



IEEE Rochester Section

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November 2020 Newsletter

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Message from the Chair

Dear Colleagues:



October was a busy month for the IEEE Rochester Section and we hope to continue with sustained activity for the remainder of the year. We also received an infusion of new talent with several new volunteers joining the ExCom.

- Jamison Heard, Assistant Professor in the Department of Electrical and Microelectronic Engineering, is the new faculty advisor for the RIT IEEE Student Branch.
- Ming-Lun Lee, Assistant Professor of Electrical & Computer Engineering, is the new faculty advisor for the University of Rochester IEEE Student Branch.
- Alex Byrley is the new Chair of the Rochester Section Signal Processing Society and Eric Zeise is the new Vice-Chair.

Finally, Raymond Ptucha, our former Signal Processing Society Chair, was selected by IEEE Region 1 for the 2020 IEEE Region 1 Outstanding Teaching in an IEEE Area of Interest (University or College) Award. Congratulations Ray, and good luck with your new ventures on the West Coast.

Stay healthy, and best regards,

Save the Date: Virtual Meeting with GreenSpark Solar

Pencil in your calendar for Wednesday, November 11, 2020, from 1-2pm for a virtual meeting with GreenSpark Solar. GreenSpark Solar's Director of Commercial Sales, Doug Weishaar, will be presenting to the Rochester, Syracuse, & Buffalo sections. The content includes an overview of solar energy, career paths in solar field, NYS policy, project structures, and case studies. For more information, visit this site:

<https://greensparksolar.com/event/virtual-presentation-to-rochester-syracuse-buffalo-chapters-of-ieee/>

(Apologies for the small font, but URLs must not be broken across a line)

Introducing Alex Byrley, New Chair of SPS

Dr. Alex Byrley is the new Signal Processing Society chair. He received his Ph.D. in Electrical Engineering from SUNY Buffalo. His research interests lie in radar waveform and software defined receiver design with a focus on Logarithmic Frequency Waveforms. He is currently a Research Scientist at Mastodon Design LLC in Rochester, NY, where he designs signal processing and other algorithms for radar receivers.



Save the Date: Systems Physiology of Ventilation, Electrical Analogs, and Simulations

Pencil in another on-line talk on Wednesday, November 11th from 7:00 – 8:30. Ventilators have become a key tool in helping patients recover from COVID-19. To understand ventilators it is crucial to understand the mechanics of ventilation and its impact on physiology.

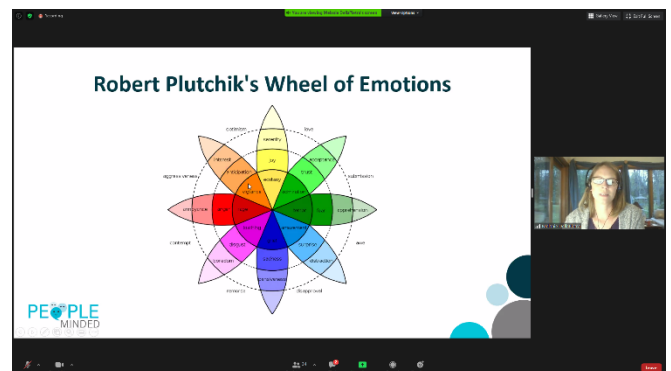
In this talk, Ram Dhurjaty of Dhurjaty Electronics Consulting, LLC, discusses the physiology of ventilation from a systems point of view. It will make use of hydraulic systems, hemodynamic systems, and electrical analogs to elucidate both the ventilation process and some of its consequences on the physiology of organs such as lungs, blood, heart, and kidney.

An electrical circuit simulation will demonstrate parametric sensitivities. This live demonstration will be an LTSPICE™ simulation of both a pressure controlled and a volume-controlled ventilator. The talk will then propose some possible improvements in existing ventilators to minimize lung injuries and the resulting comorbidities. Professional development credit is available. For more information, visit <https://events.vtools.ieee.org/m/241079>.



Report: Negotiating Conflict with Emotional Intelligence

Melanie DellaPietra led about 34 people, at least 4 from IEEE, through the theory and practice of negotiating conflict with emotional intelligence. This was jointly sponsored by IEEE Technology and Engineering Management Society (TEMS) and RocAgile, a meetup that welcomes all Agile practitioners and people interested in Agile.



IEEE Rochester Section Events

Please check the events to ensure they are as scheduled below. Visit events.vtools.ieee.org/m/vtools# for details about any of these events.

Event	Vtools #	When	Where
EXCOM Meeting	242337	November 3 rd , 11:50 – 13:00	Via Webex
Solar Energy Systems (GreenSpark Solar)		November 11 th , 13:00 – 14:00	Via Webex
Systems Physiology of Ventilation, Electrical Analogs, and Simulations	241079	November 11 th , 19:00 – 20:30	Via Webex