We have completed this summer a very successful American Control Conference (ACC), held in Baltimore, Maryland (June 30-July 2), which was a memorable event in terms of both the quality of its technical program and the smoothness of its organization. Glenn Masada (General Chair), Richard Braatz (Program Chair), and the entire operating and programming committee members deserve recognition and our thanks for all their efforts in making this conference such a successful one. For readers of this Newsletter who were not able to attend the ACC this year, the papers included in the Proceedings volume can be accessed, as in the past, through IEEE Xplore.

Sponsoring the ACC (both technically and financially) is one of the major responsibilities and activities of the American Automatic Control Council (AACC). For the benefit of those readers who may not be that familiar with AACC, let me succinctly describe its structure and responsibilities. AACC is an umbrella organization, which is an association of the control systems divisions of eight member societies (AIAA, AIChE, AISE, ASCE, ASME, IEEE, ISA, and SCS). Executive Officers of AACC are its president, past president, president-elect, treasurer, and secretary. In addition to sponsoring the ACC, another major responsibility of AACC is to represent the member societies in the International Federation of Automatic Control (IFAC). The AACC Board of Directors, composed of representatives from each of the eight member societies I listed, meets twice a year, one of which is during the ACC. The Board is responsible for the nomination and selection of the General and Program Chairs for each conference, and approval of the budget for each ACC. The General and Program Chairs select the Operating and Programming Committees, select plenary speakers and special sessions, and set the general tone of the conference. The Board is also responsible for the AACC awards, from selection of the awards committee chair to the final approval of the slate of candidates recommended by that chair based on recommendations of awards subcommittees. AACC awards are presented during the ACC, and this year, as in the last couple of years, the Awards Ceremony was held separately from the ACC Luncheon (in a separate room just preceding the luncheon, on the second day of the conference). The ceremony was very well attended, and the accomplishments of the recipients of the 2010 AACC Awards were duly recognized. The recipients of our four individual awards and two paper awards were as follows:
Richard E. Bellman Control Heritage Award, which recognizes distinguished career contributions to the theory or application of automatic control, and is the highest recognition of professional achievement for U.S. control systems engineers and scientists, was given to Dragošlav D. Šiljak, Professor of Electrical Engineering, Santa Clara University, Santa Clara, California, for fundamental contributions to the theory of large-scale systems, decentralized control, and parametric approach to robust stability.

John R. Ragazzini Education Award, which recognizes outstanding contributions to automatic control education in any form, was given to Tzyh Jong Tarn, Professor at Washington University, Saint Louis, Missouri, for substantial contributions to control education through teaching, mentoring of graduate students, and research in control theory and applications to robotics.

Control Engineering Practice Award, which recognizes an individual or a team for a significant contribution to the advancement of control practice, was given to Joseph Lu, Chief Scientist and Senior Fellow at Honeywell Process Solutions, Phoenix, Arizona, for innovation in advanced control and optimization with sustained impact on the process industries.

Donald P. Eckman Award, which recognizes an outstanding young engineer in the field of automatic control under the age of 35, was given to Domitilla Del Vecchio of the University of Michigan, Ann Arbor, Michigan (since then at the Massachusetts Institute of Technology), for contributions to the theory and practice of hybrid dynamical systems and systems biology.

O. Hugo Schuck Best Paper Award in the Theory Category, which recognizes a paper presented at the previous ACC, making outstanding contributions to theory, was given to Linh Vu and Kristi A. Morgansen for their 2009 ACC paper “Stability of Feedback Switched Systems with State and Switching Delays.”

O. Hugo Schuck Best Paper Award in the Applications Category, which recognizes a paper presented at the previous ACC, making outstanding contributions to applications, was given to Yan Yan, Qingze Zou, and Zhiqun Lin for their 2009 ACC paper “A Control Approach to High-Speed Probe-Based Nanofabrication.”

The AACC Awards Committee was chaired by Stepen Yurkovich, and the sub-committee chairs were N. Harris McClamroch, Lalit K. Mestha, Masoud Soroush, Andrew R. Teel, and M. Vidyasagar. I thank Steve for chairing the committee, and all sub-committee chairs for handling the selection of the individual awards. And I encourage you all to submit nominations for next year’s awards. The deadline is November 1, 2010, and procedural details can be found on our website which will be made current very soon.

In addition to the awards listed above, the awards ceremony also recognized the five finalists and the winner of the 2010 ACC Best Student-Paper Award. The selection of the five finalists was made based on the written (Proceedings) version of the papers. The winner was also chosen based on the presentation by the student during the ACC. The finalist students (selected from among 48 nominations) were Florian Dörfler (University of California at Santa Barbara), Shalom D. Rubin (University of California at Los Angeles), Mario Sassano (Imperial College), Huibing Yin (University of Illinois at Urbana-Champaign), and Tansel Yücelen (Georgia Institute of Technology), and the winner was Florian Dörfler. I congratulate them all, and also thank Douglas Lawrence for handling the selection process as Vice Chair of Student Affairs for the 2010 ACC.

This year we also had some special guests at the ACC. We played host to the annual (2010) meeting of the IFAC Council, and welcomed to Baltimore, in addition to the entire IFAC council, the NMO representatives, and chairs and members of various committees of IFAC. Our guests were also treated to a dinner cruise on July 1 on a lovely evening. One of the important items on the agenda of the IFAC Council was the selection of the site of the 2017 IFAC Congress, which went to France, with the designated city being Toulouse. As is well known, the 2014 Congress will be held in Cape Town, South Africa, and the immediately upcoming one, in 2011 will be in Milan, Italy (August 28 - September 2). The deadline for submission of papers to this congress is fast approaching, which is September 30 (for more details, see http://www.ifac2011.org/). I hope there will be a strong US participation in Milan, and the first step in assuring this is of course to make sure that there is a strong inflow of paper submissions from US authors. As AACC, we are planning on having a strong presence at the congress, by also hosting a reception one of the evenings during the week-long event.

Another deadline that is now here (September 22) is the submission of papers to the next ACC <http://www.a2c2.org/conferences/acc2011/> , which will be held in San Francisco, California, June 29 – July 1, 2011. General Chair, Rahmat Shoureshi, Program Chair, Faryar Jabbari, and the entire organizing and program committees of the 2011 ACC are working hard to put together a high quality, rewarding, and exciting conference. I hope you are already making plans to attend it, and I hope to see as many of you there as possible.
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’s Newsletter Report

The AACC Board appointed ACC General Chairs through 2015, with future ACC locations of San Francisco, Montreal, Washington D.C., possibly Hawaii, then possibly Chicago. Visiting the Operating Committee meetings at the Baltimore ACC, I was very pleased with the energy level and extent of involvement of the organizers. Future ACCs are all shaping up to be successes.

As part of the continuing evolution to optimize the ACCs, starting with 2011 we will take advantage of computerized program support, and use society review chairs to suggest sessions by matching keywords from the manuscripts, then a subset of the program committee will fine tune the program. The program committee, reviewers, society review chairs and vice chairs will still be essential to evaluate full-paper manuscripts.

ACCs will be seeking to increase the student industry interactions. Each ACC gathers about 300 soon-to-graduate MS and PhDs from all disciplines, seeking employment, many of whom are presenting their work. This assemblage provides a prime recruiting opportunity for industry. We will be seeking to use special sessions, workshops, tutorial and invited sessions, and exhibits to enhance the effectiveness of the corporate presence.

Russell Rhinehart
AACC Vice-President

AACC Nomination Process

As a Past President of AACC one of my responsibilities was the nomination of the Vice President and President Elect. I thought it might be of interest to review how the nomination process works. The President Elect first serves two years as Vice President, then two years as President and finally two additional years as Past President, and so makes a six year commitment to serve AACC.

The nominee must come from a pool of candidates who have already served on the AACC Board as Directors, representing one of the member societies (i.e., AIAA, AIChE, AISE, ASCE, ASME, IEEE, ISA and SCS). The current Directors are asked to make nominations, also considering the fact that the Presidency should rotate among the member societies in a manner that reflects the level of participation by the various member societies.

