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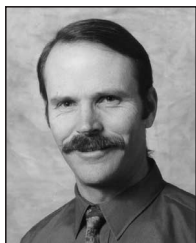


Dynamic Systems and Control Division Newsletter

May-Win Thein, Editor

Summer 2001

Past Chair's Message



Clark J. Radcliffe

The Dynamic Systems and Control Division (DSCD) has a new and improved website. Take a look at the Division's new location in the ASME web pages <http://www.asme.org/divisions/dscd/>.

The site features information on contacts within the Division, Events, Honors and Awards, Technical Panels, News, and Related Links. We hope each of you will visit the site. If all goes as planned, you may well be reading this newsletter directly from our website so have a look around. Let the Division's Executive Committee know if you have content to contribute. The Division Secretary is the key person for any website contributions. This newsletter is always looking for contribution and the Newsletter editor would be happy to receive articles for future issues.

The Division seeks your ideas for new activities and development projects. We encourage members propose initiatives with patient follow-up to turn ideas into reality. The Executive Committee has funds to support new initiatives that expand the membership of the Division and the opportunities for those members.

The Executive Committee encourages requests for sponsoring symposia, workshops and other events where our members are playing an active role. We have also recently sponsored international development projects. DSCD's custodial funds can also be (and have been) used to support such initiatives. These efforts serve to encourage others in the division to look for similar opportunities to grow professionally while helping their fellow members as well.

Do you want to become more aware of global activity in your technical specialty? Participating in our Technical Panels is a start. Become an active panel member. Working with a technical panel over time puts you in a strong position to look globally for collaborative efforts. Once you have established a technical footing, becoming an Associate editor for the Journal provides a front line view of the new research in your area of interest. Organizing technical sessions is another outreach opportunity to share current developments with other members. As you look around DSCD and other divisions, you are bound to see something that will capture your interest and cause you to become more active. This is an essential ingredient for the future well being of our discipline. And, please, do not overlook any and all opportunities to invite new members (be they new faculty, new staff in companies, and even students) into Division activities. Encourage them to attend our open Executive Committee meetings. Every year we hold one at the

International Mechanical Engineering Congress and Exhibition (IMECE) and the American Control Conference (ACC). You can find the meeting schedule on the DSCD website. Come join us - we are always happy to welcome new participants. I want to take this opportunity to thank all of our members who volunteer for the many assignments - big and small - and help our Division to continue to grow and serve.

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The Dynamic Systems and Control Division Newsletter is published twice annually (Spring & Fall). News items, Call for Papers, conferences, as well as other items of interests are welcome from all DSCD Members. Please submit your items for publication by e-mail. For further information, contact:

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Professor Dawn Tilbury to Receive Donald P. Eckman Award

Professor Dawn Tilbury will be this year's recipient of the AACC Donald P. Eckman Award. She will be presented this honor during the ACC 2001 Awards Banquet in Arlington, Virginia.

The Donald P. Eckman Award is given for outstanding accomplishments by a young engineer in the field of automatic control. It was established in memory of Donald P. Eckman, who made important contributions to control theory and practice in the 1950's and 1960's but who died tragically in an automobile accident in 1962. Nominees must be younger than 35 years at the time of the award.

Dr. Tilbury is an Assistant Professor in the Mechanical Engineering Department at the University of Michigan, Ann Arbor. She has made significant contributions to areas (logic control and networked/distributed control) that have until recently been at the sidelines of control systems research.

Since 1995, she for her work in web-based software tutorials (the Control Tutorials for Matlab), Professor Dawn M. Tilbury received an Undergraduate Computational Engineering and Science Award from the US Department of Energy in 1995 and the EDUCOM Medal (jointly with Professor William Messner of Carnegie Mellon University) in 1997. Her research interests include real-time distributed control of mechanical systems, logic control of manufacturing systems, control of computing systems (performance management), and trajectory planning for nonlinear systems. She received an NSF CAREER award in 1999.

