

**STRENGTHENING THE QUALITY OF  
MATHEMATICS AND SCIENCE  
LEARNING FOR ALL:  
MEASURING WHAT MATTERS**

*2001 Southwest Regional Conference*

**St. Anthony Hotel  
San Antonio, Texas  
December 12-15, 2001**

**Sponsored by the  
National Science Foundation  
Division of Educational System Reform  
and  
hosted by the  
Southwest Educational Development Laboratory**

*Wednesday, December 12, 2001*

**5:30 – 7:00 p.m. Reception**

Join us at the Palm Restaurant (1 block from the hotel) for light *hors d'oeuvres* and a welcome to the City.

Special Guests: Co-Principal Investigators of SAUSP

- His Honor Ed Garza, Mayor of San Antonio
- Dr. Rubén Olivárez, Superintendent of San Antonio Independent School District

Hosted by CASIO, INC and the San Antonio Urban Systemic Program.

**7:15 – 8:00 p.m. Facilitators' Meeting**

Special session for conference facilitators, NSF staff, and invited guests to clarify and coordinate the conference agenda, goals, and outcomes.

*NSF Regional Meeting • San Antonio, Texas • December 2001*

**Thursday, December 13, 2001**

7:00 – 8:00 a.m.      **Breakfast – Georgian Room**

8:00 – 9:30 a.m.      **Opening Session – Anacacho Ballroom**

Welcome and Introductions

Stephen Marble

Program Manager, SEDL

Opening Remarks

Wesley A. Hoover

President and CEO, SEDL

Costello L. Brown

Director, ESR, NSF

Introduction of the Key Note Speaker

Julio E. López-Ferrao

ESR, NSF

**Key Note -- *Systemic Reform for the Long Term:  
Lessons from a Decade of Partnership***

M. Susana Navarro

Co-Principal Investigator

El Paso Urban Systemic Program

Logistics

Stephen Marble

9:45 – 11:30 a.m.      **Work-Alike Group Meetings**

Working with others in similar roles, participants will explore each of the three strands of the conference in more detail and create statements about what matters to carry into the afternoon strand sessions.

Policy Makers	St. Anthony Club	Stephen Marble, SEDL
Evaluators	Lafitte	Bernice Anderson, NSF
Instructional Leaders	Jefferson Manor	Jackie Burniske, SEDL
Project Directors	Anacacho	Julio E. López-Ferrao, NSF
Instructional Implementers	Travis	Ed Tobia, SEDL
Higher Education Partners	Anacacho	Kathleen Bergin, NSF

11:45 – 12:45 p.m.      **Luncheon – Georgian Room**

1:00 – 4:30 p.m.      **Strand Session I: What Matters?**

Teams break into three strand groups. Over the next day and a half, strand groups will engage in an inquiry into the issues and the implications of their strand theme. Each strand session will work independently of the others, and participants are discouraged from moving between the strand activities. Opportunities to share strand decisions and learnings are provided at the team and work-alike meetings.

### **Systemic Alignment – St. Anthony Club**

*How do we know what to teach when and how will it be assessed across the educational system?*

Looking beyond the current wave of efforts to align K-12 curriculum, this theme looks at strategies for linking pedagogy, assessment, and curricula K-16, as well as the human and physical resources to accomplish such an alignment. Questions focus on identifying indicators of alignment, interface K-12 with higher education programs, and promoting the leadership skills required to develop and support alignments.

Facilitators: Norman Webb, University of Wisconsin, and Stephen Marble, SEDL  
NSF Strand Representative: Celeste Pea, NSF

### **Professional Learning Communities – Travis Room**

*How do we build on-going support structures for teachers to enable them to perform their tasks in the highest quality way?*

This theme focuses on developing the capacity of school communities to support continuous improvement. Needs for effective learning communities include instructional leadership K-16; partnerships between higher education and schools and communities; supportive school culture, including a strong professional development component with coaching/mentoring strategies; and a strong research base.

Facilitators: D’Ette Cowan, SEDL; Ed Tobia, SEDL; Anne Papakonstantinou, Rice University; and Joan Ferrini-Mundy, University of Michigan.

