

INDUSTRY ADVISORY BOARD MEETING MINUTES

June 11, 2008

Hosted and Chaired by Edgar Camerino of Rick Engineering Company

I. WELCOME

The June 11, 2008 San Diego MESA Alliance Industry Advisory Board Meeting was called to order at 1:36 pm by Edgar Camerino.

II. Introductions

Members Present

Name	Company	Phone	Email
Bakhiet, Ph.D, Raga	Southwestern College MESA	(619) 482-6381	rbakhiet@swccd.edu
Camerino, Edgar	Rick Engineering Company	(619) 271-0707	ecamerino@rickengineering.com
Farag, Michelle	SD County - Dept. Public Works	(858) 874-4018	michelle.farag@sdcounty.ca.gov
Forbes-Celise, Natasha	SDSU MEP	(619) 594-7704	ncelise@mail.sdsu.edu
Gonzalez, Angel	SDSU MSP	(619) 594-0310	agonzalez@projects.sdsu.edu
Gooden, Carol	NASLAND Engineering	(858) 292-7770	carolg@nasland.com
Jackson, Katy	Qualcomm	(858) 651-3338	katyj@qualcomm.com
Landau, Cynthia J.	Rick Engineering Company	(619) 291-0707	clandau@rickengineering.com
Lutes, Brianna	IEC	(858) 413-2400	blutes@iecorporation.com
Pamintuan, Eric	MESA/STEP	(619) 594-7419	epamintuan@projects.sdsu.edu
Ponomarenko, Ph.D, Alyson	SD City College MESA	(619) 388-3393	aponomar@sdccd.edu
Rower, Judith	BAE Systems	(858) 592-5547	judith.rower@baesystems.com
Schlotte, Wedad	NAVAIR Depot North Island	(619) 545-1957	wedad.schlotte@navy.mil
Thomas, Chris	CALTRANS	(619) 688-3620	chris_m_thomas@dot.ca.gov
Villanueva, Angeline	MESA/STEP	(619) 594-2680	anvillanueva@projects.sdsu.edu

Guest(s) Present

Name	Company	Phone	Email
Ondevilla, Nilo Shaw	SD City College SHPE	(619) 955-2395	olinallivedno@yahoo.com
Villarreal, Karen	Sempre Energy Utility – SDGE	(858) 654-1516	n/a

Notes

- Angel Gonzalez apologized for Jeanette Ramos' absence on her behalf as she had a last minute emergency to attend to.
- Most of the events occur on an annual basis and around the same date and time.
- Requests for electronic versions of distributed documents can be sent to epamintuan@projects.sdsu.edu.

III. REVIEW AND APPROVAL OF MINUTES (April 9, 2008)

A motion to approve the revised minutes of the April 9, 2008 meeting was made by Raga Bakhiet of Southwestern College MESA and seconded by Natasha Forbes-Celise of SDSU MEP; the minutes were then approved.

IV. PROGRAM UPDATES (all information, unless otherwise noted, given by MESA Directors)

A. San Diego State University (SDSU)

i. MEP

- Graduation and Scholarship Banquet (May 1, 2008)** – Approximately \$25,000 worth of scholarships were donated by the following companies: BAE Systems, Hamilton

Sundstrand, MESA Statewide (MEP alumni), Northrop Grumman, Project Design Cons., QUALCOMM, Rick Engineering, SDG&E, and SONY. Additional monies not counted in this projection were also donated after the banquet. For the past 5 years there has been a total of more than \$100,000 donated to MEP.

