

Math and Science Advisory Council Agenda  
Friday, February 6, 2015  
10:00am to 4:00pm  
Southwestern Indian Polytechnic Institute

1. Call to Order (10:13am, Selena)

2. Introduction of Members / guests (roll call)

Mr. Karl Agar II  
Ms. Phyllis Baca  
Dr. John Bellum  
Ms. Selena Connealy  
Mr. Nathaniel Evans (new member)  
Mr. Joe Hastings (new member)  
Ms. Suzanne Johnson  
Ms. Karen Kinsman  
Ms. Malva Knoll  
Mr. Zachary Leonard  
Dr. Nader Vadiie  
Dr. Alexei A. Pevtsov  
Dr. Richard Sonnenfeld (absent)  
Dr. Hy Tran

Do we have quorum? Yes. Attendees also include Lesley Galyas & Marcia Barton from NM PED MSB.

3. Approval of Agenda (Additions / Deletions)

Selena wishes to move item 8 forward to before lunch, so Phyllis B & Karen K can go to meet Congresswoman Lujan-Grisham and/or staff. Phyllis moves to accept change of agenda, Malva seconds, agenda modification passes.

4. Approval of Minutes. Minutes are e-mailed as google doc link. Photos of easel notes to be incorporated as part of minutes. Need to correct that PARCC is only for math, not science yet. Karl moves to approve (as corrected), Alexei seconds. Minutes (as corrected) will be given to PED to post on MSAC minutes on PED site.

5. Meeting Goals

Further develop our Strategic Framework  
Set milestones and work product completion dates for the year  
MSAC professional learning to support Strategic Framework and goals development  
Develop action plans

Discussion of importance of setting goals. Our required report in October is really coming up soon (believe it or not).

6. Logistics/Setting the Stage

- a. Designate a facilitator, time keeper, and recorder
- b. Group team builder—why are you passionate about STEM? What do you bring to MSAC?
- c. Quick review of agreed upon group norms —fundamentally, be respectful—both of others and of new ideas

7. PED Updates (Lesley and Marcia)

- a. New MSAC members (Suzanne, Nathaniel, and Joe)—already introduced at start of mtg
- b. NGSS Teacher Focus Groups (part of Lesley’s report—ask Lesley for ppt for incorporation into minutes)
- c. Other
- d. Q&A—Lots of Q&A from MSAC to Lesley during her presentation.
- e. Additional comments discussions on PD, 5/29-5/30 STEM symposium, PAEMST awards, more PD MC^2 throughout state.

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Small group discussion (item 10) Go to this item now. 3 small groups, the two questions: Does the handout (based on Texas strategy/Theory of Change construct) capture needs & priorities that have been identified by MSAC at last meeting? Is it an effective communication tool with stakeholders? (policy makers, STEM industry/employers, teachers, higher ed)? How to improve the tool?

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Lunch (Sponsored by SIPI) Presentation by SIPI culinary dept. chair on importance of technical education (do not target solely science/engineering) prior to lunch.

8. STEM Collective Impact Team Report (Karen Kinsman)—Team has not physically met, website work is still working, communities of practice, redesign of overall look, making it more navigable (navigateable?) Preservice, K12, higher ed, business industry subcommittees still going. Q about follow up. what’s next. Two bills out there: Algebra 2 waiver memorial; EARS (educational accountability reporting system) report (how many teachers in pre-service, etc.—what’s the teacher pipeline look like). Change in licensure. Currently, 9 hrs of math credits required for licensure (for any license). Now, a proposal out there for 3 hrs of math credits. Where did this come from? A question about House memorial 21/Senate memorial 30, NM private sector education partnerships? Some discussion of NMPMSE & MSAC complementary activities.

Report from Phyllis/Karen for federal discussion w/r/t Congresswoman Lujan-Grisham. Phyllis/Karen leave.

Report from small groups: Report from group 2:

Notice that educational equity row was very general, but high educational stds is specific. When seeking \$, don’t say “need more studies”, but “figure out ways to penetrate kids’ firewall” Lose them in mid-school, they will never come back. Need references. How to measure strategies & know they’re successful? Language should be understandable by non-jargonists. Strategies language is too generic. Not necessarily measurable.

Group 1 report: Highly trained STEM teachers & strong ecosystem needs could be bridged; strategy could be professional learning /development & professionals; direct link teachers serve 10 wk summer internships in the professional community as an example. Working in the field vs teaching the field. How can we promote paid PD for teachers thru our industry & other stakeholder partners. If you cannot improve income, the teachers will leave. Develop statewide vision for STEM education—

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ought to be in the “Needs” box. First thing someone sees should not be “study more.” Using the Theory of Change as communication tool.  
Group 3: Eliminate jargon. Professional learning, professional development, typical language used nowadays is “Professional Development” (try not to use Professional Learning). PL is less well known, but is more accepted in the specialist community. PL incorporates continuous improvement, PD does not. Say “Continuous improvement.” We need a non-jargon-meister. Specificity of strategies—develop a family of 1-page “policy briefs”. We have our annual report, & the TOC & policy briefs should point to MSAC annual report. Who is the audience? How do we communicate to a diverse audience of stakeholders? Use complete sentences, use references. Bigger picture, & convince to prioritize STEM; sense of urgency. More concrete action plans in strategy that is “NM-specific.” References in strategies that are NM-centric. Don’t do “study” or “analyze” in the TOC document.

Need to align w/ strategic levers.

Selena & Zach would like to invite smaller subcommittee for wordsmithing. Proposal: Title is “Statewide vision for STEM education.” (STEM education improvement)?

Lunch (Sponsored by SIP)

#### 9. MSAC Professional Learning (Zach)

Solving Math Word Problems and Story Telling and “New Holistic Math Classroom Set-up” (Nader)

Nader presents his presentation.

~~10. Strategic Framework Work Session~~

Break

#### 11. Planning Future MSAC Work

- Purpose of this document, audience of document
- How do you move forward

Document “STEM vision for NM” (or similar words), representing major issues that we think are important that we can influence. Our annual report will back up, and we can choose (or not) to go in depth on some of these. In depth part—this is how NM can accomplish/implement.

The writing subteam is Malva, Marcia, Nathaniel, Zach, Selena.

#### 12. Sunshines and Blues (descriptive feedback on the flow, process, or content of the meeting)

#### 13. Call to Adjourn

Nathaniel, Joe & Karl seconded, unanimous at 3:59pm.

Future MSAC Meetings

Thursday, March 19, 10-4 at TBA (Explora)

Thursday, May 14, 10-4 at TBA

Thursday, September 10, 10-4 at TBA

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