
February 2002

Rock River Valley Section
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Event

Sense

The Institute of Electrical and Electronic Engineers, Inc.

Joint IEEE RRVS and ASME Meeting

The World of Experimental Aircraft- A Creative Outlet

When

Wednesday, February 20, 2002.

Where

Lino's Restaurant, 5611 E State St, Rockford, 815-397-2077. Lino's is at the intersection of State St. and Arnold Ave, about 0.5 mile west of Mulford and State.

Agenda

6:00 PM Social
6:30 PM Dinner
7:30 PM Program

Program

We in the United States and a few other nations have the privilege of operating relatively freely in the airspace above us. For those who love the out of doors and delight in going from A to B above the earth, there are several ways.

One of these is by experimental aircraft. The term *experimental aircraft* has two definitions. The first definition describes the creation of a prototype of any air vehicle to confirm theory. It may have no other purpose. The second definition refers to a class of certified aircraft recognized by the government that may be copies of another design or may be an original design. In the latter group each builder is defined as the manufacturer, and in the U.S., must have built at least 51% of the aircraft as defined by the government. These aircraft operate under the same rules and regulations as pro-

duction certified aircraft once the flight test restrictions have been flown off.

Certified experimental aircraft may serve as a creative outlet for the builder. Areas for ingenuity include the engine, materials, structures, systems, finishes, ergonomics, data acquisition, cockpit displays. Experimental aircraft include balloons, powered parachutes, sailplanes, blimps, or any other craft that weighs more than 256 pounds.

Experimental aircraft fill other creative outlet desires including travel and adventure. Travel may be slow, fast, or long, depending on one's interest. Stories exist of those who have traveled by a Regallo Wing Trike from South America to Africa, or circumnavigated the world by motor glider or by a 65 horsepower Kiffox, for example.

Speaker

Dick McClung is a retired engineer from Hamilton Sundstrand who worked in marketing and business development. Dick worked for 35 years in the aviation industry in the area of aircraft electrical power generating systems. He graduated from the University of Miami (Florida) in 1965 with a B.S.E.E. degree and did graduate work in oceanographic engineering. However,

his true love is flying. Dick has been a pilot for more than forty years holding a commercial pilot certificate for single and multi-engine land aircraft and single engine sea. He is instrument rated and has instructed more than 100 airplane and instrument students.

Dick enjoys hands-on activities and has built houses, boats, and an airplane. He also enjoys working with creative people to solve technical problems.

Door Prizes

Sponsored by RRVS and ASME.

Meal/Reservations

There are 3 choices for dinner: (1) Baked Lasagna, (2) Chicken Parmigiana, (3) Egg Plant Parmigiana. Please reserve your space and/or order your dinner selection by **calling Ginger at 815-394-5696 or sending her an email (ginger.spinasant@hs.utc.com) by Monday, Feb 18, at noon.** Please include the following information: your name, phone number, email address, and IEEE member number. Dinner is \$2 for student members, \$5 for members, \$13 for non-members.

Note

The meeting is open to the general public. You need not be an IEEE member. Guests are welcome. However, please call to enable us to make appropriate arrangements.

Notice of Change to Electronic Delivery Only of RRVS Newsletter

Availability of the Event Sense is now via electronic means only at the section website. Email notification of availability of the newsletter at the section website will be sent to all members with whom we have a valid email address on file. So please **make sure we have your valid email address**. For those members without an email address and who would like assistance in obtaining one, please contact one of the RRVS Officers for assistance. Members who do not plan to have email, you will be sent a post card with a brief announcement of the meeting AND the availability and URL location of where the newsletter can be viewed via a web browser. This is dependent on the IEEE database having an accurate address for these individuals. Please **check the accuracy of your address in the IEEE database (see pg 4 for access to your data in the IEEE database)**.

Chicago/Rockford IEEE Consultants' Network Meeting

The next meeting will be on Monday, March 25, 2002. The optional informal dinner is at 6:15 PM at Bakers' Square (270 E. Northwest Highway and North Court), and the meeting at 7:30 to 9:00 PM at the Palatine Public Library (700 North Court, Palatine, IL 847-358-1216). This month there will be an open discussion on "Time to Fly Solo?" based on the article by Dr. Stuart G. Walesh in the Summer 2001 edition of The Bent of Tau Beta Pi.

"Is Your Job Security Fading? Is the corporate bureaucracy getting you down? Are you increasingly concerned about how much and how hard you work and how little you earn? Are you tired of talk about pay for performance? Are you stagnating intellectually? Do you want autonomy? Do you increasingly think, 'I could do it better?' Are you retired but still 'have the itch?'"

Then maybe now is the time to 'fly solo' to go out on your own - to start a sole proprietor, individual practitioner, or free-lance consulting business that builds on your experience and vision. Remember, you only go around once.

'Going out on your own' as a consulting engineer is a major undertaking. As part of your 'go or no go' decision, you should consider many factors. Four of the most important ones are: reasons to consider flying solo, characteristics of successful sole proprietors, marketing and the possibility of failure."

Information about the network can be obtained by e-mail: g.l.blank@ieee.org and at our web site <http://www.drblank.com/coaction.htm>

January Meeting Recap

The January section meeting consisted of a tour of Danfoss drives in Loves Park, IL. After an excellent company overview and Q & A, Danfoss guides took RRVS members on a tour of the sales, marketing, design, manufacturing and test areas in the newly constructed facility by I-90 and Riverside, on Bell School Road. Before October, 2001, Danfoss was located on the south side of town in the East Rock Industrial Park. In October they relocated to the new 125,000 square foot facility that boasts a very efficiently thought out and laid out manufacturing operations for variable speed drives for induction motors that are manufactured in the facility. Manufacturing operations are for the 1-500 horsepower range of drives. In addition to manufacturing, 75-500 horsepower drives are designed in the Loves Park facility. The 1-60 horsepower drives are actually designed in Denmark, the company headquarters. Danfoss Drives represents the variable speed drive portion of the Motion Control Business, which is one of three main business groups at Danfoss.

March Meeting Preview

This meeting will feature Caio Ferreira who was the IAS Society president in 2000. Many RRVS members will remember that Caio was also the RRVS section chair for 6 years, from 1989 to 1994. In 1994 Caio moved to Los Angeles and started his own consulting business. Caio will speak about switched reluctance motor based solutions.

Submissions to *Event Sense*

Send articles and job ads to the *Event Sense* editor, Bob Parro, via e-mail (preferred), or fax. Job ads will run for two consecutive months. Contact the *Event Sense* editor if the ad needs to run longer. Please make submissions by the twenty-fifth of the month. All submissions are subject to editing for style, clarity, and space considerations.

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***The Rock River Valley Section gratefully acknowledges the following
companies and university for supporting Section Officers:***

Hamilton Sundstrand • Northern Illinois University • Telelogic

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	<p>Electronic IEEE Membership Application www.ieee.org/join.html</p>

Calendar

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- February Joint IEEE/ASME Section Meeting (note: Wednesday) ... Feb 20**
Dick McClung to speak about building, flying and crashing his own plane; Lino's in Rockford
- March Section Meeting TBD**
Former IAS Society President and former RRVs Section Chair Caio Ferreira will present
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Time-Sensitive Material

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