Current and recent Presidents of AACC are listed below:
2010-2012 Tamer Basar (IEEE)
2008-2009 B. Wayne Bequette (AIChE)
2006-2007 A. Galip Ulsoy (ASME)
2004-2005 William Levine (IEEE)
2002-2003 Christos Georgakis (AIChE)
2000-2001 Naim Kheir (SCS)
1998-1999 Masayoshi Tomizuka (ASME)

Consequently, in this year’s nomination process Directors were asked to prefer nominees from AIAA, AISE, ASCE or ISA. The Directors were asked to rank their top three choices, and a total of nine nominees were considered. Based on this ranking, a top nominee emerged. That nominee was then contacted by me to ascertain if he would be willing to serve if elected. The
nominee agreed to serve, and so his name was brought forth to the AACC Board meeting held at the 2009 ACC. The Board then held a vote to elect the nominee as the new President Elect and Vice President of AACC. Our new President Elect is R. Russell Rhinehart from ISA.

If you would like to learn more about how the AACC operates, the web site at www.a2c2.org includes links to the AACC constitution and Bylaws.

Galip Ulsoy  
AACC President, 2006-2007

Global Concerns (2009-2010)

Abraham Haddad  
IFAC Council Member

Global Concerns XXXIV (2009)

This column is concerned with the latest news from IFAC as discussed at the latest Council meeting in June in London. Overall IFAC activities continue to be on track, and the IFAC Papers-On-Line is doing very well in providing the publication venue for almost all IFAC technical meetings in recent years. It is to be hoped that many of you have explored IFAC Papers-On-Line successfully. I wish to report on three major items of interest.

The first has to be the proposals for the 2017 IFAC World Congress. At the meeting, the Council considered seven preliminary proposals for the Congress. Based on presentations made by the NMOs submitting these proposals, the Council selected three finalists to submit full proposals for the 2010 meeting of the Council. The three are in alphabetical order: France, with Toulouse as the proposed venue; Japan, with Yokohama as the venue; and the Netherlands with Amsterdam as the venue. All three are worthy proposals.

The second involves IFAC awards. It is important that nominations are to be generated for the many IFAC awards, especially, for those with high visibility including the Quazza and Nichols Medals, and the Industrial Achievement Award. In addition, it appears that the most recent addition to the IFAC awards, that of IFAC Fellow, is also in need of more nominations, so that the prestige of the award continues to be very high. To that end the Council appointed a Fellow Search Committee to help identify persons who deserve to be nominated and also identify someone who will carry out the nomination process. Since there is a maximum number of Fellows to be elected each year, the higher the number of worthy nominations, the higher the selectivity of the Fellow Award. It is hoped that the NMOs take the initiatives to nominate individuals who are the recipients of prestigious awards by other national or international societies.

The third item involves the location of the next IFAC Council meeting. The Council accepted the invitation of the AACC to hold its next meeting during the 2010 ACC in Baltimore. The meeting took place on July 3, preceded by the meetings of the related boards and committees. We wanted the attendees of the ACC, especially, members of the AACC Board and other AACC volunteers to take the time to meet with members of the IFAC family during the ACC. The last time the Council met during an ACC was in 2001. We planned this meeting to be equally productive to IFAC and the AACC.
**Global Concerns XXXV (2010)**

As mentioned in *Global Concerns XXXIV*, this year the IFAC Council meeting and related series of Committee meetings were held in Baltimore during the 2010 ACC. The hospitality of the ACC and AACC was appreciated by the IFAC officials, who appreciated the venues and arrangements for the various meetings and they specially appreciated the Thursday evening dinner cruise which was attended by AACC and IFAC officials. AACC President Tamer Basar served as host.

The key decision made during the Council meeting was the selection of the location of the IFAC 2017 World Congress. The French NMO will host the 2017 Congress in Toulouse and the President during the period 2014-17 will be Dr. Janan Zaytoon who is now a member of the IFAC Council. This can be viewed as a historic occasion in that this will be the second Congress hosted by France (the first was in Paris in 1972), which makes France as the first NMO outside the Americas to host two congresses. It is interesting to note that the USSR hosted two congresses: 1960 in Moscow and 1990 in Tallinn, Estonia. Since Estonia is now an NMO on its own, then the USA remains the only NMO until now to host two congresses: 1975 in Boston and 1996 in San Francisco (does this mean that the US is ready to host a third congress in Chicago in the next 10 years?)

How did the French NMO accomplish this historic feat? It all has to do with a group of very active and committed volunteers on the IFAC Technical and other committees. The result was that France organized quite a few IFAC Technical meetings during the last six years. These meetings were not only well-attended but they were also well-organized both technically and socially. If any NMO wishes to propose to host a future IFAC Congress, it could not fail if it uses France as a model.

Other key decisions taken by the IFAC Council at its meeting in Baltimore involves awards and Fellow selection. An important note is that while Fellows will continue to be elected annually, the ceremony of presenting the award will only take place every three years during the IFAC Congress.

**AACC Treasurer Office Changes Hands**

Dr. Jordan M. Berg replaced R. Russell Rhinehart as Treasurer for the AACC. The Treasurer’s Office is part of the behind-the-scene activity that makes the AACC work. The Treasurer handles all of the AACC finances, helps the conference officers create a budget, pays dues to the AACC membership to IFAC, invoices societies for dues, files all federal tax forms, returns any annual excess to the member societies, and keeps all financial records since the AACC inception in 1964. While other AACC officers and society delegates serve two-year terms, the Secretary and Treasurer are the two “permanent” positions within the AACC filling essential tasks, and providing our corporate memory.

As AACC Treasurer, Russ designed finance software to automate many of the budget management tasks, was the agent to convert both the AACC and ACCs to actual-based budgeting, and created forms and instructions to help new ACC General Chairs and Finance Chairs. As Treasurer, he used the opportunity of several profitable conferences and publication years to build an AACC financial reserve from “not much” to something adequate to cover two years operating expenses, and survival of AACC, should uncontrollable events affect annual income streams.

*Russell Rhinehart, Past AACC Treasurer*
“One of my favorite activities is depositing and writing checks in the $100k to $¼M range.” Russ says. “I let my office people, hoping that good luck will flow to them also. At least, it gives them a story to tell family that evening. Of course, to have that joy, I need to file AACC tax forms.”

Russ had been Treasurer for the past 6 years, and prior to that, active in AACC and ACC events. He was General Chair for the 2002 ACC in Anchorage, Alaska, an experiment in holding an ACC outside of the “Lower 48” which opened the door for acceptance of holding the 2011 ACC in Montreal.

Russ says, “Running the 2002 Alaska conference was a lot of work, but thankfully I had a great OpCom. The General Chair position is a wonderful opportunity to demonstrate organizational and leadership skills.”

“My wife, Donna, and I enjoyed our several trips to Anchorage during the site selection and planning stages. The people are high energy, robust, reliable, and friendly. They gave us a dog-sled ride through the wild; long enough to leave bruised but not damaged.”

Supporting AACC desires to increase industrial participation, Russ drafted the criteria for the AACC Control Engineering Practice Award, and created the Tutorial Session concept. These activities led to the creation of the ACC Operating Committee position Vice Chair for Industry and Applications, first appearing in the 1997 ACC, on which Russ had been appointed as Publicity Chair. He subsequently served in that role for the 1999 ACC. Russ mentions that “AACC officers Dagfinn Gangassas, Bill Perkins, Boyd Pearson, Tom Edgar, Naim Kheir, ‘Tomi’ Tomizuka, and Abe Haddad were all advocates for these changes.” Russ’ AACC activities started in 1991 when he was appointed by ISA as alternate delegate to the Board of Directors, and from 1995 to 2001 he served as the ACC Society Review Chair for ISA.