2000 American Control Conference Held in Chicago

Whether you consider it the last one of the second millennium or the first one of the third millennium, the 2000 American Control Conference (ACC), held at the Chicago Hyatt Hotel June 28-30, continued the long-standing tradition of successful ACC's with a total attendance of 1093. The 2000 ACC included 943 technical papers (<http://che.vill.edu/acc2000/acc.html> lists best presentation in each technical session) presented in 159 sessions, as well as plenary lectures and tutorial sessions.

The ACC is arguably the premier controls conference in the world. Held under the auspices of the American Automatic Control Council (AACC), the United States National Member Organization of

the International Federation of Automatic Control (IFAC), this conference brings together people working in the fields of control, automation, and related areas from AIAA, AICChE, AISE, ASCE, ASME, IEEE, ISA, and SCS.

Nearly a third of ACC attendees are students. Five finalists for the Student Best Paper Award (M. Arcak, J.M. Goncalves, T. Kiyama, B.M.Y. Nouri, and H. Shim) were selected by the Program Committee, and the winner was J.M. Goncalves of Massachusetts Institute of Technology for the paper entitled "Global Stability of Relay Feedback Systems" (co-Advisors: A. Megretski and M.A. Dahleh).

Six workshops were held in conjunction with the 2000. The 2000 ACC had one of the largest exhibits in the history of the conference.

The plenary speakers included a lecture by Prof. Kumpati S. ("Bob") Narendra of Yale University entitled "Adaptive Systems: Past, Present, and Future." "Smart Jet Engines: A Multidisciplinary Case History," was presented by Edward M. Greitzer, the H.N. Slater Professor at MIT. Prof. Andrew R. Teel from the University of California at Santa Barbara presented "Perspectives and Developments on the Anti-Windup Problem for Systems with Control Saturation."

The 2000 ACC also featured two special evening sessions: a presentation by Dr. Shankar Sastry of DARPA entitled "Software Enabled Control and Embedded Software Programs at DARPA" and a panel discussion entitled "Control Engineering Achievements of the Twentieth Century and Where Do We Go From Here?" The panelists included John Doyle (California Institute of Technology), Gary Fedder (Carnegie Mellon University), Russ Riehnart (Oklahoma State University), and Masayoshi Tomizuka (University of California at Berkeley).

The AACC President, Professor Naim Kheir from Oakland University, and the AACC Honors Committee Chair Dave Auslander from University of California at Berkeley presented the following AACC Awards: the Richard E. Bellman Control Heritage Award to Dr. W. Harmon Ray, Vilas Research Professor and past chairman of the Department of Chemical Engineering at the University of Wisconsin at Madison; the Donald P. Eckman Award to Richard D. Braatz, Associate Professor at the University of Illinois at Urbana-Champaign; the John R. Ragazzini Award to Hassan K. Khalil, a Professor in the Department of Electrical and Computer Engineering at Michigan State University; and the Control Engineering Practice Award to Francis G. (Greg) Shinskey, who was Chief Application Engineer and a Bristol Fellow at The Foxboro Company at the time of his retirement in 1993.

Call for Papers American Control Conference (ACC 2002)

May 8-10, 2002

William A. Egan Civic & Convention Center
Anchorage Hilton Hotel
Anchorage, Alaska, USA

The American Control Conference (ACC) is an annual, 3-day event, presenting about 800 papers, with over 1200 participants from the measurement and automation communities. This premier conference and associated workshops focus on advances in the theory and practice associated with automatic control.

Topics include: industrial applications, robotics, manufacturing, guidance and flight control, power systems, process control, measurement and sensing, identification and estimation, signal processing, modeling and advanced simulation, fault detection, model validation, multivariable control, adaptive and optimal control, robustness, intelligent control, expert systems, neural nets, control engineering education, and computer aided design. Notice that the ACC 2002 will convene in early May, 2002 instead of June, its normal time of the year. Be sure to keep these modified dates in mind as you are making your plans to submit and attend the ACC 2002. For more information about the 2002 AA, please visit our web-site at <http://www.ent.ohiou.edu/~acc2002/>.

