

OPAS Initiative Motivate Workgroup
Summary of Planning Meetings, January 12, 19, and 25
And activity as of January 30, 2007

Attendees January 12: Ben Manny and Eileen Boerger

Attendees January 19: Ben Manny, Eileen Boerger, Jo Oshiro, Bruce Schafer stops by.

Attendees January 25: Ben Manny, Eileen Boerger, Jo Oshiro

Workgroup Tasks: These are points of agreement, perhaps subject to further evolution.

- Focus on a few, well-defined items that can be completed in 2007.
 - We want to get something concrete and measurable done; meetings are not enough.
 - Metrics
 - Contact time
 - Others?
 - We can always take on more later
- Consider amplifying an existing program to increase its PR/ motivation value
 - E.g., MESA
 - Ben and perhaps Eileen will attend the NOISE (Network of Informal STEM Educators) conference at OMSI on February 5. Ben will host a table for one of the working session, so ought to get a more in-depth acquaintance of 30 of the attendees.
- Consider tapping into Oregon's smaller companies – they may be able to increase encounters students have with STEM.
 - Focus on volunteer time, not money
 - Make volunteer time easy
- Determine what students spend their time on doing the most (hanging out with friends, watching TV, surfing internet, group activities)
 - Adults they are likely to encounter
 - How can we target STEM motivation from these?

Conceptual Model: The Phases of Motivation – this may be useful in thinking about complete coverage of motivation, use of resources, and planning, and will be presented to the workgroup as a possible tool.

- *Awareness:* Student is aware of various STEM careers and opportunities.
- *Encounter:* Student encounters STEM first hand – attends an ORTOP competition, hears a STEM speaker, visits a STEM museum.
- *First Engagement:* Student experiences a STEM task first hand, over time – on a robotics team, a Saturday Academy class, an intense summer camp.
- *Commitment:* Student pursues a STEM career path with enough conviction to overcome early course failures, bad experiences, confusions, and non-optimal.

Kick-off Plans: To optimize workgroup productivity, a face-to-face meeting has been scheduled Thursday, March 1, 8:00 am to 1:00 pm .

- Meeting outcomes:
 - Agreement on what we want to focus on
 - Ready to start some action - assignments
 - Metrics

- Flow of the Day:

Time	Event	Notes
8:00	Breakfast served	
8:30 – 8:40	Welcome and Introductions – poll <ul style="list-style-type: none"> • Their vision of success for this workgroup <ul style="list-style-type: none"> ○ After 1 year ○ After 5 years • What is the major inhibitor to increased enrollment? • Why are you interested in being in the Motivate workgroup? 	Round robin to maximize interaction
8:40 – 10:00	Overview <ul style="list-style-type: none"> • Mission • Phase Model – does it work? • Target Audience • Existing Programs (see “Homework” bullet below) <ul style="list-style-type: none"> ○ Don Domes’ Classroom ○ Dick Knight’s email – Engineering Challenge • Straw Proposal 	Ben and Eileen will divide up these programs to pick the top X; how to increase participation? Ben and Eileen will go over the straw proposal at the next planning meeting(s)
10:00 – 10:15	Break	
10:15 - 11:15	Brainstorming <ul style="list-style-type: none"> • What is missing? • How do we connect to small companies? 	
11:15 – 1:00	How do we translate this into action? <ul style="list-style-type: none"> • Process • Metrics • Assignments * Come up with 3 tasks *	
12:15	Lunch is served	
1:00	End	
1:15	Complete cleanup	

- Meeting logistics:
 - Conference Room in Suite EB 500, in PSU’s Fariborz Maseeh Engineering Building.

