



January 2008 Newsletter for the Dayton Section of the American Society of Mechanical Engineers

>> Changes in Dayton Section Leadership

The Dayton section chair, Alyson Turri, stepped down in October to focus on the upcoming birth of her child. The current vice-chair, Daniel Strong, took over for the remainder of the ASME program year (Oct-Jun 2008). This leaves a vacancy in the vice-chair position; if you are interested in becoming involved with the board, please contact Daniel. The section also has two new members of the executive board: Amy Lynch is the new section secretary and Jon Poggie is the new Honors and Awards committee chair. Welcome, Amy and Jon!

>> Greetings from the new section chair

My name is Daniel Strong, and I have taken the office of Dayton section chair for 2008. I am a research engineer for the Air Force Research Laboratory at Wright-Patterson AFB and have been active in the Dayton section for several years. I would like to thank Alyson Turri for her work as Dayton section Chair over the past year. She and I have worked together to provide a smooth transition of leadership. At this point I am looking for volunteers to rebuild the Dayton section event planning committee who will plan and execute the tours, dinner meetings, professional and social events for the section. The committee will solicit ideas and suggestions about how best to serve the membership, the student sections and the local community from the local section membership.

The ASME national organization has been re-inventing itself with the goal to better meet the needs of its members. Last year, the organization released information about budgetary changes and the local section's support structure. The changes that have had the greatest effect on the local sections and student sections was the elimination of member-based fund allocation; the national office will distribute funding based on section activities rather than the number of members in a given section. This was done to encourage and reward those sections that make a concerted effort to offer programs and events during the year while reducing or eliminating the funding for sections that have been dormant. Information about the recent changes in the ASME organization is available at the following URL: <http://www.asme.org/About/Connections/>. The Dayton Section has been diligently reducing operating costs over the past few years and has already implemented changes ASME has identified as critical, such as eliminating paper newsletters and mass mailings. Our long term planning activities have enabled us to operate for a number of years without funding from ASME or support from the regional office.

I am enthusiastic about the opportunities we have as a section to support the discipline of mechanical engineering in the local area and encourage the next generation of scientists and engineers through our outreach programs. We will continue to offer the tours and dinner events that have been popular for the past several years while adding events such as the successful Dayton Engineering Sciences Symposium and meetings on current events and topics of interest to the community at large.

Please feel free to contact me with any questions or comments about the upcoming changes and with any ideas that you might have. Please refer to our newsletters and website (<http://sections.asme.org/dayton>) for announcements about upcoming events.

Daniel Strong

Dayton Section Chair

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>> Recap of recent events <<

Personal Finance Dinner Meeting by UBS Financial Services, Tuesday October 2, 2007

A valuable presentation on personal finance, retirement planning and education funds by UBS Financial Services was given at the University of Dayton School of Engineering, co-sponsored by AIAA. This particular event was the first personnel life presentations we have had. If there is interest in similar events (lawyer talk, home buying, identity theft, etc..) please contact Daniel Strong

DelFly Micro Air Vehicle Talk, Friday October 12

ASME, in conjunction with Wright State University, AIAA and SAE planned an event with researchers from Delft University of Technology in the Netherlands. The DelFly is a Micro Air Vehicle (MAV) that attempts to imitate the flight of insects and birds developed by a team of undergraduate students and faculty advisors. With the use of two sets of flapping wings DelFly is able to maintain steady flight and propels itself in a slow stable forward motion. The DelFly is not only capable of performing a straight and horizontal flight, but it can also transform to a very slow, hovering flight. This property is unique for a flapping wing vehicle. The DelFly is also equipped with an onboard camera, which gives in combination with the very slow flight speed a very good overview of the surroundings. The DelFly is able to recognize targets and objects from the video images, and in the very near future it can fly autonomously by video images.

