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1. Editor's Note

Dear colleagues,

ACC is over, we are back to work, and now it is the time to sum up our impressions and accomplishments.

We received a wonderful letter from Bozenna, which is included in this e-mail for archiving. It has lot on WiC accomplishments that we are truly proud of. Thank you Bozenna for this effort!

We decided to have a special section in this newsletter on WiC accomplishments. Please, dear colleagues, share with us your success stories along both lines, research and education.

We have Linda Bushnell's report on WiC Luncheon: she and Dawn Tilbury were very kind to conduct it on behalf of Fahmida Chowdhury, WiC Chair, who is now on her sabbatical leave far in Asia.

We received as well a detailed e-mail on NSF opportunities from Alison Flatau. Thanks her for such care!

I would just remind, that the goal of this newsletter is to integrate more and more women in control theory/applications development and to keep

everybody posted on events, so if you come across interesting articles, useful information on web, that you think might be useful for our community, please feel free to contribute. As well please don't forget about job openings in your schools, companies, new books, journals, software releases, conferences, workshops, etc. Just drop me a line following my references below:

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2. Message from Linda G. Bushnell

WiC meeting
June 27, 2001
Arlington, VA (ACC'01)

The IEEE Control Systems Society Women in Control Committee met at the American Control Conference on Wednesday, June 27, 2001 in Arlington, VA, USA. Thirty six people attended the luncheon meeting (see list below). CSS President Jack Rugh stopped by at the beginning of the meeting to welcome the WiC members to the ACC and to ask if we had any suggestions/comments for the CSS in general (if you have any, please email them to Jack at rugh@jhu.edu).

Items that were discussed included:

1. Ways to get involved in the IEEE CSS and AACC: Both societies are looking for people to chair sessions at the ACC and CDC, be reviewers for the conferences, journals and magazines, be on the Program Committee for the ACC, CDC and CCA. After proving yourself as a good reviewer in these ways, the next step is to get involved at the Operating Committee level (ACC, CDC, CCA), Board of Governors (CSS and AACC) and Associate Editors of the journals and magazine.
2. How students can get involved: Mark Balas talked about the ACC 2003 volunteer opportunities for students. His email is mark.balas@colorado.edu. He is involved in "mentoring in the academic world."
3. IEEE CSS Member Activities Board: Bozenna Pasik-Duncan discussed the MAB and the various committees: Student Activities Committee.
4. How to become a IEEE Senior Member: If you are 5 years past your Ph.D. and are currently an IEEE Member, please submit your application for IEEE Senior Member. See the IEEE web site:

<http://www.ieee.org/organizations/rab/md/smforms.htm>

To join the IEEE, please see the web site:

<http://www.ieee.org/membership/join/>

5. Dr. Alison Flatau from the NSF spoke on NSF opportunities. She sent out email to the WiC recently.

6. A big congratulations to Bozenna for becoming an IEEE Fellow and CSS Distinguished Member, to Cheryl Schrader for being elected to IEEE CSS President Elect for 2002, to Dawn Tilbury for winning the AACC Donald Eckman Award (for best control engineer under the age of thirty-five).

The success of this meeting was due in part to good advertising: we posted a color poster near the registration desk and handed out business card size invitations.

We hope to see all of you again in Orlando at the next WiC meeting.

Linda

Attendees

Linda Bushnell, Univ. of Washington, bushnell@ee.washington.edu

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3. Roommate solicitation for the coming GNC Conference, Aug.6-9, Montreal,
Quebec, Canada

Conference on Guidance, Navigation and Control is going to take place this
year Aug.6-9 in Montreal, Quebec, Canada. If you are looking for roommates,
please contact me:

naira.hovakimyan@ae.gatech.edu

4. Bozenna 's letter

Dear Friends,

I just returned from the American Control Conference in Arlington,
Virginia, where our group, Women in Control, got together for lunch. I
would like to give a big thank you to Linda Bushnell and Dawn Tilbury for
organizing the lunch.

In my last message, I shared some good news with you about the
Eckman Award which Dawn received. It was truly great to see Dawn among the
other recipients of major awards during the Awards Ceremony.

