
IEEE CHARLOTTE SECTION NEWSLETTER



Website <http://ewh.ieee.org/r3/charlotte/>



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Siemens Charlotte Facility Plant Tour

The IEEE Charlotte Section Power and Energy Society Chapter organized a plant tour at Siemens Charlotte Facility. On Aug. 31, 2012, approximately 30 IEEE Charlotte members toured Siemens' world-class facility for the production of power-station turbines.

UNC Charlotte EPIC Dedication

The dedication ceremony for the \$76 million Energy Production and Infrastructure Center (EPIC) at UNC Charlotte was conducted on Nov. 16, 2012, by UNC Charlotte Chancellor Phillip Dubois and Eugene Johnson, the Board of Trustees Chair.

IEEE SoutheastCon 2012 and 2013

Almost 30 leaders from North Carolina IEEE sections and student branches met at the 2012 IEEE SoutheastCon in Orlando, FL. Consider participating in next year's SoutheastCon in Jacksonville, FL, on April 4-7 2013. For details, see <http://ewh.ieee.org/reg/3/southeastcon2013/>.

UNC Charlotte Solar Decathlon

UNC Charlotte is one of twenty university teams chosen to compete in the US Department of Energy Solar Decathlon to demonstrate inventive net-zero energy, solar-powered, houses with energy-efficient construction and renewable energy systems.

UNC Charlotte Senior Design Fall Expo

The UNC Charlotte Senior Design Fall Expo, cosponsored by the IEEE Charlotte Section Education Society, will be held at UNC Charlotte, on Dec. 7, 2012, and is open to the public.

NC Smart Grid Technical Forum

The Second Annual North Carolina Smart Grid Technical Forum was held at the UNC Charlotte Uptown Campus and the UNC Charlotte EPIC Center on May 1-2, 2012.

NSF I/UCRC Center for Metamaterials

Learn about this Industry-University Collaborative Research Center at UNC Charlotte.

Other Upcoming Meetings

Check the section website above for upcoming meetings, or contact our chapter or section officers if you would like to suggest an idea for a meeting.

IEEE Charlotte Section Elections

Please watch your email for news on the upcoming IEEE Charlotte Section elections.

[Check Inside for More Details](#)

IEEE Charlotte Section Officers

Website

<http://ewh.ieee.org/r3/charlotte/>

Section Officers

Chair: Nate Quirk
Vice Chair: Claude Hargrove
Secretary: James Conrad
Treasurer: Rob Cox

Section Committee Officers:

Nominating Com. Chair:
Program Chair:
Membership Development Chair:
Webmaster: David Wallach
Section Newsletter Editor: Tom Weldon

Volunteer!

If you or one of your colleagues would like to **volunteer for a vacant position**, please contact one of the officers listed above. For further information, refer to the IEEE Charlotte Section website:

<http://ewh.ieee.org/r3/charlotte/>

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Charlotte Chapters

Power and Energy Society Chapter Officers

Chair: Johan Enslin
Vice Chair: Sukumar Kamalasan
Secretary: Forrest Suter
Treasurer: Valentina Cecchi

Computer Society Chapter Officers

Chair: Claude Hargrove
Vice Chair: vacant
Secretary: vacant
Treasurer: vacant

Communications Society Chapter Officers

Chair: Yu Wang
Vice Chair: vacant
Secretary/Treas.: vacant

Education Society Chapter Officers

Chair: Jim Conrad jmconrad@uncc.edu
Vice Chair: John Covington
Secretary: vacant
Treasurer: Valentina Cecchi

Women in Engineering Officers

Chair: Nan BouSaba
Vice Chair: vacant
Secretary: vacant
Treasurer: vacant

UNC Charlotte Student Branch Officers

Counselor: Claude Hargrove
Chair: Michael Gimon
Vice Chair: Oleg Zigalenko
Secretary: Moin Siddiqui
Treasurer: Jin Chen



Siemens Charlotte Facility Tour, turbine production.

Siemens Charlotte Facility Plant Tour

The IEEE Charlotte Section Power and Energy Society Chapter organized a plant tour at Siemens Charlotte Facility. On Aug. 31, 2012, approximately 30 IEEE Charlotte members toured Siemens' world-class facility for the production of power-station turbines. The staff at Siemens provided an impressive tour of this expansive facility and various stages of turbine production.

Special thanks to the Siemens staff who hosted the tour! Also, thanks to Forrest Suter (IEEE Charlotte PES Secretary) and Johan Enslin (IEEE Charlotte PES Chair and UNCC EPIC Center Director) for their help in organizing this great event! To learn more about Siemens, see <http://www.energy.siemens.com/us/en/charlotte/about-charlotte.htm>.



