

Æthereal Waves Make History

*The four scientists who saved James Clerk
Maxwell's theories*

Thursday April 5 • 6-8pm
Stolkin Auditorium, Physics Building
Syracuse University

Parking for this event is free in Booth Garage. You must say
that you are parking for a CASE event for free parking.

Social hour from 6-7pm, lecture from 7-8pm.
Light refreshments will be served.

Join IEEE and Syracuse University for the electrifying tale of how four scientists turned the findings of James Clerk Maxwell into the foundation of electromagnetic theory. Maxwell first published what came to be called "Maxwell's equations" in 1865. However, it was not until 1888, and Heinrich Hertz's experimental validation that Maxwell's equations were widely accepted as correct. The story of the intervening 23 years is little known. Maxwell, who died in 1879, was exceptionally modest and did not promote his own results at any time. The survival of Maxwell's equations was up to the only three researchers in the entire world who paid serious attention to Maxwell's paper in 1865, and his seminal Treatise in 1873: Oliver Heaviside, Oliver Lodge, and George Francis FitzGerald. Later, Hertz joined the group forming "The Four Maxwellians". This presentation will describe the torturous 23 year path Maxwell's equations took from their creation to their initial acceptance.

ABOUT THE AUTHOR James C. Rautio (S'77-M'78-SM'91-F'00) received his B.S.E.E. degree from Cornell University in 1978, his M.S. from the University of Pennsylvania, Philadelphia, in 1982, and his Ph.D. degree in electrical engineering from Syracuse University in 1986. Dr. Rautio, an IEEE Distinguished Lecturer ('05-'07), is the founder and CEO of Sonnet Software, one of the world's leading high frequency electromagnetic analysis software packages. Sonnet Software has been recognized as one of the fastest growing privately held companies in the US, and remains a leader in the Microwave and RF industry.



For more information, please contact Michael Enders at mdenders@syr.edu.

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