Schedule Summary

September 15, 2001:

- Submission of Invited Session Proposals to Vice-Chair, Invited Sessions
- Submission of Tutorial Session Proposals to Vice-Chair, Industry and Applications
- Submission of Workshop Proposals to Workshop Chair
- Electronic Submission of Contributed Regular Papers
- Electronic Submission of Contributed Short Papers
- Nominations for Student Best Paper Award to Program Chair

January 7, 2002:

- Author notification

February 15, 2002:

- Final manuscript due for the Conference Proceedings

The conference is sponsored by the American Automatic Control Council (AACC), and topics span the scope of the 8 member societies of AACC: AIAA, AICChE, AISE, ASCE, ASME, IEEE, ISA, and SCS. The 2002 ACC is being held in cooperation with IFAC (the International Federation of Automatic Control) and SICE (the Society of Instrument and Control Engineers).

(continued on page 3)

2000 American Control Conf.

(continued from page 2)



Galip Ulsoy presides at Awards Luncheon

In addition, two papers were selected to share this year's O. Hugo Schuck Award: "Wave suppression by Nonlinear Finite-Dimensional Control" by Antonios Armaou and Panagiotis Christofides and "Disturbance Energy Amplification in Three Dimensional Channel Flows" by Bassam Bamieh and Mohammed Dahleh.

I want to thank the Operating Committee again for their dedication and their top-quality work. I also received considerable assistance and sage advice from Abe Haddad, AACC Secretary. As General Chair of the 2000 ACC, I have come to truly appreciate the complexity of the annual event we call the American Control Conference and hope this article has

given you an appreciation for all the exciting controls-related activities that went on at the 2000 ACC in Chicago.

It is not too late to get a copy of the 2000 ACC Proceedings. To purchase a CD-ROM of the Proceedings, please contact the AACC Secretary, Abe Haddad (ahaddad@ece.nwu.edu). To purchase a printed version, please contact IEEE Customer Services (1 800 678 IEEE; e-mail: customer.services@ieee.org). Additional information about the 2000 ACC is still available on the conference Web page (<http://che.vill.edu/acc2000/acc.html>), which can also be accessed through the AACC home page at <http://www.a2c2.org/>.

Galip Ulsoy, 2000 ACC General Chair



2000 AACC Awards recipients and awardees: Top row (left to right) - M. Tomizuka, M. Arcak, J. M. Goncalves, B. Nouri, N. Kheir, C. Georgakis, D. Auslander; Bottom row (left to right) - F. G. Shinsky, W. H. Ray, R. D. Braatz, H. K. Khalil

ASME International Holds Optical Switching and MEMS Workshop

The workshop entitled Optical Switching and MEMS Applications: Progress and Usage was held in the Sheraton Universal City Hotel in Universal City, California on May 31 and June 1. This workshop was a part of the ASME International Technology Seminar Series just recently initiated. The workshop was organized by Roger Moore, Project Manager for Boeing, and Anita Caufield of Forecast Technologies.

The seminar comprised of individual lectures as well as panel discussions. Topics of discussions involved the demand for optical networks, the role of

switches and that of MEMS in optical switching applications, the market potential for MEMS switches, and the current obstacles in the industry. Speakers included Peter Gwynn, former science editor of Newsweek, David J. Bishop of Lucent Technologies, Marlene Bourne of Semiconductor Technologies, David Peale and Jean-Francois Labourdette of Tellium, Nelsimar Vandelli of Coventor, Paul Yuhas of OMM, Jim Fleming of Sandia National Laboratory, Alan Willner of the University of Southern California, Gaetan Menozzi of MEMSCAP S.A., Metin Ozen of CFD Research Corp., Dan Keating of IntelliSense Corp., and Paul Holloway of the University of Florida. David Peale of Tellium also presented the Pre-Conference Workshop on optical switching technologies and applications. Information on other Special Technology Seminars refer are at http://www.asme.org/pro_dev/techseminars.

