



Newsletter

**Volume 15
Number 1
August 2000**

Calendar of Events 2000-01

- o **12 October 00 – Dinner Meeting.** Peter Likins, UA president, will be speaker. Awards ceremony.
- o **4 – 5 November 00 – Aerospace and Arizona Days 2000**
Airshow at Davis-Monthan AFB
- o **20 – 22 April 01 – AIAA Student Design/Build/Fly Competition,** Patuxent River Naval Base, Maryland

Welcome back, Tucson!!!

By Kevin Kremeyer

We've been very busy this summer putting together programs and organizing our educational outreach effort! The objective of this newsletter is two-fold:

1) To give you an idea of the plans for this year, and ask for input before we start to finalize items on the calendar.

2) To strongly urge/beg/plead/(?bribe?)/request that each and every one of you become involved (even at a very very low level) in our local AIAA educational outreach programs.

You can play a regular role (such as working with a specific teacher, classroom, or project of your choosing), or a smaller role (e.g. by periodically answering email questions such as "why can't people fly?" or "does a balloon float up into space?").

At whatever level, it will be personally rewarding, and it's a way to pay back all of the people who helped inspire and support you in your goals and aspirations.

We'll describe these programs below, but please let us know (tucson_aiaa@yahoo.com, (520) 882-7349) at what level you'd like to participate, because if you don't tell us, there's no way we'll know what part you're willing to play in passing on some knowledge to students and future generations. (Please circle our contact info, and leave us a quick message.)

This Year's Outlook and Calendar

by Kevin Kremeyer

The time has come to finalize our events for the year, and we'd like to check in with you to see if you have some preferences that we're not considering. The different kinds of events will be: dinner meetings,

weekend outings/tours/events, and we're thinking about trying a new kind of "after-work stopover meeting". For these get-togethers, we'll be very punctual, to ensure that you're on your way home by 7:00 or 7:30, so it starts to resemble more of an educational "weekday happy hour".

Besides tours and guest speakers, we'd like to have events addressing professional development, including:

- o Topics of current interest
- o Help with job-hunting and garnering promotions
- o Developing a broader base of marketable technical skills

Our first dinner meeting will tentatively take place on Thursday, October 12th, with Dr. Peter Likins as our guest of honor. He is an AIAA Fellow, as well as the President of the University of Arizona, and he will tell us about his goals for the University, including outreach and integration into the community and surrounding industry.

We'll also take the opportunity to hand out some long-overdue awards and reconnect after a long hot summer. We're shooting to start around 5:30 PM or 6:00 PM, and we'll confirm all of the details in the upcoming newsletter.

One of our goals this year is to consistently provide information on events not organized by us, but which are still of interest to our membership. We will also make every effort to attend these events and have booths and friendly faces to help welcome our members and their guests.

Once the Fall semester begins, we'll point you to the many events and seminars hosted by the University. To begin this trend, we'll announce an upcoming event at Davis-Monthan AFB.

Please let us know your wishes now (tucson_aiaa@yahoo.com (520)882-7349), so that we can make sure that we've covered all of the bases. We really do appreciate input.

Aerospace and Arizona Days 2000

by Col. Ed Palanek-USAF (retired)
Tucson AIAA Military Liason

Date: November 4-5, 2000

Location: Davis-Monthan Air Force Base

This upcoming two-day airshow will feature numerous military and civilian aerial demonstrations and a wide range of static display aircraft from across the United States.

The feature demonstration team will be the USAF Thunderbirds. The team will fly its F-16's in about 70 airshows at 35 different locations this year. D-M is the final show for their 2000 schedule.

This year's show may also have an international flavor as aircraft from Canada and Germany are slated to participate. Some schedules are not yet complete, but other attractions in the works include a B-1, B-52, KC-135, F-16s, A-10s, EC-130s, and C-17. Civilian aircraft demonstrations will also take to the air.



F-16 and KC-135
USAF Photo

D-M's last airshow was in 1998. Approximately 500 000 to 700 000 people attended the event and it was the largest single event to take place in the history of Arizona. Admission to A & A Days 2000 is free for everyone. Refreshments and souvenir items will be available for a nominal fee.

The tentative flybys and Demos will include the following-

- * B-1 Flyby
- * Wings of Blue-USAFA Parachute Team
- * Canadian Tudor Demo
- * KC-135 and F-16 Flyby
- * AH-64 Apache Demo
- * Julie Clark T-34 Demo
- * Tornado and F-4 Flyby with pyro
- * Steve Appleton Hunter Demo
- * F-16 Demo
- * DM A-10s and EC-130 Flyby
- * Bill Reesman Mig 17 Demo
- * Dave Eastman Pitts Demo
- * HH-60 Demo
- * F-15 Demo

- * Dan Buchanan Glider Demo
- * Frank Borman F-86 Demo
- * A-10 Demo
- * F-18 Demo
- * USAF Thunderbirds

The Tucson Section of AIAA will have a booth at the Airshow, and we will report the specifics in our newsletter as the date draws near. This is a notice for you to mark your calendars, and to let you know that we look forward to seeing you and your friends and families there.

Regional Leadership Conference

by Kelly Sinnock

On July 21 and 22, Kevin and I attended the Regional Leadership Conference (RLC) in Las Vegas, NV. Not only did we learn more about National awards and procedures, but we also met and conversed with AIAA staff members and officers from other sections in the country.

The primary goal was to bring the officers up to speed on the Institute's activities, mission and procedures, and to learn how to become a more effective section. Throughout the weekend, we shared many stories and ideas with each other and came up with ideas for possible activities for the upcoming year.

There are a number of individual awards available to you as members, including technical awards, publication awards, education awards, service awards, certificates of merit, and international awards. Several service awards, including member anniversaries, will be distributed at our first dinner meeting.

