Moderator: Newman, Ebel Focus:

Panel: RF MEMS Reliability:Overcoming Technological Barriers for Real System Insertion

						Paper
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Breakout

The RF-MEMS switch holds the promise of wide utility for applications which require low insertion loss, high linearity, moderate switching speeds, and low to moderate power. As a surface-micromachined device, the RF-MEMS switch also holds the promise of low-cost integration on a variety of substrates, including substrates bearing active semiconductor devices. However, the presence of suspended beams and membranes and the actuation of these beams and membranes across a gap adds a different dimension to the reliability of these devices than that present in traditional semiconductor devices. The limitation in lifetime due to these structures currently inhibits the insertion of these devices into systems. This panel session will feature invited speakers and panelists from

insertion of these devices into systems. This panel session will feature invited speakers and panelists from government laboratories and leading RF MEMS manufacturers who will discuss the reliability of RF-MEMS switches in either of its two common forms (contact switch and capacitive switch) and explore the pathways to real system insertion.