



IEEE NEWS FOR JANUARY 2013

Jacob Z. Schanker, P.E., Newsletter Chair
The new Rochester section web site is at: <http://rochester.ieee.org/>

Rochester Section Meeting – Tuesday, January 8, 2013 at 12 Noon

The next Rochester Section business meeting is on Tuesday, January 8, 2013 at 12:00pm, at the Shanghai Restaurant, 2920 West Henrietta Road, just south of the intersection with Brighton-Henrietta Town Line Road.

Any IEEE member is invited. Lunch is only \$3 for IEEE members. No reservation or RSVP is needed, just show up. Come to enjoy the renowned Shanghai cuisine and the sparkling company of other IEEE members.

The IEEE Rochester Section Officers for 2013

Elected at the December Section meeting were:

Chair: William Fowlkes (Kodak)
Vice-Chair: Greg Gdowski, (University of Rochester)
Treasurer: Dennis Thompson (ITT Exelis)
Secretary: Dhiraj Joshi, (Kodak)

Our officers begin their terms on January 1, 2013.

IEEE PACE Presentation on LinkedIn in January

Title: LinkedIn Like You've Never Seen It Before
Presenter: Kim Brown
Date: Wednesday January 16, 2013
Time: 7:00 PM
Location: Canandaigua National Bank - Basin Park Office
1150 Pittsford-Victor Road
Pittsford, NY 14534, New York

For latest updates, visit:

https://meetings.vtools.ieee.org/meeting_view/list_meeting/15663 and
<http://www.linkedin.com/groups?gid=1890849>

Join Kim Brown for “LinkedIn Like You’ve Never Seen It Before.” No matter what stage your career is in, LinkedIn is an incredible tool, but one that’s not entirely easy to navigate. As a career services expert with several personal connections to LinkedIn, Kim will show you several “hidden gems” within the website to help you use it more effectively. Not a LinkedIn user just yet? That’s OK! All user levels are welcome and encouraged to attend this program.

Kim Brown is Assistant Director for Alumni Programs in Syracuse University’s Career Services office and is an Adjunct Professor of Broadcast and Digital Journalism at SU’s Newhouse School.

She is a regular contributor to Syracuse.com’s Job Advice blog, as well as a weekly guest on WSYR-TV’s *Bridge Street* discussing social media for career growth. The former TV news reporter is featured on this year’s United Way campaign materials in Central New York and was chosen to be on the cover of *Today’s CNY Woman* magazine in December 2011. With nearly 4,000 followers on Twitter and nearly 2,500 LinkedIn connections, Kim prides herself on being a “connector” and teaching others how to effectively build their networks.

GRSS Chapter Meeting on Lidar remote sensing - January 23

Date: Wednesday, January 23, 2013

Time: 4-5pm

Place: Carlson Auditorium, Carlson Building (Bldg. 76), Rochester Institute of Technology

Title: Lidar remote sensing of vegetation biophysical parameters at multiple scales: terrestrial, airborne, and space-borne perspectives

Speaker: Dr. Sorin Popescu, Texas A&M University

Abstract: The use of lidar remote sensing for mapping the spatial distribution of vegetation canopy characteristics has the potential to allow an accurate and efficient estimation of tree dimensions and canopy structural properties from local to regional and continental scales. The overall goal of this presentation is to discuss lidar remote sensing of forests at multiple scales when using data collected from terrestrial, airborne, and satellite platforms. The presentation explores data lidar data types and the integration of data from different platforms to improve our understanding of capabilities and limitations of each data type. The presentation discusses algorithms and processing methods in the context of various applications ranging from individual tree measurements, forest biomass estimation, brush biomass estimation for bioenergy use, LAI and canopy cover estimation, multi-temporal lidar data sets and vegetation change detection, and forest fuels and fire risk mapping. In addition, the presentation includes a comparison of biomass estimates and height metrics obtained by processing GLAS waveform data and

spatially coincident discrete-return airborne lidar data over forest conditions in east Texas.