DSCD Web Pages Move to ASME Server

The Dynamic Systems and Control Division (DSCD) web pages have been moved to the ASME server and can now be found at the web site <http://www.asme.org/divisions/dscd/>.

The DSCD web pages are currently being updated and improved. The web pages will be maintained by the DSCD Secretary beginning Summer 2001. It is projected that the DSCD will be using these web pages more extensively in the future. For example, announcements, minutes of meetings, the DSCD Newsletters will be posted on this web site. Any corrections or suggestions regarding the DSCD web pages should be sent to the DSCD Secretary.

Call for Award Nominations

ASME - DSC Division Level Awards

NOMINATIONS MUST BE RECEIVED NO LATER THAN 5:00 PM, AUGUST 31, 2001.

The Dynamic Systems and Control Division of ASME International is seeking nominations for the following two awards, to be awarded at the 2001 ASME International Mechanical Engineering Congress and Exposition, November 11-16, 2001, New York, NY:

- 2001 DSCD OUTSTANDING YOUNG INVESTIGATOR AWARD
- 2001 DSCD EDUCATION AWARD

SPECIFIC CRITERIA:

DSCD Outstanding Young Investigator Award

The DSCD Outstanding Young Investigator Award is given biannually by the Dynamic Systems and Control Division of ASME to a DSCD member who will not have reached his/her 40th birthday until after the date the award is scheduled to be presented, and who as a mechanical engineering professional, has demonstrated outstanding research contributions, either basic or applied, to fields of interest to the DSCD.

DSCD Education Award

The DSCD Education Award is given biannually by the Dynamic Systems and Control Division of ASME to a DSCD member for either excellent sustained contributions or for an outstanding major, singular contribution to education in areas of interest to the DSCD. These contributions can include classroom teaching, short courses and workshop development, course development, lab development, textbook publishing, and software publishing.

GUIDELINES AND CRITERIA FOR ALL DSCD AWARDS:

1. Nominees selected for the Awards must have been primary members of the DSCD for at least 5 consecutive years prior to receiving the Award and have been an active contributor to the DSCD.
2. Each Award is to be given biannually and funded from a draw from the DSCD Custodial Fund. It will consist of a plaque or framed certificate suitable for wall hanging and a citation specific to the awardee, together with a cash award in an amount of \$750.00.
3. Each Award may not be given to the same individual more than once.
4. Annual solicitations for nominations for appropriate Awards will be made by the DSCD Honors Committee by advertising sufficiently in advance in at least the JDSMC, DSCD Newsletter, and M.E. Magazine. The DSCD Honors

Committee shall select the Award recipients; notify him/her of the selection and the need to attend the Award presentation; and arrange for the plaques/certificates to be available at the Award presentations.

5. The nominations for the Awards will consist of a cover letter of not more than two single spaced typewritten pages in 12 point font from the nominator detailing why the nominee meets the criteria for the Award, a CV or resume of the nominee, as well as any brief supporting materials (e.g., photograph, drawing, patent, paper, etc.)
6. The DSCD Executive Committee Chair shall arrange for the Award presentations in cooperation with the DSCD IMECE Program chair and the DSCD EC Secretary, who shall prepare the cash award checks and have them available at the award presentation. Each Award shall be presented by the DSCD EC chair at the DSCD Awards Dinner at the annual ASME IMECE.
7. Any member of the DSCD Honors Committee whose term on the nominating committee includes a portion of the period in any selection cycle between the first call for nominations for an award and the final selection of the awardee is ineligible for nomination for these awards.

