Materials for the Spring 2003 Section Meeting at New Mexico Tech, April 5-6, 2003. Originally posted at

http://infohost.nmt.edu/~wdstone/www/MAAmeeting/CoverPage.htm

Southwest Region
Section meeting

Saturday – Sunday
April 5 – 6, 2003

New Mexico Tech
Socorro, New Mexico

For more information contact
Wm. D. Stone
505-835-5786

Program

Section Officers
Distinguished Teaching Award

Registration
(.doc or .pdf format)

[Call for papers](#)

[Vendor registration](#)
(.[doc](#) or .[pdf](#) format)

[Hotel Information](#)

[Things to do in Socorro!](#)

Keynote Speaker: Professor [Martha Siegel](#), Towson University

[Schedule of talks](#)

[Student paper session](#)

[Teaching innovations session](#)

[Research reports](#)

[Business meeting](#)

Saturday   5-Apr-03

Weir 102
9:00 Welcome to Tech   Peter Gerity

	Weir 102				Weir 128		
	Teaching Innovations I				Research I		
9:30	Helmut	Knaust	That student is taught the best who is told the least	9:30	Curt	Barefoot	Perfect Bc-Matchings
10:00	Bill	Stone	Mathematical Modeling as a Capstone Course at New Mexico Tech				
10:30	Hamide	Dogan-Dunlap	An Activity to Enhance Understanding of Sets	10:30	John	Hagood	Tagged partitions in Analysis
11:00	Reid	Mowrer	Finding Your Mathematical Voice	11:00	Janet	McShane	Fibonacci-like sequences of Apollonian circle packings
				(with	Michael	Ratliff)	

Lunch on your own

Weir 102
1:00 Keynote Address   Martha Siegel

2:00 Business meeting

	Weir 102				Weir 128		
	Teaching Innovations II				Student papers		
3:00	Matt	Isom	Introduction to WebWork	3:00	Juana R.	de Smet	Concept maps in mathematics: with emphasis on slope
3:30	Helmut	Knaust	Placing more freshmen into college-level Mathematics courses	3:30	Todd	Wolford	Pendant Water Drops on the Outside of a Cylinder
4:00	Michael	Ratliff	Technology Illustrations of Five Solutions to the Problem of Appollonius	4:00	Eric	Andries	Computationally Tractable Gene Selection Methods for cancer classification
(with	Janet	McShane)		4:30	Matt	Miller	Number Theoretic Properties of Pascal's Triangle

Sunday   6-Apr-03

	Weir 102				Weir 128		
	Teaching Innovations III				Research II		
9:30	Sharon	Yu-Shattuck	Knowledge Content Indicators and Connectedness Indicators as Predictors of Proble	9:30	Ivan	Avramidi	TBA
10:30	Mir	Mortazavi	Do students learn as much from a distance learning course (statistically speaking)?	10:30	Brian	Borchers	An introduction to semidefinite programming
11:00	Jeff	Rushall	Why we hate watching cooking shows on television				
(with	Kurt	Herzinger)		11:30	Shafiu	Jibrin	Extensions of the Semidefinite Coordinate Direction Algorithm for Detecting Necessary Con

Student Papers

Erik Andries UNM
 "Computationally Tractable Gene Selection Methods for Cancer Classification"

Juana R. de Smet UTEP
Concept Maps in Mathematics: With Emphasis on Slope

Matt Miller, Northern Arizona University
Number Theoretic Properties of Pascal's Triangle

Todd Wolford, New Mexico Tech
Pendant Water Drops on the Outside of a Cylinder

Teaching Innovations

Matt Isom, Associate Professor of Mathematics, Arizona State University
Introduction to WeBWorK

Helmut Knaust, Ph.D., Associate Professor, Department of Mathematical Sciences, University of Texas at El Paso
Placing More Freshmen Into College-level Mathematics Courses

Helmut Knaust, Ph.D., Associate Professor, Department of Mathematical Sciences, University of Texas at El Paso
That Student Is Taught the Best Who Is Told the Least

Hamide Dogan-Dunlap, Assistant Professor, Mathematical Sciences, University of Texas at El Paso
An Activity to Enhance Understanding of Sets

Dr. Mir Mortazavi, Department of Mathematical Sciences, Eastern New Mexico University
Do students learn as much from a distance learning course (statistically speaking)?

Jeff Rushall, Northern Arizona University
Kurt Herzinger, United States Air Force Academy
Why We Hate Watching Cooking Shows on Television

Michael Ratliff and Janet McShane, Northern Arizona University,
Technology Illustrations of Five Solutions to the *Problem of Apollonius*

Terence Blows, Northern Arizona University
It's still Diff Eq. to me

Reid Mowrer UNM-Valencia
Finding Your Mathematical Voice

William D. Stone, New Mexico Tech
Mathematical Modeling as a Capstone Course at New Mexico Tech

Sharon Yu-Shattuck, El Paso Community College
Knowledge Content Indicators and Connectedness Indicators as Predictors of Problem Solving Success

Research talks

Brian Borchers, Chair and Associate Professor of Mathematics, New Mexico Tech
An Introduction to Semidefinite Programming

Janet McShane and Michael Ratliff, Northern Arizona University
 Fibonacci-Like Sequences of Apollonian Circle Packings

John Hagood, Northern Arizona University
Tagged Partitions in Analysis

Shafiu Jibrin, Northern Arizona University and Susan Perrone, Clemson University
Extensions of the Semidefinite Coordinate Direction Algorithm for Detecting Necessary Constraints to Unbounded Regions

 Ivan Avramidi, New Mexico Tech
TBA

Curtis Barefoot, New Mexico Tech
Perfect Bc-Matchings

Ivan Avramidi, New Mexico Tech
Singular Asymptotics of Partial Differential Operators