Siemens Charlotte Facility Tour, tour group photo.



UNC Charlotte Senior Design Expo (Fall 2011 photo).

UNC Charlotte Fall Expo: 12/7/2012

The UNC Charlotte Senior Design Fall Expo, cosponsored by the IEEE Charlotte Section Education Society Chapter, will be held at UNC Charlotte, on Dec. 7, 2012, and is open to the public. Dozens of projects and project posters will be displayed at the UNC Charlotte Student Activity Center, 11:00 AM – 2:00 PM. The Lee College of Engineering's senior design program brings together students and industrial partners in a collaborative research environment. Please take this opportunity to see a wide range of multidisciplinary real-world engineering projects, meet the engineering students, and learn more about their industry. For more information about the projects and updates on last-minute schedule changes, see the senior design website at <http://srdesign.uncc.edu>. If your company might be interested in sponsoring a student project, contact Tom Brown, Director, Industrial Solutions Lab, 704-687-2934, tbrow200@uncc.edu.

Mark your calendars!

UNC Charlotte Senior Design Expo

December 7, 2012

UNC Charlotte

IEEE SoutheastCon 2013

April 4-7 2013.

Jacksonville, FL



UNC Charlotte EPIC Dedication, Nov. 16, 2012.

UNC Charlotte EPIC Center Dedication

The dedication ceremony for the new \$76 million Energy Production and Infrastructure Center (EPIC) at UNC Charlotte was held on Nov. 16, 2012. UNC Charlotte Chancellor Phillip Dubois and UNC Charlotte Board of Trustees Chair Eugene Johnson conducted the dedication ceremony.

The EPIC center is located on the UNC Charlotte campus and will serve in the training of a new generation of engineers and in the conduct of research on new energy technologies. The new EPIC building houses UNC Charlotte's Electrical and Computer Engineering Department, along with the Civil and Environmental Eng. Dept. The building's laboratory facilities will expand opportunities for students to gain hands-on experience with industry leaders.

The Chair of our IEEE Charlotte Power and Energy Society Chapter, Johan Enslin, is director of the Energy Production and Infrastructure Center (EPIC) at UNC Charlotte. For more information, see <http://epic.uncc.edu>.

Check your email!

Check your email for IEEE Charlotte announcements, and make sure that email from IEEE e-notice is not blocked or marked as junk.



UNC Charlotte EPIC building.

NC Smart Grid Technical Forum

The Second Annual North Carolina Smart Grid Technical Forum was held at the UNC Charlotte Uptown Campus and the UNC Charlotte EPIC Center on May 1-2, 2012. For further details, see <http://epic.uncc.edu/2012-smart-grid-forum>.

IEEE SoutheastCon 2013 in Jacksonville

Consider participating in next year's SoutheastCon in Jacksonville, FL, on April 4-7 2013. For details, see <http://ewh.ieee.org/reg/3/southeastcon2013/>.

Ideas for Society Chapter Meetings?

The society chapters are working on plans for upcoming meetings. In the IEEE Charlotte Section we have local chapters of the Power and Energy Society (PES), Communications Society, Computer Society, and Education Society. If you have any suggestions for upcoming meetings or plant tours, please contact the society chapter officers on <http://ewh.ieee.org/r3/charlotte/officers.html>.

Update your info!

Update your membership record online, set up your own IEEE web account, or volunteer to fill a vacancy in the section or a society chapter. The site is: http://www.ieee.org/membership_services/.



UNC Charlotte 2013 Solar Decathlon house.

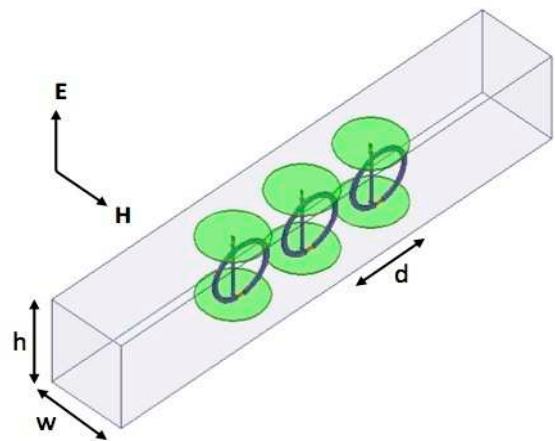
UNC Charlotte Solar Decathlon

UNC Charlotte is one of the twenty university teams that were chosen by the US Department of Energy to compete in the US Department of Energy Solar Decathlon 2013. These twenty university teams from around the world compete through a series of 10 contests to demonstrate inventive clean-energy solutions by building net-zero energy, solar-powered, houses that feature cost-effective, energy-efficient construction and incorporate energy-saving appliances and renewable energy systems.

