CRA-W Distinguished lecture series at University of South Florida, October 5th 2007

We express our immense gratitude to CRA-W for letting us host this event. It was a pleasant experience to have hosted such an event where many women actively participated who shared their views and encouraged our women students to pursue graduate studies.

This event consisted of two sessions: an invited talk and a Panel discussion regarding women in graduate studies.

Morning Session:
The invited Lecture by Prof. Mary Jane Irwin:

The morning session had a Distinguished Lecture Series by Prof. Mary Jane Irwin on **The Multi core Revolution: Opportunities Challenges and Opportunities.** The abstract and flyer for the talk is attached here.

The duration of the talk was one hour which was followed by a discussion for half an hour. Some of the statistics for the invited talk are listed below:

1. Number of attendees:52
2. Undergraduate women:8
3. Graduate women:18
4. Graduate men:12
5. Under Graduate men:6
6. Men Faculties:3
7. Women Faculty:3
8. Women Industry:2

Most of the men and as well as a significant part of the faculties were form Computer Architecture research area.

Afternoon Session:

In the afternoon session we had the two following academic events.

(a) Graduate Student and Women Forums:

The afternoon session had two forums. The first one had a half an hour discussion with the graduate students (around 25 from College of Engineering) in the VLSI and Computer architecture area. The PhD students were asked to explain their research area in Elevator Pitch form. Prof. Irwin was interacting with them one to one providing suggestions and guidelines. Both graduate women and men participated in this discussion.

This was followed by a discussion with women Graduate students (around 15) on issues with graduate studies.

(b) Panel Discussion:

The next event was a panel discussion. The Biography of the panelists is attached. Some of the issues discussed in the panel are:

- ➢ The underlying passion that led them to do PhD
- ➢ Why women feel intimidated in Engineering lack of role model was pointed out
- ➢ Continuing education and coping up with the ever changing technology
- ➢ Applying to Graduate school and the CRA-W workshop
- ➢ Why women were out numbered mostly in engineering.
- ➢ Balance between family and career.
- ➢ Mentoring for women engineers and type of society/forums women can get involved

Statistics:

Number of people attended the panel (excluding the 6 panelists) : 33*
Percent of attendees who were women : 93.93%
Percent of attendees who were undergraduates: 36.36%
Percent of attendees who were graduate students: 51.51%
Number of students from other schools and colleges (College of Arts and Science and Hillsborough Community College) : 2
*----Since it was a Friday afternoon some of the attendees left early and some of them were late. On an average there were 23-25 participants.

Advertisement:

The flyer and the panel were advertised in
1. SWE newsletter September issue (for free),
2. Paid advertisement ORACLE (University news letter),
3. Flyers sent to Hillsborough Community College and all
4. through created Mailing list of UG and graduate women for college of engineering
5. Mailing list for VLSI student groups
6. Flyer was posted at various locations in the university
7. News announcement from College of Engineering website and
8. Classroom announcements.

Social Events:

We organized food for the panel, the invited talk and also during the graduate and women forum (sponsored by CRA-W). There was a lunch organized by the College of Engineering Dean where invited speaker Dr. Irwin interacted with the Chair of EE Dr. Don Morel, University Distinguished Professor Dr. N. Ranganathan, Dean Dr. John Winsek, Provost Dr. Renu Khator and host Dr.Sanjukta Bhanja discussing about the awareness of women issues at all the levels of administration.

At the end of the panel discussion all the panelists were invited for a dinner (sponsored by CRA-W) where various aspects and challenges faced by women were discussed in a social setting.

As an after thought we felt that the event was dominated by University based academicians and for our future events we would like to avoid Friday afternoons and organize it on a weekday if the schedule permits.

Overall it was an immense pleasure to organize this event and we are looking forward to organize more events like this in future, where women and minorities gain immense insight into their career: Opportunities and Challenges.

