



## IEEE Section Meeting - Tuesday November 16, 2004

### Plant Tour: Electronic Design & Manufacturing Company (EDM) - Lynchburg, VA

#### EDM Plant Tour

- Dinner:** Charley's Restaurant  
707 Graves Mill Road  
Lynchburg, VA  
434-237-5988
- When:** Tuesday November 16, 2004  
6:00 P.M. Social  
6:30 P.M. Dinner  
7:20 P.M. Travel to EDM  
7:30 P.M. EDM Plant Tour
- Meal Cost:** A la carte - separate checks
- Tour:** EDM  
31 Millrace Drive  
Lynchburg, VA 24502
- Directions:** Please follow the link for "Next Meeting" on our web site ([www.cvaieee.org](http://www.cvaieee.org)) for directions to Charley's and EDM
- RSVP:** Please RSVP (positive responses only) to Carlos Whaley ([carlos.whaley@ieee.org](mailto:carlos.whaley@ieee.org) or 434-525-4852) by 5:00 PM on Friday November 12 so we know how many to expect for dinner and for the tour.

**Tour:** EDM specializes in custom-building Printed Circuit Board assemblies, from simple boards with few parts to complex projects with hundreds of components. They can build prototypes or handle high-volume production runs. For projects still in the planning stage, they can create designs ready for manufacturing.



EDM has grown steadily while maintaining a strong financial position. They have a reputation for quality products, based on attention to detail and flexibility to meet customers' requirements. They maintain full Registration to the ISO 9001:2000 Standard. They strive to stay current with technological advances in the industry, and to retain highly-skilled and qualified people. Their manufacturing facility includes high-speed Surface Mount placement lines which can handle fine-pitch parts and ball-grid arrays. Thru-Hole components are installed by automated thru-hole insertion equipment as well as experienced hand assemblers.

EDM can provide final assembly of the PCB with other parts, or into a case or housing system. They can assemble, test, and package the product to the customers specifications.

**About EDM:** EDM is a privately-held, employee-owned company founded in 1990 by Robert C. Roberts to provide contract electronic design and manufacturing services backed with high-level technical support. They consider customers to be their

partners. Many of these partnerships have lasted more than 10 years, and range from major national appliance companies to small custom electronics firms.

**About Robert C. Roberts:** After receiving the BSEE (1963) and MSEE (1965) degrees from the University of Kentucky, Robert completed additional postgraduate work in engineering and business management there and at VPI (VT). He did design and development engineering work at GE, Bailey Meter Company, and SAIC. While at Babcock & Wilcox Research Center, Robert did research in controls, monitoring and safety systems for nuclear power plants. He holds eight patents. Robert is active in church, Rotary International, and civic organizations, and is a board member of United Way of Central Virginia.

For more information about EDM, please visit their web site <http://www.edmva.com>.

#### Hyperlink Note:

The IEEE is not noted for providing short aliases for their web pages. You can view this newsletter online at our web site [www.cvaieee.org](http://www.cvaieee.org) (follow the link for "Newsletter") to use live hyperlinks.

## **IEEE Central Virginia Section Organization**

### **Chair:**

Carlos Whaley  
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### **Vice Chair:**

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### **Secretary/Treasurer:**

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### **Web Site Coordinator, Membership Chair, Newsletter Editor, SAMIEEE Coordinator:**

Larry Heine  
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Phone: (540) 833-5142

### **Central VA Web Site:**

[www.cvaieee.org](http://www.cvaieee.org)

## **Computer Society Chapter**

Effective October 7, 2004, the Central Virginia Section - Computer Society Chapter has been approved. Carlos Whaley is the acting Chapter Chair until elections can be held.

In addition to providing a local group for Computer Society members, having the Computer Society Chapter will benefit the Section by making a wide variety of speakers from outside the local area available through the Distinguished Visitors Program. Additional information is available at <http://www.computer.org/chapter/DVP/Northamerica.htm>.

## **Renew your membership now!**

You should have received your membership renewal invoice in the mail. You may renew your membership online at [www.ieee.org/renew](http://www.ieee.org/renew). Note that there is a 50% discount if you are unemployed or underemployed.

Remember, the IEEE gives you access to the best technology in the world with which to do your job, and the IEEE provides a network of fellow engineers that care about you and your career.

## **Upgrade your membership**

Becoming an IEEE Senior Member is one of the most important things that you can do as a Electrical or Computer Engineer. Senior Member status is recognition by your peers of career achievement and contribution to the profession.

The IEEE has a special program to promote Senior Member upgrades. Information on this program can be found at <http://ewh.ieee.org/reg/3/membership/smprogram.html> and at <http://ewh.ieee.org/reg/3/membership/sminitiative.html>.

Note that your Section officers are happy to help you with the recommendation process. Please contact any of the officers (contact information is on the left).

## **Richmond Power Engineering Society**

On Wednesday November 10, 2004, Allen Todd, Director of Utilities for the City of Manassas will be presenting "Broadband Powerline Carrier Deployment in Manassas, Virginia" at a joint meeting of the Power Engineering Society of the IEEE Richmond Chapter and the Mid Atlantic Power Quality Society (MAPQS)..

The meeting location is the Dominion Virginia Power Facility at Innsbrook (northwest of Richmond - contact Dan Ward for directions).

Social: 5:30 - 6:30 PM  
Meal: 6:30 - 7:30 PM  
Program: 7:30 - 8:30 PM  
Business Meeting: 8:30 - 9 PM

The price is \$20; Checks should be made out to MAPQS. You can mail your check or bring it to the meeting.

