

## Talk Title: ZOIDS: The Future of Personal Technology

**Speaker:** Joe Dvorak

**Affiliation:** [Research in Motion](#)

**Venue:** Computer Science Building 209

**Time:** March 19<sup>th</sup>, 2009 Thursday, 12:30 to 1:30pm

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### **Abstract:**

As computing and communications technology pervades everything around us, this technology will have to become transparent to be accepted by the mainstream population. This transparency requires a new mindset and approach to the design of wearable devices and systems.

This talk gives an overview of usability and design issues for transparent use devices and proposes design principles to address them. These principles are based on a design paradigm called Operational Inertia. The talk discusses how to design Zero Operational Inertia Devices/Systems (ZOIDS) and why such devices are necessary if wearable systems are to be accepted by the mainstream population. While the talk focuses primarily on wearable systems and pervasive computing environments, the design principles are applicable to a wide range of applications and devices. Examples of the application of the principles are given.

### **Bio:**

Joe Dvorak is currently a manager of innovation at Research in Motion where he studies technology trends and helps RIM to innovate around those trends. Joe has over 10 years experience in wearable technology and design. He was the lead technologist for wearables for Motorola iDEN and Principal Investigator for Conformable, highly wearable devices and systems. He also led the development of the principles governing wearable's design and has several awarded patents in the area of wearables. From 2005 - 2007 Joe was the Motorola Scientist in Residence at the MIT Media Lab. He has also been an Adjunct Professor at Florida Atlantic University where he taught courses in wearable technology and systems. Joe is the author of the book "Moving Wearable's into the Mainstream", published by Springer. Before joining RIM, Joe was the Technology Futurist for Motorola in the Corporate Technology Office. He has a PhD in Computer Science from the University of Illinois at Chicago.