- b. **Fall Recruiting** – Applications were mailed to students beginning in May and are available online. Fall 2008 recruiting will focus on freshman and physical science majors, though MEP can also take a small amount of continuing students due to funds available from the NSF STEP grant.
- ii. **MSP / Imperial Valley MSP** (Angel Gonzalez spoke on behalf of Donna Goyer and Jeanette Ramos)
 - a. **MESA Days (Saturday, March 15, 2009)** – Approximately 15 local middle and high schools will compete at SDSU. The winners will compete against other MSP's and at Jr Regional MESA Days.
 - b. **Jr Regional MESA Days (Saturday, April 18, 2009, 8:00 AM – 4:00 PM)** – It consists of 400+ local middle and high school students who compete in different types of competitions such as Mousetrap Cars, Egg Drop, and Popsicle-Stick Bridge Building. Will need help (for both MESA Days and Jr Regional MESA Days) due to the large amount of students attending; either through sponsorship, judging, volunteering, etc. Judges are the main focus and do not have to be from an engineering background. As a judge, SDSU MSP is able to provide a small stipend for services rendered. Members from City Council District 8 have already committed to lend a hand.
- B. San Diego City College (SDCC) MESA**
- i. **Annual Student Research Symposium Summary (May 7, 2008)** – It is the first of its kind out of all the community colleges. At the SRS, students presented video clips with a run time of about 5 minutes and approximately 100 posters were set up outside of the facilities along with art projects.
 - ii. **Family Open House and Awards Celebration Summary (May 23, 2008)** – 20 students received \$500 MESA Advantage NSF Scholarships. There were also other awards and scholarships distributed and MESA students transferring in 2008 were announced. \$40,000 – \$50,000 worth of scholarships was distributed.
- C. Southwestern College (SWC) MESA**
- i. **2008 MESA Transfer Students** – So far the MESA grant has a budget of \$81,000 a year but due to the 10% reduction, it is now at \$73,000 a year.
 - ii. **2008 Summer Team Interns** – Students took part in varied summer internships, ranging from a summer medical and dental education program at the University of Washington to an REU program on River and Coastal Restoration at the University of Minnesota. Many students interned with SPAWAR. Raga Bakhiet and MSE Dean Kathy Tyner will hold payments until after the students present to ensure that all students do their presentations. The Dean allotted \$12,000 for the summer team internships.
 - iii. **Scholarship Recipients** – \$25,350 worth of scholarships were given to students under categories such as Academic Excellence and Student(s) of Distinction Award (SODA). Leadership Award recipient Luis Leon was accepted to both UCLA and Berkeley and ended up choosing UCLA because they offered him a full scholarship.
 - iv. **End of Year Celebration (May 9, 2008)** – Awards were distributed to students who could not make the ceremony. The event will be held around the same time next year, all are welcome to attend.
- D. Student Organization Representatives – Nilo Ondevilla for SDCC SHPE**
- i. **Pre-College Outreach** – Leaders of all community college chapters leave simply because it's a 2 year college. The Shadow Me Program's (SMP) idea is to get SHPE at each community college to sponsor a SHPE Jr Chapter at high schools and all the way down to the elementary school level. SMP I will be SDCC SHPE sponsoring Chula Vista High school. SMP II will be SWC SHPE sponsoring Bonita High school. SMP III will be both SDCC and SWC sponsoring Feaster-Edison Charter Elementary school (Principal Latoni has already allotted \$10,000 for the program). SMP IV's initiative, with the help of Cuyamaca, Grossmont, Miramar, SDCC, and SWC community colleges, as well as Regional PTIC Representatives and Officers, will be to re-charter the Phi Theta Kappa

chapter Alpha Pi Epsilon at SWC. IAB members suggested that the SMP's try collaborating with similar programs that exist already on the standpoint of them having a possible budget.

V. Joint MESA Alliance Events

- A. MESA Olympics (April 19, 2008)** – is one of the capstone events of the year for MESA. The (exams) portion is in its 15th year, whilst the robotics portion is in its 8th year. The exams cover the following subjects: mathematics, physics, chemistry, and some engineering (for the university level students). Students worked in teams to build and program a LEGO Mindstorm NXT robot that will successfully navigate a course and knock down a tower consisting of LEGO's at the end. Their robots also had to partake in a 'sumo bots' competition, where the last robot in the 'ring' is deemed the winner. SDCC won 1st place in the robotics competition. SWC competed on the university level for the exams and also placed. Sony's prizes were supplemented with prizes provided with the NSF grant. There was approximately \$5,000 worth of prizes.
- B. Joint Planning Conference (August 22, 2008)** – Student organizations such as SHPE and SWE discuss a master calendar with an alumni panel. Invitations have already been sent out and recruitment of an alumni panel is in progress. Funding has already been covered. Roster officers and the calendar will be shared with IAB members.
- C. Alliance Summary Report** – A brief report of the activities that occurred in the 2007-2008 academic year was distributed and summarized by Raga Bakhiet, Ph.D. Events are held annually and usually take place around the same time frame. A calendar of events will be distributed at the next IAB meeting in August.

