

Math and Science Advisory Council Agenda
October 1, 2013 12:00 PM Lunch Meeting 1:00-5:00 PM
NM Museum of Natural History & Science
Albuquerque, NM

1. Call to Order

Hy Tran called the meeting to order at 1:05

2. Introduction of Members / guests (roll call)

In Attendance

Mr. Tomàs Atencio-
Pacheco

Ms. Phyllis Baca

Ms. Terri Nikole Baca

Dr. John Bellum

Ms. Selena Connealy

Ms. Patricia DiVasto

Ms. Karen Kinsman

Ms. Malva Knoll

Mr. Zachary Leonard

Ms. Thansewi Martinez

Dr. Alexei A. Pevtsov

Dr. Hy Tran

Mr. Charles H. Walter

Absent

Mr. Karl Agar II

Ms. Ashley Ivins

Dr. Richard Sonnenfeld

Dr. Nader Vadiie

Guests: Marcia Barton, NM PED; Lesley Galyas, NM PED; Deb Novak, NMMNHS; Kathleen Payne, San Felipe School; Holly Baer, NMMNHS volunteer; Randall Gann, NMMNHS; Alicia Benevidez, IDEAL NM, NM PED

3. Approval of Minutes

a. Explanation of recording all meeting

Hy Tran and Malva Knoll described the discussion that was held over email about the inclusion of all comments in the minutes, not just those related to the agenda and motions.

Charles Walter made a motion to include all discussion in the minutes, not just those related to the agenda and motions; Tomas Atencio-Pacheco seconded. Motion carried

4. Approval of Agenda (Additions / Deletions)

John Bellum made a motion to approve the minutes; Phyllis seconded.

Discussion: approval of agenda should come before the approval of minutes.

Motion carried.

5. PED Announcements (Lesley Galyas)

a. Define NGSS report requirements from PED

Lesley will meet next week with the chief assessment person to lay out a timeline. The recommendation to adopt NGSS will be submitted for thirty-day public approval. The hearing schedule will depend on who would want to hold a hearing, which could include: Legislative Education Study Committee (LESC), Legislative Finance Committee (PEC), Public Education

Commission (PEC). Dr. Steven Pruitt of Achieve, Inc. has offered help and the possibility of providing an expert to testify at the hearing. He will also be sending materials and talking points to Lesley. An analysis will be done to compare current NM State Standards with NGSS. Lesley attended a meeting about NGSS assessment and heard from others that we need to move cautiously and not implement NGSS until Common Core has been fully implemented. Perhaps a four to five year rollout. MSAC members raised questions about implementation and teacher professional development. NMSTA and others stand ready to help with implementation

b. Explain New Mexico's No Child Left Behind Waiver NCLB

This waiver is 577 pages long. Look on A-Z directory on PED website to find PowerPoint presentations for more information. Lesley passed out a summary to us at the MSAC first meeting, and a one-page capsule. Going forward, MSAC must keep the waiver and subsequent strategic plan in mind.

6. Collective Impact Update (NM Partnership for Mathematics and Science Education)

a. Kinsman / Connealy

STEM Partners Committee: Getting STEM business and industry leaders together to craft a collective plan for STEM workforce development. How to measure the impact of successful programs.

Policy committee: MSAC has been resurrected. Supporting adoption of NGSS. Math and Science funding. Will look to other committees to generate policy initiative. Perhaps partnering with Rep. Bill McCamley in upcoming legislative session.

Preservice Teacher Committee: Examining course descriptions and working on ways for people to communicate across departments and schools in New Mexico.

Professional Development Committee: Preparing a set of best practices for teacher professional development to be presented to PED. Background report to look at issues like teacher evaluation, licensure, adopting new standards and providing adequate teacher professional development; what currently exists; models in other states; and development of a regional hub model for New Mexico teacher professional development.

Retain and Recruit Committee: Developing a survey to find out the status of recruitment and retaining programs STEM majors in NM secondary institutions.

Website Committee: UNM STEM-H is developing an online STEM database to profile STEM programs and connect STEM professionals to the classroom. The website will go live at the end of October at NMstemed.org. Phase II will have STEM career section, featuring STEM Buddies, and funded by a Title III grant flowing through NNMC. UNM small business institute has accepted proposal to work on a marketing plan.