UNC Charlotte's "Urban Eden" house incorporates revolutionary approaches to sustainable design and construction, including the choice of building material (geopolymer cement concrete), an innovative passive cooling and heating system integrated into the walls and ceiling of the house, and responsive technology that allows the house and its inhabitants to adapt to changing environmental conditions.

Work began on the design in October 2011. The house will be built in the EPIC building on the UNC Charlotte campus; the team will break ground in January 2013 and will complete construction next summer, before transporting the house to California in September 2013. The competition takes place October 3-13, 2013.

Please visit the UNC Charlotte Solar Decathlon at: <http://solardecathlon.uncc.edu/>



NSF Center for Metamaterials, microwave metamaterial.

NSF I/UCRC Center for Metamaterials

UNC Charlotte, along with City University of New York, Clarkson University and Western Carolina University were awarded an Industry-University Collaborative Research Center grant in 2011. The Center provides a forum for industry/university cooperative research on the development and application of metamaterials - patterned and/or composite materials in which waves behave in unusual ways, not commonly found in nature. Researchers at the Center focus on precompetitive topics jointly identified by the university and member participants as being of high value, and include fundamental research, metamaterials processing, and device development. Center projects advance knowledge through precompetitive research that will directly benefit Center members through shared knowledge and intellectual property. Active projects address the design, modeling, fabrication and testing of metamaterials. Materials with unusual electromagnetic properties such as a negative index, zero permittivity or very high permittivities are being studied for numerous applications. Industry and government members of the Center for Metamaterials fund research projects in microwave, infrared and optical metamaterials through membership fees and enhancement grants. Current members include US AFRL Sensors Directorate, US Army CERDEC, Raytheon, United Technologies, Corning, Xerox and Pheobus Optoelectronics.

More details can be found at: <http://centerformetamaterials.org/>.

New IEEE Members

Now would be a great time to ask your colleagues to join IEEE! Contact one of our section or chapter officers if you have any recruiting or membership questions.

Charlotte Section Archives

Did you know that the IEEE Charlotte Section website includes an archive page that traces our section history from 1929 to the present? See <http://www.ewh.ieee.org/r3/charlotte/archives.html>.

NC Council News

Our 2013 IEEE North Carolina Council Chair is Tom Weldon, from the Charlotte Section. The link to the North Carolina Council website is <http://ewh.ieee.org/r3/ncc/>. The IEEE NC Council is comprised of the Charlotte Section, Western NC Section, Winston-Salem Section, Central Section, and Eastern NC Section.

Region 3 News

A link to the IEEE Region 3 website can be found at the top of the IEEE Charlotte Section website at <http://ewh.ieee.org/r3/charlotte/>. The current Region 3 Director is David Green. IEEE Region 3 includes the states of Alabama, Florida, Georgia, areas of Indiana, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Virginia and the country of Jamaica.

Update Member Records Online

You can now update your member record online, including your name, address, e-mail, and telephone. So, the next time you get an IEEE mailing with your name or street spelled incorrectly, you can go to the web page and fix it instantly. You will need an IEEE web account in order to take advantage of this service. The site address for updating your record is http://www.ieee.org/membership_services/.

Get an IEEE E-mail Alias

The IEEE now offers an Alias Service in which IEEE members can register or update a personal alias of their choice (subject to availability and on a "first come, first serve" basis). Messages addressed to the alias@ieee.org will automatically be forwarded to your Internet e-mail address. The virus-scanning feature helps prevent you from receiving viruses. See <http://eleccomm.ieee.org>.

Could you be an IEEE Senior Member?

The grade of Senior Member is the highest for which application may be made and shall require experience reflecting professional maturity. For admission or transfer to the grade of Senior Member, a candidate shall be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields. The candidate shall have been in professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years, as outlined on the IEEE website.

For more information, or for the Senior Member upgrade forms, visit the web page at http://www.ieee.org/membership_services/ and click on "Elevate your grade."

Want email about Charlotte events?

Use your IEEE web account to ensure that you receive IEEE email by setting your Personal_Profile Communication_Preferences and make sure to set "Do not Send Email = N."

Mark your calendars!

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UNC Charlotte

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April 4-7 2013.

Jacksonville, FL

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Institute of Electrical and Electronics Engineers, Inc. (IEEE)