Please confirm attendance by Nov. 3 to Dan Ward via e-mail, phone or fax below.

Dinner menu: Honey dijon chicken, Wild rice, Vegetable medley, Tossed salad, Dessert, Beverage

Cancellation/No-Show Policy:

If you confirm attendance, we have to pay for your meal. So, if you cancel after the deadline or don't show up, please pay us back. Send your check for \$20 made out to "MAPQS" to the attention of:

Daniel J. Ward, Dominion Virginia Power, P.O. Box 26666, OJRP-11, Richmond, VA 23261

Phone: (804) 775-5328, Fax: (804) 775-5266, e-mail: dan\_ward@dom.com

# IEEE Section Social Event - Tuesday December 7, 2004

## Leander McCormick Observatory and Museum, UVa, Charlottesville, VA

### December Social Event

<b>Where:</b>	UVa Leander McCormick Observatory and Museum
<b>When:</b>	Tuesday December 7, 2004 7:00 P.M. to 10 P.M.
<b>Cost:</b>	Free for members and guests
<b>Directions:</b>	Please follow the link for "Next Meeting" on our web site: <a href="http://www.cvaieee.org">www.cvaieee.org</a>
<b>Guide:</b>	Jennifer Bartlett - UVa Graduate Astronomy Student
<b>RSVP:</b>	Please RSVP (positive acks only) to Carlos Whaley ( <a href="mailto:carlos.whaley@ieee.org">carlos.whaley@ieee.org</a> or 434-525-4852) by 5:00 PM on Thursday December 2 so we know how many to expect.

Our December Social will be held at the Leander McCormick Observatory and Museum on the UVa campus. The event is intended to be a family affair so spouses and children are welcome.

Buffet-style refreshments (hot and cold beverages, snacks, sub slices, cake) will be available and the evening will include a guided tour of the museum and observatory. Weather permitting, our guide will open the roof and allow us to use the observatory telescope.

**Observatory History:** The University of Virginia's Leander McCormick Observatory was founded in 1877 through a \$68,000 gift from Leander J. McCormick. The large contribution was made possible by the fortune made from the 1831 invention of the mechanical reaper by Leander McCormick, his brother Cyrus and their father Robert on their farm near Steele's Tavern, VA. The gift was first offered to Washington College, but was declined by the college's president, Robert E. Lee, partly on the grounds that continuing support of the observatory would be difficult to obtain. A letter to this effect from Lee to Joseph

Henry, the first Secretary of the Smithsonian Institution, can be seen in the museum area.

The Observatory was completed and opened in 1885, and the telescope was the first major scientific facility at the University of Virginia. For several years the 26-1/4 inch refracting telescope was the largest in the country and second largest in the world. Although later surpassed in size, the McCormick lens is still regarded as the most perfect large lens ever produced.

**Museum:** The Leander McCormick Observatory Museum features a display about an astronomy topic that changes periodically as well as antique equipment from the early years of the Observatory and some discussion of the history of the Observatory. The current display is about the life cycles of stars.

Additional information about the observatory is available at <http://www.astro.virginia.edu/research/observatories/26inch/index.html>.

## IEEE Employment and Career Services

The IEEE has a wealth of resources available to members to assist in employment, career planning, and professional development. The following is a list of places that you, as an IEEE member, can go for these services.

Career Navigator - <http://ieeusa.org/careers>

IEEE Job Site - <http://careers.ieee.org>

Employment & Career Strategies Forum - <https://www.ieeecommunities.org/ecs>

PACE Network - <http://ieeusa.org/pace>

Region 3 Employment Page - <http://www.ieee.org/r3jobs>

### Reduced Member Dues:

If you are unemployed through involuntary termination and actively seeking employment, or if your income has fallen below certain levels, you can request a 50% reduction in your IEEE and society dues/assessments (including publications). Contact IEEE Member Services at 1-800-678-IEEE for details.

## Volunteers Needed!

The Central Virginia Section's Executive Committee is looking for individuals in the Charlottesville, Lynchburg, and Harrisonburg areas who would be willing to help us organize a technical or professional meeting or to serve on the Executive Committee. If you are willing or if you have any ideas for meeting topics, please contact one of the Section officers (see p. 2 for contact information).



# IEEE November & December 2004 Calendar of Events

- Tuesday November 16 - Plant tour of Electronic Design and Manufacturing, Inc. (EDM), Lynchburg, VA
- Tuesday December 7 - Holiday Social - McCormick Observatory, UVa, Charlottesville, VA, 7 PM to 10 PM

## IEEE Organizing Global Pre-College Technology Education Program

Continuing in its tradition of innovation, IEEE is taking the lead in developing a new non-discriminatory global pre-college technology education program. The program titled, [emeritbadges.org](http://emeritbadges.org), will be directed globally towards pre-college boys and girls.

Emeritbadges.org has developed hands-on electricity and electronics instructional material based on the Boy Scouts merit badge requirements. Instructional material for computer education is being developed. Any student, boy or girl can use the program to enhance technical literacy and learn more about viable engineering and other technical career options.

Additional project and volunteer information can be found at <http://www.emeritbadges.org>.

## 2005 National Scout Jamboree

Over 100 volunteers are needed for the IEEE Electronics Merit Badge Booth at the 2005 National Scout Jamboree. We need to get a good idea of how many people are interest in volunteering in 2005. If you are interested in volunteering in 2005, please go to <http://www.emeritbadges.org/volunteers.htm> and enter your personal information.

**MEMBERS: Please post in your workplace!**

Send address changes including IEEE member number to:  
IEEE Member Services, P.O. Box 1331, Piscataway, NJ 08855-1331

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