Today I would like to share some other terrific news. Cheryl
Schrader will be the 2002 President-Elect and the 2003 President of the
Control Systems Society! She will be the second woman, following Jane
Cullum, to be president of the CSS. Most enthusiastic congratulations to
Cheryl!

I am sure that all of you will join me in the highest support of
Cheryl; in helping and assisting her in every possible way so she can be
the best president. I have to admit, having only been a vice president,
that it is not easy to be a president.

Since she has done such an outstanding job as a two-term vice

president for conferences, she was elected for the highly competitive position of president. There are very many outstanding candidates who are long term volunteers, but Cheryl has established a big trust in her work. I am very proud and truly impressed by Cheryl's work and her attitude. If you need a female role model for yourself, Cheryl is one of the very best to be observed and followed.

Let me take the opportunity and once again bring to your attention that the Control Systems Society is doing extremely well in recognizing women in control. Linda Bushnell became the first woman to be a secretary-administrator. She started to be involved in the CSS as the chair of the History Committee and as the chair of organizing and program committees for many control conferences. Her outstanding skills were quickly recognized by the Ex-Committees.

Linda continues doing a superb job. Dealing with Linda professionally on a regular basis is the best learning experience for me. She and others on the ExCommittees have taught me the importance of communication and good presentations.

Personally, I give a lot of credit to the Control Systems Society for an excellent learning experience, for being better as a teacher, and mostly for being better as an advisor and a mentor. Today I impress my fellow mathematicians during meetings, mostly because I learned how to be a better communicator. I liked this communication learning experience so much that I started bringing great communicators to our faculty and students' meetings. Recently, our Kansas House Representative, Barbara Ballard, gave a spectacular talk on "Good Communication" and taught us ,among other great things , the following: "listen, hear it, and respond effectively." This has become my best guidance at every meeting, discussion, and class. It works like magic.

My CSS colleagues have impressed me by using this simple, but powerful guidance. Most of them have listened to me and have heard me. They have been great at accepting me as a woman, a foreigner from Eastern Europe, and as a mathematician. I used to be very sensitive about my accent, but I have gradually learned to live with it. With my beautiful learning experience, I have become a great ambassador for CSS, the United States, Kansas, and KU.

Speaking about mentoring, I would like to share some good news with you. I agreed to be the principal investigator for the Travel/Mentoring Program for the Association for Women in Mathematics. The current President is a member of our group, Suzanne Lenhart. Congratulations, Suzanne! I don't know any other woman in control who has done as much for women as Suzanne has done for all these years. I would like to give a big thanks to Suzanne for her continued, endless work for girls and women. The Travel/Mentoring Program was fully funded by the NSF. It is one of the best programs that I have encountered. It helps to match a young researcher with a senior researcher and allows them to spend one month working together.

I saw Lucy Pao as a terrific mentor during the poster session at the last ACC, in which her female student presented a most impressive poster.

Another student of hers won the Best Paper Award at the same conference. Lucy currently supervises nine PhD students. Bravo, Lucy, you are amazing! Thank you Cheryl, Linda, Dawn, Molly, Fahmida, Bonnie, Lucy, and many others for showing me the importance of things that I have not seen in my mathematical profession.

I have realized that the Women in Control group is a great forum at which we can help each other in many different ways. As Professor Mark Balas, who has supported us very much, said to us during our last lunch "Remember that when you will leave this room, you will be minority again, so it is good to have a group like yours."

I added to it; "It is always good to have a home, and I have found the Women in Control and the Control Systems Society is a good home." Although we are still a minority in the CSS, the visibility of women in the society has increased significantly during the last thirteen years of my involvement. I remember the 1987 CDC in Los Angeles, where I was informed that I was one of two women who gave a talk. I couldn't believe it, and that was the beginning of my involvement. John Baillieul, the Program Chair of the 1987 CDC provoked and motivated me to do "something" about it. Thank you, John. Today, looking around me, at everything that I have been involved in, I see five women are on the Board of Governors, four women are in charge of standing committees, four women are on the Board of Transactions Automatic Control, and many others are on Program and Organizing committees of our conferences, and on other editorial boards. Let me finish with a statement as your mentor who truly cares about you. Volunteering work is important and is usually highly appreciated and recognized. My work for the CSS was recognized in the highest way. Big thanks to the EXCommittees. I received three prestigious recognitions during one year: the IEEE Third Millennium Medal, the Distinguished Member Award, and I became a 2001 IEEE Fellow. 2000 will be a most memorable year for me .

