

New Mexico Math and Science Advisory Council
New Mexico State University – O’Donnell Hall Dean’s Conference Room 300
Las Cruces, New Mexico
May 21, 2010

Attending

Council Members and Alternates: Franny Dever, Brian Every, Raymond Nance, Phyllis Baca, Ted Sanford, Len Duda, Kim Thomas, Doug Brown, Lorenzo Gonzales, Tom Gruszka, Joyce Kaser, Becky Kerr, Cathy Kinzer, Ellen Levy
MSB Staff: Melissa Lomax, Claudia Ahlstrom, Pascal Buser
Guests: Susan Brown, Cheryl Coyle, Ligia Ford, Terri Hansen, Lisa Marrufo, Lisa Matthew-Holguin, Sarah Morales, Aaron Prescott, Nicole Zubieta

Dr. Moorhead, College of Education Dean, NMSU, extended a gracious welcome to all. A warm thank you was extended to Cathy Kinzer for the wonderful refreshments and great appreciation for providing lunch today.

Math Science Bureau

- Standards Based Assessment development continues with range finding the last two weeks of June.
- Rubric for publishers for science continues. Completion by June 18 followed with submittal to the Instructional Bureau needed in order for publishers to receive in August. Core course texts need to meet 90% of content standards. Expenditure of textbooks funds with discretion to purchase supplemental materials is a local decision
- June 8 is the scheduled review of three (3) mathematics and four (4) science applicants for the Presidential Award (K-6).

Mathematical Practice

- Discussion revolved about mathematical practice not indicated as a strand or separate paragraph of the common core standards. Completion of the alignment of common core and NM standards is anticipated by November 2010. NM Standards will reflect the common core standards.
- Questions of a formatting issue regarding mathematical practice elimination as a prominent strand as compared to “imbedded” in the standards were articulated. It was voiced that formatting issues should not derail what is good for students.
- It was strongly suggested that mathematical practice should at least be written as a paragraph above the common core standards. Concerns persisted that if mathematical practice is not written as a separate strand or paragraph years of progress will be lost.
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INTEL International Science and Engineering Research Fair

- Discussion centered on what specific actions this council could take to support the Intel Education Academy Team’s Central NM Region Action plan.
- Cursory review indicates the NMAA support science fair competitions.
- Further clarification centering on science goal inclusion on EPSS is necessary.

Report of Great NMSU Projects

- Lisa Matthews-Holguin: MC² is a statewide collaboration of mathematics educator using research-based material focusing on PD for teachers and administrators pertinent to rigorous standards based instruction.
- Lisa Marrufo – *Scaling Up Mathematics Achievement* (SUMA) is a partnership between NMSU and LCPS to provide support for working on standards based alignments to change instruction the is directly tied to the EPSS . Over 100 classroom observations each semester observed for a standards based environment with mathematical practice imbedded instruction are linked to further professional development support tied back to MC²
- Susan Brown
 - *Science, Engineering, Mathematics, and Aerospace Academy* (SNM SEMAA) is an after school 8 weeks K-12 program in June and July with to provide academic enrichment and career awareness.
 - *Southern New Mexico Academy for Young Scientist* (SNM AYS) provides 150 out-of-school hours of STEM opportunities for grade 5-6-7 students and their families.
 - *Scientifically Connected Communities* (SC²) provides PD (K-12) and resources for teachers in 12 districts.
 - *Launch and Learn* is a PD for middle school teachers who will in turn hold a summer camp. Teachers and students will work with NASA and Spaceport America.
- Cheryl Coyle – Information of the Gadsden Mathematics Initiative (Grant ended in 2006) particularly how to create a classroom environment with teachers providing high quality standards based mathematical practice embedded program as compared to a traditional program. Additionally, unit assessments (9 per year) mirror the SBA; K-8 PD was every summer; and, math coaches were in each school
- Aaron Prescott – The Chief of Staff and Director Commercial Division of NM introduced the genesis, purpose, authority, and importance as a catalyst for economic development and education *Spaceport America*. The 2nd Annual Student Launch Program with school students was reviewed with opportunities to developing future STEM education programs.
- Cathy Kinzer - *Leadership Institute for Teacher* (LIFT) is building a community of mathematics teacher leadership within schools. Teachers participate in a three-week summer institute and meet during the school year to support and build from their practice. This is the first year of the cohort.
- Ted Stanford - Math *SNACKS* are innovative media mathematics content games and animations, accessed at <http://mathsnacks.org> , to provide students with another learning experience. Because an NSF Grant continues to fund the making of these games and videos, they classroom tested.
- Terri Hansen and Ligia Ford – A real world science-based inquiry activity requiring collaboration to design, build, and test wind turbines engaged all.

Race to the Top – June 1 is the due date for the written document guided by Sheila Hyde with consult from teachers and organizational representatives. The focus targeted on sections other than STEM, which is not changed. Stakeholders determined that there is political will that Race to the Top be had.

MSAC Membership

Council members (3-4 years) and council alternates (on year only) are sought. An application will send electronically and available on the MSB web site. Members are requested to share the application with qualified interested individuals. The council shared an overwhelming THANK YOU TO FRANNY for her work as president this past year. Melissa Lomax graciously awarded certificates of recognition to council members whose terms have ended.

MSAC Action

- A letter of support from the MSAC regarding addition of science goals to the EPSS could be given to Trish Wagner after having consultation with Franny.
- Brian Every will contact Trish Wagner regarding the MSAC's questions regarding the NMAA and the organizations current support for science.
- A group was delegated (Melissa Lomax, Franny Devers, Claudia Alhstrom, and Cathy Kinzer) to meet with the Secretary Garcia and Chris Mier (School and Family Health) regarding the inclusion of mathematics practice in a strand or separate written paragraph before the standards.
- Suggestion that the MSAC needs to invite people to meet us who are in positions to collaborate with us and call on us when decisions are to be made.

NEXT Meeting Date: Friday, September 17, 2010

SUBSEQUENT meetings on the third Friday of the months

November 2010 – January 2011 – February 2011 – April 2011 – June 2011