VI. Task Teams

- A. Training Academy: SPAWAR (April 18, 2008)** – 13 students from SDSU, SDCC, and SWC attended and the feedback was positive from both industry and student perspectives. It is a good way to train students early and students felt they were getting valuable experience. Many students ended up receiving internships with SPAWAR through the NSF MESA/STEP Summer Team Internship program. Some items to consider for future Training Academies, as suggested through student evaluations, are through interaction – whether via students on hands-on activities or through engineer demonstrations. CALTRANS and Hamilton Sundstrand have expressed interest to host future Training Academies.
- B. MESA *advantage***
- i. **Update on Summer Team Internships** – There are still 6 SDCC students available for hire as interns. Although the 100 hours can go by quickly, especially if the student is working full time, the company is always welcome to compensate the student on their own behalf after the stipend is depleted. Nonetheless, the 100 hours is provided as free work courtesy of the NSF grant.
 - ii. **Joint Professional Development Conference Discussion** – Natasha Forbes-Celise provided a brief history of the JPDC. It used to be facilitated by both SDSU MEP and SDSU Career Services as a technology career fair. However, the collaboration was not benefiting MEP as was promised by Career Services, thus MEP split and started the JPDC. Career Services eventually stopped hosting their own technology career fair. Recently, under a new director and initiative, Career Services has offered to collaborate with MEP again to revive their new Engineering and Science Career Fair.

The question posed to IAB members was, "*Do we want to go back and collaborate with Career Services or stay with our own JPDC?*" Career Services is planning on hosting the event on Thursday, October 30, 2008 from 10:00 AM – 2:00 PM in Montezuma Hall, with or without MEP.

The career fair would be open to all SDSU students, provided they show proper identification. Employers see this as a plus since they are only attending one career fair and seeing potentially all of the SDSU student body, including MESA students. However, as part of the NSF STEP grant, MEP requires that this event encompass face to face interaction with industry. Possible workarounds suggested by IAB members were to:

- Invite MESA students and affiliated student organizations to a breakfast prior to the career fair.
- Break up the fair so that a time slot of 9:00 – 10:00 AM would be designated for MESA students and 10:00 AM – 2:00 PM would be open to all (or some other time slot designation).

- Inform MESA students to add the MESA logo on their resume.
- Have a MESA booth available.
- Provide MESA students with a name badge or pin or sorts so they can be easily distinguished amongst other SDSU students.

Another dilemma was that of the registration process. The registration and application process would have to be simplified due to the confusion that had occurred years prior where depending on how one filled out the paperwork, companies would have no idea if the revenue went to the student organizations or to Career Services. With the JPDC, profits go directly to the student organizations; MEP does not keep any of it. This would ensure that the profits will be distributed properly. The benefit of the collaboration was that Career Services handled payment of the site, catering, and other miscellaneous items.

Student organizations seem to not benefit as much from a normal career fair versus JPDC due to JPDC's intimate setting and the simultaneous half hour seminars that occur as well. Options regarding the collaboration will be categorized and sent via e-mail to IAB members and student organization officers so that they can be put to a vote.

VII. Other Topics:

- A. SPSD Update: STEP Internal Advisory Committee Summaries** – Each campus (SDSU, SDCC, and SWC) has their own internal board which goes over the details of their corresponding budgets.
- B. SPSD External Advisory Council Updates** – The SPSD External Advisory Council consists of a subset of members from the IAB. After an informal vote with the IAB members in attendance, it was concluded that this agenda item should be removed from future agendas.

VIII. Building agenda for next meeting

- A. Review Joint Professional Development Conference Details**
- B. New San Diego MESA Alliance Calendar of Events**

IX. Adjournment – The formal meeting adjourned at 3:24 PM.

Next meeting:
 WEDNESDAY, AUGUST 13, 2008
 1: 30 – 3: 30 PM
 SAN DIEGO STATE UNIVERSITY
 COLLEGE OF ENGINEERING BUILDING, ROOM E423b
 5500 CAMPANILE DRIVE
 SAN DIEGO, CA 92182