CRA-W Distinguished Lecture Series

The Multicore Revolution: Challenges and Opportunities

Mary Jane Irwin
Evan Pugh Professor
Penn State University

Abstract: Moore's Law continues to hold resulting in a doubling of the number transistors integrated on a single chip every two years. However, thermal issues and global interconnect speed issues have made it impossible to use this plethora of transistors in the design of a single, advanced processor that runs at a faster clock rate to provide a doubling of performance. However, two processors running at the slower clock rate *will* fit on today's chips and *will* provide, in theory, this doubling of performance. Soon, four core chips will appear on the market. This talk will focus on the challenges and research opportunities brought about by the multi-core revolution that is upon us. These include architectural challenges (e.g., global interconnect options), resiliency challenges (e.g., faulty cores due to soft error upsets, process variation, aging effects, thermal hot spots), on-chip memory hierarchy design (e.g., NUCA), power/energy challenges, and programming challenges. Some initial research results that give insight into several of these challenge area will be presented. Ultimately, multi-core computing resources (time, space, communication) and emerging computing resources (power, resiliency, security) will have to be cooperatively managed by the programmer, by the run-time system, by the compilation system, and by dynamic controls in the underlying circuitry.

Biography: Mary Jane Irwin has been on the faculty at Penn State since 1977 where she currently holds the title of Evan Pugh Professor and A. Robert Noll Chair in Engineering in the Department of Computer Science and Engineering. Her research and teaching interests include computer architecture, embedded and high performance computing systems design, power and reliability aware design, and emerging technologies in computing systems. Dr. Irwin received her Ph.D. from the University of Illinois. She received an Honorary Doctorate from Chalmers University, Sweden, in 1997, was named a Fellow of The Institute of Electrical and Electronic Engineers (IEEE) in 1995, a Fellow of The Association for Computing Machinery (ACM) in 1996, and was elected to the National Academy of Engineering in 2003. Dr. Irwin is currently serving on ACM's Publications Board, on the Board on Army Science and Technology, and as a member of the Computing Research Association's (CRA)-W Steering Committee. In the past she has served as a founding co-Editor-in-Chief of ACM's *Journal on Emerging Technologies in Computing Systems* and as Editor-in-Chief of ACM's *Transactions on the Design Automation of Electronic Systems*, as an elected member of the CRA's Board of Directors, of the IEEE Computer Society's Board of Governors, of ACM's Council, and as Vice President of ACM.

October 5th, 2007 @ 10 AM CUTR 102

Hosted by

Sanjukta Bhanja (Electrical Engineering, USF) with cooperation from IEEE FWCS, SWE and IEEE Student Branch, USF

Sponsored by

The Computer Research Association's Committee on the Status of Women in Computing Research (CRA-W)
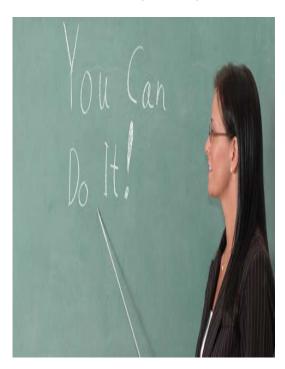
http://www.cra.org/Activities/craw/aboutCraw.php

EVERYONE IS INVITED! REFRESHMENTS WILL BE SERVED !

For further information, contact Dr. Sanjukta Bhanja (bhanja@eng.usf.edu)

CRA-W presents a panel discussion

Why Grad School?

The Benfits of Continuing Your Education and Research

An honest discussion designed to assist undergraduate students deciding if advance degrees are in their future; especially, though not exclusively, the benefits to young women. This conversation will highlight both the industry and academic career paths.

Panelists

Prof. Mary Jane Irwin
Faculty, Penn-State
Prof. Beverly Sanders
Faculty, UF
Prof. Damla Turgut
Faculty, UCF
Oluwabukola "Bukie" Akinbo
Graduate Student, CSE, USF
Cindy Bethel
PhD Student, CSE, USF

Friday, Oct 5th, 3:00 PM CUTR 102
Refreshments will be served! Everyone is invited!

Biography of the Panelists

Mary Jane Irwin has been on the faculty at Penn State since 1977 where she currently holds the title of Evan Pugh Professor and A. Robert Noll Chair in Engineering in the Department of Computer Science and Engineering. Her research and teaching interests include computer architecture, embedded and high performance computing systems design, power and reliability aware design, and emerging technologies in computing systems. Dr. Irwin received her Ph.D. from the University of Illinois. She received an Honorary Doctorate from Chalmers University, Sweden, in 1997, was named a Fellow of The Institute of Electrical and Electronic Engineers (IEEE) in 1995, a Fellow of The Association for Computing Machinery (ACM) in 1996, and was elected to the National Academy of Engineering in 2003. Dr. Irwin is currently serving on ACM's Publications Board, on the Board on Army Science and Technology, and as a member of the Computing Research Association's (CRA)]W Steering Committee. In the past she has served as a founding co-Editor-in-Chief of ACM's *Journal on Emerging Technologies in Computing Systems* and as Editor-in-Chief of ACM's *Transactions on the Design Automation of Electronic Systems*, as an elected member of the CRA's Board of Directors, of the IEEE Computer Society's Board of Governors, of ACM's Council, and as Vice President of ACM.

