

# *Encourage and Engage 2012*

## **Women in Engineering**

### **Summary of Evaluation by Student Participants June 2012**

**Date of Evaluation: June 1, 2012**

**Number of Respondents: (7)**

**Number of Questions: (35)**

**Evaluation administered and compiled by Becky Iott, STEM Counselor**

**The following scale used to respond to statements 1 through 31.**

- 5---Strongly Agree
- 4---Agree
- 3---Neutral
- 2---Disagree
- 1---Strongly Disagree

***Questions 1 through 15 relate to the main goal of the Encourage and Engage program: to increase the number of female students interested in Engineering, persisting in Engineering pre requisite courses and transferring to a baccalaureate degree in Engineering.***

1. The program as a whole encourages me to pursue my interest in Engineering.	<b>Strongly Agree</b>	<b>5</b>
	<b>Agree</b>	<b>2</b>
2. Faculty and staff in this program encourage and support me.	<b>Strongly Agree</b>	<b>6</b>
	<b>Agree</b>	<b>1</b>
3. Other students in the program encourage and support me.	<b>Strongly Agree</b>	<b>4</b>
	<b>Agree</b>	<b>3</b>
4. University peer mentors encourage and support me.	<b>Strongly Agree</b>	<b>3</b>
	<b>Agree</b>	<b>4</b>
5. University peer mentors help me understand and prepare to transfer as an Engineering major.	<b>Strongly Agree</b>	<b>4</b>
	<b>Agree</b>	<b>2</b>
	<b>N/A</b>	<b>1</b>
6. Social events contribute to a sense of engagement and encouragement for me.	<b>Strongly Agree</b>	<b>5</b>
	<b>Agree</b>	<b>2</b>

7. Unscheduled interaction with faculty, staff and guest speakers support and encourage me.	<b>Strongly Agree</b>	<b>6</b>
	<b>Agree</b>	<b>1</b>
8. Unscheduled interaction with other students support and encourage me.	<b>Strongly Agree</b>	<b>5</b>
	<b>Agree</b>	<b>2</b>
9. The program encourages academic commitment and motivation to persist in pre requisite courses for Engineering.	<b>Strongly Agree</b>	<b>6</b>
	<b>Agree</b>	<b>1</b>
10. Because of this program, I am more likely to choose Engineering as my transfer major.	<b>Strongly Agree</b>	<b>5</b>
	<b>Agree</b>	<b>1</b>
	<b>N/A</b>	<b>1</b>
11. The program encourages my progress in career decision-making.	<b>Strongly Agree</b>	<b>4</b>
	<b>Agree</b>	<b>3</b>
12. I learn things that help me in my Math and Science classes.	<b>Strongly Agree</b>	<b>3</b>
	<b>Agree</b>	<b>3</b>
	<b>Neutral</b>	<b>1</b>
13. I learn things that help me in my other classes.	<b>Strongly Agree</b>	<b>3</b>
	<b>Agree</b>	<b>2</b>
	<b>Neutral</b>	<b>2</b>
14. I have more fun with Math and Science because of this program.	<b>Strongly Agree</b>	<b>4</b>
	<b>Agree</b>	<b>2</b>
	<b>Neutral</b>	<b>1</b>
15. I feel better prepared In Math and Science because of the relationships in this program.	<b>Strongly Agree</b>	<b>4</b>
	<b>Agree</b>	<b>2</b>
	<b>Neutral</b>	<b>1</b>

**Questions 16 through 23 relate to workshops in Physics 110, 201, 202 and Math 191**

**For Peer Learning Assistants who led the workshops:**

- |  |                       |          |
|--|-----------------------|----------|
| <b>16.</b> Leading Physics and/or Math workshops encouraged me to persist in my own Math and Science coursework. | <b>Strongly Agree</b> | <b>4</b> |
| <b>17.</b> I increased my own knowledge of Math and Science because I led workshops.                             | <b>Strongly Agree</b> | <b>4</b> |
| <b>18.</b> I observed students who attended workshops strengthen their academic skills and performance.          | <b>Strongly Agree</b> | <b>3</b> |
|  | <b>Agree</b>          | <b>1</b> |

**For students who participated in the workshops:**

- |   |                        |          |
|---|------------------------|----------|
| <b>19.</b> Participation in the workshop(s) increased my knowledge of Math and Science.                         | <b>Strongly Agree</b>  | <b>2</b> |
|   | <b>Agree</b>           | <b>2</b> |
| <b>20.</b> Participation in the workshop(s) improved my academic performance in Math and Science courses.       | <b>Strongly Agree</b>  | <b>2</b> |
|   | <b>Agree</b>           | <b>2</b> |
| <b>21.</b> Participation in the workshop (s) encouraged me to persist in my interest in Engineering as a major. | <b>Strongly Agree</b>  | <b>2</b> |
|   | <b>Agree</b>           | <b>2</b> |
| <b>22.</b> How many workshops did you attend? (3 students responded)  |                        |          |
|   | <b>(1) 11 (eleven)</b> |          |
|   | <b>(2) 10 (ten)</b>    |          |
|   | <b>(3) 2 (two)</b>     |          |