NSF Strand Representatives: Kathleen Bergin, NSF and Anselm Davis, NSF

### **Tracking Student Performance – Jefferson Manor**

*How do we know what students know and don’t know and how teaching has impacted their knowledge?*

This theme extends the construct of student assessment beyond the current focus on state standardized measures. It is critical that school districts and schools develop a system of multiple measures that informs and improves the teaching/learning process, while simultaneously working to meet growing state accountability expectations.

Facilitators: Jackie Burniske, SEDL, and Okhee Lee, University of Miami

NSF Strand Representatives: Bernice Anderson, NSF and Julio E. López-Ferrao, NSF

### **4:30 – 5:00 p.m. Optional session on partnerships**

Costello L. Brown, Director, Division of Educational System Reform, and Jim Hamos, AAAS/NSF Policy Fellow will discuss the National Science Foundation’s new Math and Science Partnership program.

### **6:00 – 8:00 p.m. Dinner – Peraux Room**

Hosted by the Eisenhower Southwest Consortium for the Improvement of Mathematics and Science Teaching)

Introduced by Kathleen Bergin, NSF

*Science for All Students*

**Dr. Okhee Lee**

**University of Miami**

**Friday, December 14, 2001**

7:00 – 8:00 a.m.      **Breakfast – Georgian Room**

8:00 – 8:45 a.m.      **Team Meetings**

Teams share the outcomes of the first session “What Matters?”

9:00 – 11:30 a.m.      **Strand Session II: How Do We Measure What Matters?**

<b>Systemic Alignment</b>	<b>St. Anthony Club</b>
<b>Professional Learning Communities</b>	<b>Ballroom</b>
<b>Tracking Student Performance</b>	<b>Jefferson Manor</b>

11:45 – 1:15 p.m.      **Luncheon – Georgian Room**

**Panel on Broadening Regional Collaborations**

Moderator: Costello L. Brown, NSF

Janie Schielack, Director Center for Teaching and Learning  
Texas A&M University

Kamil Jbeily, Director, Texas Regional Collaboratives  
University of Texas at Austin

William McCarthy, Principal Investigator, Regional Alliance  
for Science, Engineering, and Mathematics for Students with  
Disabilities

New Mexico State University

R.D. Anderson, LaSIP  
Louisiana State University

1:30 – 2:30 p.m.      **Strand Session III**

<b>Systemic Alignment</b>	<b>St. Anthony Club</b>
<b>Professional learning Communities</b>	<b>Alamo/LaSalle Room</b>

## Tracking Student Performance

## Jefferson Manor

2:45 – 3:30 p.m.

### Work-Alike Group Meetings

Policy Makers	Anacacho	Stephen Marble, SEDL
Evaluators	Lafitte	Bernice Anderson, NSF
Instructional Leaders	Jefferson Manor	Jackie Burniske, SEDL
Project Directors	Anacacho	Julio E. López-Ferrao, NSF
Instructional Implementers	Alamo/LaSalle	Ed Tobia, SEDL Celeste Pea, NSF
Higher Education Partners	Anacacho	Kathleen Bergin, NSF

3:45-4:45 p.m.

### Plenary Session – Anacacho Ballroom

Introduction of the Speaker:  
Celeste Pea, NSF  
*The Algebra Issue*  
Joan Ferrini-Mundy  
University of Michigan

**Dinner on your own.**

### Saturday, December 15, 2001

7:00 – 8:00 a.m.

### Breakfast – Georgian Room

8:00 – 9:15 a.m.

### Plenary Session – (all sessions on Saturday will be in the Anacacho Ballroom)

**Agenda and Logistics**  
**Reflections on our Work**  
Joan Ferrini-Mundy  
Norman Webb  
Okhee Lee

9:15 – 10:00 a.m.

### Team Meetings

At tables, each team shares the outcomes of all three strands and determines its priorities and directions for future efforts. Team reports will be submitted the provided forms for posting on the web-site.

10:00 – 11:00 a.m.     **Small Group Sharing**

Each team divides to new tables and shares their priorities and directions with six other teams.

11:00 – 11:30 a.m.     **Closing Session**