Dr. Bruce Hinds
University of Washington

http://depts.washington.edu/hindslab/

Professor Hinds has a unique background in Chemistry and electronic device processing. Bachelor studies were in general Chemistry at Harvey Mudd College in California. His Ph.D. work was on the growth of high temperature superconductors at Northwestern University with Prof. Tobin Marks. In addition to experience with materials growth and characterization, the thesis project included inorganic compound synthesis of CVD precursors. Upon completion of the degree, he went on to post-doc with Gerry Lucovsky at NC State to learn about semiconductor processing and interface states in the Si/SiO2 system. After 2 years, he then had an exciting opportunity to learn about nano-scale fabrication at the Tokyo Institute of Technology with Prof. Shunri Oda. This research effort was based on memory devices that stored a single electron in a nano-crystal of silicon. He then joined the faculty of the University of Kentucky to start a research program to bring electronics fabrication to the molecular level. While developing novel technologies for nano-lithography, a new method to form carbon nanotube membranes was made. Applications of this system include drug delivery, energy storage, chemical separations and water purification. After 13 yrs of service at UKy, Hinds moved to UW MSE to bring membrane research to a new level through collaborations and infra-structure.

2014-present Campbell Prof. of Mater. Engr., Univ. Wash
2001-20013 Bryan Prof. Chem. & Mater. Engr, Univ. of KY
1998-2001 JSPS fellow, Tokyo Inst. Tech, physical electronics
1996-1998 Post-doc NCSU Dept Physics
1996 PhD Northwestern Univ, Inorg Chem.
1991 BS Harvey Mudd College Chemistry
~70 papers, 3000 cites, PECASE (NIH), Kavli Frontiers Fellow, GRC chair on Membrane Processes