



**SEMINAR:**

# **RF ENERGY HARVESTING**

**Hakan P. Partal, Ph.D.**

**Wednesday, August 6, 2014, 5:15PM**

**4-201 CST (Center for Science and Technology), Department of EECS  
Syracuse University**

RF/Wireless energy harvesting is a developing technology that can potentially be used to reduce or eliminate the dependency most low power wireless devices, sensors, and integrated circuits have on wired or non-autonomous power sources. By combining a correct antenna, matching circuit, rectifying circuit and energy storage device, wirelessly transferred energy from a dedicated source along with the readily available ambient RF energy (such as WiFi) can be used to power a low power device, partially or entirely. Some applications can be listed as semi-active RFID tags, wireless sensors, and wireless communication modules.

**HAKAN P. PARTAL** received his Ph.D. degree from Syracuse University, Syracuse, NY in Electrical Engineering, in 2005. He worked as a RF/Microwave Design Engineer from 2001 to 2011, with Herley Industries in Boston, MA, Elcom Technologies in Rockleigh, NJ, and Anaren Microwave in Syracuse, NY. Currently, he is an Assistant Professor with Yildiz Technical University in Istanbul, and an Adjunct Faculty of Electrical Engineering with Syracuse University. He is co-founder of a spin-off R&D company, RADARCOMM, LLC, focusing on Smart RF and Energy Solutions. He is currently running R&D projects in RF/Microwaves and, teaching and researching Electromagnetics and Microwaves. He has co-authored over 30 international journal and conference papers. He is a Senior IEEE member and, past Chair and current Vice Chair for the MTT/AP/EMC Chapter of the IEEE Syracuse Section.

- Free admission
- Free parking after 5:00PM on campus (Q4 parking lot)
- Refreshments will be served



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