

**Minutes**  
**Science and Mathematics Education Center**  
**Advisory Board Meeting**  
**Thursday, September 22, 2005**

**CALL TO ORDER**

The presiding Director, Katrina Mangin, called a regular meeting of the SAMEC Advisory Board Meeting to order at 3:35 p.m., September 22, 2005, in conference room #105 of the Charles P. Sonett Space Sciences Building, 1541 E. University Boulevard, Tucson, AZ 85721. A quorum was present, including:

Steve Brown	Rachel Hughes	Katrina Mangin
Thea Canizo	Selina Johnson	Lisa South
Chris Donovan	James Knight	Suzanne Westbrook
Dee Fife	Elliott Lax	
J.D. Garcia	John Madden	

**NEW BUSINESS**

Dr. Mangin introduced herself as director and gave a brief biography. The individual group members in attendance then gave brief introductions.

Dr. Mangin discussed the Sunset review and recommendations from the Sunset Review Committee (Mike Wells, Fred Stevenson, and Marleen Kotelman). They are as follows:

- Extend review time through this fall
- Make sure that SAMEC goals align with resources
- Have clear communication to remove duplication
- Clarify the connection to UA Science Center
- Connect with UA outreach
- Collaborate with NAU and ASU
- Consider change to "SEC" (removing Mathematics) unless a closer connection is shown

The committee then discussed the recommendations.

The following comments were made.

- Feels needs assessment is a good idea
- Prioritize what can be done and what they can do
- Sees SAMEC as clearinghouse on campus
- Need increased promotion of what we are doing
- General promotion of science and math
- Coordination of efforts of what is going on
- Try to identify programs similar under a program category
- Help faculty determine how they might be more effective in outreach components
- Discuss how to set up new course/facilitate teacher's professional development
- Partner with Flandrau to provide programs and outreach
- Keep up-to-date calendar and list of events on campus
- Summer camps-College of Science/Flandrau coordinate programs

- Work with Desert Museum on Earth Camp
- Discussion of the role of SAMEC and how it fits in with missions of other areas
- Recommend that other parties have representation (ie. Business community)
- Recommend asking Stacy from Flandrau to be a part of the advisory committee

Specifically regarding the name change, members expressed concern at the idea of removal of mathematics. They felt that the name recognition factor was extremely important. Also, SAMEC was originated by a policy approved by the Board of Regents. It was felt that the committee needed to determine whether the change in name and/or mission would be in violation of policy.

The group believes that teachers see SAMEC as an organization that promotes professional development opportunities and they rely on it as a source of available programs. A recommendation was made for the Arizona Science Coordinators Association to have more involvement with SAMEC.

It was questioned whether more could be done to promote the GEMS kits and guides.

The committee supports the continuation of the Science Teacher's Colloquium Series. There was also discussion on doing seminars in a series focusing on specific topics of interest to teachers and current issues, for example, one will be presented this semester on teaching evolution.

Dr. Mangin prepared a list of topics for break-out sessions. Groups were formed and after discussion, they shared ideas with the committee.

Attached (Exhibit A, B, & C) are the questions and the comments generated through discussion.

Members talked about designing the needs assessment. A recommendation was made to look into using Survey Monkey to gather data.

After comments were shared, the committee suggested scheduling an additional meeting. The time and place has yet to be determined.

## **ADJOURNMENT**

There being no further business, the meeting was adjourned at 5:10 p.m.

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Dr. Katrina Mangin  
Director

**Exhibit A: Breakout Session**  
**Question “A” Comments**

“Generate a “wish list” from K-12 community to UA science and math faculty (e.g., lectures, classroom visits, types of professional development, materials, advocacy with K-12 administration or state legislature). Imagine a list on a SAMEC webpage that UA faculty can visit if they want to volunteer some time, or if they want to design an outreach program that is a required part of a grant proposal—what would it look like?”

**Exhibit B: Breakout Session**  
**Question “B” Comments**

“Generate a “wish list” from UA faculty and staff to SAMEC (e.g., how to advertise outreach programs and courses, what do schools need and want re: outreach, ways to volunteer in an existing program, what are examples of some great STEM outreach programs on-campus and nationwide, who to contact for assessment and evaluation). Imagine a SAMEC webpage with this kind of outreach information for faculty- what would it look like?”

- Support for outreach programs
- Communication to K-12 community of relevant activities within department
- Generation of contacts, statistical data for outreach grants
- Conduit for faculty who want to help in K-12 system to do lectures and for requests from teachers for particular explanation needs
- Role as conduit for proactive supporters of science issues for presentation to administrators
- Power point slides for summarizing outreach activities within the UA for use by UA faculty and administrators and members of the public (e.g., legislators)

**Exhibit C: Breakout Session**  
**Question “C” Comments**

“Generating interest in science and math among high school students-ways the UA and SAMEC can help.”

- Consider service learning model-City High School-defining outcome as project moves along
- Student work is part of science center exhibits
- Give students opportunities for real-life experience, project-based learning
- Consider paying salaries/stipends for student participation (some students have to choose between working and participating in activities)
- What opportunities are available for teachers to bring students to on campus? Give them access to a list
- Find UA faculty willing to take on high school students to plan a unit of study which the student will present
- Provide access to an all-inclusive calendar of events at UA (lectures, etc)
- UA faculty consider going to school sites for presentations to students/teachers
- Communicate procedure for volunteering at schools-support volunteers in the process
- Get in touch with outside business/science community-form a “speakers bureau”
- Offer a science/math job fair for students, organized by SAMEC
- Student outreach better coordinated-create booklet of programs for HS student intern programs
- When planning grant activities be aware of (participation) cost issues-many students cannot afford