

## Columns: Officers Speak

### President's Corner



In this first AACC Newsletter of 2011, let me welcome you, our readers, to an exciting year of activities, which involve directly the American Automatic Control Council. The first is the upcoming American Control Conference (ACC), to be held in San Francisco, California (June 29-July 1), for which the technical program is already in place (for more details, see

<http://www.a2c2.org/conferences/acc2011/>). All indications are that we should again expect a memorable event. In addition to what looks like a very high quality technical program, we will also have our annual awards ceremony scheduled during the conference, on its second day (June 30) as in the past, but this time right after the late afternoon sessions. The ceremony will feature four 2011 AACC individual awards (Richard E. Bellman Control Heritage Award, John R. Ragazzini Education Award, Control Engineering Practice Award, Donald P. Eckman Award), two 2011 AACC paper awards (O. Hugo Schuck Best Paper Awards, in the Theory and Applications categories), and the 2011 ACC Best Student-Paper Award. For the six AACC awards, the Awards Committee (chaired, as in the last year, by Stephen Yurkovich), along with its subcommittees, has already completed its work, and the recipients of this year's awards have already been informed. I look forward to seeing a big turnout at the ceremonies this year.

The second AACC affiliated event this year is the IFAC World Congress, which will be held in Milan, Italy (August 28 - September 2), organized by the Italian National Member Organization (NMO) of IFAC (for more details, see <http://www.ifac2011.org/>). AACC is of course the US NMO at IFAC, and has actually played an important role in the creation of IFAC in the late 1950's as a multi-national federation in the field of automatic control. The first president of IFAC was from the US, Harold Chestnut, and two previous congresses were held in the US (1975, in Boston/Cambridge, during the IFAC presidency of John Lozier; and 1996, in San Francisco, during the IFAC presidency of Stephen Kahne). To document all this history, which parallels that of IFAC, we are currently working on a booklet, which will be completed (and designed and printed) in time for the IFAC

Congress in Milan. The latest American IFAC President, Steve Kahne, is leading this effort, with the support of a committee comprised of Frank Doyle, Abe Haddad, Mike Mastin, and myself. The booklet will be made available at the *Friendship Evening Reception* AACC will be hosting during the IFAC Congress, on Tuesday, August 30. Preparation of such a booklet and hosting of a reception in Milan are part of a bigger plan of a possible bid for a future Congress (the *third*) in the US (in 2020 or 2023). For this purpose, our past AACC president, Wayne Bequette, is leading a task force, which is also working on the details of the reception in Milan. In my last column in the AACC Newsletter, I had expressed the hope that there would be a strong US participation in Milan, and the first

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step in assuring this would be a strong inflow of paper submissions from US authors. Based on the number of US papers in the technical program of the Congress (204 papers where corresponding authors are from a US institution), we can expect a strong showing in Milan. For those who will not be able to make it to Milan, we will post the booklet on the history of AACC on our website shortly after the Congress.

Talking about our website, we have recently updated its contents and made it current. It is also currently undergoing a *face-lifting*, which will be completed by the time of the ACC in San Francisco. If you have visited our website recently (this year), you would have noticed a new member society added to our council. With the beginning of this year, AIST (Association for Iron and Steel Technology) has retired from the Council, and SIAM (Society for Industrial and Applied Mathematics) has been added as a new full member. SIAM will be represented by its *Activity Group on Control and Systems Theory*. William Levine (a past president of AACC) has been named the SIAM representative on the AACC Board of Directors (BoD), with William McEneaney as alternate. This leaves the size of BoD again at eight, with the full roster being AIAA, AIChE, ASCE, ASME, IEEE, ISA, SCS, and SIAM. This is the first change in the composition of the BoD in many years. It is of historical importance to note that when AACC was founded 54 years ago, four of the current member societies constituted the first board: AIChE, ASME, IEEE, and ISA, with IEEE (the name not existing at the time) actually represented by AIEE (American Institute of Electrical Engineers) and IRE (Institute of Radio Engineers), making the total number of board members five. (AIEE and IRE later merged and created IEEE.)

