Message from David Doman, Chair

AIAA has moved forward with its plan to implement a New Event Model that affects all conferences. The 2013 Guidance, Navigation, and Control Conference will be the last one held under the old model. From 2014 onwards, the Guidance, Navigation, and Control Conference will be held within the new AIAA SCITECH Forum. This forum will feature the following meetings: 22nd AIAA/ASME/AHS Adaptive Structures Conference, 52nd AIAA Aerospace Sciences Meeting, AIAA Atmospheric Flight Mechanics Conference, 15th AIAA Gossamer Systems Forum, AIAA Guidance, Navigation, and Control Conference, AIAA Modeling and Simulation Technologies Conference, 10th AIAA Multidisciplinary Design Optimization Specialist Conference, 16th AIAA Non-Deterministic Approaches Conference 55th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, 7th Symposium on Space Resource Utilization, and the 32nd ASME Wind Energy Symposium. The 2014 AIAA SCITECH Forum will be held January 13-17, 2014 at the Gaylord National Hotel in National Harbor MD. The decision to move from an August meeting to a January meeting was not an easy one; however, the GNC Technical Committee decided that SCITECH was the most appropriate forum available within the New Event Model. The Atmospheric Flight Mechanics and Modeling and Simulation Conferences that have historically been collocated with GNC will have a presence at SCITECH as well. We hope that you will continue to support the GNC conference by contributing high quality papers to the proceedings and informative presentations at the meeting. Our TC is also involved in the organization of the 2014 American Control Conference, which will be held in June of 2014 in Portland OR. Members of the GNC community will therefore have two well-spaced opportunities each year to publish their most recent results and findings. The big change is that from 2014 forward, the AIAA GNC conference will be held in the month of January, so please take this into account as you make plans for the future. Numerous opportunities exist to contribute to the activities of the GNC Technical Committee. Help as a reviewer, session chair, or conference organizer is always welcomed. We also organize student paper competitions and recognize high achievements in our field through our awards program.

(Continued…)
Message from the Chair (contd.)

We also have a new initiative designed to improve AIAA membership retention by sponsoring conference attendance for undergraduate students with an interest in GNC. We also continue to encourage development of careers for women in GNC. If you have an interest in contributing to our activities, I encourage you to apply for TC membership or contact one of our members to see how you can contribute to our pursuits.

Mechanics and Control of Flight Award Winners

This award is presented for an outstanding recent technical or scientific contribution by an individual in the mechanics, guidance, or control of flight in space or the atmosphere. However a small team of colleagues (nominally two to four) that have collaborated on a technical contribution may be considered for the award. This annual award is generally presented at the AIAA Science and Technology (SCITECH) Forum. (Of course, starting in 2014, our GN&C Conference will also be a part of SCITECH.)

Dr. Eugene A. Morelli has been awarded the 2013 Mechanics & Control of Flight Award. The AIAA citation for the award reads, “For pioneering research and innovative scientific contributions in the area of aircraft system identification with applications to flight mechanics and flight control systems.” Dr. Morelli is a Research Engineer at the Dynamic Systems and Control Branch at the NASA Langley Research Center. His current research interests are: aircraft system identification, aircraft flight dynamics and simulation, time series analysis, and aircraft accident investigation. He is the co-author of *Aircraft System Identification: Theory and Practice*, a volume in the AIAA Education Series.

AIAA Sustained Service Award

We are pleased to note that the 2013 AIAA Sustained Service Award goes to our own Jason Hui. Jason is a Systems Engineering manager at BAE Systems in Nashua, NH. AIAA bestowed this award “to recognize his sustained and significant contributions to the Guidance, Navigation, and Control Technical Committee, and dedicated service to AIAA.”

Guidance, Navigation, and Control Undergraduate Conference Experience

The AIAA GN&C Technical Committee is sponsoring a new event at the 2013 GN&C conference: The Guidance, Navigation, and Control Undergraduate Conference Experience. This two-day event pairs GNC community mentors with students to introduce them to the conference events, including technical sessions, graduate student opportunities, and young professional activities. The goal of the program is to provide motivated students insights into the GNC research community, career guidance, and networking opportunities with both young and experienced professionals in academia, industry, and government. In addition to mentor guidance and focused student events, the ten participating students will be provided: $500 stipend for travel to Boston, accommodations at Marriott Boston Copley Place, and GNC Conference Registration.
Student Awards

The AIAA Foundation Guidance, Navigation, and Control Graduate Award is presented to promote the areas of guidance, navigation, and control by rewarding promising graduate students who have a demonstrated interest in one or more of these areas. The 2012 award will be presented to Aude Marzuoli at the 2013 GN&C conference. She is a graduate student at the Georgia Institute of Technology, Atlanta, GA, with a focus on Airport Operations, Traffic Flow Management, Optimization and Control.