Damla Turgut is an assistant professor at the School of Electrical Engineering and Computer Science of University of Central Florida. She received her BS, MS, and PhD degrees from the Computer Science and Engineering Department of University of Texas at Arlington in 1994, 1996, and 2002 respectively. She has been included in the WHO's WHO among students in American Universities and Colleges in 2002. She has been awarded outstanding research award and has been recipient of the Texas Telecommunication Engineering Consortium (TxTEC) fellowship. She is a member of IEEE, member of the ACM, and the Upsilon Pi Epsilon honorary society. Her research interests include wireless networking, mobile computing, distributed systems, agents, and databases.

Oluwabukola "Bukie" Akinbo, a Computer Science Student, has received Honorable Mention by Computing Research Association for 2007 Outstanding Undergraduates.

Cindy Bethel: received a B.S. degree in Computer Science from the University of South Florida in May 2004. She is currently pursuing a doctorate degree in Computer Science and Engineering at the University of South Florida with her research focus in the areas of AI, robotics, human-robot interaction, and affective computing. Cindy is a National Science Foundation Graduate Research Fellow.

Beverly A. Sanders is associate professor at the Department of Computer and Information Science and Engineering, University of Florida, Gainesville. Her research focuses on techniques to help programmers construct high-quality, correct programs, including formal methods, component systems, and design patterns. She holds a Ph.D. in applied mathematics from Harvard University.

CRA-W Distinguished Lecture Series (DLS)

Lecturer and Panelists Evaluation

Thank you for participating in the CRA-W Distinguished Lecture Series. We are always trying to improve the program and would very much value your input. Please feel free to attach any additional information you feel would be beneficial.

1. Your name __Cindy L. Bethel__ and affiliation __USF Dept. of CSE__ .

2. Name of the institution where the event was held __Univ. of South Florida__.

3. Your role:

   ____ Lecturer

   ____ Industry panelist

   ____ Academic panelist

   __X__ Student panelist

4. Was the event well organized? Do you have suggestions on improving the organization.
   Yes, the event was very well organized and a pleasure to attend and to participate in. I think better advertising and selection of a date other than a Friday would provide better attendance at the event. It would have been nice to also have an industry perspective as well. I truly enjoyed the event and hope to attend future events.

5. Did the event meet your own expectations?
   Yes, I think for the most part the event met with my expectations. I have attended several CRA-W events and they are all well organized and very informative. I have enjoyed all of them and I hope to continue to be involved and attend these types of events. They are so important to women in our field.

6. Would you be willing to participate in a DLS event in the future? __Yes__

7. Any additional comments or suggestions for improving the program?
   Mary Jane Irwin is awesome and I found her to be very informative and a wonderful role model for women in Computer Science and Engineering. I enjoyed spending time with her and enjoyed the information she so willingly shared. I am very thankful for the events that are sponsored by CRA-W. They have made such a difference in my academic experiences. I do hope that more events will be offered in different areas of interest. Thank you for all you do! I would enjoy being involved in future events to be helpful to others and to pay back some of what has been provided to me by the CRA-W.

Thanks for your input!

CRA-W Distinguished Lecture Series (DLS)

Lecturer and Panelists Evaluation

Thank you for participating in the CRA-W Distinguished Lecture Series. We are always trying to improve the program and would very much value your input. Please feel free to attach any additional information you feel would be beneficial.

1. Your name _SUPRIYA KETKAR_ and affiliation _R.A._ .

2. Name of the institution where the event was held _UNIVERSITY OF SOUTH FLORIDA._

3. Your role:

    _____ Lecturer

    _____ Industry panelist

    _____ Academic panelist

    ✓ Student panelist

4. Was the event well organized? Do you have suggestions on improving the organization.

    YES!