Before closing, I should also mention that another important development that has taken place since the beginning of this year is that we have finalized a Memorandum of Understanding (MoU) with IEEE on the publication of our ACC Proceedings, hosting it on line, and other related issues. This multi-year MoU, which I had the pleasure of signing on behalf of AACC, puts the existing relationship between AACC and IEEE with regard to ACC on a solid footing for many years to come.

In closing, I express my hope to see many of you, our readers, in San Francisco in late June at the 2011 American Control Conference, and two months later at the World Congress in Milan.

As always, feel free to write to me if you have any questions or any suggestions on any aspects of AACC and its operation. I look forward to hearing from you!

*Tamer Başar*  
*President, AACC 2010-2011*

## ***The Vice-President Invites Input***

One of the pleasures of being Vice President is to oversee and help coordinate the activities of the ACCs, and I am pleased to report success all around. Our General Chairs for near term conferences have each assembled 13 people to create strong Operating Committees, and those working on longer range events are on track. General Chairs have been appointed through 2016, and all future ACCs will continue to be quality, prestigious conferences.

If you would like to serve on a conference Operating Committee, contact me at [rrr@okstate.edu](mailto:rrr@okstate.edu). Volunteer positions take about an hour a week for the several-year planning and post reporting period, and they provide an opportunities for career visibility and program leadership demonstration. Each of the positions is important. Only those interested in making a contribution need apply!

Thanks to Glenn Masada and his team for creating an excellent and successful Baltimore ACC, with a record attendance. Future ACC's will be in San Francisco, Montreal, Washington DC, Portland, and likely Chicago. Each venue offers opportunities for family vacation and networking with local organizations, so plan on attending.

The manuscript review process is strong and ensures quality papers. Capitalizing on improved computer and communications support, a Program Committee of about 10 members can fill the role of final program organization that formerly required about 25 individuals. This reduces pressure on the review timelines, reduces costs associated with program development, and improves consistency in vision for the program content.



Increasing industry participation is important to a proper balance desired in AACC as it represents the US to the world community and IFAC. Accordingly ACCs are seeking ways to increase conference attractiveness to industrial participants, while preserving the value of the conference to the academic community.

*Russell Rhinehart*  
*AACC Vice-President*

## **Global Concerns XXXVI**



This year is an IFAC Congress year as the 18th IFAC World Congress will be held from August 28 to September 2, 2011 in Milano, Italy. There are usually no other IFAC technical events during a Congress year. I would like to use this opportunity to make some observations about IFAC Congresses in general. With some exceptions, IFAC Congresses are usually the largest control technical meeting when compared to other events such as other IFAC Symposia or regional meetings: the American Control Conference (ACC), the European Control Conference (ECC), and the Asian Control Conference (ASCC).

Historically, of the 18 IFAC Congresses 12 were held in Europe (with some balance between western and eastern Europe). These were held in Russia, Estonia (both organized as part of the USSR NMO at the time), Switzerland, United Kingdom, Poland, France, Finland, Hungary, Germany, Spain, Czech Republic, and Italy. Three Congresses were held in Asia (Japan, China, and Korea); one Congress was held in Australia, and two in the USA. When one considers the activity of control research in Europe, Asia and the Americas it is rather surprising that only two were held in the Americas while 12 were held in Europe. A solution to this problem would be to split the USA into 50 NMOs. (The US may learn a lesson from Yugoslavia, which went from being one NMO to result in four NMOs. The US need not resort to war to accomplish a similar goal.) It is interesting to note that the European Union (EU) includes many individual NMOs, unlike the USA which is just one. This fact also means that a Congress in the Western Hemisphere is long overdue. It is hoped that we may see a Congress in the Americas before the end of this century. It is interesting to note that the 19th World Congress will be held for the first time in Africa, which will leave only Antarctica as a continent without an IFAC Congress. (It also has no NMO.)