MAA SOUTHWESTERN SECTION
AGENDA FOR SPING MEETING
APRIL, 2003

1. Call to Order – Bill Stone

2. Approval of minutes of 2002 meeting – Joanne Peeples

3. Treasurer's Report – Joanne Peeples
   Request to reimburse Governor and Section Chair $100 each for MathFest.
   Other requests of Treasurer

4. Governor's Report – John Hagood

5. AMC Report - ???

6. Student Chapters – NAU ?/ UTEP ?/ other?

7. Newsletter – Tom Gruszka

8. Old Business – Web Page?

9. New Business
   MathFest 2003 in Boulder, CO
   MathFest 2005 in Albuquerque
   NMMATYC Conference in Farmington, NM (May 30 – 31, 2003)

10. Election of Officers for 2003-2004: Chair (NAU), Vice-Chair (UTEP)

11. 2004 Spring Meeting – to be held at NAU, Flagstaff, AZ

Southwestern Region Section meeting

Saturday – Sunday
April 5 – 6, 2003

New Mexico Tech
Socorro, New Mexico

New Mexico Tech

REGISTRATION
Return to:
MAA Conference
c/o Dept of Math
New Mexico Tech
Socorro NM 87801

Name: _____ MAA member? Yes ___ No ___

College or University: _____ Student? Yes ___ No ___

Address: _____

_____

_____

Telephone: _____ fax: _____

e-mail: _____

Registration fee $10 _____

Banquet: #_____*$20 = _____

Guest (name) _____

Entrée selections: Beef Wellington ____

Eggplant Parmesan ____

Call for Papers

The annual MAA Southwestern Section meeting is being held April 5-6, 2003 at New Mexico Tech in Socorro, NM. You are invited to present a paper.

We will have presentations in three areas:

[Student papers](#)
Either graduate or undergraduate presenters are welcome. This is a nice, friendly venue to present thesis work, preliminary work, senior projects and the like.

[Teaching innovations](#)
Have you tried something new that worked? We welcome presentations on new methods, ideas, assessment strategies, projects, etc. Let's share our ideas so we can all have even better success!

[Research reports](#)
What are the members of the Southwestern section doing? Surveys of your field, new problems, and results - either final or preliminary - all are welcome.

We will have 20 minute and 50 minute time slots available; let us know which you would like. To propose a talk, send title and abstract to wdstone@nmt.edu . Let us know any equipment you will be needing, and any preference for scheduling.

New Mexico Tech

February 2003

Dear Sir or Madam:

The Mathematical Association of America (MAA) Southwest Section is having their spring meeting at the New Mexico Tech campus in Socorro, NM on April 5-6, 2003. As part of this conference, we usually have some vendor exhibits of textbooks and other classroom materials. You are invited to come to Socorro and exhibit at the April 5-6 conference.

The MAA is a professional organization of teachers of mathematics at both the two- and four-year levels. The Southwest section includes New Mexico, Arizona, and the El Paso area. Usually our section meeting has 40-50 participants.

To help defray the costs of the meeting, there is a $25 commercial registration which is payable to MAA using the attached form below. You may choose, instead, to sponsor a 'refreshment break'.

If you wish to attend the banquet on Saturday night ($20), please fill out a registration form, including choice of entrée. (Of course, you need not pay an additional registration fee.)

The conference web page is at
http://www.nmt.edu/~wdstone/www/MAAmeeting/CoverPage.htm for more information.

Company Name_____

Representative _____

Address: _____Phone Number_____

_____ ____ Fax Number_____

Paid by Check No. _____ Purchase Order No. _____

Credit Card Type _____ Number_____

Expires _____

For information about Socorro and what our community has to offer, see
http://www.socorro-nm.com/

Hotel Information

Socorro Super 8 (505-835-4626) North Frontage Road (immediately when you come

into Socorro on the right side. Tell them you are here for the New Mexico Tech Math conference.

Conference price should be 1 bed room 49.88 + tax for 2 bed room 56.88 + tax

Holiday Inn Express (505) 838-0556 is offering $65.00 for the conference. Mention NM Tech for conference rate.

Things to do in Socorro

Things to do on Friday, April 4:

NRAO Colloquium: 11 a.m., AOC. Andrew MacFadyen, Caltech

Bosque del Apache (closes at dusk)   ) http://www.friendsofthebosque.org/

New Mexico Mineral Symposium http://geoinfo.nmt.edu/education/museum/home.html#top
200 W – Workman Addition
NMT Campus
8-5 Friday, 10-3 Saturday

Things to do on Saturday, April 5:

April 5 Trinity Site Open to Public

Bosque del Apache (opens at dawn) http://www.friendsofthebosque.org/

Very Large Array visit http://www.aoc.nrao.edu/

New Mexico Mineral Symposium http://geoinfo.nmt.edu/education/museum/home.html#top
200 W – Workman Addition
NMT Campus
8-5 Friday, 10-3 Saturday

Things to do on Sunday, April 6:

Very Large Array (VLA) Guided Tour: Guided tours for the general public. A tour will leave from the Visitor Center every half hour beginning at 10 a.m., with the last tour leaving the center at 2:00 p.m. Tours are free and no reservations are needed.

Other links by the Socorro Chamber of Commerce

http://www.socorro-nm.com/main/links.html

Other links by NMT's Outdoor fun page
http://www.nmt.edu/stu_life/outdoors.htm

Socorro Area Lodging and Eating
http://www.socorro-nm.com/main/vtable.html

Maps:
http://infohost.nmt.edu/mainpage/map/colormap.html

http://infohost.nmt.edu/mainpage/map/nmstate.html
http://www.friendsofthebosque.org/map.html