

Abstract Submitted  
for the GEC13 Meeting of  
The American Physical Society

**RF discharge phenomena in miniaturized RF MEMS cavity-based filters** DIMITRIOS PEROULIS, Purdue University — Reconfigurable filters are critical devices for the coming generation of high-frequency electronics. Several competing requirements including miniaturization, performance, frequency-agility and power handling need to be carefully considering in designing successful filters particularly for mobile-form-factor electronics. This talk will discuss the latest findings in state-of-the-art tunable cavity-based RF MEMS filters as relate to the aforementioned factors. Special attention will be paid on the role that RF gas discharge phenomena play in the performance and lifetime of these devices.

Dimitrios Peroulis  
Purdue University

Date submitted: 21 Jun 2013

Electronic form version 1.4