



ELECTRON

Institute of Electrical & Electronics Engineers, Inc.

THE IEEE CHARLOTTE SECTION NEWSLETTER

June 1999

Power Engineering Society Meeting

CHARLOTTE TROLLEY TOUR

There has been a great deal of discussion in the news lately about transportation in Charlotte, and light rail has been at the top of the list. However, light rail is not new to Charlotte, since Charlotte had an extensive streetcar system at the beginning of the century. Charlotte Trolley is working to return streetcars to Charlotte.

In this tour of the Charlotte Trolley facility, we will learn about history of the streetcar in the United States and in Charlotte, and discuss the five cars currently in the fleet, from #1, a 1914 semi-convertible, to #13, a state of the art PCC car built in 1949. The focus of the tour will be to discuss the differences in technical sophistication of the cars, describe the various controls and drive systems used and gain a better understanding of how electric streetcar technology evolved. We will also discuss the on-going restoration of the cars, which is performed mostly by amateurs, and the plans for daily operation beginning in 2001.

We will finish the tour by discussing the operation of #85, which was built and operated by Southern Public Utilities in Charlotte. We will conclude with a ride Uptown on #85, and then return to South End for dinner at South End Brewery.

Date/Time: Thursday, June 17, 1999

5:00 PM – Meet at the Car Barn

\$5.00 Charge for dinner at South End Brewery including non-alcoholic beverages

Tour is limited to 20 people.

☛ **Reservations** required by noon on June 17, 1999.

Location: Charlotte Trolley Car Barn, 2104 South Blvd., Charlotte, at Atherton Mill

Parking: The Car barn is located at Atherton Mill, behind South End Brewery. From Uptown, take South Blvd to Tremont Ave. (1st light after East Blvd.). Proceed on South Blvd. approximately 1/8 mile to Atherton Mill on the right. The car barn is at the rear of the parking lot. General Parking for Atherton Mill is provided. If parking lot is full, you may park at the rear of the barn. This parking area can be reached through the alley on the left of South End Brewery. Enter the barn through the door to the left of the roll-up door.

Contacts: For Reservations or more information:

Lee Underwood	426-3016	Lee.S.Underwood@d-fd.com
s Clippinger	382-9333	ckclippi@duke-energy.com
Steve Ladd	382-6656	sbladd@duke-energy.com
Fred Thornton	382-3094	fwthornt@duke-energy.com

IEEE Charlotte Section 1999 Meeting Calendar

Annual Section Picnic
August 19, Thursday

Computer Society
September 20, Monday

Communications Society
October 19, Tuesday

Annual Section Banquet
November 18, Thursday

IEEE COMPLETES SLOAN PROJECT, PRODUCES MULTIMEDIA CAREER RESOURCES

Many students are so immersed with technical subject matter that they often overlook what is needed for success in the "real world." To provide students with the necessary information to plan for their careers, the IEEE has produced the following multimedia resources that take an in-depth look at careers for electrical engineers and computer scientists:

- The IEEE Student Career Web site at www.ieee.org/organizations/eab/sloancareers/sloancareers.htm
- The CD-ROM, *Careers for Electrical Engineers and Computer Scientists*
- Videos, *What's Out There* and *Getting Ready*

"Although aimed at the college student, these materials are also helpful to high school students who are contemplating technical careers," said Peter Wiesner, director of continuing education for IEEE Educational Activities. "We want to encourage students to think about careers early, and provide them with the appropriate resources to do so."

The IEEE was one of eleven professional associations to receive funding from The Alfred P. Sloan Foundation to create products that explore the various career opportunities open to scientists, engineers and mathematicians. To obtain information about the other participating associations, visit the Sloan Web site at www.careercornerstone.org.

The CD-ROM and videos are available for purchase from the IEEE Customer Service Department, 445 Hoes Lane, PO Box 1331, Piscataway, NJ, 08855-1331; E-mail: customer-service@ieee.org; Phone - 1.732.981.0060

To order the CD-ROM--\$29.95 list and \$19.95 for IEEE members--use code EC100-QVE; to order the *What's Out There* video--\$24.95 list and \$19.95 for IEEE members--use code EV5526-QVE; to order the *Getting Ready* video--\$24.95 list and 19.95 for IEEE members--use code EV5522-QVE. For more information on any of these products, visit IEEE Web address www.ieee.org/organizations/eab/careeresource.htm.

The Institute of Electrical and Electronics Engineers, Inc. (IEEE) is the world's largest technical professional society, serving the interests of more than 335,000 members in the information and electro-technology communities in approximately 150 countries. In keeping with its "Networking the World" slogan, the IEEE helps to foster technological innovation, enable members' careers, and promote worldwide professional community. The Educational Activities Board (EAB) of the IEEE recommends educational policy to the IEEE Board of Directors, and coordinates the Institute's educational activities, programs and products.

CHARLOTTE SECTION OFFICERS & DIRECTORS

Chair John Tannery	Duke Power	704/382-9867 jtannery@duke-energy.org
Vice Chair Natalie Sayles	Duke Power	704/875-4895 nalittle@duke-energy.com
Secretary Dave Pullen		704/382-3087 dcpullen@ieee.org
Treasurer Tracy Blackmon	Duke Power	704/382-5692 trblackm@duke-energy.com
Past Chair Cathy Hope	Duke Power	704/382-8560 chope@duke-energy.com
Directors Kale Meade	Duke Power	704/382-0331 kmmeade@duke-energy.com
Carol Mullis	Duke Power-Retired	704/537-0538
Roscoe White	Duke Power-Retired	704/537-8449
Mehdi Miri	UNCC	704/547-4140 miri@uncc.edu

IEEE CHARLOTTE SECTION 1999 EXECUTIVE COMMITTEE CALENDAR

June 9, Wednesday
August 11, Wednesday
September 15, Wednesday
October 13, Wednesday
November 10, Wednesday
Annual Planning Meeting
December 1, Wednesday

Executive Committee meetings are held at: Duke Energy
Energy Center Phase II
Room 9-105A
6:00 p.m.



ELECTRON
Institute of Electrical & Electronics Engineers, Inc.

ELECTRON INFORMATION & COMMENTS

Send information you would like to have included in the newsletter to:

Paul Colaianni, ELECTRON Editor
Duke Energy Corp.-EC12R
P.O. Box 1006
Charlotte NC 28201-1006
p.colaianni@ieee.org, 704/382-5632

ADDRESS CHANGES — 1-800-678-4333

Dial the IEEE Service Center (8 a.m.-4 p.m.) for address changes, IEEE publication orders, membership applications, standards seminars information, and other student and member services.

**TIME
SENSITIVE
MATERIAL**

Non-Profit Org.
U. S. Postage
Paid
Charlotte, NC 282
Permit No. 1361