Russ’ 1968 B.S. in Chemical Engineering and subsequent M.S. in Nuclear Engineering are both from the University of Maryland. His 1985 Ph.D. in Chemical Engineering is from North Carolina State University. In between, he worked in the chemical industry for 13 years. He started his academic career at Texas Tech University, and 12 years later moved to Oklahoma State University as Head of the School of Chemical Engineering. After 11 years as Head, he returned to a faculty position at OK State to pursue research interests in automating process management decisions and in modeling product characteristics.

Russ is Editor-in-Chief of ISA Transactions (since 1998), Editorial Advisory Board member for Control Magazine, and a member of several ISA committees, including one working to establish Automation Engineering as a discipline within the US. Key past positions have included Process Control Systems Forum Governing Board member, and Director of the Automatic Control Systems Division of ISA. He is a Fellow of ISA, and a CONTROL Automation Hall of Fame inductee.

As new AACC Treasurer, Jordan Berg will continue the evolution of finance and budget forms and materials to help streamline activities for the ACC General and Finance Chairs. He will also help prepare the U.S.A. bid to hold a future IFAC World Congress.
Jordan has been active in ACC activities since 2002, including serving as Finance Chair for the 2005 ACC in Portland, and the 2007 ACC in New York City. He sees these as excellent preparation for his new role. Jordan recalled, “I was very fortunate to work with two General Chairs—Suhada Jayasuriya and Bob Judd—who showed me how to run a successful conference. I look forward to putting their lessons to good use.” Asked if he has any specific goals in mind, Jordan replied, “Of course putting together a strong bid for the IFAC World Congress is a top priority. Also, Russ worked very hard to give the AACC deep, stable finances and I feel it is important to protect that position against economic uncertainties.” He continued, “The rules governing non-profit organizations like AACC can be pretty overwhelming. Russ has been very patiently bringing me up to speed. Overall it has been a smooth transition for me, because Russ has everything running so well.”

Jordan received his B.S.E. in Mechanical and Aerospace Engineering in 1981 from Princeton University, and received his M.S.E. from the same department in 1986. He worked for several years as satellite attitude control analyst at RCA Astro-Electronics in East Windsor, NJ. There he supported several communication satellite launches, in addition to control system design and analysis duties. In 1992 he received a Ph.D. in Mechanical Engineering and Mechanics and an M.S. in Mathematics and Computer Science from Drexel University. He held postdoctoral positions at USAF Wright Laboratories in Ohio, and at the Institute for Mathematics and its Applications in Minneapolis. In 1996 he joined the Mechanical Engineering Department of Texas Tech University, where he is now a Professor and co-Director of the Nano Tech Center. His main research interests are in the modeling, design, simulation, and control of micro- and nanosystems. He has served as Associate Editor of the IEEE Transactions on Automatic Control and the ASME Journal of Dynamic Systems, Measurement, and Control. From January to August of 2008 he traveled in Sri Lanka with his family as a Fulbright scholar, teaching and pursuing collaborative research opportunities.

Russell Rhinehart  
Past Treasurer  

Jordan Berg  
Current Treasurer  

AACC Events

The 2009 American Control Conference

The 2009 American Control Conference (ACC) was held June 10-12 2009 at the Hyatt Regency Riverfront in St. Louis, Missouri. The ACC has been held under the auspices of the American Automatic Control Council (AACC), the U.S. National Member Organization of the International Federation of Automatic Control (IFAC). The ACC brings together individuals working in control, automation, and related areas from the American Institute of Aeronautics and Astronautics (AIAA), the American Institute of Chemical Engineers (AIChE), the Association for Iron and Steel Technology (AIST), the American Society of Civil Engineers (ASCE), the Institute of Electrical and Electronics Engineers (IEEE), the International Society for Measurement and Control (ISA), and the Society for Computer Simulation (SCS).

The venue for this conference provided a great environment for interaction among the attendees, and enjoyment of the local attractions and rich culture. The weather was in general great. It rained briefly on Tuesday early evening, but this did not deter the attendees to come out to see the sights of St. Louis from Kemoll’s Top of the MET (42nd floor) restaurant. I think it is fair to say we all had great food and unlimited beverages along with the sights of the riverfront, the ball park, and downtown, which set the stage for a successful conference.

The success of this conference can be attributed to the 2009 Op Com, attendees, authors, presenters and chairs that made the conference alive and memorable. The logistics in bringing the event together was masterfully handled by the very able and enthusiastic operating committee and their devoted graduate and post-doctoral students. The devoted team put three years of their own time into the planning and then executed the plan effortlessly to make the conference run smooth and successfully.

The Technical Program

The exciting and diversified technical program was put together by the Program Chair, John Chiasson, and the Vice-Chairs Biao Huang, Danny Abramovitch, and Fahmida Chowdhury. Many praises should be heaped upon the reviewers and associate editors for their perseverance in obtaining and completing the reviews. The operating committee had the support of a great Program Committee and the leadership of John Chiasson to assemble the technical program at the 2008 CDC meeting (Cancun, Mexico) in December of 2008. The program for the 2009 ACC was based on excellent material that authors world-wide submitted to the conference: there were 1,418 submissions, an increase by 10% from 2008. The final manuscript acceptance
rate was 68%, which led to a very high quality program. The final program consists of 129 contributed sessions, 29 invited sessions, and 5 tutorial sessions distributed over 3 days of the conference.

In addition to the technical sessions there were a number of exceptional special sessions and industrial-sponsored sessions that are distributed throughout the conference. Five such sessions have been scheduled on Wednesday, four sessions on Thursday and two more sessions on Friday. In addition to the submitted papers there were three plenary talks given by Professor George Verghese, Massachusetts Institute of Technology (Getting to the Gray Box: Some Challenges for Model Reduction), Professor Panos Antsaklis, Univ. Notre Dame (From Hybrid to Networked Cyber-Physical Systems) and Dr. Asuman Ozdaglar, Massachusetts Institute of Technology (Learning and Dynamics in Networks; she also was the 2008 Eckman awardee). A video presentation of their presentations can be found on the web page http://a2c2.org/conferences/acc2009/plenary.htm.

The five special sessions that were organized by Vice Chair for Special and Interactive Session, Fahmida Chowdhury were: Modeling and Control of Micro and Nanosystems, Simulation of Atomic Force Microscope with applications to image analysis and control design, Controls Research and Development in India: A Conversation with M. Vidyasagar, Control Engineering and Related Systems Approaches for Improving Behavioral Health, and Batch On-line Analytics for Every User.

There were six industrial sponsors, Boeing, Emerson Process Management, Honeywell, National Instruments, The Mathworks, and United Technologies Research. Their contributions are greatly appreciated and the funds have been used to cover costs associated with the conference. Almost all held industrial-sponsored sessions. For the first time, a special student contest on “Collective Intelligence Challenge Problem” sponsored by Mr. Michael Moan (Raytheon) was held and well attended. In addition IEEE CSS and AACC Technical Committees on Control Education sponsored two evening session the first entitled, “Preparing tomorrow’s scientists and engineers for the challenges of the 21st century” that featured the NSF Graduate- K12 Program Director; and a second entitled, “The Power, Beauty and Excitement of a Field that Spans Science, Technology, Engineering and Mathematics workshop for high school teachers.”

The permanent record of the conference is in the form of CD proceedings, which was designed and assembled by the Publications Chair, Andrea Serrani, with the program information transferred from PaperPlaza managed by Pradeep Misra.

### The Tutorials

The industry and applications tutorials were organized by the Industry and Applications Vice-Chair, Danny Abramovitch. The tutorials focused on applied research, and covered a broad set of topics and industries. The five tutorials presented this year were:

1. A Tutorial on the Control of Wind Turbines and Wind Farms
2. Bridging the Gap between Academia and Industry
3. Business and Bandwidth: A Tutorial on How Business and Use Models Affect Industrial Control
4. Applied Fractional Calculus in Controls
5. Control in Modern Printing Systems: Modular Reconfigurable Media Paths, Color Consistency, Fuser Process, and Registration

### The Exhibits

The Exhibits Chair, Rich O’Brien, managed to recruit 9 exhibitors in the face of hard economic climate. The exhibitors were well integrated with the other events of the conference by locating their booths in the highly visible foyer area in front of the 4th floor ballrooms, meeting rooms, and conference registration desk. This setting allowed for ready contact and interaction among the conference attendees and exhibitors.