Now when we consider the regional conferences, we observe that when the Congress is in the US the ACC is canceled and replaced with the Congress. When the Congress was held in Korea the ASCC was postponed by a year as it is held every second year. However, when a Congress is held in Europe the ECC is not canceled but it is organized together with the IEEE CDC: in 2005 it was held in Seville, Spain and in 2011 it will be held in Orlando, Florida. This latter fact implies that national boundaries need not match the name of the Conference. The ACC in 2012 will be held in Montreal, Canada. (It is still appropriately named, though.) Maybe we should dispense with all these acronyms and just call all these conferences Global Control Conferences.

I would like to ask that as many of the AACC Societies members to plan to attend the Milano Congress and to contribute to its success.

*Abraham Haddad*  
*IFAC Council Member*

## AACC Control Education Committee Programs

### *On Recent Activities of Control Education Committee: 10 Years of AACC Outreach Efforts and Educational Activities*

*Bozenna Pasik-Duncan  
Chair, Control Education Committee*



### *Ideas and Technology of Control Systems*

This year marked the tenth anniversary of the Ideas and Technology Control Systems workshop for middle and high school teachers and students. These workshops are held twice a year in conjunction with the American Control Conference and the Conference on Decision and Control. The workshops were presented to over 3,000 students and teachers. Some of the places they have been held in are Baltimore, Chicago, Denver, Hawaii, Las Vegas, New Orleans, Portland, San Diego, Seattle, and St. Louis.

The American Automatic Control Council's Education Committee together with the IEEE Control Systems Society's Technical Committee on Control Education strives to bring control system concepts and technologies to the awareness of high school and middle school students and teachers. Control is used in many common devices and systems, such as computer hard drives, VCRs, automobiles, and aircraft, but it is usually hidden from view. With the understanding that the longevity of the control field which spans science, technology, engineering and mathematics (STEM) depends on its continuous success in attracting the most gifted young people to the profession, and with the understanding that the early exposure is the key to that goal these two committees launched a pioneering effort to bring control systems to middle and high school students and their teachers. The goal of these outreach efforts is to promote an increased awareness among students and teachers of the importance and cross-disciplinary nature of control and systems technology.



*NSF Workshop in Atlanta*

Before NSF was concerned with K-12 education our control community had the idea that high school teachers and their students should be made aware of and become involved in advanced control theory research. The idea was that education is at all levels an inclusive process: It should integrate scholarship, teaching, and learning both horizontally and vertically.

The first workshop was hosted by the 2000 American Control Conference (ACC) with the assistance of the ACC organizers, and the encouragement and funding from the National Science Foundation (NSF). The workshop occurred on June 27, the day before the ACC commenced: [http://www.math.ku.edu/ksacg/nsf\\_hswkshop.html](http://www.math.ku.edu/ksacg/nsf_hswkshop.html)

More than 50 invited teachers of mathematics and science from selected high schools throughout the United States and many control researchers participated in this full day workshop. This was the first big and spectacular step in the efforts of the control community to increase high school teachers' awareness of the importance of control and systems ideas in technological development. There were 12 speakers who described in an outstanding way the usefulness and importance of control. While the majority of the speakers were from the control community, there were also speakers with backgrounds in medicine, motion pictures, and teaching.

Through all those 10 years we have developed the model that it has been followed by other organizations and societies and we established a sustainable outreach partnership among our control communities and the school districts at the places where our major conferences are held. This outreach partnership has provided a vehicle for demonstrating the power, beauty and excitement for science and engineering.

The workshop activities include presentations by control systems experts from our technical community, informal discussions, and the opportunity for teachers to meet passionate researchers and educators from academia and industry. The talks are designed to be educational, inspirational and entertaining showing the excitement of being an engineer.

## ***Other Educational Activities***

One of the most important educational activities in the past 10 years was to initiate a discussion and presentations of "Plain talks". This important educational activity was closely related to the outreach efforts. The goal has been to develop short excellent presentations for teachers and students but also for other non control engineering communities.

One of the major challenges for the controls community is to enhance its own public image and convey the essence and contribution of the field to outsiders; for this, a coordinated effort has to take place. This Special Session has as its purpose to prepare "Plain Talk about the Power, Beauty and Excitement of Control for the Non-Control Engineering Audience." This series of talks will include a brief history of feedback control and provide a sample of short talks for a target audience of non-control engineering professionals and general public.

