

**Supercomputing Challenge
Board of Directors Meeting February 8, 2011
New Mexico Tech**

Minutes

12:05 PM **Action:** 1. Call to order by vice president Ed Angel

12:06 PM **Action:** 2. Quorum Ed Angel

Board Members Present:

Ed Angel	Yes_____
Bill Blackler	phone_____
Bob Bolz	Yes_____
Shaun Cooper	_____
Ron Davis	phone_____
Celia Einhorn	Yes_____
Betsy Frederick	Yes_____
Tony Giancola	phone_____
Stephen Guerin	_____
David Kratzer	Yes_____
Victor Kuhns	_____
Irene Lee	phone_____
Lorie Liebrock	Yes_____
Debra Loftin	_____
Bob Robey	_____
David Rogers	Yes_____
Tim Thomas	phone_____
Mike Topliff	Yes_____

Others Present:

Thomas Bowles and Eleanor Walther, via phone_____

Nico Moreno_____

12:06 PM **Information:** 3. Introduction of Board Members Ed Angel

12:07 PM **Action:** 4. Approval of Agenda Ed Angel

Motion by: Ms. Einhorn_____

Seconded by: Dr. Liebrock_____

Vote: For: All___ Against: _____

12:08 PM **Action:** 5. Minutes of Previous Meeting David Kratzer

Motion by: Ms. Frederick_____

Seconded by: Dr. Topliff_____

Vote: For: All___ Against: _____

12:10 PM **Information:** 6. Treasurers Report Mike Topliff
Checking account balance is \$46,000 and there is \$118,110 in CDs. Perkins grant was signed, it ended up being \$15K. STI-PED hasn't been billed by NM Tech due to the need for an amendment to the contract since it wasn't signed prior to the holding of the STI. Budgeted 270K but don't have that in income so we are drawing on reserves. We received \$15K from EPSCoR and we will invoice for another \$9K. The bank we use was taken over, but we didn't lose anything.

12:25 PM **Information:** 7. Fundraising committee report
The committee has been having conference calls looking at different granting foundations. Did not get Google RISE grant, but Sandia is paying Ms. Frederick's salary. David Rogers will join the fundraising committee.

12:35 PM **Information:** 8. Personnel issue: Replacing Betsy Frederick at local activities Ed Angel
Ms Frederick is planning to move to Connecticut in August. We need to have a personnel committee, to oversee staff contracts and issues. Initial committee will be the President, Vice President, Treasurer and a representative from the staff, (so Ms. Lee, Dr. Angel, Dr. Topliff and Mr. Kratzer). A motion was made to create the personnel committee.

Motion by: Mr. Bolz _____
Seconded by: Dr. Liebrock _____
Vote: For: All___ Against: _____

12:45 PM **Action:** 9. Board Member Issues Ed Angel
The resignation of Mr. Victor Kuhn was accepted (he doesn't currently have the time to devote to the board but wants to continue to be involved with Challenge events). A motion was made to add Dr. Thomas Bowles, CEO of the New Mexico Computing Applications Center to the board. There was also a discussion to nominate Dr. Richard Oliver of NMSU to the board.

Motion by: Ms. Frederick _____
Seconded by: Mr. Kratzer _____
Vote: For: All___ Against: _____

12:51 PM **Action:** 10. Formation of New Committees Ed Angel
The Personnel Committee should look into the recruitment of new board members. A Grant Writing Committee (which is part of the Fundraising Committee) will work on the Google CS4HS grant. There should be one thrust for research proposals and one for getting business support. We reviewed of the role of the executive committee. Is there a need? There should be a way to make important decisions quickly. A motion was made that the executive committee is the four officers of the Challenge.

Motion by: Dr. Liebrock _____
Seconded by: Mr. Kratzer _____
Vote: For: All___ Against: _____

The Strategic Planning Committee will consist of Mr. Blackler (who is willing to coordinate) and Dr. Bowles and Ms. Lee and Dr. Angel and Mr. Rogers. A motion was made that the Strategic Planning Committee be officially sanctioned.

Motion by: Dr. Liebrock _____
Seconded by: Mr. Bolz _____
Vote: For: All___ Against: _____

1:00 PM **Information:** 11. Strategic Planning

Irene Lee

Ms. Lee and Dr. Angel met with Governor's chief of staff, Keith Gardner.

How to get more teachers of Computer Science? Need to get an endorsement or memorial through the Legislature to support that. The Secretary of Education and Governor are together on Education. They also met with Sheila Hyde (Deputy Secretary of Education) and Phil Baca to familiarize them with the Challenge and GUTS. We need to show ties between what we do and literacy scores (difficult to get). New administration might make data more available.