### The Workshops

The pre-conference workshops held on Monday and Tuesday before the main conference technical program were organized by the enthusiastic Workshops Chair, Michael Moan. A total of 6 one-day workshops (3 on Monday and 3 on Tuesday) were held. The workshops held this year were: Model predictive control: design and implementation using Matlab; On stock market trading and portfolio optimization: a control systems perspective; Quantitative local analysis of nonlinear systems using sum-of-squares decompositions; Real-time optimization of nonlinear dynamical systems; Optimal control of switching/hybrid systems with applications to hybrid electric vehicles, dc-dc converters, and autonomous mobile robots; and Applied fractional calculus in controls and signal processing.

### Local Arrangements and Social Events

One of the highlights of the conference, other than the technical program, was the social program: the Local Arrangements Chair, Shirley Dyke, put together a series of social events that included healthy “grab-n-go eats” with Starbucks coffee every morning for all participants, and coffee breaks twice each day for three days that featured special foods of St. Louis (Ted
Drewes ice cream, Pretzels, Fitz soda pop, Gooey butter cake). The opening ceremony was held at Kemoll’s Top-of-The Met restaurant on the 42nd floor. Special treats included an open bar, toasted ravioli and locally brewed, Schlafly beer. The view from the Top-of-The Met was breathtaking looking over the riverfront and the various athletic stadiums. The conference luncheon was held on Thursday at the Hyatt and featured the choice of vegetarian or non-vegetarian. The awards ceremony preceded the conference lunch and was well attended. The Closing Reception was held at the Hyatt with a menu of carved meats, hot plates, vegetarian delights (humus, tahini, sweet potato chips), open-bar, and a potpourri of sweets. No one walked away not sated.

The Awards
The American Automatic Control Council (AACC) presents a series of five awards each year to recognize excellence and achievement for technological, scientific, and educational contributions in the field of automatic control. These awards, along with the Best Student Paper Award were made at the awards ceremony. The awardees this year were:

- Donald P. Eckman Award winner: Paulo Tabuada (University of California at Los Angeles) for pioneering contributions in the design and implementation of hybrid and embedded control systems.
- Control Engineering Practice Award winner: Suresh M. Joshi (NASA Langley Research Center) for outstanding contributions to control systems analysis and synthesis methodologies for advanced aerospace vehicles and systems.
- John R. Ragazzini Award winner: George Stephanopoulos (Massachusetts Institute of Technology), for outstanding contributions in process control and systems engineering education through classroom teaching, textbook and monograph publication, and graduate student mentorship.
- Richard E. Bellman Control Heritage Award winner: George Leitmann (Univ. of California, Berkeley) for distinguished career contributions to the theory or application of automatic control. It is the highest recognition of professional achievement for US control systems engineers and scientists.

Conference Attendees
The Registration Chair, May-Win Thein, managed the registration process and the registration desk during the conference. She and her team were kept very busy given that 1008 people attended the conference.

Among the attendees, 263 were students, an increasing important crowd of young participants in this conference. The Vice Chair for Student Affairs, Hosam Fathy, managed the activities devoted to the students. One of the activities is the financial travel support that the conference provides to students with funds provided by the AACC, the National Science Foundation (NSF), the Control System Society of the Institute of Electrical and Electronic Engineers (IEEE), the Dynamic Systems and Control Division of the American Society of Mechanical Engineers (ASME), and the industrial sponsors. Their generous support allowed the conference to support the travel of several students. Another important activity for the students is Best Student Paper Competition. The winner this year was Raghvendra Cowlagi, with the paper, “Shortest Distance Problems in Graphs Using History-Dependent Transition Costs with Application to Kinodynamic Path Planning.” The other finalists were Brian Rigney, Aline Maalouf, and Vinicius Mariano. VC Fathy went the extra distance by creating an automated system to help students find roommates and also to assist in a timely manner with student affairs.

The number of conference attendees shows that the ACC is indeed one of the main conferences for the Controls community and also shows that the great promotion handled by the Publicity Chair Lawrence Holloway

Finance
It is not the objective of any ACC to have a surplus after the conference. However, it is not uncommon for the ACC to have a net surplus which will be distributed back to the AACC member societies based on the number of papers and attendees from each society. The conference finances have been handled by the outstanding and fastidious Finance Chair, Jing Sun, who made sure that we stayed within budget, communicated to all those who needed to sign off on invoices, and by tracking all the financial matters relentlessly throughout the conference. At the time of this writing she (even though on summer employment with ONR) is working diligently to “remit the invoices”, “send invoices to societies”, and in general “close all the books” and prepare for the necessary audit.
Personal Reflection
As the General Chair for this conference, I would like to express my thanks to all the authors, session chairs, members of the program committee, numerous anonymous reviewers, Paperplaza support team, student helpers, and members of the operating committee that made this conference a tremendous success. As most attendees know, the ACC is run 100% by volunteers who generously provide a lot of time and effort to make the conference run smoothly. The merit of conference success is all yours! Last but not least, I would like to recognize our significant others, families and friends, who sacrificed when we were working on conference matters and were absent from their lives!

Karlene A. Hoo
2009 ACC General Chair

John Chiasson
2009 ACC Program Chair

The 2010 American Control Conference

The 2010 American Control Conference (ACC) was held June 30-July 2, 2010, at the Marriott Waterfront Hotel in Baltimore, Maryland. With 1323 registered participants, this conference was the largest ACC to date. The 22 parallel technical sessions, five workshops, five special sessions, five plenaries, six industry-sponsored sessions, 14 exhibit booths, and eight tutorial sessions provided participants with a plethora of opportunities to convey and learn the latest advancements in the theory and application of control systems and related topics. The Marriott venue provided participants with sunlight, spacious presentation rooms, and beautiful views of the scenic Baltimore Inner Harbor. The Welcome and Closing Receptions were held at the Baltimore National Aquarium and the Baltimore Science Center, respectively, to allow participants to socialize outside of the conference hotel.

Five major American Automatic Control Council (AACC) awards were presented at the Awards Ceremony. The conference hosted over 50 member-society committee meetings and the administrative and technical meetings of the International Federation of Automatic Control (IFAC) Council, which is led by IFAC President Alberto Isidori. The Council manages the technical and executive activities of the IFAC technical committees and boards, and its representatives participated in the conference events.

The 2010 ACC introduced three very successful ‘first-time’ events: 1) exhibitor demonstrations outside the exhibits area, 2) a wireless internet café with seats for 150 users, and 3) student registration included the conference luncheon.

As background, the ACC is organized under the auspices of the AACC, which is the U.S. National Member Organization of IFAC. The ACC brings together individuals working in control, automation, and related areas from eight member societies: the American Institute of Aeronautics and Astronautics (AIAA), the American Institute of Chemical Engineers (AIChE), the Association for Iron and Steel Technology (AIST), the American Society of Civil Engineers (ASCE), the American Society of Mechanical Engineers (ASME), the Institute of Electrical and Electronics Engineers (IEEE), the International Society for Measurement and Control (ISA), and the Society for Computer Simulation (SCS). Below is a more detailed summary of the conference events.
Technical Program
The diverse technical program was organized by Program Chair Richard D. Braatz. The Society Review Chairs, Program Committee, and Associate Editors deserve recognition for their perseverance in obtaining paper reviews. The technical program comprised of 27 invited sessions, eight tutorial sessions, and 163 contributed sessions in lecture format. A total of 1874 papers from around the world were submitted in these categories, which was an increase of about 37% from last year. The Society Review Chairs and Vice-Chair for Invited Sessions Frank Allgöwer served as editors for the contributed paper and invited paper submissions, respectively, with nearly each editor having a suite of Associate Editors responsible for collecting reviews for each paper. Approximately 62% of these papers were included in the final program, which is one of the lowest acceptance rates for an ACC. Due to the large number of submissions, the high rejection rate still resulted in one of the largest ACCs with 22 parallel sessions each day. Emerging topics, education, funding agency, and industry-sponsored sessions were also held during the conference. Several members of the AACC Board of Directors helped to schedule sessions for the conference and Alessandro Astolfi and Pradeep Misra provided the key PaperPlaza support needed to organize a conference of this size.

