

## **Math and Science Advisory Council Meeting**

**January 27, 2020**

**10:00am to 14:20pm**

**Location: Udall Building Conference Room, 725 Camino Lejo, Santa Fe**

### **Minutes**

### **Present**

Wanda Bulger-Tamez

Scott Robbins

Glenda Leonard

Anna Suggs

Tanya Rivers

Yanira Vazquez (M&S Bureau)

Mollie Parsons

Bernadine Cotton

Dave Dooling

Ling Faith-Heuertz

Marcia Barton

Safiq Chaudhary (M&S Bureau)

1. Call to Order: 10:07
2. Welcome and Introductions: Guest - Jacqueline Costales Division Director Curriculum & Instruction
3. Review and approve agenda: Insert discussion of topics for Deputy Secretary meeting at lunch. Move adjournment time up to 2:20 to allow time for MSAC representatives to get to the meeting.
4. Minutes: Members approved minutes from October 7, 2019
5. (10:23) Selection of Co-Chair: Members elect Tanya Rivers to serve as Co-Chair
6. MSAC membership: Currently have a gap for the higher education category, one application is in hand. Also need a teacher or administrator representative - diversity would be great (rural, person of color, Tribal representative). Computer science specialist would be nice. Discuss outreach options.
7. (10:33) Updates
  - Sharing Report with Stakeholders: Small group discussions with outbrief with large group, school boards (Santa Fe, Espanola), one-pager would be nice to simplify information sharing. Discuss formulating a template for letters that would be sent by

MSAC members to various constituencies. Ideas included school boards, extra-scholastic STEM education providers, national laboratories, higher education, others. Message should be integrated with recent published summaries of NM PED strategic plan to address critical needs in the state.

- Consider assembling and publishing an extra-scholastic STEM education support resources catalog. Communication plan would be important to actually get the message to communities where the need might be greatest. Engage the service providers to get ideas on what the perceived needs might be. Use the input to shape advice for better meeting the needs of underserved communities.
- Legislative Initiatives - five draft bills have been added to MSAC shared drive. Proposed bills address teacher preparation, early childhood education, robotics, physics education, STEM college support for underrepresented students, and after-school & summer enrichment bill. Discuss various school year enhancement models, which could be funded by proposed legislation.

8. (11:32) PED update: Computer Science task force is engaged in formulating a Computer Science Strategic Framework. Open Sci-Ed pilot continues, Science Readiness for math continues, Science instruction innovation leadership initiative around Deming, Lordsburg is underway. Assessments are under construction, NM-MSSA (grades 3-8) for math, to be administered in the Spring 2020. Grades 5, 8, 11 consensus field tests in science NM Assessment of Science Readiness are ready to go, operational version should be out for school year 20-21.

- PSAT (grade 9) and SAT (grade 11) will be used this school year thereby establishing a comparable baseline for student performance. End of course assessments may be used depending upon district inclinations. Group discusses implications of using the SAT as an assessment of graduation readiness.
- Summer teacher institutes will be delivered in June. Recruiting facilitators for these institutes. Facilitator training in Las Cruces over Spring Break.
- Computer science allocations have been identified.
- NM Governor's STEM challenge summary. December 07, 47 high school teams shared their projects. NM industry partners provided funding to cover awards. NMAA has sanctioned the event to support sustainability.
- Christy Krennek recognized for her contributions to MSAC as the co-chair.

9. (12:07) Lunch / Shape message for Deputy Secretary Meeting. Discuss the role MSAC members might play in helping the M&S Bureau formulate the Mathematics Framework.

10. (12:51) Computer Science Professional Learning with Paige Prescott (Computer Science Alliance - see slide set in MSAC Google folder).

- Landscape of Computer Science in New Mexico and Nationally - Computer Science Teachers of New Mexico created, Computer Science Alliance to bring professional development resources to NM teachers and to include superintendents..
- Experiencing CS and the Standards - see “State of Computer Science Education 2019” in MSAC shared Google folder. Progression chart (CSTA, csteachers.org) shows how NM standards align with grade levels. May check out K-12 Computer Science Education framework.
- Resources to support CS - AP Computer Science Principles is highly recommended. Discuss “Girls Who Code” and other such programs provided in after school programs can raise access equity problems. The quality of such programs is not consistent...some good, others not as much. Code.org provides professional development resources to help teachers boost their teaching skills. 5-day minimum for upskilling high school students is common in code.org “principles” and other courses, designed for teachers with no prior knowledge in C.S. NNMC STEM Mentor Collective shows how undergraduates can play a leadership role in community outreach aimed at supporting C.S. education in K-12 schools. SCRIPT model for engaging vertical teams to evaluate their own ecosystem for C.S. education...Las Cruces, Santa Fe, and Farmington examples. Need additional facilitators to support teacher professional development across the state.

11. Next steps to support MSAC priorities: Working groups - Discuss who might work together to accomplish tasks.

- Math Framework - Scott, Glenda, **Tanya**
- One-page sharing docs, Mollie and Marcia will develop
- OST Working Group - **Ling**, Dave, Anna, Mollie
- C.S. Working Group (holding pattern until framework published) - Ling

12. Meeting adjourned at 2:21.