



Newsletter

**Volume 15
Number 4
March 2001**

Calendar of Events 2000-01

- 15 Mar 2001 -- Space Weather Effects, by Jim Secan. See below for details
- 12 Apr 2001 -- See UA entry to Design/Build/Fly Contest, also guest lecture from UA professor. Details TBA.
- 20 - 22 Apr 2001 -- AIAA Design/Build/Fly Competition Patuxent River Naval Base, Maryland
- 3,4 May 2001 -- AIAA University-Industry Forum
Details at right

Next Meeting **FREE PIZZA!!**

Space Weather Effects on the Transionospheric Propagation Channel

Date: March 15, 2001 (Thursday)

Time: 6:15 PM

Who: Jim Secan

Location: University of Arizona
Lunar and Planetary Lab (LPL)
Room 309

For more information: tucson_aiaa@yahoo.com
Or call Kevin Kremeyer at 882-7349

ABSTRACT : Changes in the distribution of ionization in the earth's ionosphere, one aspect of space weather, can have a wide range of effects on systems which employ the transionospheric propagation channel. Systems affected can include communication systems that operate using frequencies below C band and navigation systems such as GPS. This talk will cover a range of potential effects, including effects of large-scale ionospheric structures as well as the phenomenon known as ionospheric scintillation.

MR. JAMES SECAN : Senior Research Scientist and Northwest Research Associates' (NWRA) Director of Space Weather Services, spent ten years with the USAF Space Environment Support System and has experience with all aspects of space-weather effects and how they might be mitigated or avoided.

In the subsequent twenty years with NWRA, Mr. Secan has worked closely with both USAF and NOAA space-weather organizations to aide them in developing tools and techniques for impact assessment, data analysis and interpretation, environmental modeling, and prediction of space-weather activity. Mr. Secan is also manager of NWRA's Tucson Office.

DIRECTIONS : Park in the temporary parking lot just West of the traffic light at Campbell and 3rd Street. LPL is the tall building just off of the Northwest corner of this parking lot (also directly East of the Flandrau Science Center). Aim to arrive between 6:00 and 6:15 PM, and enter at the Southwest corner of the building. It's Spring Break, so there will be no problems with traffic or parking. We will supply the pizza!

AIAA UNIVERSITY-INDUSTRY FORUM MAY 3RD AND 4TH

by Kevin Kremeyer

We finally have the details solidified! Set aside Thursday, May 3rd and Friday, May 4th to show off your company's capabilities and generate new connections and new business. We are hosting this event to help industry, government, and university research groups build relationships and collaborations with one another. The largest companies and research groups have already committed, which serves as a strong foundation to ensure interest to everyone.

Motorola and Boeing/Hughes will both be looking for collaborators, and Raytheon is sending a large number of groups in search of new technology, ideas, and capabilities. In addition to this, representatives will be present from interested government research labs and technical divisions. Even our Mayor is lending his support by meeting with out-of-town groups, and has also invited the Chairman of Motorola's Government Satellite Division.

We have already been busily arranging for University groups to display their own research/capabilities in booths adjacent to the industrial visitors who have asked to see specific specialties. We will round out the mix with students, and every hour, on the hour, a representative from one of the large research groups will talk for five minutes about their organization's goals and current efforts/needs.

The current representation is very broad, ranging from aerospace to biotechnology, from lasers and communication to fatigue, materials, and reliability. There is definitely room for every technology and for every cross-disciplinary application in this group, and our goal is to connect attendees with as many new facilities, collaborators, customers, and subcontractors as possible.

As part of the many innovative technologies and special capabilities sprinkled throughout Southern Arizona, your company (small or large) is invited to take part in this Forum on equal footing with the above groups.

If you (or your group leader) would like to have a booth, please notify us at tucson_aiaa@yahoo.com The cost of a booth is \$100 and covers everything, including a parking pass for both days, and lunch and dinner for two people on Thursday, May 3rd. This is the main "show and tell" / "meet and mingle" day, and will be held in the University's Stadium Club (in the U of A football stadium).

May 4th is dedicated to tours of different university facilities, and will begin with a kick-off presentation at U of A's Lunar and Planetary Laboratory by the Director of Simulations and Modelling of the U.S. Ballistic Missile Defense Organization.

You will receive a tour sign up sheet with your registration packet. The tour attendance lists will also be available at the Forum for you to add

or subtract your name. Everything is on a first-come, first-served basis. Checks can be made out to Tucson AIAA, and sent directly to our treasurer:

Kelly Sinnock
7663 S. Meadow Spring Way
Tucson, AZ 85747

(If you would like to send 4 people and occupy extra space, indicate that with a check for \$200)

Your registration packet will also include maps, a parking pass, detailed schedules and table sizes. Dinner tickets will be distributed when you sign in on May 3rd, and lunch will be delivered to your booths to spare you from standing in line.

When you send your check, please include a return address and a cover letter describing your company's specialties and needs. This will help us situate you most profitably next to complementary groups.

If you would like to see any specific companies or university groups present, you can either contact them directly, or ask us for help in arranging their attendance. Please include this information in your cover letter/email. [Copying Kevin Kremeyer with a voicemail (882-7349) or email (kremeyer@physics-math.com) will expedite the information transfer.]

Make sure you also let us know about any specific laboratories or user-facilities you would like to see (e.g. materials characterization, protein sequencing, wind tunnels, micro-electronics, particle accelerators, etc). If they're not already on the list, we will make every effort to add them.

Get your displays and demos ready, and we will see you in May!

AIAA UNIVERSITY-INDUSTRY FORUM

Purpose: To help industry, government and university research groups build relationships and collaborations with one another

Date: May 3-4, 2001 (Thursday-Friday)

Location: University of Arizona
Stadium Club (in UA football stadium)

Booth cost: \$100, includes parking pass for both days, plus lunch and dinner for 2 people on 3 May

Details: See article at left

Tucson Section Officer Roster 2000-2001

Chair: Kevin Kremeyer
Secretary/Treasurer: Kelly Sinnock
Membership: Rina Fulcher
Webmaster: Robert Wagoner
UA Faculty Advisor: Larry Scott
Education Chair: Rajka Corder
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American Institute of Aeronautics and Astronautics

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