IEEE Rochester Section

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August 2023 Newsletter

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Message from the Chair

Dear Colleagues,

Congratulations to the ten professional members inducted into the IEEE Eta Kappa Nu (HKN) Eta Chapter during the joint Region 1 and 2 Board of Governors meeting on June 3. Among this group were three Rochester Section members: William Fowkles, Sreeram Dhurjaty, and Eric Brown. IEEE-HKN membership recognizes individuals who exhibit outstanding scholarship, impeccable character, and a dedication to lifelong learning and service.

The Rochester Section will be increasing the presence of HKN within the section by establishing IEEE-HKN University Chapters at both RIT and U of R, and nominating deserving professional members. IEEE Members interested in HKN professional membership can find more information on the IEEE-HKN website.

There are additional joint Region 1 + 2 events coming up. IEEE Sections Congress will occur August 11-13 in Ottawa, CA. Sections Congress is open to all IEEE members to network, learn and help shape the future of IEEE.

On August 19th, the Rochester, Buffalo, and Pittsburgh Section Young Professionals Affinity Groups will host a joint tailgate for the Buffalo Bills vs. Pittsburgh Steelers pre-season game in Pittsburgh (#366617). Lastly, the IEEE WIE Forum USA East will occur October 26-28 in Pittsburgh, PA. This event focuses on developing and improving leadership skills for individuals at all stages of their careers.

The next Rochester Section ExCom meeting will be on Tuesday, September 5th (vTools #360679) from noon to 1 pm. Please pre-register on vTools for in-person or virtual attendance.

Stay healthy, and best regards,

Eric T. Brown

June 3, 2023, R1 & R2 Board of Governors Photo

Report on The 2023 6th UAV STRATUS Conference

The Geoscience and Remote Sensing Society (GRSS) sponsored the 6th UAV STRATUS conference on May 22nd and 23rd, 2023. The two-day conference, held in the Chester F. Carlson Center for Imaging Science, at RIT, brought together individuals from 12 states and 2 countries. Total attendance was around 90. The conference brought together academics, industry representatives, and domain specialists to share perspectives on this rapidly evolving field of a wide range of topics. The 7th STRATUS Conference will be held in May 2024 at SUNY ESF.

More information can be found at the conference website: Stratus-Conference.com

2023 IEEE Western New York Image and Signal Processing Workshop (WNYISPW)

November 3, 2023, at the RIT CIMS Conference Center (8:00 AM - 5:30 PM)

Brought to you by Orolia. Additional support from L3 Harris, SRC, and Vanteon.

2023 WNYISPW Information Link: https://ewh.ieee.org/r1/rochester/sp/WNYISPW2023.html

For paper, poster, or abstract-only submissions: NYISPW@gmail.com.

The 2023 Western New York Image and Signal Processing Workshop is a premier venue for promoting image and signal processing research in our area and for facilitating interaction between academic researchers, industry professionals, and students. Sponsored by local chapters of IEEE and IS&T, the workshop comprises both oral and poster presentations.

Topics include, but are not limited to:
- Image Processing:
    - Applications of Machine Learning, Deep Learning, LLMs and Generative AI
    - Computer Vision
    - Image Compression and Segmentation
    - Image and Color Science
    - Object Recognition and Detection
    - Medical Imaging
    - Human-Computer Interaction
    - Video Processing and Analysis
- Signal Processing:
    - Radar and Wireless Communications
    - Synthetic Aperture Radar
    - Remote Sensing
    - Electronic Intelligence
    - Waveform Detection and Parameter Estimation
    - Speech and Audio Enhancement and Recognition
    - Applications of Machine Learning, Deep Learning, LLMs and Generative AI

Important Dates - Paper and Poster submission is open

6-October-2023	Abstract (for paper or abstract-only) submission closes.
13-October-2023	Paper submission closes
20-October-2023	Notification of Acceptance
25-October-2022	Submission of camera-ready paper, poster, virtual poster files.
27-October-2022	Early (online) Registration deadline.
3-November-2022	Workshop.

Author resources:

- ▸ Full paper submissions: 4 page previously unpublished paper for oral, poster, or virtual poster presentation (corresponding author fields virtual poster questions). All accepted full papers will be submitted for inclusion in IEEE Xplore as well as other abstracting and indexing databases.
- ▸ Abstract-only, non-archival submissions: Recent work for poster or virtual poster presentation that is not quite ready for publication, or is in review, or was recently accepted. Abstracts will be included in the Workshop proceedings (non-archival) but will not appear in IEEE Xplore.
- ▸ Please use WNYISPW@gmail.com to submit full papers or abstracts for the Workshop.
- ▸ IEEE resources and tools for authors: https://conferences.ieeeauthorcenter.ieee.org/write-your-paper/authoring-tools-and-templates/
- ▸ IEEE manuscript templates: https://www.ieee.org/conferences/publishing/templates.html.

Workshop Cost:
- $50 Non-IEEE member, in-person attendance.
- $15 Non-IEEE member, virtual-only attendance.
- $40 IEEE member, in-person attendance.
- $10 IEEE member, virtual-only attendance.
- $0 Student (with ID), made possible by L3 Harris

Women In Engineering - Leadership Opportunities

IEEE WIE Rochester would like to invite volunteers for the 2023-2024 WIE Executive Team. Open positions include Vice-Chair as well as Newsletter and Website Coordinator. In addition, we are looking for candidates for the 2024 Executive Team for Chair, Secretary, and Social Media Coordinator.

If interested, please reach out to Deyasini Majumdar, 2023 Chair, IEEE WIE Rochester, at deyasini.majumdar@ieee.org.

A Low-Cost Oxygen Concentrator – Engineering A Product For COPD

This is a preliminary announcement for a presentation on ZOOM titled "**A Low-Cost Oxygen Concentrator For COPD - From Concept to Product In a Year**" to be held on Saturday October 7 at Noon.

This talk will be presented by Dr Aparna Dixit, Professor, Pranveer Singh Institute of Technology (PSIT), Kanpur, India.

A full abstract of the talk, Dr. Dixit's full bio, and a registration link will be provided in the September Newsletter. Please contact Mark Schrader at m.schrader@ieee.org with any questions.