The Special Education Session was organized in 2006 in New Orleans with the following Presentations:

- Introduction and Purpose of the Session, Bozena Pasik-Duncan, University of Kansas.
- The Power of Feedback, Theodore Djaferis, University of Massachusetts Amherst.
- Joys and Perils of Automation, Christos G. Cassandras, Dept. of Manufacturing Engineering and Center for Information and Systems Engineering Boston University.
- Control Education and the DARPA Grand Challenge, Richard M. Murray, Control and Dynamical Systems, California Institute of Technology.
- The Next Phase of the Information Technology Revolution, P.R. Kumar, University of Illinois, Urbana-Champaign.
- Controlling Air Traffic, Claire Tomlin, University of California, Berkeley.
- Control in Mechatronics and Robotics, Mark Spong, University of Illinois, Urbana-Champaign.
- Some uses for Computer-Aided Control System Design Software in Control Education, William S. Levine and Dimitrios Hristu-Varsakelis, University of Maryland.
- Application of Control Theory to the Problem of Epilepsy, Ivan Osorio, University of Kansas Medical Center and Mark Frei, Flint Hills Scientific, L.L.C.
- Random walk around some problems in stochastic systems and control, Dominique Duncan, Yale University, Tyrone Duncan and Bozena Pasik-Duncan, University of Kansas.
- Understanding Phenomena through Real Physical Objects—Controlling Pendulum, Katsuhisa Furuta, Tokyo Denki University, Japan.

- Risk Engineering – Past Successes and Future Challenges, John Baillieul, Intelligent Mechatronics Laboratory.
- Control of Unstable Flow Characteristics, Anuradha Annaswamy, MIT

That pioneering session initiated follow up education sessions focused on important conversations about what we as control community can do to be better communicators of our field, with K-12 teachers and students in particular and with the broader community of non-scientists in general.

The Special Education Session is held at every major conference co-sponsored by AACC. The recent discussion focused on multiple challenges and opportunities that are presented to students preparing for careers in science and engineering. One of the most important challenges for scholars and educators from academia and industry is to find the best way for cultivating student interest in science, math and engineering.

### **Announcements:**

The next workshop for high school students and teachers will be held at ACC'2011 in San Francisco, on Tuesday, June 28, 2011

The next Special Education Session will be held at ACC'2011 in San Francisco, on Thursday, June 30, 2011

## **Award Winners**

**ALERT: The nomination deadline for the AACC awards is November 1, 2011**

*In recent years we have not received a sufficient number of nominations for these awards, and we ask for your assistance with this important issue. Please contact your society colleagues, leadership, and society award committees and nominate a colleague today!*

### **2010 AACC Award Honorees**

- **Richard E. Bellman Control Heritage Award - Dragoslav D. Šiljak**  
For fundamental contributions to the theory of large-scale systems, decentralized control, and parametric approach to robust stability
- **Control Engineering Practice Award - Joseph Lu** For innovation in advanced control and optimization with sustained impact on the process industries
- **Donald P. Eckman Award - Domitilla Del Vecchio**  
For contributions to the theory and practice of hybrid dynamical systems and systems biology
- **John R. Ragazzini Award - Tzyh Jong Tarn**  
For substantial contributions to control education through teaching, mentoring of graduate students, and research in control theory and applications to robotics
- **O. Hugo Schuck Best Paper Award**
  - **For Theory:** "Stability of Feedback Switched Systems with State and Switching Delays," by **L. Vu** and **K. A. Morgansen**
  - **For Practice:** "A Control Approach to High-Speed Probe-Based Nanofabrication," by **Y. Yan, Q. Zou,** and **Z. Lin**

### **Congratulations to our 2010 IFAC Fellows**

- **Panos Antsaklis**
- **Siva Banda**
- **Ross Barmish**
- **Chris Byrnes (given posthumously)**
- **Tyrone Duncan**

- **Jessy Grizzle**
- **Mustafa Khammash**
- **Andrew Teel**
- **Masayoshi Tomizuka**
- **Galip Ulsoy**