The GN&C Graduate Student Paper Competition is a competitive annual paper and presentation competition reviewed and judged by TC and GN&C community members. In 2011, Sara Spangelo of the University of Michigan won the Graduate Student Award for her paper, “Optimization of Single-Satellite Operational Schedules Towards Enhanced Communication Capacity.” Ms. Spangelo was recognized at the awards banquet at the 2012 GN&C Conference in Minneapolis.

In 2013, the finalists of the Student Competition will receive complimentary student registration and a ticket to the awards luncheon where the winning finalist will be recognized. Finalists will also receive a $1,200 award (for travel and accommodation expenses related to conference attendance). An overall best paper and presentation will be selected from the Graduate Student Paper Competition session. This winner will be presented with an additional $2,500 prize.

Conference News

The 2012 AIAA GN&C conference was held in Minneapolis, MN. Julie Thienel served as the general chair, with Jack Langelaan and Lesley Weitz as co-chairs. 340 papers were presented in 61 sessions. Dr. Mason Peck, NASA’s Chief Scientist addressed the GN&C plenary session.

The 2013 AIAA GN&C conference will be held in Boston, MA, August 19-23, 2013. This will be the last conference to be co-located with the AFM, MST, and AIAA/AAS ASC conferences. The general chair is David Doman, with Joseph Brinker and John Valasek serving as technical program co-chairs. Dr. Werner Dahm, former Chief Scientist of the Air Force will be the Plenary Speaker.

Looking ahead, the 2014 conference will be the first under the new model, AIAA SCITECH Forum to be held at the Gaylord National Hotel near Washington in January. GNC TC’s Lawrence “Robbie” Robertson is the Aerospace Sciences Technical Chair. Susan Frost is the GNC Technical Chair, and, Jason Hui and John Reed are the GNC Deputy Technical Chairs. For more information on this conference and how the AIAA GNC Technical Committee fits in the new conference structure, please see the Chair’s message on the front page of this newsletter. The abstract submission deadline has already passed for this conference.

Women in Engineering Luncheon

Women are underrepresented in science, education and research, especially in the aerospace sector. The AIAA GN&C Technical Committee will host a luncheon for women participating in the 2013
conference in Boston. The luncheon is an opportunity for women to meet informally, discuss experiences, network, and identify women who are leaders in their fields for possible special recognition by AIAA. The luncheon will be held on Monday August 19 at noon in the Boylston conference room at the Marriott Boston Copley Place (the site of the conference). Dr. Christyl Johnson, Deputy Director of Technology and Research Investments, NASA Goddard Space Flight Center, will be the keynote speaker. Women participating in any of the co-located conferences are invited to attend at no charge. Please look for further information at the AIAA desks at the conference.

**Awards Luncheon**

AIAA will present awards for technical excellence, academic achievement, and sustained service at a noon luncheon on August 20, as part of the joint conference. Of particular interest to the GN&C community, the AIAA Mechanics and Control of Flight Award (Eugene Morelli), a Sustained Service Award (Jason Hui), and the AIAA Foundation Guidance, Navigation, and Control Graduate Award (Aude Marzuolli) will be presented at the luncheon.

**TC Membership News**

The Technical Committee welcomed the following new members in 2013: as regular members, Marc Bodson (University of Utah), Kimberly Lemon (Boeing), Tim McLain (Brigham Young University), Praveen Shankar (Cal State University), Cornel Sultan (Virginia Tech), and RK Yedavalli (Ohio State University); as associate members, Amnimesh Chakravarty (Wichita State University) and William Whitacre (Northrop Grumman); and international members, Florian Holzapfel (TU Munich) and Spilios Theodoulis (French-German Research Institute of St. Louis).

We thank the following for their service to the technical committee as we say *au revoir*:

regular members Joseph Brinker, Derek Paley, Ashwani Choudhary, Yunjun Xu, Khan Pham, and John Burken; associate members Tannen Van Zwieten, Yildiray Yildiz, and Timothy Hindle; international members Ashok Joshi and Steven Waslander.

**Call for Papers: 2014 American Control Conference (ACC)**

Paper and session proposals are invited for the 2014 ACC, to be held in Portland, OR June 4-6, 2014. The conference is held in cooperation with the International Federation of Automatic Control (IFAC) and other organizations. Dawn Tilbury is the General Chair, and Gary Balas is the Program Chair. Draft Manuscripts are due September 27, 2013. More info at [http://a2c2.org/conferences/acc2014/](http://a2c2.org/conferences/acc2014/).

The technical program will cover new developments related to theory, application, and education in control science and engineering. The 2014 ACC will feature several kinds of presentations including contributed and invited papers, invited sessions, tutorial sessions, and special sessions along with workshops and exhibits. Workshop proposals are due October 18, 2013.

**Reminder! Please register for the ACC through AIAA to support our scholarship fund.**