



IEEE Rochester Section

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March Newsletter, 2016

<http://rochester.ieee.org>

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Message from the Chair

One of the most rewarding aspects of being Chair of the Rochester Section of IEEE has been the network of talented individuals I have met. I have had the pleasure of nominating several remarkable individuals who have either received or were the runner-up for the RES Engineer of the Year Award including: Kevin Parker, Lalit Mestha, and Jay Kunzler. It is my greatest pleasure to congratulate **Rob Clark** and **Matt Sidley** as the 2015 RES EOY and YEOY recipients – *both nominated by the Rochester IEEE Section!* Don't miss your opportunity to celebrate with us at the Annual RES Gala on April 16th! If you are an IEEE member you can sit at our table at half the cost. This is a limited opportunity – first come, first serve.

We are also having our Annual Joint Chapters Meeting on Tuesday, April 19th. I am absolutely thrilled to have Barry Silverstein, the Senior Director of Hardware R&D at IMAX Corporation, as our keynote speaker. Barry worked at Kodak in projection technologies since 1999 and it was his team that developed the first Cinema quality Laser projector. This is a presentation you will not want to miss. In addition, we will have several technical presentations hosted by our IEEE Rochester Chapters. Please save the date and don't miss one of our premier events of the year! I hope to meet you there!

- Greg Gdowski, Chair



2016 Rochester Section Joint Chapters Meeting

April 19, 2016

RIT Inn & Conference Center, 5257 W. Henrietta Rd.

Keynote Speaker: Mr. Barry Silverstein

Dinner reservations required by March 19

Online at <https://meeting.vtools.ieee.org/m/38320>

Cost: IEEE members: \$30 Non-member: \$40

Student members: \$15 Students: \$20

Dinner selections:

New York Strip Steak 10oz. with caramelized onions & cabernet butter	Seared Salmon Prosecco cream sauce	Spicy Orecchiette Pasta with mix vegetables in arrabbiata sauce
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Mr. Barry Silverstein

Barry Silverstein is a graduate of Institute of Optics at the University of Rochester and was employed by Eastman Kodak Company for 28 years. During this tenure at Kodak Barry developed and commercialized optical-mechanical-electrical systems for technologies as diverse as Compact Disk recording, commercial space based telescopes, film projection illumination systems, laser printing of printing plates, laser printing of graphic arts proofers and digital projection technologies. Barry was the primary inventor, system developer, and manager for Kodak's Laser Projection Technology which was the world's first Digital Cinema quality laser projector demonstrated to the Hollywood

community. Barry is credited with 59 US patents and 9 industry publications. Barry is now the Senior Director of Hardware at IMAX leading the development of IMAX's laser projection head.

Topic: The IMAX Laser Projection System: From 0 to Insane in Under 2 Years

Out of the ashes of Kodak's Entertainment Imaging business was born the world's first cinema-quality laser projection prototype. Learn about the creation of the newly formed IMAX business unit, IMAX Rochester. Follow the technical journey (adventure) of taking a prototype 10,000 lumen, 2k resolution laser projector and turbo charging it to deliver six times the brightness in order to light screens that are more than 100 feet wide at 4k resolution. The projection system born out of this effort is currently delivering stunning images at IMAX's most iconic locations around the globe.... a mere two years later. The revolutionary optical-mechanical system is unlike anything ever built for a projector and was designed in Rochester. It is currently in production in Canada by a simultaneously created custom assembly line. IMAX, in conjunction with local suppliers, managed to deliver this system on time while working across three countries and two continents. The performance of this system has exceeded expectations and is receiving accolades from the industries experts.

2015 IEEE Spark Innovation through Animation Competition Results

CONGRATULATIONS to our winners and to all who challenged themselves to develop a creative animation in this year's competition!



Judge's Choice Winner: **Madeline Loui & Alicia Loui**

Animation title: **The Future of Fitness.**

Nominated by IEEE Member: **Alexander Loui.**

Animation description: We were inspired by the growing awareness of fitness and healthy living, which we combined with technology to create a personalized smart gym. This idea can be made a reality through the use of smart technologies, like intelligent health monitoring, machine learning algorithms, as well as advanced computer vision and pattern recognition technology.

For more information about the competition, visit:

<http://spark.ieee.org/2015-ieee-spark-innovation-through-animation-competition-results/>