## ***Congratulations to our 2011 IFAC Fellows***

- **John Baillieul**
- **Bassam Bamieh**
- **Shankar P. Bhattacharyya**
- **Edgar H. Bristol**
- **Jie Chen**
- **Christofides Panagiotis**
- **Arthur J. Krener**
- **Jay H. Lee**
- **Zongli Lin**

## **Chapter Society News**

### ***AICHE News***

#### ***Conference Announcement - CPC VIII***

CPC (Chemical Process Control) is the premier international conference on process control which takes place approximately every five years and aims to assess progress in the theory and practice of process control, and to identify major directions for research and technology development. CPC VIII will take place Jan.11-13, 2012, at the Westin Savannah Harbor Golf Resort & Spa, in Savannah, Georgia. The technical program includes strong industrial participation, invited oral presentations that provide authoritative overviews (most co-authored by academic and industrial leaders), contributed poster presentations, and interactive panel discussions. In addition to core subjects and applications in the process industries, energy and sustainability are highlighted, along with emerging technologies in the advanced materials and health-related industries. The conference chairs are Prodromos Daoutidis (U. Minnesota) and Don Bartusiak (ExxonMobil). Details can be found at the conference web site <http://www.cpcmeeting.org/>



***Prodromos Daoutidis,***  
***AICHE Alternate Director***  
***CPC General Chair***

### ***ASME News***



#### ***Invitation: DSCC 2011***

The 4th Annual Dynamic Systems and Control (DSC) conference, sponsored by the Dynamic Systems and Control Division (DSCD) of ASME International, will be held October 31 – November 2, 2011 in Arlington, Virginia, jointly with ASME/Bath Fluid Power Symposium sponsored by the Fluid Power Systems & Technology Division (FPSTD) of ASME International. All those interested in dynamic systems and control, and fluid power are encouraged to attend this conference. This conference is becoming the major venue for DSCD technical activities, professional meetings, and the DSCD awards banquet. The conference will feature a high-quality technical program, invited sessions, the Nyquist

Lecture, plenary and keynote sessions, special sessions, as well as social events. All accepted papers will be published on CD as part of the conference proceedings, and be accessible via the Engineering Index.

The organizing committees of the two events have worked out schemes to maximize the participants' experience from technical, social and financial points of view – **one registration fee grants access to both conferences!**

The DSC Conference technical program will cover topics from dynamical systems modeling, simulation, analysis, design, control theory, industrial applications, and dynamical systems and control education in technical, interactive, and tutorial sessions. The Fluid Power Symposium covers topics such as fluids, pumps and motors, valves, noise and vibration, digital hydraulics, efficient fluid power and control.

On behalf of the conference sponsors and organizing committee, I am pleased to invite you to Arlington, Virginia to attend the 2011 ASME Dynamic Systems and Control Conference.

*Eduardo Misawa  
General Chair, DSCC 2011*

## Conferences

### ***Invitation: The 2011 American Control Conference***

After many years, the ACC will be back in the beautiful city of San Francisco. In addition to the tradition of top quality conference with informative papers and presentations about the state of the art in the theory and practice of dynamic systems and automatic control, the 2011 ACC will offer new and exciting features that will make it a memorable and top quality meeting for all participants and their family and friends.

The 2011 ACC will be held at the San Francisco Hilton, right in the heart of the beautiful downtown San Francisco. The city of San Francisco offers many attractions for all participants and their spouses, family members, and friends. In addition to the top quality academic papers, this conference will feature industry presentations about the latest R&D advances in automatic control, major industry exhibits from both US and international companies, special government panel, frontier sessions, and workshops related to the advances in automatic control education.