Wednesday Plenary Speaker: Graham C. Goodwin (University of Newcastle) “Sampling”

The Wednesday sessions were opened with a Plenary Lecture by Graham Goodwin on sampling, a consideration of great importance to any engineer who implements control algorithms on real systems and of importance to theorists developing practically relevant control algorithms. On Thursday morning Mario Milanese described his efforts to convert high-altitude wind energy into electric power. A track of “green” energy sessions on wind power, solar energy, and green engineering were held on the same day. In parallel on Thursday morning, Russell Taylor described advances in medical robotics and computer-integrated surgery, with subsequent technical sessions held on biomedical robotics and biomedical control. Naomi Leonard’s Friday morning lecture on cooperative control and mobile sensor networks in the ocean was followed by a suite of three technical sessions on marine systems and sensor fusion. Last year’s recipient of the Donald P. Eckman Award, Paulo Tabuada, also lectured on Friday morning on the design of correct-by-design embedded control software. The lectures will become available at the IEEE CSS Online Lecture Library (http://www.ieeccss-oll.org/lectures).

Thursday Semi-Plenary Speaker: Mario Milanese (Politecnico di Torino) “Control as a Key Technology for a Radical Innovation in Wind Energy Generation”
The Vice Chair for Special Sessions, Martha Grover, organized evening sessions on emerging research areas and on federal funding. Emerging research sessions were held on *From Operations to Finance: Opportunities for Control Theory and Application; Flight Dynamics and Control in Dipteran Insects with Applications to Aerial Microrobotics; and New Energy Systems and Sustainable Processes: Emerging Opportunities for Systems and Control Research.* Two sessions provided presentations by staff of the Air Force Office of Scientific Research, Office for Naval Research, Army Research Office, National Science Foundation, and National Institutes of Health on their programs for funding control-related research.

*Thursday Semi-Plenary Speaker: Russell Taylor (Johns Hopkins University) “Medical Robotics and Computer-Integrated Surgery”*

The AACC, IEEE Control Systems Society (CSS), and IFAC Technical Committees on Control Education sponsored two education sessions organized by Bozenna Pasik-Duncan. The Tuesday session was an all-day pre-conference workshop for high school teachers and students titled *The Ideas and Technology of Control: The Power and Beauty of a Field that Spans Science, Technology, Engineering and Mathematics.* The Thursday evening session was on *Discussion on Control Resources, Publications, and Control Textbooks at Undergraduate and Graduate Levels.*

The permanent record of the conference is in the form of CD proceedings, which was designed and assembled by Publications Chair Santosh Devasia, with the program information transferred from PaperPlaza and managed by Pradeep Misra.

*Friday Semi-Plenary Speaker: Paulo Tabuada (University of California at Los Angeles) ”Bisimulation: From Differential Equations to Finite-State Machines and Back”*
Tutorials
The eight tutorial sessions organized around applications areas were Cancer Modeling and Control; Diabetes Modeling and Control; Data Storage Systems; Wind Power; MEMS; Marine Systems; Robot Control; and PHEV and HEV Estimation and Control. Most tutorial sessions began with a 40-minute overview presentation followed by four regular-length presentations.

Sponsors and Exhibits
Seven industry sponsors provided financial support to the ACC, and they were United Technologies Research Center, Boeing, National Instruments, Mitsubishi Electric Research Laboratory, MathWorks, General Electric Global Research, and Raytheon. The eight exhibitors recruited by Exhibits Chair Michael Moan were Quanser, Springer, SIAM, Taylor & Francis Group, Wiley-Blackwell, dSPACE, Visual Solutions, and Adaptech. The combined 14 exhibit booths were strategically located in the high-traffic foyer area in front of the ballrooms, meeting rooms, conference registration desk and where all the morning and afternoon coffee breaks were held. This setting generated very successful interactions among the conference participants and exhibitors. Quanser and National Instruments were provided extra space to highlight hands-on demonstrations that were too large for the exhibits area. On Wednesday evening, representatives from six industry sponsors organized well-attended sessions to describe their control-related activities and opportunities.

2010 ACC Student Best Paper:
Douglas Lawrence (2010 ACC Vice Chair, Student Affairs), Tansel Yuçelen (Georgia Institute of Technology), Shalom Ruben (University of California at Los Angeles), Florian Dörfler (Award-Recipient, University of California at Santa Barbara), Tamer Başar (AACC President), Mario Sassano (Imperial College), Huibing Yin (University of Illinois, Urbana-Champaign), Glenn Masada (2010 ACC General Chair)

Workshops
Workshop Chair Michael Moan organized the pre-conference workshops held on Monday and Tuesday before the main conference technical program. A total of five one-day control research workshops were held: Real-time Optimization of Nonlinear Dynamical Systems by Extremum-Seeking Control; Identification of Parameter Varying and Nonlinear Systems via Subspace Methods; Dynamic Vehicle Routing for Robotic Systems; On the Basics of Stock Options: Control Paradigms, Research Directions and Retirement Strategies; and Model Predictive Control: Design and Implementation Using Matlab.
Local Arrangements and Social Events
One of the highlights of the conference was the social program organized by Local Arrangements Chair Richard O’Brien and General Chair, Glenn Masada. On Tuesday, the Welcome Reception was held at the Baltimore National Aquarium. Attendees were treated to the exclusive views of the aquatic exhibits and to a buffet reception. On Thursday at the Marriott, over 400 participants attended the Awards Ceremony to recognize recipients of the five major AACC awards for excellence and achievement in control systems. Immediately following was the conference luncheon with a record 1020 seats and food featuring Maryland favorites. The number of seats was especially large as the luncheon was included with student registration for the first time. On Friday, the Closing Reception was held at the Baltimore Science Center, a short walk around the scenic Baltimore Inner Harbor. Attendees were treated to a few exhibits, live music, and generous food offerings. During the conference, participants had coffee breaks and snacks twice a day.

The Awards
The AACC Awards Committee, chaired by Stephen Yurkovich, solicited nominations and selected recipients of five awards to recognize excellence and achievement for technological, scientific, and educational contributions in the field of automatic control. These awards, along with the Student Best Paper Award, were presented at the Awards Ceremony. This year, the awards and recipients were:

- Richard E. Bellman Control Heritage Award: Dragoslav D. Šiljak (Santa Clara University) for fundamental contributions to the theory of large-scale systems, decentralized control, and parametric approach to robust stability. The award is the highest recognition of professional achievement for U.S. control systems engineers and scientists.
- John R. Ragazzini Award: Tzyh Jong Tarn (Washington University) for substantial contributions to control education through teaching, mentoring of graduate students, and research in control theory and applications to robotics.
- Control Engineering Practice Award: Joseph Zhuxin Lu (Honeywell) for innovation in advanced control and optimization with sustained impact on the process industries.
- Donald P. Eckman Award: Domitilla Del Vecchio (Massachusetts Institute of Technology) for contributions to the theory and practice of hybrid dynamical systems and systems biology. This award recognizes an outstanding young engineer in the field of automatic control.
- O. Hugo Schuck Awards: (1) Linh Vu and Kristi A. Morgansen, “Stability of Feedback Switched Systems with State and Switching Delays;” (2) Yan Yan, Qingze Zou, and Zhiqun Lin, “A Control Approach to High-Speed Probe-Based Nanofabrication.” These awards recognize the two papers presented at the previous year’s ACC, one paper with a primary focus on theory and the other paper with a primary focus on application, respectively.