Biography: Dr. Popescu is an Associate Professor of remote sensing in the Department of Ecosystem Science and Management at Texas A&M University. His academic interests focus on the application of remote sensing to environmental studies at multiple scales, including forest inventory, forest fuels and fire risk, and forest biomass and carbon assessment. More specific topics of research concentration include lidar remote sensing and processing algorithms to assess forest biophysical parameters and characterize the 3-D structure of vegetated ecosystems as they respond to environmental change. He has developed algorithms and software tools for lidar data processing at multiple scales by using data acquired from terrestrial, airborne, and space-borne platforms.

Sorin Popescu received his Ph.D. in 2002 from Virginia Tech University in Blacksburg, Virginia, USA. He worked at Virginia Tech for a year as a Postdoctoral Research Associate and in 2003 joined the Department of Ecosystem Science and Management at Texas A&M University as an Assistant Professor. Dr. Popescu received a NASA New Investigator Award in 2008, a departmental award as Graduate Professor of the Year in 2008, and the Talbert Abrams Award, Honorable Mention, offered by the American Society of Photogrammetry and Remote Sensing for authorship of scientific developments in photogrammetry, in 2004.

IEEE Life Members Affinity Group Activities

The IEEE Life Members Affinity group began meeting in September, 2012 with two breakfast meetings where program planning was done for the fall. At the October meeting, two life members presented on volunteer activities that they were engaged in. Dan Hollands gave a slide presentation on the First Robotics program in local high schools, and Carol Richardson had information on IEEE program evaluators that are part of a team that does ABET accreditation for engineering, engineering technology, computer science, and information technology national and international programs at colleges and universities.

The group had a tour of Quality Vision International in November followed by lunch at the Rochester Yacht Club where we could see the dismantling of the old railroad bridge in the Genesee River. Dr. Beth Vanfossen from the Osher Lifelong Learning Institute at RIT (osher.rit.edu) talked to us about “The Science of Climate Change” where she explored the basic scientific principles behind the world’s climate change. Excellent handouts on “Resources on Climate Change” and “Climate Emergency Facts and Required Actions” were assembled and provided to the group by the speaker along with a brochure on the Osher Lifelong Learning Institute.

The group will not have any meetings in the winter and the group will begin meeting again in the spring when we have a table at the Rochester Engineering Society Gala on April 20, 2013. Life members are encouraged to attend other IEEE programs during the

winter months that are advertised monthly in this newsletter and on the Engineers' Calendar found at www.roceng.org.

Rochester Section Scholarship Application Information

The Rochester Section of the Institute of Electrical and Electronics Engineers (IEEE) awards two \$1500 college scholarships annually. The scholarships are awarded through the auspices of the Rochester Engineering Society (RES) to student members of IEEE who meet the following qualifications:

1. Is an undergraduate student in good standing in an engineering, engineering technology, science or technology curriculum in an ABET accredited program.
2. Has completed two years and/or achieved Junior standing (or equivalent) in a program as defined above.
3. Has an overall grade point average of at least 3.0 out of 4.0 (or equivalent).
4. Plans to continue engineering, engineering technology, science or technology studies in an undergraduate ABET accredited program in September following presentation of the award.
5. Is a resident of Monroe, Allegany, Genesee, Livingston, Ontario, Orleans, Steuben, Wayne, or Wyoming Counties of New York or is enrolled in a college in one those counties.
6. Has not been a previous recipient of an RES scholarship.

Applicants for the IEEE scholarships are automatically eligible for other RES scholarships if they do not receive one from IEEE. The RES application for the IEEE scholarship is due January 25, 2013.

Please contact the chair of the IEEE Scholarship committee, Jeanne Christman at jxciee@rit.edu if you have questions.

The application can be found at <http://www.roceng.org>. Enter "scholarship" in the search box.

IEEE-USA e-books worth checking out

IEEE-USA's e-book home page is at: <http://www.ieeeusa.org/communications/ebooks/>. Each month there is a featured *free* book, as well as many other free and low-cost books available.