The conference will be held from Wednesday through Friday (June 29 – July 1) with pre-conference workshops earlier that week. There will be four plenary speeches at the 2011ACC:

- Wednesday June 29, Industry Plenary: John Nelson, Lockheed Martin, “Technological Challenges of Human Space Transportation”
- Thursday June 30, Academic Plenary: Frank Doyle, UC Santa Barbara, “Feedback Control of the Artificial Pancreas”
- Friday July 1, both Industry and Academic Plenary: Domitilla Del Vecchio, MIT, “A Control Theory Approach to Engineering Bio-molecular Systems”
- Ray Piasecki, General Electric, “Smart Grid, an Enterprise View of Systems Control”





The conference will have 18 parallel technical tracks with three sessions every day. Industrial and tutorial sessions are included in the 18 parallel tracks. Three special sessions are planned for Wednesday evening. There are seven tutorial sessions:

WeA18: Control of Nanoscale Self Assembly

WeB18: In Situ Sensing, Metrology, and Control in Semiconductor Manufacturing

WeC18: An Introduction to Option Trading from a Control Perspective

ThA18: Workload, Power and Cooling Control Problems in Data Centers

ThB18: Control for Societal Challenges: Energy

ThC18: Control for Societal Challenges: Sustainable Growth

FrA18: Control and Optimization Theory for Electric Smart Grids

In addition, there are three industrial sessions organized for the 2011ACC, as listed below:

WeA17: Smart Grid Panel - Title: "Smart Grid: Challenges and Issues"

WeB17: Smart Grid and Demonstration Projects

WeC17: Unmanned Vehicle Technologies

There are special sessions designed to benefit the ACC participants. These are:

Session A: Planning the Next Step after Obtaining a PhD Degree

Session B: Funding Opportunities in Federal Agencies

Session C: Unified Mechatronic Framework for Research: Efficient High-Fidelity Modeling of Physical Systems & Mechatronic Design

We also have exciting plans for students, including the Best Student Paper Award. As has been the ACC tradition, we will hold the Award Luncheon on Thursday, June 30<sup>th</sup>. However, the award ceremony will be held from 5:45PM to 7:00PM on Thursday early evening.

On behalf of the organizing committee of the 2011 ACC, I would like to invite you to attend this exciting conference with its outstanding technical sessions, industry and government panel discussions, tutorials, exhibits, and workshops, and enjoy meeting your friends and colleagues in a unique and fabulous setting of the beautiful San Francisco.

Again, welcome and thank you for your contributions to the 2011 ACC. We hope you will join us in San Francisco to enjoy a beautiful city and an exciting conference, with the technical program, events, and opportunities to meet old and new friends.



***Rahmat Shoureshi***  
***2011 ACC General Chair***

***Faryar Jabbari***  
***2011 ACC Program Chair***



## Invitation to the 2012 American Control Conference



The 2012 “American” Control Conference will be the first ACC outside the U.S. The conference will overlap with the Montréal Jazz Festival, the world’s largest jazzfest. The conference will be held at the Fairmont Queen Elizabeth hotel in the heart of downtown with convenient access to all the attractions of this culturally rich, cosmopolitan, bilingual metropolis!

The outlines of the technical program are taking shape. We are planning on two “theme days,” each focusing on an industrial sector that is well represented in the Montréal area: *aerospace* and *energy*. (For example, Montréal has over 200 aerospace companies.) Each theme will include a semi-plenary and special track, including tutorial and invited sessions. We also hope to organize supporting evening sessions. To encourage local industry participants, we requested and obtained AACC permission to have a one-day registration fee (on-site only, no paper upload privileges). The theme days are tentatively penciled in for Wednesday and Thursday.

In addition to the special themes, the conference technical, (semi-)plenary, and special sessions will reflect the diversity of theory and applications of control that is one of the hallmarks of an ACC. Friday will feature a full plenary—we hope to announce by whom soon!

We completed a memorandum of understanding with IFAC Canada in December 2010. Under the terms of this MoU, IFAC Canada will provide equipment and personnel for the registration desk and student volunteers. The conference will host a special session organized by IFAC Canada and we will help promote the organization.

ACC 2012 brings an opportunity to attract Canadian control scientists and engineers who would rarely or never attend an ACC. We plan on advertising the conference in Canadian publications such as IEEE Canada Review. IFAC Canada will also assist us in the outreach.

For more on ACC 2012, see <http://a2c2.org/conferences/acc2012>.



