Outline for Interactive Session

A standards based math program developed by classroom teachers has resulted in 30 student modules that are customized, Internet based, and video enhanced.

1. Overview - Objectives
   Participants will:
   - view and interact with a Professional Development module and experience one student module with its interactive, video, gaming components
   - receive information on a proven process that has been successful for districts receiving millions in technology awards; used by a consortium of 6 school districts to build a technology rich middle school mathematics curriculum that is standards based; process has been replicated for other technology initiatives among school districts
   - articulate the process of consortium building and developmental stages of “break-through thinking” in designing a customized multi-media, Internet delivered curriculum for diverse student populations for middle school mathematics
   - have information as how to access the eMath Project with 30 math modules as funded by a $1.8 million TIE Grant from the Texas Education Agency; how to participate in on-going research of the impact of emerging technology in mathematics education
   - experience one teacher’s journey in break-through thinking on developing the mathematics modules for grades 6-8

2. Outline of Presentation
   - Review 3 years of planning, goal setting, defining needs by 6 school districts
   - Discussion of teacher input, curriculum design, break-through thinking in process of designing the curriculum;
   - Outline of the design of the web-based content to support the original video clips used in the modules with a thematic and problems based approach

Audience will experience photos of teachers in the development process, see examples of modules that teachers have developed, view a video clip of administrators discussing the support given to the project; experience one module (as though they are students) to solve the posed problem and work toward solutions with web-based and a gaming activity.
3. **Research Based** — Because this project is cutting edge of emerging technology curriculum development, an Expert Panel of nationally known math professors was engaged through TEXAS A&M University to write a ‘White Paper” on best practices in middle school technology initiatives in mathematics. The research is embedded in a staff development module.

4. **Presenter Qualifications**—In past 9 years the presenter has received funds for nearly $22 million for technology initiatives for consortiums of Texas schools, all the while serving as assistant superintendent for curriculum or acting as project director. Served on the 1999-01 Texas Education Agency Educational Technology Advisory Committee. The eMath Project is a first in the area of convergent media that uses both video and interactive web-content and delivery. This pilot for six school districts with 85 middle school math teachers and 6,000 students is being carefully followed in Texas for its impact of delivery of mathematics in the future.

5. **Co-presenter**—is a Research Scientist in the College of Education, Texas A&M University, College Station, Texas. Dr. Jolly is known nationally for being involved in the development as well as research of technology rich projects from Kindergarten to the post-secondary levels. The eMath Project is being evaluated from a “legacy issue” basis to determine the process that teachers must engage in as part of restructuring the delivery of curriculum that is integrated and cross-disciplinary.

- Workshop appropriate because it represents a major effort to integrate emerging technologies into the middle school math program; uses teacher expertise in designing the content and delivery system
- The hand-on presentation will provide participants an opportunity to experience cutting-edge mathematics that teachers and students will have access to in the near future throughout the State of Texas
- Major Presenter has given presentations to local, state, national, international audiences on technology, school reform, staff development for past 15 years; Co-presenter is known nationally for research and evaluation of cutting-edge projects
- The eMath Program of 30 modules will be presented and how other districts can access the federally funded (TIE) initiative