Please send nominations for these three awards, using the criteria & procedures given above, to:

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wayne.book@me.gatech.edu

NOMINATIONS MUST BE RECEIVED NO LATER THAN 5:00 PM, AUGUST 31, 2001.

Wayne J. Book
Vice-Chair, DSCD Honors Committee

James Dabney Becomes Associate Editor

James B. Dabney is the new Associate Editor for the DSCD Newsletter. He is an Assistant Professor of Systems Engineering at the University of Houston - Clear Lake, where he is the Director of the Systems Engineering Laboratory. His research is in the areas of mechatronics, trajectory optimization, and systems modeling. Dr. Dabney received the Ph.D. in Mechanical Engineering from Rice University in 1998. He is a member of IEEE, ASME, AIAA, and INCOSE and Associate Editor for the IEEE Control Systems Society Conference Editorial Board.

2002 Japan-USA Symposium on Flexible Automation

**International Conference Center, Hiroshima
Hiroshima, Japan
July 17-19, 2002**

Participating Societies (Tentative):

Japan Society of Mechanical Engineers, Japan Society for Precision Engineering, Society of Instrument and Control Engineers of Japan, Robotics Society of Japan, IEEE Robotics and Automation Society, Institute of Industrial Engineers

Scope and Topics:

This symposium was initiated in 1986, and the title, "Flexible Automation," was selected as a general term referring automation technologies essential to meet the increasing requirements of modern manufacturing. While many of these requirements were identified over a decade ago, such as flexibility, intelligence and lead time reduction, they still pose major challenges. In addition, requirements, such as agility, reconfigurability, networked CAD/CAM and the protection of environment, have broadened the research agenda and thus the scope of this symposium. We also recognize that these requirements are not unique to manufacturing automation but are shared by other automation fields such as space and underwater exploration, vehicles, and medical systems. The purpose of this biennial symposium, following in the footsteps of eight previous ones, is to promote research activities in various areas of flexible automation by providing a forum for the exchange of ideas, presentation of technological achievements, and discussion of future directions.

Schedule Summary

November 30, 2001:

- Paper submission

February 15, 2002:

- Paper acceptance notification

March 15, 2002:

- Camera-ready manuscript due

Those seeking further information may view the following website:

<http://home.hiroshima-u.ac.jp/jusfa02/index.htm> or contact:

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Second IFAC Conference on Mechatronic Systems to be Held in California

The second IFAC Conference on Mechatronic Systems will be held in Berkeley, California on December 9-11, 2002. The conference is sponsored by the American Automatic Control Council (AACC), Engineering Systems Research Center of the University of California, Berkeley, the UC Berkeley Extension Continuing Education in Engineering, and in cooperation with IEEE and ASME.

The deadline for submissions (in full draft) is February 28, 2002. DSCD Members are asked to check the Conference webpage for updates on paper submissions at <http://www.unex.berkeley.edu/eng/mech/>.

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DSCD Member Aik-Siong Koh Develops "freeCAD" Educational Software

Aik-Siong Koh, a DSCD Member, has recently made "freeCAD" available as a free service to the educational community. The purpose of this software is to enable the teaching of 3D CAD and motion simulation. It can also be used for instruction in kinematics, dynamics, vibrations, and machine design.

Further information and a free download of "freeCAD" is available at <http://www.askoh.com/>.