5. Did the event meet your own expectations?

    YES!

6. Would you be willing to participate in a DLS event in the future? _YES_

7. Any additional comments or suggestions for improving the program?

    More awareness of students & participants.

Thanks for your input!

1

CRA-W Distinguished Lecture Series (DLS)

Lecturer and Panelists Evaluation

Thank you for participating in the CRA-W Distinguished Lecture Series. We are always trying to improve the program and would very much value your input. Please feel free to attach any additional information you feel would be beneficial.

1. Your name _TRIPURA SUNDARI_ and affiliation _____ .

2. Name of the institution where the event was held _University of South Florida._

3. Your role:

   _____ Lecturer   X Student Attendee

   _____ Industry panelist

   _____ Academic panelist

   _____ Student panelist

4. Was the event well organized? Do you have suggestions on improving the organization.

   Yes

5. Did the event meet your own expectations?

   Yes

6. Would you be willing to participate in a DLS event in the future? _Yes_

7. Any additional comments or suggestions for improving the program?

   more number of such events.

Thanks for your input!

1

CRA-W Distinguished Lecture Series (DLS)

Lecturer and Panelists Evaluation

Thank you for participating in the CRA-W Distinguished Lecture Series. We are always trying to improve the program and would very much value your input. Please feel free to attach any additional information you feel would be beneficial.

1. Your name _HARINI DANTU_ and affiliation _MSEE_.

2. Name of the institution where the event was held _USF – Tampa_.

3. Your role:

   ____ Lecturer   X student attendee

   ____ Industry panelist

   ____ Academic panelist

   ✓ Student panelist

4. Was the event well organized? Do you have suggestions on improving the organization.

   Event was well organized.

5. Did the event meet your own expectations?

   Yes, very much.

6. Would you be willing to participate in a DLS event in the future? _Yes_

7. Any additional comments or suggestions for improving the program?

   I wish it shouldn't have been on friday afternoon.

Thanks for your input!

1

CRA-W Distinguished Lecture Series and Panel

Organizer Evaluation

Thank you for organizing a CRA-W Distinguished Lecture Event and Panel. We are always trying to improve the program and would very much value your input. Please feel free to attach any additional information you feel would be beneficial.

Your name _____ and affiliation _____ .

1. Number of people at the lecture: ____

2. Number of people at the panel: ____

3. What events were held in addition to the lecture and panel? Include social events and meals.

   - How many people attended these additional events? ____

4. Who are these people? Please try to estimate the make-up of the audience aggregated over all events (lecture, panel, and other events).
   - Percentage Women ____ Men ____
   - Percentage Faculty ____ Graduate Students ____ Undergraduates ____ Other ____
   - Percentage from Schools ____ Companies ____
   - If your event included several schools, please list the institutions and estimate the overall percentage coming from institutions other than the host school.

5. Which of the following seemed to you to be the most effective way in which this event was advertised?

   ____ Email to an established mailing list or a newsgroup.
   ____ Flyers or posters
   ____ Word of mouth
   ____ Email to an ad hoc group
   ____ Class announcement
   ____ There was no effective advertising
   ____ Other (specify)

6. Who would you have liked to attend who didn't?

7. What feedback have you received from students? What impact did the lecture and panel have?

8. How would you rate the distinguished lecture and lecturer?

Topic	Not Valuable	Somewhat Useful	Valuable	Essential
Talk accessible to general audience				
Substantial time for questions				
Meeting the lecturer before/after talk				
Talk content includes broad perspective of field				
Talk content includes new exciting results				

9. Were there additional activities you wish had been included in the event to help make the most of the lecturer's visit?

10. Who were your panelists (name, affiliation, and level)?

11. How would you rate the panelists and panel?

Topic	Not Interesting	Somewhat Useful	Valuable	Essential
Insight into what the experience of attending grad school is like (joys and frustrations)				
Insight into why a research career is exciting				
Range of careers open to those with Ph.D. degrees				
Advice on the process of how to apply to grad school				
Information on what Admissions Committees are looking for				
Information on financing a graduate school education				

12. What activities in your program were most effective and why?

13. Other comments on what worked well and what didn't work well?

14. Would you consider organizing a similar event in a future year? Would your insitution provide funding?

15. Any additional comments or suggestions for improving the program?

Thanks for your input!