Volunteering work can be very rewarding. The hardest part of it is balancing research, teaching, service, and family life. Don't forget that family life has to come first. I love being a mother of my terrific sixteen-year-old daughter, Dominique, whom many of you know very well. She makes me feel so young by involving me in classical music, but also in pop music. She is a huge fan of BBMak. Those of you who have young children, keep up on those things. It will be really fun to be great friends with your son or daughter.

Don't forget that research comes second, and then closely after that, is teaching, and then service. Also, never forget about your husband, boyfriend, or elderly parents. Remember about taking your children to tennis, piano, cello, cheerleading, choir, swimming, university classes, and other activities, but don't speed while driving them, because speeding tickets get really expensive. This is just some advice; I don't know if this is the best, but I think it works. I am trying to share my experiences with you, which have not always been easy, but I have found my way to be happy as a wife of an American control researcher who is an engineer and does mathematics, as a mother of a very smart girl, who

likes math, music, cheerleading, and tennis and as a daughter of by now a sick and an elder , terrific woman . Giving, with my whole heart, to all people around me, without expecting awards, was the key that made me happy in this country. Running at 6:00 am, listening to the birds singing, reading or writing poetry, and listening to my daughter beautifully playing her cello for me, when I am tired, always helps me. All of these things make me happy and I felt like sharing this with you on Independence Day, since I could not stop thinking about all of you today.

We have already contributed a lot to the CSS, but our job is not complete. We still have a lot to do. While writing this letter, I have realized that those involved are mostly here, in this part of the world, but there are many great female contributors out of this country. As the chair of the International Committee, I would like to take leadership in bringing more diversity to the CSS.

Thanks to all of you for your kind and beautiful words expressed to me recently. Thank you for your wonderful friendship.

With my best wishes for a great summer,
your mentor and best friend always, Bozenna

P.S. Happy 4th of July to everyone here!

Acknowledgement: Big thanks to Dominique for reading this letter, and for all her corrections which helped to put "hundreds" of my thoughts in some kind of

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5. NSF opportunities, contributed by Alison Flatau

It was a pleasure having the opportunity to meet you all (albeit briefly) at the luncheon on Wednesday. I thought I'd follow up and encourage you all to contact either Kishan Baheti (rbaheti@nsf.gov <<mailto:rbaheti@nsf.gov>> 703-292-8339) or me (aflatau@nsf.gov <<mailto:aflatau@nsf.gov>> 703-292-7012) if you have questions about the NSF. And as a specific follow up to the inquiry about the ADVANCE Program, the url:
<http://www.nsf.gov/home/crssprgm/advance/>
<<http://www.nsf.gov/home/crssprgm/advance/>>
has links to information on the three different program award options (institutional transformation, leadership and fellows awards). Alice Hogan (ahogan@nsf.gov <<mailto:ahogan@nsf.gov>> 703-292-7238) is running the

foundation-wide activities on ADVANCE, and is probably the best resource for additional information about ADVANCE, but Kishan and I can also help track down answers, so let us know if we can help.

For more general information, as far as identifying who here to meet with to discuss a specific research project or area, try going to www.nsf.gov <<http://www.nsf.gov>> and clicking on search at the top of the page. There, you can find links to the following two pages:

FastLane "List of Awards by Program" Area:

<https://www.fastlane.nsf.gov/servlet/A6QueryPgm>

<<https://www.fastlane.nsf.gov/servlet/A6QueryPgm>>

enter program name keywords (like sensor, dynamic, or curriculum) and choose from the different program names that show up to see what types of research are currently being funded by the different programs.

Awards abstracts "text search":

<https://www.fastlane.nsf.gov/a6/A6AwardSearch.htm>

<<https://www.fastlane.nsf.gov/a6/A6AwardSearch.htm>>

Enter keywords like "conjugated polymers" or "laboratory development" and then click on any awards that are listed to see which Programs and Program Directors support work similar to what you would propose.

Most email addresses here tend to be first initial of first name and up to seven letters of the last name @nsf.gov.

Hope that helps.

Best regards,

Alison

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