2010 ACC Award Recipients:
Florian Dörfler (2010 ACC Student Best Paper), B. Wayne Bequette (AACC Past-President), Russell Rhinehart (AACC Past-Treasurer), Domitilla Del Vecchio (Donald P. Eckman Award), Stephen Yurkovich (AACC Awards Chair), Tamer Başar (AACC President), Dragoslav D. Šiljak (Richard E. Bellman Control Heritage Award) Tzyh Jong Tarn (John R. Ragazzini Control Education Award), Kristi A. Morgansen (O. Hugo Schuck Award-Theory), Qingze Zou (O. Hugo Schuck Award-Application), Joseph Zhuxin Lu (Control Engineering Practice Award), Yan Yan (O. Hugo Schuck Award-Application)

Conference Attendance and Other Organizational Activities
Registration Chair Lee H. Keel and his staff managed the advance and on-site registration process for the 1323 registered conference participants. Students and international participants contributed significantly to the success of the conference.
The AACC Board of Directors actively promotes student participation at the ACC with reduced registration fees, reduced hotel rates, student travel grants, and a student paper competition. A total of 366 students registered for the conference, which represented 28% of the total participants. Vice Chair for Student Affairs Douglas A. Lawrence managed these activities. Financial support for travel grants were provided by the AACC, National Science Foundation, IEEE CSS, and the ASME Dynamic Systems and Control Division (DSCD). The five finalists for the Student Best Paper Award were Flörian Dorfler, Shalom Ruben, Mario Sassano, Huibing Yin, and Tansel Yucelen. Flörian Dorfler was selected for the Award for his paper “Synchronization and Transient Stability in Power Networks and Non-Uniform Kuramoto Oscillators.”

Publicity Chair, May-Win Thein, developed and maintained the conference website and publicized the conference activities in various national, international, and local venues, which contributed to the large registration numbers.

The 2010 ACC budget exceeded $650,000. Finance Chair Carolyn Beck is currently responding to invoices and preparing for the final audit.

**Final Acknowledgements**

Volunteers from the eight member societies form the backbone of the AACC and the ACC, and their efforts allow the organization and conference to flourish over the years. The ACC is an all-volunteer conference. We express our sincere gratitude to the other members of the Operating Committee who spent countless hours to organize the conference activities while engaged in their full-time positions: Frank Allgöwer (Invited Sessions), Lee Keel (Registration), Santosh Devasia (Publications), Martha Grover (Special Sessions), Douglas Lawrence (Student Affairs), Carolyn Beck (Finance), Michael Moan (Workshop & Exhibits), May-Win Thein (Publicity), Richard O’Brien (Local Arrangements), and Jeannie Falcon (Industry & Applications).

Finally, we wish to acknowledge the AACC Executive Committee and Board of Directors for their support; plenary speakers for their sharing their research ideas; NSF, AACC, IEEE CSS, and ASME DSCD for providing student travel grants; the financial support of our seven industry sponsors; the eight exhibitors for displaying their latest advancements in technology and information; the workshop organizers for providing educational opportunities for our participants; and the authors for presenting their latest developments in control systems.

Glenn Y. Masada  
*2010 ACC General Chair*

Richard D. Braatz  
*2010 ACC Program Chair*
On Recent Activities of Control Education Committee

Preparing Tomorrow’s Scientists and Engineers for the Challenges of the 21st Century Session

The Preparing Tomorrow’s Scientists and Engineers for the Challenges of the 21st Century Session was held at the 2009 American Control Conference in St. Louis, MO, June 11, 2009. This presentation discussed multiple challenges and opportunities that are presented to young investigators to prepare for careers in science and engineering. Examples from projects supported from various programs at the National Science Foundation (NSF), especially in the Division of Graduate Education, answered questions on how research and education can be integrated, how interdisciplinary research is supported; and how graduate students gain value-added skills while obtaining their degrees.

Dr. Sonia Ortega, NSF Program Director for the Graduate STEM (Science, Technology, Engineering and Mathematics) Fellows in K-12 Education (GK-12) Program, was the keynote speaker. The GK-12 program supports graduate students in science, mathematics and engineering to bring their scientific research to K-12 classrooms and help graduate students communicate science to lay audiences. A panel discussion followed with participation of invited NSF GK-12 Fellows from the University of Kansas and Washington University.

This session was open to all participants of the ACC, in particular, to the members of Women in Control Group, graduate students and invited teachers from local high schools. The Control Education Committees believe that these groups can benefit significantly from sessions that engage faculty, graduate students and teachers in engineering and science research.

The session was inspirational, successful and memorable. The overcrowded room brought a double than expected number of participants. The feedback from participating graduate students indicates a strong desire for organizing more sessions, similar as this one, bringing together: faculty, graduate and possibly undergraduate students, teachers and their students, and industry people.

The session was sponsored by the IEEE CSS and AACC Technical Committees on Control Education. The Organizers/Chairs were Bozenna Pasik-Duncan (Professor of Mathematics and courtesy Professor of Electrical Engineering and Computer Science, University of Kansas), Shirley Dyke (Dicke Professor of Engineering, Washington University), and Fahmida Chowdury (Program Director for the Cross-Directorate Activities Program, NSF).

The organizers of the session wish to thank CSS and AACC as well as the organizers of 2009 ACC for their enthusiastic encouragement and support.

The Power, Beauty and Excitement of a Field that Spans Science, Technology, Engineering and Mathematics Workshop

The Power, Beauty and Excitement of a Field that Spans Science, Technology, Engineering and Mathematics Workshop was held at the 2009 American Control Conference in St. Louis, MO, June 9, 2009. The workshop gave high school teachers the opportunity to meet passionate researchers and educators from academia and industry and National Science Foundation GK-12...
fellows from Washington University, St. Louis, and Kansas University, Lawrence. The workshop increases the general awareness of the importance of systems and control technology and its cross-disciplinary nature among high school teachers and students. The workshop activities included presentations by control scholars and graduate students and informal discussions. The talks were designed to be educational, inspirational and entertaining showing the excitement of being an engineer.

The 2009 program included presentations on robots, mathematical models for medical treatments, and careers in mechatronics. Jessy Grizzle, Levin professor of engineering, University of Michigan, Ann Arbor, discussed his research to give robots the same sense of balance as humans. His videos featured MABEL, a bipedal robot designed to run. Mark Spong, Dean of the School of Engineering and Computer Science and Chair of Electrical Engineering at the University of Texas at Dallas, talked about the emerging area of mechatronics and its application to robotics and control. Mechatronics deals with the integration of mechanical systems, electronics, computer science and control. Automobiles, airplanes, robots, and medical devices are examples of mechatronic systems.

Models describing the dynamics of cancer growth under various treatments and how control systems can help doctors and scientists find the optimal drug protocol was presented by Urszula Ledzewicz, professor of mathematics and statistics, Southern Illinois University, Edwardsville. The relationship between seizures in animals and earthquakes was shown by Dr. Ivan Osorio, professor of neurology, University of Kansas Medical Center, Kansas City, KS. Dominique Duncan’s, graduate student in engineering, Yale University, New Haven, CT, presentation focused on using diffusion geometry for the detection and prediction of seizures.

STEM (Science, Technology, Engineering and Mathematics) Fellows from the Mechanical, Aerospace and Structural Engineering and Electrical and Systems Engineering Departments at Washington University, C.J. DeGroot, Jeffrey Mitchell, Jose Lopez and Kevin Derendorf, discussed their experiences of working with middle and high school students in St. Louis. They taught students about the math and physics involved in the analysis of a truss bridge, the basics of earthquake engineering, using LEGO® robots to promote STEM careers, and the challenges they faced to excite students about the sciences.

A panel discussion on how to engage teachers and K-12 students in control engineering education, what role engineering plays in STEM education, and how to attract more students concluded the workshop.

The session was sponsored by the IEEE CSS and AACC Technical Committees on Control Education. The Organizers were Bozenna Pasik-Duncan (Professor of Mathematics and courtesy Professor of Electrical Engineering and Computer Science, University of Kansas) and Shirley Dyke (Dicke Professor of Engineering, Washington University), and Fahmida Chowdury (Program Director for the Cross-Directorate Activities Program, NSF). The Organizers were assisted by Dominique Duncan (Yale University).
This popular and inspirational workshop organized at every ACC and CDC since 2000, designed for middle and high school teachers and students brought for the first time faculty, graduate students and teachers together. The workshop was a successful and memorable event.

