High-Stakes Testing, Instructional Strategies, Classroom and Large-Scale Assessment, Formal and Informal Questioning, Policy Decisions, and Program Evaluation
Session Format: Regular Session, 60 minutes
Grade Band/Audience: General Interest/All Audiences
Main Grade Band Focus: General Interest/All Audiences