***Tariq Samad,***  
***2012 ACC General Chair***



***Dawn Tilbury***  
***2012 ACC Program Chair***

## ***Plan to Attend the 2013 American Control Conference***

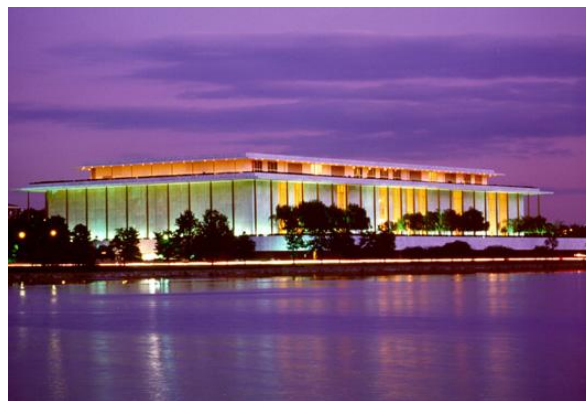
**Renaissance Hotel  
Washington, D.C.  
June 17-19, 2013**

For over 50 years, the American Control Conference (ACC) has been the premier technical conference in North America in the automatic controls area, and the ACC has enjoyed strong international participation that significantly enhances the conference. The 2013 American Control Conference will be held in Washington, D.C. While the ACC has been held in nearby cities in the past, this will be the first ACC in the capital city of the United States of America. The 2013 ACC will be held at the Renaissance Hotel, centrally located in downtown Washington, D.C. within 7 blocks of the White House, the US Capitol building, the National Mall, and the Smithsonian Institution. The hotel is also within 2 blocks of an extensive restaurant district. The traditional conference banquet will be transformed to an evening at the National Air and Space Museum (NASM) on June 18, 2013. ACC attendees and their guests will have exclusive use of the museum for the evening, including screenings of shows in NASM's IMAX Theater and Planetarium.



*The National Mall (photo courtesy of Destination D.C.)*

The ACC is held in cooperation with the International Federation of Automatic Control (IFAC) and is sponsored by the eight member societies of the American Automatic Control Council (AACC): AIAA, AIChE, ASCE, ASME, IEEE, ISA, SCS, and SIAM. Volunteers from these societies form the backbone of the AACC and ACC, and their efforts have allowed the organization and conference to flourish over the years. ACC is a conference that provides a forum for bringing industry and academia together to discuss the latest developments in the area of automatic control systems, from new control theories, to advances in sensors and actuator technologies, to new application areas for automation. We welcome ideas you may have for enhancing the quality and goals of the 2013 ACC, and we encourage you to organize special sessions and make technical contributions to the 2013 ACC.

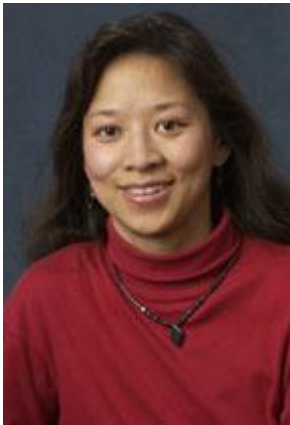


*Kennedy Center (photo courtesy of Destination D.C.)*

The 2013 ACC Operating Committee is already working hard to organize an excellent technical program as well as a rewarding and memorable conference experience: Lucy Pao (General Chair), Daniel Abramovitch (Program Chair), Kathryn Johnson (Invited Sessions), Haitham Hindi (Industry & Applications), L. K. Mestha (Special Sessions), Sean Andersson (Exhibits), Peter Meckl (Finance), Zongli Lin (Local Arrangements), Randal Beard (Publications), Santosh Devasia (Publicity), Eric Frew (Registration), Carolyn Beck (Student Affairs), and Karlene Hoo (Workshops).

Thanks to the efforts of Santosh Devasia, our Publicity Chair, the 2013 ACC website is already up, and we invite you to visit <http://a2c2.org/conferences/acc2013>. The site content will be enhanced regularly as planning progresses. Comments and suggestions are welcome and can be sent to the General Chair, Lucy Pao ([pao@colorado.edu](mailto:pao@colorado.edu)), or the Program Chair, Daniel Abramovitch ([danny@agilent.com](mailto:danny@agilent.com)).

