



IEEE NEWS FOR OCTOBER 2010

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Rochester IEEE home page at: <http://rochester.r1.ieee.org>

(Always check the web PDF edition for late changes and additions)

Rochester Section Meeting - Tuesday, October 5, 2010

The next Rochester Section business meeting is on Tuesday, October 5, 2010 at Noon, at the Shanghai Restaurant, 2920 West Henrietta Road, just south of the intersection with Brighton-Henrietta Town Line Road.

Any IEEE member is welcome to attend and to participate, or just to observe. Lunch is only \$3 for IEEE members. No reservation or RSVP is needed, just show up.

Nominations for 2011 Rochester Section Officers

Based on the recommendations of the section nominating committee, the executive committee approved the following nominations at the September 7 meeting.

Chair:	Alex Loui (Eastman Kodak Co.)
Vice-Chair:	Bill Fowlkes (Eastman Kodak Co.)
Secretary:	John Kerekes (R.I.T.)
Treasurer:	George Sotak (ITT Geospatial Systems)

These represent the elective offices in the Rochester section. Other Executive Committee positions are filled by appointment of the Chair, with the approval of the Excom.

Our bylaws also allow for nominations for section officer positions to be made by petition, which must be received by November 1, 2010. To be valid, nominating petitions must be signed by twelve or more Rochester Section members of member grade or higher. Petitions may be mailed to the IEEE Rochester Section, c/o RES, 150 State Street, Rochester, NY 14614

If no valid petitions are received, the election will be by voice vote at the December 7, 2010 Section meeting. If any valid petitions are received, the election will be by mailed ballot sent to all members in the Rochester Section eligible to vote. A ballot included with the Rochester Engineer mailing fulfills this requirement. Officers begin their terms on January 1, 2011.

Seminar on Upgrading to Senior Membership – Sept. 29, 2010

The Rochester Section is hosting a “Senior Member Seminar” on Wednesday, September 29, 2010. The location is 150 State St, downtown Rochester, NY 14614, Conference Room 301. Time is 6:00-7:30 pm. A light dinner will be provided.

In order to attain the grade of Senior Member, a candidate shall be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields for a total of 10 years and have demonstrated 5 years of significant performance during that time. Some years are credited towards the 10 years of professional experience from time spent earning baccalaureate, masters, and doctorate degrees.

If you meet the eligibility guidelines, then we strongly encourage you to attend this seminar. Besides receiving information on the application process and what counts as significant performance, you will have the opportunity to meet and network with existing Senior Members and Fellows in Rochester Section, which can help you to acquire the required three references that need to be submitted in conjunction with the application.

If planning to attend, please RSVP to our section membership chair, Jean Kendrick at email: JeanKendrick@ieee.org.

Call for Papers – 2010 WNY Image Processing Workshop

The Western New York Image Processing Workshop (WNYIPW) is a venue for promoting image processing research in our area and for facilitating interaction between academic researchers, industry researchers, and students. The workshop comprises a single track of oral presentations. The workshop will take place at the Rochester Institute of Technology on Friday, November 5, 2010 from 8:30 AM to 5:00 PM in the CIMS Building. Please note that this is a change from the previously announced date in September. The paper submission deadlines have also been extended.

Topics include, but are not limited to:

Image and Video Compression

Image and Video Forensics

Image and Video Processing

Image Formation

Image and Color Science

Medical Imaging and Analysis

Imaging applications including consumer devices, security, surveillance, document imaging, art restoration and analysis, and astronomy.

Image Rendering

Printing Applications

Image Retrieval

Computer Vision

Remote Sensing

Archival Imaging

Paper Submission: Prospective authors are invited to submit their paper at <https://cmt2.research.microsoft.com/WNYIPW2010>. To encourage student participation, a best student paper award will be given.

Submission of paper (4 pages): October 1, 2010
Notification of Acceptance: October 15, 2010
Submission of final paper (4 pages): October 26, 2010

Fees are kept to a minimum and are primarily intended to cover the costs associated with holding the workshop. Tentatively, they are:

General Registration: \$45
Student Registration: \$25
IEEE or IS&T Membership: \$25
IEEE or IS&T Student Membership: \$15

The workshop, now in its thirteenth year, is jointly sponsored by the Rochester chapter of the IEEE Signal Processing Society and the Rochester chapter of the Society for Imaging Science and Technology. The workshop is supported by the IEEE SPS, IS&T, the Center for Electronic Imaging and Systems and by a generous gift from Xerox.

IEEE Life Member Affinity Group

All Rochester Section Life Members are invited to participate in a luncheon planning meeting on Tuesday, November 2, 2010 at 1:00 pm, at the Shanghai Restaurant. Lunch will be free for the members attending. This meeting follows the regular monthly Rochester Section Meeting, which runs from 12 noon to 1 pm. Life Members are also welcome, as always, to attend that meeting as well.

At the Life Member meeting we would like to explore suggestions for future activities that are of interest to Life Members, possibly including activities such as: sharing professional experiences; publishing in *The Rochester Engineer*; contributing to and setting up an electronics display at events, such as E3 Fair, to attract young people into engineering, or at a museum; organizing plant visits and trips to regional sites of engineering significance; and anything else.

