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Dr. Paul E. Burrows

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Dr. Burrows is a Laboratory Fellow at Pacific Northwest National Laboratory (PNNL) in the Energy Science and Technology Division. Dr. Burrows managed the Nanoscience and Nanotechnology Initiative, which was one of a handful of transforming initiatives at PNNL, from 2001 - 2005. He is currently leading projects in the area of organic and hybrid thin film deposition, particularly organic electroluminescent display engineering, solid state lighting, hybrid organic-inorganic semiconductor integration and three dimensional electronic devices using organic materials. He has authored over 100 publications and holds 72 issued U.S. patents and over 45 international patents, mostly concerning organic semiconductors, devices and fabrication methods.

Dr. Burrows received his B.Sc. in physics with First Class Honors from the University of London in 1986 and his PhD, entitled “Electron Transport in Langmuir-Blodgett Films” in 1989. Prior to his employment at Battelle – PNNL, Dr. Burrows was a Research Scholar at Princeton University in the Department of Electrical Engineering. He has also held positions at the University of Southern California and the Riken Institute in Saitama, Japan. His work has been instrumental in the creation of two new companies; Universal Display Corporation which is developing a portfolio of intellectual property based on work performed at the Princeton University laboratories and Vitex Systems, a company spun off from Battelle to develop flexible encapsulation technology for organic light emitting displays.

In 2006, Dr. Burrows co-chaired a workshop sponsored by the Department of Energy’s Office of Science, entitled “Basic Research Challenges in Solid State Lighting.” He also lectures both nationally and internationally on the subjects of nanotechnology, organic molecular electronics and solid state lighting.