

4th International Conference on **Nanotek & Expo**

December 01-03, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

Working with large nanosensor arrays outside of academia

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Nanoelectronic sensing is an established and well-mined academic subject. Transitioning nanoelectronic sensors from an academic setting to a commercial setting requires more than simply achieving wafer scale production or completing a few bench top tests. Commercialization of nanotechnology requires an honest look at our real value, real costs, and actual yields. In recent years, the creation of stable nanomaterial inks, reliable clean room fabrication methods and a large array of functionalizing material have made commercial production of nanoelectronic sensors a very real possibility. There are still several major hurdles to commercialization, involving subjects not traditionally seen as publishable. We detail results in constructing sensors for industrial and medical applications.

Biography

Brett Goldsmith has completed his PhD from University of California, Irvine and Postdoctoral studies from University of Pennsylvania. He founded the Functional Nano Device group at the SSC Pacific laboratory and has worked as a Senior Scientist in several nanotechnology companies. He is currently the Chief Technology Officer of Nanomedical Diagnostics. He has published more than 16 peer-reviewed papers, including landmark work in nanoelectronic sensing and nano-bio integration.

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