Terri Nikole Baca said it would be nice to do a big public launch of the website, partnering with NM PED. Phyllis Baca said that she owns nmstemed.com, .org, etc. and she is will to transfer this to Karen Kinsman's group.

7. Committee Reports

Legislative Report Working Group (Hy/Knoll)

Hy Tran and Malva Knoll reviewed past legislative reports along with Lesley Galyas and Marcia Barton. MSAC is statutorily required to have this report to the legislature by November 30 and in

order to have it go through editing at PED, MSAC must have the report ready to go by October 31.

Status of PED Statistics for Legislative Report (Galyas)

Lesley Galyas obtained the current statistics to include in the report. Marcia Barton reformatted many of the graphs and tables. Science is assessed at 4th, 7th, and High School.

8. Old Business

a. Discuss information and relationship from Math Science Partnership

Addressed above, with Collective Impact Report

b. Discuss changes and/or addition to MSAC action items for working groups

MSAC members worked in small groups to address different sections of the report.

Student Data: Phyllis, John and Alexei

SAT/NAEP: Charlie and Tomas

Course-taking Patterns: Pat and Karen

AP and Remedial: still waiting on data from the HED. Phyllis offered that SFCC students are about 80% remedial for English and Math.

Activities of MSAC and PED: Lesley, Zach and Selena

Critical Issues to be Addressed: To be addressed after other sections are completed.

Reports from the Working Groups were as follows:

NAEP data—New Mexico is scores low in NAEP, but which areas are low? What are the reasons for this? How do we move forward?

AP—several exams had very low participation numbers, e.g., computer science.

EOCs—things will be changing when these are implemented.

Context—do we include demographics in the report?

National and International Benchmarking—we know how to make real gains, philosophically, but how do we help to move in that direction operationally? How do we ensure that we are cohesive so that our focus has greater impact?

Testing in Science—we don't test in science, so it doesn't "count." PARCC assessments will have a science literacy component.

Maybe there are too many science classes—if students only need three courses, why are there 15 different science classes? How will this change when/if NGSS is implemented?

Course trajectory for mathematics in high school.

NGSS—what needs to be in place in order to fully implement these: professional development, materials adoption, equipment.

On-line Professional Development options through PED's Blackboard Content Management System. Keeping up with changes in technology.

Zach Leonard remarked that we need to create a sense of urgency. Marcia Barton pointed out that this report will lay the foundation for future MSAC work. Legislators do read this report and ask questions. There are 22 other final reports coming out of PED. John Bellum recommends that we be succinct and efficient.

Explain use of three summary documents to establish MSAC role (Knoll)

Kids First 2012 Strategic Plan; New Mexico Project 2012, Collective Impact Committees

Malva Knoll discussed a matrix of activities from the three summary documents. Hy Tran offered the option of being strategic in the next meeting based on this document.

9. New Business

a. Select topics for discussion of MSAC working groups

b. Assign MSAC members to working groups

c. Prioritize report for MSAC working groups

Discussion of new business was tabled, with the exception of the work on the report, in Old Business, above.

10. Action time with working groups (1.5 – 2 hours)

See Old Business, above.

11. Schedule of Next Meeting

November 12, 1 to 5 pm in Albuquerque. CNM Workforce Center, tentative location. Lunch sponsor TBD.

12. Call to Adjourn

Karen Kinsman made a motion to adjourn; motion carried and meeting adjourned at 4:50.

Discussion Items

Hy Tran will send us an article about how STEM professionals are counted.

How do we maximize our time and our collective impacts? How to avoid being siloed? Should we do some homework on initiatives before next meeting? Zach Leonard and Marcia Barton are doing work on teacher professional development and they could make a presentation at the next meeting.

How can we promote innovation and increase capacity?

Possibility of presentation by Alicia Benavidez, IDEAL NM. This is an amazing resource in New Mexico.

Malva Knoll suggests that committee members should send professional articles via the listserv.

We need to prioritize and focus our work. Selena Connealy offered to facilitate a prioritization session at the next meeting.