- Coffee service, a continental breakfast (fruit, minibagels, a light sweet such as donut holes) and box lunch (wraps) will be provided. Jo and Endi Hartigan of the Chancellor's office will make arrangements with PSU catering. Anticipated cost is less than \$500.
- Bruce Schafer has agreed to underwrite sub costs (\$162) for high school teacher Don Domes, at the request of Ben and Eileen.
- OPAS will also pay for validating parking under the Engineering Building. Send out instructions, including how to get from the garage to EB 500. (Parking garage is under both buildings).
- Meeting materials:
 - InFocus projector and laptop – wireless hookup not needed
 - Agenda packets (no fancy folders necessary)
 - Post-it flip charts (we have a good supply), markers, easels
 - Pens, tablets
- Homework:
 - Thought problem: How do you take national work and make it more relevant at the state level?
 - Look at existing programs; summarize and categorize these by phase addressed and by focus:
 - Parents
 - Students
 - Teachers
 - Resources:
 - OPAS Binder (<http://opas.ous.edu//materials.htm>). Tables of Contents were handed out at the meeting of January 25; the profiles embedded in these chapters have not been updated since September, 2005.
 - Chapter 4: Programs, Initiatives and Classroom Curricula, National and Other States
 - Chapter 5: Programs, Initiatives, Co-curricular, Oregon
 - Chapter 9: Organizations, Oregon
 - Chapter 10: Organizations, National and Other States
 - [“Fostering STEM Diversity”](#) by Eda Davis-Butts for the OPAS Diversity Committee, may be useful as a program filter or criteria.

Invitations and Recruiting: Invitations were sent via email on 1/25/07; Jo has also done some phone/email recruiting. The invitation letter will also be posted to the workgroup webpage as soon as Jo resolves a Word-to-pdf problem.

- Core team/ advisory team model:
 - Core team members attend all meetings, and committee assignments outside of meetings. Estimated time is a day a month.
 - Advisory team members attend the kickoff meeting, commit to reading all meeting notes, and take on small tasks and field questions on an as-needed basis. Examples of such tasks are document review, networking, etc.
- These people have said yes:
 - Don Domes, Hillsboro High School
 - Roger Rennekamp, Head of OSU 4H

- Kathryn Schwartz, SAO Foundation
- David Coronado, MESA
- Mary Beth Horton, BEC
- Sue Ann Bottoms, SMILE
- Di Saunders, OUS, has asked to be kept in the loop as the advisory member with marketing/ communications expertise.
- Additional recruiting
 - Harvey Mathews, new president of the SAO (Eileen)
 - Wendy Hawkins, Intel Foundation (Ben – oenophile connection; perhaps Bruce will come to this meeting as well, Feb 20 or 21)
 - Mary Fehrs, retired chair of physics at Pacific U (Eileen – oenophile)
 - Eileen Drake, friend of Eileen Boerger, has marketing expertise; EB will talk to her.
 - Jo will followup with non-respondents Joyce Cresswell, Carla Faini, David Johnson, Valeree Lane, Todd Sanders, Ray Vandiver, Celeste Baine, John Vinson, Dan Arnold, Jim Troisi, and Rane Stempson.
 - Currently we have no coverage:
 - University undergraduate
 - Community College

Web Support: The Workgroup Webpage is under construction; a partially filled template is available at <http://opas.ous.edu//Workgroups2007/Motivate.html>. Comments welcome. An index to the workgroups is available at <http://opas.ous.edu//Workgroups2007/index.html>, and also from the link “[Workgroups07]” on the OPAS Initiative home page at <http://opas.ous.edu//>.

Additional action items for Jo:

- Review email conversation re: Engineering Challenge
- Get participant list from NOISE to Ben and Eileen
- Verify Mary Fehrs’ contact info given to Eileen
- “Fostering STEM Diversity” to Ben and Eileen
- Investigate:
 - Intel Teachers of the Future
 - UT Austin – creating more physics teachers – *probably the UTeach program - <http://www.uteach.utexas.edu/>*
 - Design Squad TV program
- Talk to Heather Burson, Eileen’s admin re: catering. She has great ideas at a good price point.
- Work on updating OPAS Materials profiles.
- Finish web support skeleton and start adding meat.
- Place order with PSU catering

Next Meetings:

- Tuesday, February 6, 8:00 – 9:30 Capital Center
- Friday, February 23, 9:00 – (10:30?) Capital Center
- Note that Ben will be out of town February 7 – 17; Eileen goes to Vietnam in April