Life Member Affinity Group Chair Amedeo (Dave) Qualich requests that you call the reservations clerk at the RES, 585-254-2350, to let us know if you will be coming to this Life Member Planning Meeting, and if you will be coming at 12 noon to attend the Section Meeting first, or at 1 pm for the Life Member meeting only.

Technology Management Council on the Move

2009-2010 has seen a re-energized Technology Management Council chapter, Rochester Section, under the drive and energy of volunteers Tom Pian, Mark Schrader, and AD Cropper. Continuing its transition from "Industrial Management Council" the TMC sponsored a more regional and varied approach to Technology Management in the Upstate Region.

We started with a ½ day workshop “Upstarts and Startups: Entrepreneurship Essentials and Rochester Experiences” November 5, 2009. Speakers and panelists from RIT Venture Creations, High Tech Rochester, the Trillium Group, joined those from successful startups (such as Rocera, Liban, Impact-tek, QDT), and independent consultants to share their experiences and insights on entrepreneurship with an audience of over 50 enthusiastic, appreciative -participants. Notable speakers were Jerome Mahone, Venture Creations, James Senall (High Tech Rochester President), Dennis deLeo and Jean Kase (Monroe County Entrepreneurs Network). During the Rick’s Prime Rib dinner session, James Stoffel shared his insights and experiences on innovation and entrepreneurship in the region and nationally. This event has paid off many times over with the participation, contacts and networking that the event organizers and attendees are making use of even today.

This past March 4, 2010, along with Upstate NY Section, Product Development Management Association, the Rochester TMC chapter was proud to bring a talk on Innovation by Prof. Rob Wolcott, Northwestern University at RIT. Rob’s talk “Innovation as a Business Design Challenge” focused on his work and book on *Grow from Within*, highlighting the opportunities our large and medium sized corporation, with excellent infrastructure and available resources, can bring to the innovation world often thought to be the province of small garage type startups. In a well attended (over 40 highly engaged participants) evening talk and a captivating post-talk dinner with conference organizers lasting into the late evening, Rob shared stories, insights and perspectives on corporate innovation, his contacts and initiatives, and emphasized his respect for the innovation history of the Rochester region. This event also fostered additional meetings between Rob and Xerox, RIT Saunders School, and U of R Simon School and Entrepreneurship Program.

At the 2010 Rochester Section Joint Chapters Meeting on March 31, 2010, TMC sponsored a session by Jim Senall of High Tech Rochester, highlighting “Issues around Injecting Technology into the Rochester Region”. It was attended by about 15 members and delivered valuable insights on HTRs work fostering technology innovation in the region.

Please contact Tom Pian t.pian@ieee.org or Paul Lee (paul.lee@itt.com) for further information on the TMC and its value to the Section and to the members.

IEEE at Digital Rochester

On Tuesday evening, October 5th, 2010 Digital Rochester <<http://digitalrochester.com/>> hosts their eighth annual *Get Connected!* networking event. The evening will showcase select organizations in the Greater Rochester area that provide professional networking and service opportunities for their members. The Rochester Section of the IEEE will be participating. More details on this event can be found elsewhere in this issue.

IEEE Rochester EMC-PSE Societies Joint Chapter Meeting

The group will be meeting on Wednesday, November 10, 2010. This is a preliminary announcement; full details will appear in the November issue.

Topic: Major IEC 60601-1 Medical Electrical Equipment, 3rd Edition, changes (Why 90% of medical devices fail)

Speaker: Presented by Michael Brousseau, Engineering Team Leader - Medical, Intertek Testing Services NA, Inc.

Abstract: IEC 60601-1:2005 (third edition) Medical Electrical Equipment - Part 1: General requirements for basic safety and essential performance will replace the second edition (1988) in Canada and the European Union in June 2012. The FDA follows in 2013.

The new IEC 60601-1:2005 standard:

- Introduces the concept of Essential Performance
- Risk Management per ISO 14971 is required
- Risk management File must be submitted with safety type testing
- Covers aids for disabled persons
- Covers equipment for use without "Medical Supervision"
- Changes requirements for electrical isolation for operators
- Introduces Touch Current and Total Patient Leakage Current
- Changes temperature limits for applied parts
- Incorporates the former IEC 60601-1-1 and IEC 60601-1-4 collaterals
- Consists of 17 clauses, 390 pages (edition 2 was 59 clauses, 250 pages)

Speaker Biography: Michael Brousseau is the engineering team leader for the medical team in the Intertek Boxborough lab. He has 15 years of experience in safety compliance and 13 of them have been exclusively medical. He has helped thousands of clients make their way through the pitfalls of meeting the requirements of the standards, from the largest medical manufacturers to start up companies.

Congratulations to our latest Senior Member

Alireza Seyedi was recently elevated to Senior Member. Alireza is a member of the Communications Society, the Control Systems Society, and the Signal Processing Society.