2001 Conference on Control Applications (CCA) and 2001 International Symposium on Intelligent Control (ISIC)

Presidente Intercontinental Hotel
Mexico City, Mexico
September 5-7, 2001

The IEEE Control Systems Society will hold the 2001 Conference on Control Applications (CCA) and 2001 International Symposium on Intelligent Control (ISIC) September 5-7, 2001 at the Presidente Intercontinental Hotel in Mexico City, Mexico. The general theme of the conference is "Eclectic Applications and Intelligent Control in the New Millennium." This conference will bring together people working on a wide variety of control applications including applications of adaptive and robust control, sensor based control, nonlinear control, sliding mode control, modeling, and system identification. Many important application domains such as distributed systems, manufacturing systems, mechatronics, motion control, and robotics will be addressed, as will vibration control, structure control, fault detection and fault tolerant control, and man/machine interfaces. The conference will also attract people working on many facets of intelligent control including, for example, architectures and methods, knowledge-based systems and learning control, temporal logic for control, reactive multi-agent systems, machine learning, neural networks, fuzzy logic, genetic algorithms and evolutionary computing, hybrid dynamical systems, and intelligent machines. The combination of applications and intelligent control will provide many opportunities for synergy.

The conference site is in the Polanco district, across from the famous Chapultepec Park. It is close to lakes and gardens, renowned museums, and historical sites. This is a prime area providing a safe and pleasant conference venue and many opportunities for historical sightseeing. The hotel and daily expenses in Mexico City are attractively priced for those traveling from the USA, Europe, or from the Far East. This is the first major control theory conference sponsored by the IEEE in Latin America and should not be missed. For more information, see the WWW home page <http://control.rice.edu> or contact:

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Editor's Corner

- **Opening for Newsletter Associate Editor** - There is an opening for the position of Associate Editor of the DSCD Newsletter. If you are a member of the ASME and DSCD, and have some editorial experience (or a desire to quickly learn the ropes), please contact Editor May-Win Thein or Associate Editor James Dabney at the coordinates given on Page 6. Please send in a brief biographical sketch as well.
- **Correction to Fall 2000 DSCD Newsletter** - Asok Ray was incorrectly listed as the Incoming Member to the DSCD Executive Committee in the last DSCD Newsletter issue, while Giorgio Rizzoni should have been listed as the Incoming Member.

ASME Journal of Dynamic Systems Measurement and Control (JDSMC) - Update

The ASME Journal of Dynamic Systems Measurement and Control (JDSMC) is doing well, with submissions at near an all-time high. The journal is very selective, with one of the lowest acceptance rates among ASME Transactions journals at 35-40%. The time from submission to publication has been significantly improved due the efforts of the current team of Associate Editors and the Journal Secretary (see below). A Special Issue on Variable Structure Systems (co-edited by E. Misawa and V. Utkin) was published in December 2000. A second Special Issue on Identification of Mechanical Systems (edited by S. Fassois) is being prepared for publication in December 2001.

Information about the journal is available on the website <http://www.asme.org/pubs/journals/dynsys/dynsys.html>, and the journal is now also available to subscribers in an on on-line edition.

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*Galip Ulsoy
JDSMC Editor*

International Mechanical Engineering Congress and Exposition (IMECE 2001)

New York Hilton Hotel & Towers and Sheraton New York Hotel & Towers
November 11-16, 2001

<http://www.asme.org/conf/congress01/>

DSCD People

The DSCD Executive Committee establishes policy and manages the affairs of the Division. It meets twice a year at the IMECE and at the American Control Conference (ACC). For 2001-2002 it is comprised of the following people:

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Vice-Chair

Suhada Jayasuriya

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A full listing of the all the DSCD office bearers, Technical Panel Chairs, and their coordinates can be found at the DSCD web site at:
<http://www.asme.org/divisions/dscd/>.

Important Websites

ASME Dynamic Systems and Control Division (DSCD):

<http://www.asme.org/divisions/dscd/>

American Society of Mechanical Engineers:

<http://www.asme.org/>

American Automatic Control Council (AACC):

<http://www.a2c2.org/>

ASME Journal of Dynamic Systems, Measurement, and Control (JDSMC):

<http://www.asme.org/pubs/journals/dynsys/dynsys.html>

IEEE/ASME Transactions on Mechatronics:

<http://www.ieee-asme-mechatronics.org/>

2001 ASME International Mechanical Engineering Congress and Exposition (IMECE):

<http://www.asme.org/conf/congress01/>