The organizers of the workshop wish to thank CSS and AACC as well as the organizers of 2009 ACC for their enthusiastic encouragement and support.

**The Ideas and Technology of Control Systems Workshop**

The Ideas and Technology of Control Systems Workshop was held at the 2010 American Control Conference in Baltimore, Maryland, June 29, 2010.

Bozenna Pasik-Duncan (University of Kansas and Chair IEEE CSS, AACC, and IFAC Control Education Committees), Roberto Temp (Politecnico di Torino, Italy; IEEE CSS President), Glenn Masada (University of Texas at Austin, 2010 ACC General Chair), and Richard Braatz (University of Illinois at Urbana-Champaign, 2010 ACC Program Chair) gave a welcome to the workshop.

Speakers in this full day workshop included:
- **Darryll Pines** (University of Maryland at College Park) – Leveraging Partnerships to Enhance STEM Recruitment
- **Radhakisan S. Baheti** (Program Director, NSF Engineering Division) - National Science Foundation Program Research Experience for Teachers
- **Shane Haas** (Massachusetts Institute of Technology alumnus, NYC Bank) - Turning a Dollar into Billions
- **Mark Spong** (University of Texas, IEEE CSS Past President) - Careers in Control and Robotics
- **Jeannie Falcon** (National Instruments, 2010 ACC Vice Chair for Industry and Applications) - Demonstrations using LEGO NXT
- **Anuradha Annaswamy** (Massachusetts Institute of Technology, 2008 ACC General Chair) - Control the Unstable: A Case Study in Fluid Flows
- **John Baillieul** (Boston University, IEEE CSS Past President) - Controlling Risk: The Importance of Information and the Importance of Mathematics
- **Neville Jacobs** (Project Manager for the Baltimore Robot Challenge) - Filling a Need: Encouraging Girls to Engage in an Engineering Challenge
- **Dominique Duncan** (Yale University) - Detection of Anomalies in the Brain
- **William Levine** (University of Maryland at College Park, IEEE CSS Past President) - Human Postural Regulation

A panel discussion on how to engage teachers and K-12 students in control engineering education, what role engineering plays in STEM education, and how to attract more students concluded the workshop.

The session was sponsored by the IEEE CSS, AACC and IFAC Technical Committees on Control Education. The Organizer was Bozenna Pasik-Duncan (Professor of Mathematics and courtesy Professor of Electrical Engineering and Computer Science, University of Kansas) The Organizer was assisted by Dominique Duncan (Yale University).

The organizer of the workshop wishes to thank CSS, AACC, and IFAC for their enthusiastic encouragement and support.

**The Discussion on Control Textbooks at Undergraduate and Graduate Levels and Control Resource Publications Session**

The Discussion on Control Textbooks at Undergraduate and Graduate Levels and Control Resource Publications Session was held at the 2010 ACC on July 1, 2010 in Baltimore, Maryland.

This session covered discussions on control textbooks that was initiated at the 2010 CDC/CCC in Shanghai, China in December 2009. Call for Nominations for the IFAC Harold Chestnut Control Engineering Textbook Prize and Call for Control Resources Publications were discussed.

The Keynote Speaker was Stephen Kahne, presenting "The Story Behind the Harold Chestnut Textbook Prize".

The session Organizer and Chair was Bozenna Pasik-Duncan. And the session was sponsored by the AACC, IEEE CSS and IFAC Technical Committees on Control Education.
Chapter Society News

**ASME Dynamic Systems and Control Division**

**Call for Nominations**

On behalf of the ASME DSC Honors and Awards Committee this is a reminder that nominations for the Oldenburger Medal are due January 15, 2011. (That is not as far off as it seems!) All that is required to submit a nomination is to provide a letter outlining why the nominee is worthy of the Oldenburger Medal. Send that along with the nominee's CV (format is up to you) and the nominee's web site address (optional but can be very helpful). It is most convenient for the Awards Committee if all of these materials are combined into ONE pdf file. Please send nominations to me by email (stein@umich.edu) as PDF attachments. **Deadline: January 15, 2011.**

The **Rufus T. Oldenburger Medal** is a prestigious Society award for lifetime achievements in automatic control. Inaugurated in 1968, the medal recognizes significant contributions and outstanding achievements in the field of automatic control. Such achievements may be, for example, in the areas of education, research, development, innovation, and service to the field and profession. The award was established to honor Rufus Oldenburger for his distinctive achievements in the field and for his service to the Society and the Division. The list of recipients is a true honor role of major contributors to the science and profession of control. For more information about the Oldenburger Medal and the DSC awards, please go to:

http://www.asme.org/Governance/Honors/SocietyAwards/Rufus_Oldenburger_Medal.cfm and/or
http://divisions.asme.org/DSCD/Honors_Awards.cfm

Thank you for your attention to this important matter.

**IEEE Control Systems Society**

The 49th IEEE Conference on Decision and Control will be held Wednesday through Friday, December 15-17, 2010 at the Hilton Atlanta, Atlanta, GA, USA. The CDC brings together an international community of researchers and practitioners to discuss new research results, perspectives on future developments, and innovative applications relevant to decision making, automatic control, and related areas.

The 49th CDC will feature the presentation of contributed and invited papers, as well as tutorial sessions and workshops. In addition to the standard oral presentations, the conference will also feature interactive presentations in order to encourage an interactive exchange with the audience. Topics for the interactive sessions will be selected specifically to benefit from the time for interaction and discussion that are not available in a typical lecture session, and the authors will be encouraged to make creative use of poster boards as well as hands-on computer simulations and demonstrations.

The 49th CDC is hosted by the IEEE Control Systems Society and is held in cooperation with the Society for Industrial and Applied Mathematics (SIAM), the Institute for Operations Research and the Management Sciences (INFORMS), the Japanese Society for Instrument and Control Engineers (SICE), and the European Union Control Association (EUCA).

Further details are available at the conference website: http://www.ieeecss.org/CAB/conferences/cdc2010

**Jeffery Stein**
ASME DSCD Director

**Roberto Tempo**
IEEE CSS Director
Award Winners

ALERT: The nomination deadline for the AACC awards is November 1, 2010
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!

2009 AACC Award Honorees

- Richard E. Bellman Control Heritage Award - George Leitmann
  For distinguished career contributions to the theory or application of automatic control

- Control Engineering Practice Award - Suresh M. Joshi
  For outstanding contributions to control systems analysis and synthesis methodologies for advanced aerospace vehicles and systems

- Donald P. Eckman Award - Paulo Tabuada
  For pioneering contributions in the design and implementation of hybrid and embedded control systems

- John R. Ragazzini Award - George Stephanopoulos
  For outstanding contributions in process control and systems engineering education through classroom teaching, textbook and monograph publication, and graduate student mentorship

- O. Hugo Schuck Best Paper Award
  - For Theory: “Reduction-based Control with Application to Three Dimensional Bipedal Walking Robots,” by R. D. Gregg and M. W. Spong

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 2009 IFAC Fellow

- Frank Doyle

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
Conferences

Call for Papers: The 2011 American Control Conference

On behalf of ACC Organizing Committee, I am pleased to welcome you to the 2011 ACC that will be held in San Francisco at the downtown Hilton Hotel. It has been over a decade since ACC was held in San Francisco. The ACC is the premier automatic control technical conference held in the United States for over 50 years. We welcome those colleagues, friends and contributors from abroad whose participation significantly enhances the ACC. San Francisco is a world class city that is renowned for the diversity of its culture. It is home to historic Chinatown, the lively Fisherman’s Wharf, Ghirardelli Chocolate, and to over 3,000 restaurants. The views of the Bridge, the Bay, and the local Victorian neighborhoods with the well-known cable cars cannot be matched. A visit to the “city by the bay” is always an exciting and unique experience. The ACC is held in cooperation with the International Federation of Automatic Controls (IFAC) and is sponsored by the ACC’s eight member societies: AIAA, AIChE, AIST, ASCE, IEEE, ASME, ISA, and SCS. 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 the advances in sensors and actuator technologies, and to new applications areas for automation. The 2011 ACC will focus on three themes:

- Energy Systems
- Transportation
- Health Care

Therefore, papers, plenary and semi-plenary speeches, special sessions and panel discussions, with their focus on these three themes, are being organized and prepared for the 2011 ACC. I welcome any ideas you may have for enhancing the quality and goals of the 2011 ACC. Especially, I encourage you to organize special sessions, and make technical contributions related to the themes of this conference.

