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**TITLE:** Semiconductor Innovation: Enabling Mobile Connectivity

Advancements in semiconductor technology over the last four decades have taken us from brick-sized cellular phones to palm-sized mobile devices that do much more than just make a phone call. Compound semiconductor technology has played an enormous role in this evolution, particularly in the radio section of the handset, where the focus has been on space- and power-saving advances that have driven critical improvements in signal quality and talk time, while opening board space for circuitry that delivers additional functionality including Web browsing, music downloads, navigation, camera capability, games, payments, and even digital door keys and identity credentials. Even as the RF section is shrinking to make room for IC content that performs these functions, RF content is growing at a faster rate than shipments of the units themselves. At the same time, there are also a growing number of opportunities to embed wireless functionality into other non-handset platforms such as smart energy devices, medical equipment, infrastructure platforms, military and automotive systems, to name just a few. This presentation will look at advances in RF amplifier, module, and subsystem technology, in addition to design and manufacturing advances, which are fueling new opportunities and propelling wireless innovation beyond the handset.