**For students who did NOT attend the workshops:**

- |  |   |  |
|--|---|--|
| <b>23.</b> What reason(s) did you not attend: (2 students responded) |   |  |
|  | <b>(1) I already took all the classes.</b>                |  |
|  | <b>(2) I am not taking any science classes right now.</b> |  |

**Questions 24 through 32 relate to scheduled events of the Encourage and Engage program.**

**24. Inauguration and Meeting Mentors (1/5/2012)** contributed to my sense of community, engagement and encouragement (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **5**  
**Agree**                            **1**

**25. Workshop with Faculty Riderer/Ramos/Tippins (2/19/2012)** contributed to my sense of community, engagement and encouragement (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **2**  
**Agree**                            **2**  
**Did not attend**            **3**

**26. EIF Lunch Meeting with Cal Poly Pomona Engineering Department (2/11/2012)** contributed to my sense of community, engagement and encouragement (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **3**  
**Agree**                            **2**  
**Did not attend**            **2**

**27. Lunch with Cal Poly Pomona Student Mentors (3/10/2012)** contributed to my sense of community, engagement and encouragement. (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **5**  
**Agree**                            **1**

**28. SWE Open Forum with Dr. Harmonie Hawley (4/13/2012)** contributed to my sense of community, engagement and encouragement. (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **4**  
**Did not attend**            **3**

**29. Outreach Planning for GATE Students Event (4/27/2012)** contributed to my sense of community, engagement and encouragement. (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **4**  
**Did not attend**            **1**

**30. Egg Drop Competition (5/4/2012)** contributed to my sense of community, engagement and encouragement. (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **5**  
**Did not attend**            **2**

**Comment: Like this one a lot.**

**31. Lunch Conversation with Dr. Eisberg (6/1/2012)** contributed to my sense of community, engagement and encouragement. (Or check if did not attend \_\_\_\_)

**Strongly Agree**            **4**  
**Agree**                            **1**

32. Name the two events most valuable to you. What features/strengths of these events were most important?

**Egg Drop Competition (4 students)**

- (1) I really enjoyed working with the girls. They were so excited and passionate about the project, it was a joy to work with them and learn a lot about teaching as well.
- (2) It was very interesting and encouraged me to have more hands on experience.
- (3) Because I had the chance to work with a small group on a project and it was important to have encouragements and positive attitude even if a group doesn't win.

**Lunch Conversation with Dr. Eisberg (4 students)**

- (1) Most of the information was very beneficial to where I am working to get to in my academic career.
- (2) She was awesome and had so much good advice to share.
- (3) It was very encouraging to me as a female scientist.

**Inauguration and Meeting Mentors (2 students)**

- (1) It was so awesome to meet all the top people at the college and to have them encourage us that we are doing the right thing and know they believed in us.
- (2) Because it showed me who is here to support me which is very important for me to gain confidence so that I know I can do whatever I want to do.

**Lunch with Cal Poly Pomona Student Mentors (2 students)**

- (1) Understood more about the transfer school.

**EIF Lunch Meeting with Cal Poly Pomona Engineering Department (1 student)**

**SWE Open Forum with Dr. Harmonie Hawley (1 student)**

- (1) Helped me a lot with understanding about the career.

33. What has been the most important/valuable/enjoyable aspect(s) of the *Encourage and Engage* Program for you?

- (1) This opened my eyes to many opportunities such as what can engineers do, how to transfer to Stanford, how to build relationships with other successful people, how to organize people and how patience plays a role in working with others.
- (2) I wanted to hear what it is like to work in a science field and/or to be a woman working in certain fields for that hour or two. They give you the good and bad news which is what I like. Once I hear, I also pass it on as a mentor and share it with other students.

- (3) It provides me a lot of valuable information of engineering careers. It also gives me valuable advice of how to be a professional woman.**
- (4) It leads me to meet a lot of friends and professors and support me to continue my major.**
- (5) Helps me a lot to decide the career. Also lets me know more about the field of Engineering.**
- (6) Being together with other girls who are passionate about engineering and have strong motivation to succeed. We need each other!**
- (7) What I enjoyed the most was working alongside women who are passionate about engineering and are interested in sharing their experiences and helping each other succeed.**

34. In what ways could the *Encourage and Engage* program change/improve?

- (1) Invite more people to talk about the career field after graduating.**
- (2) Hope more and more people join in and have more chance to do the competition.**
- (3) It's very good right now.**
- (4) Have speakers come and tell us about difference fields, students and teachers could tell us how to best prepare for school or the work life. A day in a life as an engineer would be interesting to know.**
- (5) I suggest have more outreach experiences so that we can have more hands on experience and feel interested in engineering.**

35. Discussion/Additional evaluation:

- (1) Thank you professor Riderer !**