The ACC is an all-volunteer conference. Every year many of our colleagues and friends volunteer their time to contribute to the common goal, to make the ACC a successful conference. This year is no exception. We have an outstanding Organizing Committee and Program Committee. Together, they are preparing an excellent technical program.

I express my sincere gratitude to all members of the Organizing Committee who are spending countless hours to organize the conference activities while engaged in their full-time positions: Faryar Jabbari (Program Chair), George Chiu (Finance), Maryam Khanbaghi (Local Arrangements) Jeannie Falcon (Exhibits), John Wagner (Student Affairs), Jurek Sasiadek (Invited Sessions), Farshad Khorrami (Industry & Application Sessions), Martha Grover (Publication), Mayuresh Kothare (Registration), John Wen (Special Sessions), Mehdi Ahmadian (Publicity), Yingzi Lin (Workshops), and Pasquale DaPonte (International Sessions).

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
American Automatic Control Council

Newsletter, 2010  U.S. National Member Organization of: INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

Invitation to the 2012 American Control Conference

Montreal Skyline

We are about to get into high gear with planning for ACC 2012. In the meantime, here are a few highlights—some confirmed, others tentative—about the conference:

• ACC 2012 will be the first ACC outside the United States!
• The Montréal Jazz Festival—the world’s largest jazz fest—starts midway through the conference!
• We expect to arrange industrial / government-lab tours as part of selected pre-conference workshops.
• A single-day registration option is planned with the objective to attract local industry participants.
• Also with an eye to encouraging local/regional participation, we are tentatively planning on three themes for the technical program: aerospace, biomedical, and energy.

Thanks to the efforts of Meeko Oishi, our Publicity Chair, the ACC 2012 Website is up: we invite you to visit http://a2c2.org/conferences/acc2012. The site content will be enhanced regularly as planning progresses.

Comments and suggestions are welcome and can be sent to the General Chair, Tariq Samad (tariq.samad@honeywell.com), or the Program Chair, Dawn Tilbury (tilbury@umich.edu). We hope you have June 27 – 29 blocked off on your 2012 calendar for this unique ACC!

Tariq Samad,
2012 ACC General Chair

Dawn Tilbury
2012 ACC Program Chair

Invitation to the 2013 American Control Conference

Washington, D.C.
June 17-19, 2013

The 2013 American Control Conference 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. In addition to the high-quality technical program that the 2013 ACC Organizing Committee is working hard to ensure, 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. Stay tuned as future announcements unveil more information about the 2013 ACC!

Lucy Pao  
2013 ACC General Chair

Danny Abramovitch  
2013 ACC Program 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](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 e-mail (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*
American Automatic Control Council
Newsletter, 2010 U.S. National Member Organization of: INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

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American Automatic Control Council

Newsletter, 2010  U.S. National Member Organization of: INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL

Join us in Wonderful San Francisco for ACC 2011

Call for Papers

www.a2c2.org/conferences/acc2011/

Organizing Committee

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<td>International Sessions &amp; Programs Chair</td>
<td>Pasquale Dapontep</td>
<td>University of Sannio</td>
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The 2011 American Control Conference (ACC 2011) will be held in scenic San Francisco from Monday June 27 through Wednesday June 29, 2011 in Hilton Hotel in San Francisco. The ACC is the annual conference of the American Automatic Control Council (AACC). AACC is the U.S. national member organization of the International Federation for Automatic Control (IFAC). The ACC is co-sponsored by eight societies that make up the AACC, which are the American Institute of Aeronautics and Astronautics (AIAA), American Institute of Chemical Engineers (AIChE), Association of Iron and Steel Technology (AIST), American Society of Civil Engineers (ASCE), Institute of Electrical and Electronics Engineers (IEEE), American Society of Mechanical Engineers (ASME), International Society for Measurement and Control (ISA), and the Society for Computer Simulation (SCS).

ACC, which is held annually, is internationally recognized as the premier scientific and engineering conference dedicated to the advancement of control theory and practice. ACC brings together an international community of researchers and practitioners to discuss the latest findings in control research and practice.

The 2011 ACC will feature several kinds of presentations including contributed and invited papers; invited tutorial sessions; as well as invited, noon and early evening special sessions. We anticipate that a portion of the contributed papers will be chosen for presentation in interactive format.

**Call for Contributed Papers** Papers are invited in the form of regular manuscripts (allotted 6 Proceedings pages). Note that short manuscripts are not considered. Papers must conform to the submission policy, detailed in the conference web page, requiring in particular that all manuscripts be written in English, be in 2-column format, and meet strict page limits.

**Call for Invited Sessions** Invited sessions consist of six papers presenting a unifying theme from a diversity of viewpoints. Proposals must clearly describe the motivation and relevance of the session. Proposals must be accompanied by full versions of each paper, which will be individually reviewed together with the proposal itself. Individual papers may be removed from a proposed session and replaced by appropriate contributed papers. In case an entire proposed session is rejected, selected papers may be accepted as contributed ones.

**Call for Workshops** Workshops to be held prior to the conference are solicited on all related topics. Proposals for workshops addressing novel control methodologies and nonstandard control applications, as well as workshops with strong tutorial value are encouraged.

**Exhibits** related to control education, control theory, and industrial applications are invited. All papers and session proposals must be submitted through the conference submission website, www.a2c2.org/conferences/acc2011/. Submissions must conform to the policy found at the conference web page http://a2c2.org/conferences/acc2011/AuthorInformation.html.

**KEY DATES:**

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<td>Draft Manuscripts</td>
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<td>Final Manuscript Submission</td>
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Call for Papers
Dynamic Systems and Control Conference 2011
and ASME/Bath Fluid Power Symposium

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.

For the most current information, visit the conference website: http://www.dsc-conference.org.

Key Dates
- Deadline for all submissions and proposals: March 15, 2011
- Notification of Acceptance/Rejection: May 15, 2011
- Final manuscript submission deadline: June 15, 2011

Contributed papers will be classified as regular or short. Regular papers are intended to be a complete description of finished work. Short papers are intended to be an exposition of a novel idea or preliminary results.

Invited session proposals should present a unifying theme from a diversity of viewpoints and consist of a summary statement and six full papers.

Frontier research session proposals should aim to create a forum for discussion and formation of future research areas. The proposal should present a theme from a diversity of viewpoints and consist of a summary statement and a list and endorsement of guaranteed session participants.

Education/Tutorial sessions should address state-of-the-art dynamic systems and/or control theory and industrial applications. Tutorials are encouraged to have panel discussions. Proposals for tutorial sessions are encouraged to include panel discussions.

Workshops will provide a forum for one-day intense discussions of emerging topics or an opportunity for a professional development on a new area.

Exhibits related to the theory, practice and education of dynamic systems and controls are invited. More details can be found at the conference website. Contributors are encouraged to contact the program chair of the organizing committee for further information.

DSCC-2011 Paper Submission, Publication and Registration Policy
- Paper Submission Format: All papers submitted to the DSCC-2011 for review must be prepared in the standard 2-column Proceedings format. See the Author's Kit at the conference web site 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 papers will be submitted through the DSCC-2011 submission website: http://asme-dscd.papercept.net.
- Paper Publication: Accepted papers should follow the strict formatting requirements – manuscripts that do not conform to formatting guidelines may not be included in the conference proceedings. Papers exceeding the respective page limits will be published in the Proceedings only after payment for each extra page 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.

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

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