Continue to stay tuned as future announcements unveil more information about the 2013 ACC!



*Lucy Pao*  
*2013 ACC General Chair*



*Danny Abramovitch*  
*2013 ACC Program Chair*

## ***Plan to Attend the 2014 American Control Conference***

In 2014, the ACC is planning to return to the beautiful city of Portland, Oregon -- also known as the City of Roses. The conference will occur in early June during the Rose Festival -- annually one of the top three most highly decorated events by the International Festivals & Events Association (IFEA).



*Portland Skyline (photo courtesy of "Travel Portland": <http://www.travelportland.com>)*

Portland is frequently recognized for its environmentally-friendly practices and ranks among the world's top 10 greenest cities. Public transportation is excellent -- and free within the vibrant downtown area. There are plenty of good restaurants (Portland was recently chosen as the "Delicious Destination of the Year"), in addition to the well-known micro-breweries and coffee

shops. To complement the many parks within the city limits, Mt. Hood, the Columbia River Gorge, and the Willamette Valley Wine Country are nearby beautiful green spaces to visit.

But don't let the festivals, restaurants, and natural beauty distract you too much -- there will also be an exciting technical program covering all aspects of the theory and practice of automatic control! It's not too early to send suggestions, especially regarding potential interactions with local industry. We hope to see you at the ACC in Portland in June 2014.

*Dawn Tilbury  
2014 ACC General Chair*



**ACC Policy**

**Paper Submission Format:** All papers submitted to the ACC for review must be prepared in the standard 2-column proceedings format. See the Author's Kit at the conference website for Word and LaTeX style files. For the purposes of review, regular and invited papers are limited to 8 pages and short papers to 3 pages. Papers exceeding these limits will not be reviewed. All submissions for the conference technical program must be done through the following website: <http://css.paperplaza.net>.

**Paper Publication:** Accepted short papers are limited to 2 pages; regular and all other papers are limited to 6 pages. Papers exceeding these limits will be published in the conference *Proceedings* only after payment for all extra pages is received.

**Registration Fee:** One regular registration fee at the advance registration rates must be paid by one of the authors before uploading the final version of the paper for inclusion in the conference.

**AACC Newsletter Editor Solicits Contributions**



I invite all AACC constituents to submit articles, announcements, ideas, and suggestions that will enrich the quality of our publication. Please send all submissions to me via email ([mthein@cisunix.unh.edu](mailto:mthein@cisunix.unh.edu)).

I thank you all in advance for your continuing contributions and support for our AACC Newsletter.

*May-Win Thein  
Editor, AACC Newsletter*

## Invitation

### 2011 ASME Dynamic Systems and Control Conference

October 31 – November 2, 2011  
Westin Arlington Gateway Hotel  
Arlington, Virginia USA  
<http://www.dsc-conference.org>

### and Bath/ASME Symposium on Fluid Power and Motion Control

The 4th Annual Dynamic Systems and Control (DSC) conference, sponsored by the Dynamic Systems and Control Division (DSCD) of ASME International, will be held October 31 – November 2, 2011 in Arlington, Virginia, jointly with ASME/Bath Fluid Power Symposium sponsored by the Fluid Power Systems & Technology Division (FPSTD) of ASME International. All those interested in dynamic systems and control, and fluid power are encouraged to attend this conference. This conference is becoming the major venue for DSCD technical activities, professional meetings, and the DSCD awards banquet. The conference will feature a high-quality technical program, invited sessions, the Nyquist Lecture, plenary and keynote sessions, special sessions, as well as social events. All accepted papers will be published on CD as part of the conference proceedings, and be accessible via the Engineering Index. The DSC Conference technical program will cover topics from dynamical systems modeling, simulation, analysis, design, control theory, industrial applications, and dynamical systems and control education in technical, interactive, and tutorial sessions. The Fluid Power Symposium covers topics such as fluids, pumps and motors, valves, noise and vibration, digital hydraulics, efficient fluid power and control.

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