Report out on Computational Thinking in America's Workplaces project (Eleanor Walther/ Irene Lee)

Meeting in Santa Fe of Sandia, SFI and LANL staff to discuss what computational thinking abilities they need.

Report out on meeting with Lorie Liebrock, NMT MST program / CS program

How to get CS certification available to new teachers? Twenty-four credit hours of classes are needed for new teachers. Current teachers would only need to pass a test (which hasn't been written yet) to get the endorsement.

Relationship with Innovate-Educate

Several board members met with Jami Blivin and Tamara Bates about working with them. IE is working on a "southern hub" of activities. The hope is that they will get money and that the Challenge will benefit from that. Ms. Frederick is working closely with the southern hub people. Does Innovate-Educate money flow to the kids?

Report out from Betsy on progress in the South (Las Cruces & Gadsden)

Things are going very well.

Report out on CSTA K-12 National Standards for CS education (Irene will type up)

Ms. Lee is working with a group coming up with a curriculum for K-12. Draft should be available the middle of March.

Report out proposals in the works - (CE21 type 1 & 2; ITEST) (Irene will type up)

Computing Education in the 21st Century, grant needs to go through a university, probably NMSU. This grand does not have restrictions against competitions. (Won't fund awards, but will fund program.) Should we promote teacher education or come up with a curriculum for the Challenge year? We need to make gains in all areas. Get endorsement in place, etc.

1:50 PM **Information:** 12. Upcoming Conferences/Outreach Events

Betsy Frederick/Celia Einhorn

STEM conference in Las Cruces in early April. On Feb 12th, School to World conference in Albuquerque. Three Challenge reps will be there. Tours of Sandia and UNM on for March 7th. Expanding Your Horizons conferences: 300 girls at the conference at Central New Mexico (CNM) on Jan 29th. Broadening Participation in Computing workshop at New Mexico Society for Technology in Education (NMSTE), keynote by Ann Gates of University of Texas El Paso (UTEP) We have organized the Saturday morning keynote session with two follow up session on Stuck in the Shallow End and such topics. Innovate Education will cover the costs of having Ann Gates coming.

2:05 PM **Information:** 13. Curriculum development for SC

Celia Einhorn

Proposal to develop a 5 week Intro to Computational Science (for those who don't attend the KO) and a second 5 week unit for both KO and non-KO participants. That is a good idea. Have a control group that doesn't goes through the class and see how they compare. Dr. Angel will

have a UNM graphics class at the Santa Fe Complex and maybe we can have Challenge students involved, or access the modules. Maybe some modules could be taught at the Kickoff. There may be the possibility of dual credit through UNM or IDEAL-NM.

2:10 PM **Discussion:** 14. Social Networking

Irene Lee

GUTS y Girls started using “Call-em-all” service to broadcast phone messages and text messages. Is this something the Supercomputing Challenge would want to do? Many students want text messages over phone or email. Need to keep looking to see what is available. Thanks to Ms. Lee we do have a Facebook Supercomputing Challenge group that has about 120 members. GUTS y Girls has their own private social network (Social Engine) for announcements and mentoring. Need a subcommittee to look into how to take advantages of social networks. Ms. Frederick, Ms. Lee and Dr. Thomas will look into asking some of our younger instructors in the Challenge to help.

2:18 PM **Discussion:** 15. Topic for next Challenge year:

Josh Thorp

The Power of Diverse Groups. Social Science. Discussed GUTS HS unit developed with UMich group, NetLogo model, and book “The Difference” by Scott E. Page - ties in (thematically) with the push for Broadening Participation in Computing. There are computational models showing why diverse groups are powerful. In order to continue to get EPSCoR monies, we need a climate change component. We can do the power of diverse groups and who are involved in the climate resources.

2:25 PM **Discussion:** 16. Other Discussion

- Cybersecurity summer camps?

Past Challenge participant, Neale Pickett is running capture the flag type of events in conjunction with the Challenge competition.

- Access to supercomputers?

One team is using the NMCAC Exemplar at NM Tech. Could use machines at LANL or Sandia. Dr. Liebrock got a grant from Nvidia and will get graphics cards running CUDA

- New Supercomputing Challenge tracks for different industry sectors: Graphics, Cybersecurity
- Website redesign of curriculum area

DJango/Google provides ways to prepare and present online courses without cost, for mid and high schools.

- Better use of online tools

Maybe use Google apps

- Online mentoring capability

2:55 PM

17. Adjourn

Dr. Liebrock moved we adjourn, so that some folks could meet with NM Tech administration to discuss holding the 2011-2012 Kickoff at NM Tech.

Next meeting will be on 10 am Tuesday, May 10th, at Sandia. Make sure to bring your driver’s license.

Future meetings are schedule for August 9th 10-1:00 SFI and November 8th 10-1:00 at NM Tech.

President _____

Secretary _____