3rd Annual Dayton Engineering Sciences Symposium, 29 October

The Third Annual Dayton Engineering Sciences Symposium sponsored by the Dayton Section of ASME was held at Wright State University on 29 October. The symposium is designed to facilitate communication between members of the regional technical community, as well as to provide a forum for students and researchers to sharpen their technical presentation skills. The symposium was well attended by local universities, researchers from WPAFB and local ASME chapter members. We are looking forward to the 4th DESS next year. Any feedback about this year's event can be sent to me as we are always examining ways to improve the event.

Dinner with the Real World Event, November 2

This dinner event was hosted by the University of Dayton School of Engineering as a part of their New Engineers program. Working engineers (many of them graduates of the university) were invited to have dinner with freshmen engineering students to talk about their experiences since college. This was a valuable opportunity for the engineers to share lessons learned, recommend graduate school and discuss the various jobs that an engineer may have. The students asked several questions about co-op programs, the day-to-day work load for practicing engineers and looking for a job after graduation.

“Presentation of Information” by John Clarke, Thursday November 8

ASME, in conjunction with AIAA hosted an event with John Clarke, a professor at the University of Dayton. John spoke about presenting information, both technical and non-technical, to a diverse audience. This event was held at the Der Dutchmen Restaurant in Waynesville. If there is interest in holding other events at location other than universities, we will gladly make those arrangements.

>> Upcoming events <<

Family Fun Night at Boonshoft Museum of Discovery , January 19

It's time again for the annual Society of Automotive Engineers (SAE) Family Fun Night at the Boonshoft Museum of Discovery. The SAE Family Fun Night will be held on Saturday, 19 January 2008. What a great way to share time with your family and friends, so register online today at www.saedayton.org Under meetings, locate Family Night and click register online. Please put the number of people per family attending and then your name when registering. Registrations only accepted online. If you have any questions, feel free to contact the organizer of the event, Linda Hallinan. e-mail – linda.l.hallinan@yahoo.com, phone (937) 455-6974

TechFest 2008 at Sinclair Community College, February 16-17

The primary emphasis of TechFest is providing hands-on exhibits that encourage youngsters in grades K - 12 to consider careers in science, engineering and mathematics. Volunteers are needed to provide and assist with exhibits in mechanical or aerospace engineering during this exciting and worthwhile event. [TechFest2008](#)

Dayton-Cincinnati Aerospace Sciences Symposium, March 4

Abstract Submittal Deadlines are coming up soon:

18 Jan Priority Abstract Deadline

25 Jan Final Abstract Deadline

21 Feb Art in Science Deadline

The Dayton-Cincinnati Section of AIAA is pleased to announce that the **33rd Annual Dayton-Cincinnati Aerospace Sciences Symposium** will be held on Tuesday **4 March 2008** at the Dayton Mall Holiday Inn. The symposium program will include up to twelve parallel sessions in the morning and afternoon, covering a wide range of aerospace-related technical disciplines. This is the premier annual event for regional aerospace research and is designed to foster technical interchange between academic, government, and industry communities. A Keynote Address A Keynote Address will be included in the day's events. Other symposium events include a luncheon, a career enhancement session, S&T business session, and corporate displays. More information is available at www.aiaa-daycin.org.

While no written paper is required to present at this event, abstracts must be submitted in advance and will be published. To submit an abstract, visit our website at www.aiaa-daycin.org. Click on the "Symposium" tab on the top menu bar, login and then click on "Submit/Edit an Abstract." If you have not previously created an account on the aiaa-daycin website, you will need to before submitting an abstract. The **abstract submittal deadline is 18 Jan 2008** for priority consideration and no abstract will be accepted later than **25 Jan 2008**. Only abstracts submitted through the website will be considered; the website will allow you to change or withdraw your abstract up to the deadline, so don't delay getting started! Please see the **Call for Abstracts** on the section website for more details.

Also attached is a flyer for the annual **Art-in-Science competition**. Please note a change for this year, **artwork must be submitted electronically by Feb 21st**, and will no longer be accepted on the day of the symposium. Please see the Art-in-Science flyer on the section website for more details. Thank you and we hope to see you at the symposium with a submission!