Most of the other awards, however, require us to know what you've been up to. Have you published any books? Do you know someone that should be nominated for Engineer of the Year? Are you a student looking for a scholarship? What kind of technical work are you doing? Please let us know and we'll see if you fit into one of the award categories. You can also check out the available awards on the web at:

<http://www.aiaa.org/information/professional/awards.html>

Along with these individual awards, there are membership upgrades available. When you first joined the Institute, you probably joined as a member (or student member or Educator Associate). As you gain seniority, knowledge, credibility, etc. you can move up the ranks to Senior member, Associate Fellow, and Fellow.

Now, I'm sure there are many of you out there who are long overdue for an upgrade. If you are one of those well-deserving people who are due for an upgrade, please tell us! For more information, contact us at tucson_aiaa@yahoo.com or check out the national honors and awards web site listed above.

Aside from the individual awards, there are also several section awards available. These awards are given out annually and have monetary prizes associated with them.

This year, the Tucson Section, submitted applications for all seven awards. We'll pass the results on to you as soon as we know! Any winnings will be deposited into our treasury and put toward upcoming section activities. (Keep you fingers crossed! The more awards we win, the more \$\$ we get for activities, student projects, K-12 outreach, and professional development!)

In addition to these honors and awards, we picked up on some other Institute activities. First of all, we became aware of the Young Professional Committee. If you are under 35 years of age and are interested in becoming more involved in AIAA, we'll also be organizing more Young Professional activities that will bring together some of the newer members. This will allow you to meet other people your age so you can share new-hire stories or help new-hires adapt faster.

In addition, we learned about the Institute's involvement with celebrating the Evolution of Flight (<http://www.flight100.org>). (If you have any ideas of how we, the Tucson Section, could get involved with the Centennial of Flight, please speak up!)

AIAA Student Branch Status Report

by Matthew J. Angiulo
President, UA AIAA Student Branch

As we return to regularly scheduled classes at the University, the Student Branch is, once again, working strong to make this another landmark year for the organization. Last year's experience at the AIAA Design/Build/Fly competition was very memorable and exciting, and the entire membership is motivated to further our performance in this year's competition at the Patuxent River Naval Base in Maryland.

The new competition guidelines and rules were posted in June and since then we have been holding weekly meetings to work on our new design. These summer meetings are a first for the team -- historically the Student Branch has almost always been inactive during the summer.

In addition to that progress, our fund raising campaign is also underway. The Aerospace and Mechanical Engineering Department has donated one thousand dollars to our project and it is expected that the College of Engineering will match that donation.



Recruiting on UA Mall

Last year's Aircat 2000 fuselage in foreground

Added to the Tucson Section's very generous donation, this year is looking very promising. Our donations coordinator, Keith Brock, has been very successful in arranging for the donation of many building supplies and accessories. This is helping us greatly being that our travel to Maryland is expected to be our most significant expense.



Mockup of Experimental Fowler Flap

Our plan is to appeal to the local aerospace and engineering industry for support for our project. Since the AIAA is the major forum of this community, we're looking for sponsorship from your businesses and organizations. We'd very much appreciate any contact information you could provide for us.

Thank you very much for all your help and support so far. I am confident that this year will surpass all others as our finest year. If you'd like to become involved in our road to victory, please contact me at this address:

angiulo@engr.arizona.edu

Tucson Section Officer Roster 2000-2001

Chair: Kevin Kremeyer
Secretary/Treasurer: Kelly Sinnock
Membership: Rina Shivashankara
Webmaster: Robert Wagoner
UA Faculty Advisor: Larry Scott
Education Chair: Rajka Corder
Military Liaison: Ed Palanek
Newsletter Editor: Frank Manning
Support Staff: Jason Blauert

Web site: <http://www.aiaa.org/sections/ts/>

The AIAA's Local Partner in Educational Outreach: "School to Work"

by Jodi Horton

School to Work is an innovative and effective approach to workforce development that gives young people, grades K-16, real-life, real-work experience that will prepare and motivate them to succeed in tomorrow's jobs.

Our overall objectives are to add value to academic studies by demonstrating how skills learned in the classroom are applied in the workplace (and vice versa), and to cement this new

understanding through "connecting activities" such as independent research, journaling and oral reports.

In Tucson, over 500 employers have assisted us in this effort to date by providing opportunities for students and educators to job shadow, intern and/or receive mentoring services. Employers also provide training opportunities and may speak at career days or other special events.

Local School to Work activities across the nation are funded jointly by the US departments of Education and Labor through 5-year grants to all 50 states. Approximately \$4 million has come to the Pima & Santa Cruz School to Work Partnership through a series of performance-based contracts with the AZ Department of Commerce since the spring of 1996, and 131 new long and short-term programs and projects have already served over 150 000 youngsters!

For comprehensive national information, please see:

<http://www.stw.ed.gov/factsht/act.htm>

For information on how to become directly involved on a local level, please call 740-1749.

Scramble Space Tours

by Steve Lubliner

We at the Southern Arizona Rocketry Association (SARA) are inviting the AIAA and their families to participate in a model rocketry contest involving delicate payloads. SARA web site:

<http://www.primenet.com/~tmorgan/rockets/sara/>

Scramble Space Tours is looking for new launch vehicles for its new Space Tours Transportation System (STTS). STTS provides opportunities for Eggonauts to experience a space launch, coast, and recovery. Awards will be given for the greatest number of eggonaut-flight-minutes while keeping the precious payload intact.

The contest rules, written in the form of a Request for Proposal (RFP), can be found on the AIAA web site:

<http://www.aiaa.org/sections/ts/>

No prior experience is necessary, and fun is to be had by all. For more information, please contact Steve Lubliner at (520)296-1689 or:

103056.621@compuserve.com



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