IEEE Rochester Section

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June 2025 Newsletter

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(R1-2) Ram Dhurjaty
RES LIASON
Kelly Robinson

Message from the Chair

Dear Colleagues,

Our IEEE Rochester Section Executive Committee meets monthly to organize events. Traditionally, we do not meet in July, but we meet the first Tuesday of every month at noon, otherwise.

Our next meeting will be on Tuesday, August 12th, from 12:00 pm to 1:30 pm at the RIT Carlson Center for Imaging Science, Building 76, Room 3215.

Please join us in August for our lunch and help organize an amazing event! Please feel free to register for in-person or virtual (Zoom) attendance for our ExCom meeting using the following link: https://events.vtools.ieee.org/m/487325.

Our IEEE Rochester Section Summer Picnic is Saturday, August 16, 2025, at the Mendon Ponds Park Devil's Bathtub Shelter. I hope you can join us for our Dinosaur Barbeque catered picnic! Please register to join us using this link: https://events.vtools.ieee.org/m/484797.

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I look forward to working with you!

Regards,

Kelly R.

Kelly Robinson, PE, PhD
Chair, IEEE Rochester Section

IEEE Rochester Section - Young Professionals Event

Announcing: IEEE Young Professionals **Meet and Eat** Event

Our Young Professionals Meet and Eat event will take place on Saturday, September 13, 2025, at the Cavalry House Lodge in Mendon Ponds Park. Look for the registration link in the August Newsletter or a general email to all Young Professional members.

IEEE Rochester Section Summer Picnic

As Kelly mentioned in his Chair Message, our IEEE Rochester Section Summer Picnic will be held on Saturday, August 16, 2025, at the Mendon Ponds Park Devil's Bathtub Shelter.

I hope you can join us for our Dinosaur Barbeque catered picnic!

For more information and to sign up, please use the following link: https://events.vtools.ieee.org/m/484797.

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IEEE FFT Milestone Celebration Report

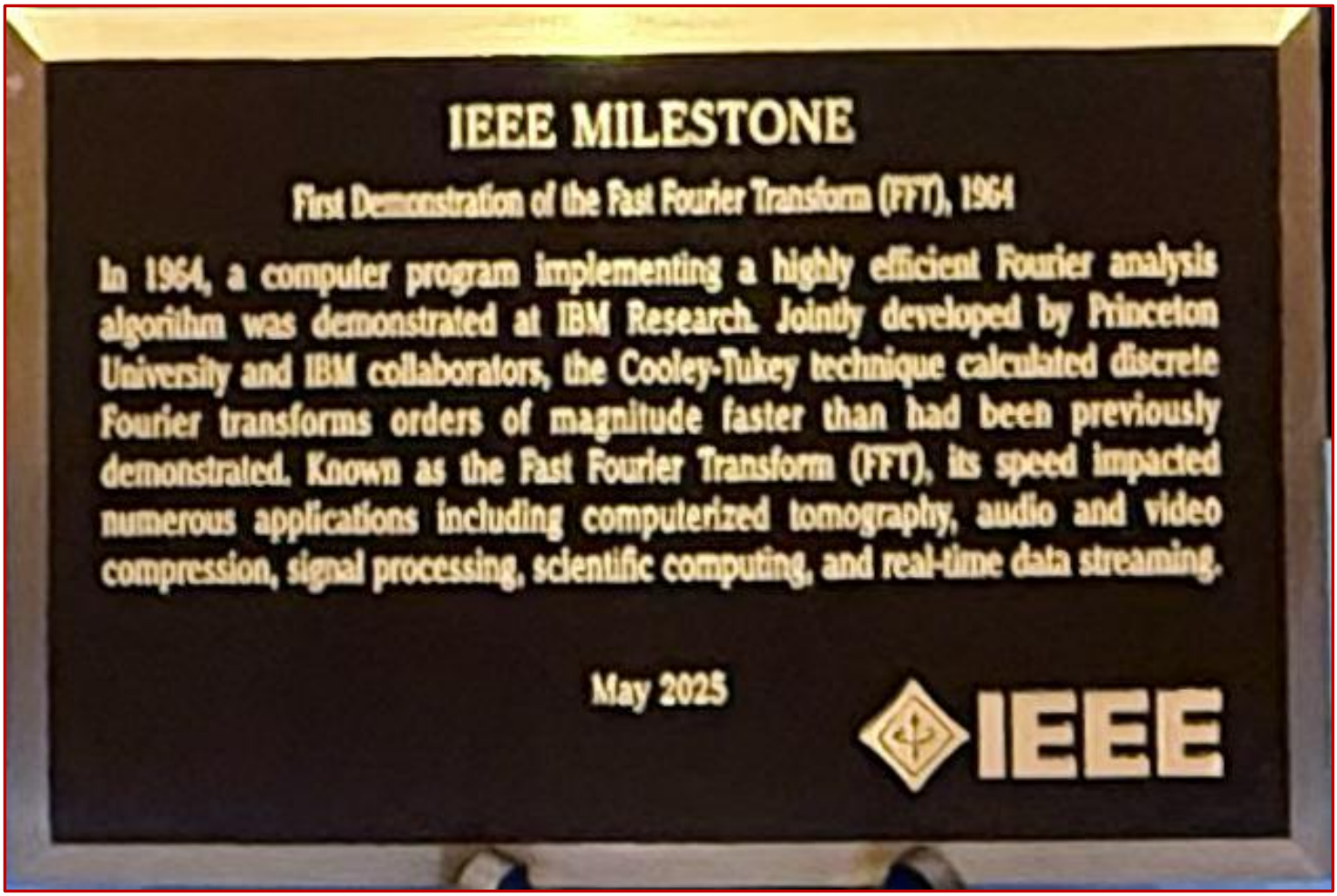
On Thursday, May 22, 2025, Princeton University's Electrical and Computer Engineering (ECE) department hosted an Institute of Electrical and Electronics Engineers (IEEE) "Milestone" Ceremony.

The ceremony honored the invention and implementation of the Fast Fourier Transform (FFT) by inventors Dr. John Tukey, a Princeton professor, and J.W. Cooley of IBM. The FFT was a key advance in signal and information processing, allowing the rapid conversion of digitized waveform signals from the time domain to the frequency domain.

ECE Professor Emeritus Ruby Lee, Dr. Harold Stone of NEC Research Labs, and Dr. James Wynn of IBM have led this commemoration effort. Several historical and technical presentations were given at the event to illustrate the details of the algorithm and to demonstrate where the invention fits within the development of advanced signal processing techniques.

Several Rochester Section members attended the event, including Ram Dhurjaty, a Region 1-2 Historian, and Howard Bussey, a longtime contributor to the Rochester Section.

The plaque associated with this milestone will be on permanent display. Photos of the plaque and the milestone event are included here.


IEEE MILESTONE
First Demonstration of the Fast Fourier Transform (FFT), 1964
In 1964, a computer program implementing a highly efficient Fourier analysis algorithm was demonstrated at IBM Research. Jointly developed by Princeton University and IBM collaborators, the Cooley-Tukey technique calculated discrete Fourier transforms orders of magnitude faster than had been previously demonstrated. Known as the Fast Fourier Transform (FFT), its speed impacted numerous applications including computerized tomography, audio and video compression, signal processing, scientific computing, and real-time data streaming.
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Overview
"... in many signal processing contexts, the required processing can often afford to be approximate, in the spirit that good enough is good enough"
- Al Oppenheim
Back to the Future
By AL OPPENHEIM
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