



IEEE Rochester Section

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April 2019 Newsletter

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Message From the Chair

Dear colleagues,

Please read the sections below to learn about our past and present activities. I would also like to make you aware of the Rochester Engineering Society Gala on April 13th. The 56th Engineer of the Year Award, the 12th Kate Gleason Young Engineer of the Year Award, and the 2018 Rochester Engineers of Distinction will be presented. IEEE members may attend this event at half the cost, and these tickets are limited. See vTools event 190993. We are planning our summer event. We hope it to not be limited by rain or wind, as in the past.

Sreeram Dhurjaty

Save the Date – June 14th – Thyristor/SCR Milestone

Put June 14th on your calendar for this important milestone event that will be held in our region. The Thyristor/SCR/TRIAC is a four layer (PNPN), three terminal solid-state device that is critical for power switching in many commercial and industrial devices. The milestone ceremony will be held at the site of the invention, then a General Electric laboratory in Clyde, NY, and now Advanced Atomization Technologies, 124 Columbia Street, Clyde NY (about an hour east of Rochester).

April EXCOM Meeting

Our next EXCOM meeting is on Tuesday, April 9th 14:30 – 15:30. It will be held in the Louise Slaughter Hall (building 78) at RIT prior to the Joint Chapters Meeting. As usual, we will review plans for upcoming Rochester meetings within our section, chapters, and groups. If you are looking to become more engaged in IEEE in the Rochester Section, please plan on attending this meeting. The EXCOM meetings are also great opportunities for networking with fellow engineers. This meeting is open to all IEEE members, and all are welcome.

IEEE Stratus 2019

On February 25-27, 2019, the IEEE Geoscience and Remote Sensing Society (GRSS) sponsored the 3rd workshop on Systems and Technologies for Remote Sensing Applications Through Unmanned Aerial Systems, or simply STRATUS 2019, which was held at RIT. We had 110 participants from 7 countries and 10 states in the US. The committee consisted of representatives from RIT, Cornell, SUNY ESF, UB, and Hobart and William Smith Colleges. Tutorials were given by representatives from Labsphere, Pix4D and Beamio. Sponsors and vendors included Hypspex, Headwall Photonics, Beamio, Harris Corporation, Gapwireless, EagleHawk and GRSS. Prizes (\$200 each) were given for best student paper, presentation, and poster. Our keynotes were Dr. Sally Rockey, Executive Director of the Foundation for Food and Agriculture Research (FFAR) and Dr. Steven Thomson, National Program Leader for USDA, National Institute of Food and Agriculture (NIFA). Talks covered topics such as latest regulations from the FAA, UAS-hardware, algorithms, environmental monitoring, precision agricultural, and applications related to water bodies. The event was marketed in the Rochester Business Journal, RIT University News, RIT Message Center, and an interview with WROC TV Channel 8 (<https://www.rochesterfirst.com/news/local-news/stratus-conference-hosted-at-rit/1810686228>).

IEEE Stratus 2019 (continued)



Front row Bahram Salehi (SUNY ESF) and the student award recipients: Baabak Mamaghani (RIT), Collum Walter (Canada), and Emily Meyers (RIT). Back row: Chris Renschler (UB), Peter Spacher (HWS), Emmett Ientilucci (RIT).

Consumer Electronics Society Distinguished Lecturer

Congratulations to our chair, Dr. Sreeram Dharjuty, for being designated as a 2019-2020 Distinguished Lecturer for the Consumer Electronics Society.

Joint Chapter Meeting – 2019

The The IEEE Rochester Section is having its joint meeting for all IEEE chapters on April 9th, 2019 that is open to the general public. The meeting will feature a keynote presentation and two parallel sessions with technical presentations from different chapters and societies. Don't miss this great opportunity to meet and network with people from all engineering disciplines and to learn more about the activities of the different IEEE chapters and societies in the Rochester area. Reservations are required to attend the dinner and keynote presentation.

Rochester Engineering Symposium

The Engineering Symposium is the largest event for professional development hours in engineering. Our section has organized an outstanding set of talks for the symposium: Dr. Emmett J. Ientilucci – *Remote Sensing and Object Detection using Aerial Spectral Imaging Data*; Dr. Kelly Robinson – *State of the Art Static Control for Flexible Packaging*; Rick Church, PE – *Distributed Generation and Grid Stability*; Christine Frayda, PE – *Engineering Your Job - Lessons from Software Engineering*; Mark Schrader – *Advanced Lighting Systems*; and Ray Ptucha – *What Is And How Will Machine Learning Change Our Lives*. For details, see the RES web page: <http://www.roceng.org/event-3249637>

IEEE Rochester Section Events

For current information and registration links for the events listed above, and additional events, see <http://sites.ieee.org/rochester/>

Event	Vtools #	When	Where
MTT/AP: Inverse Design of Three-Dimensional Nanoantennas for Metasurface Applications	194217	March 22 nd . 12:00 – 13:50	Room: 2580 – Xerox Auditorium Bldg: GLE Rochester Institute of Technology
Young Professionals Social at TRATA	194230	March 27 th . 17:30 – 20:00	TRATA, 145 Culver Road, Rochester
EXCOM Meeting		April 9 th . 14:30 – 15:30	China Buffet, Southtown Plaza
2019 Rochester Section Joint Chapters Meeting	190998	April 9 th . 16:00 – 21:30	Rochester Institute of Technology
2019 Rochester Engineering Symposium		April 23, 2019. 8:30 – 17:00	Joseph A Floreano Rochester Riverside Convention Center
Nominations for ExCom due		On or before May 1 st	Details are in the March newsletter
Thyristor Milestone Ceremony		June 14 th	Advanced Atomization Technologies, Clyde, New York