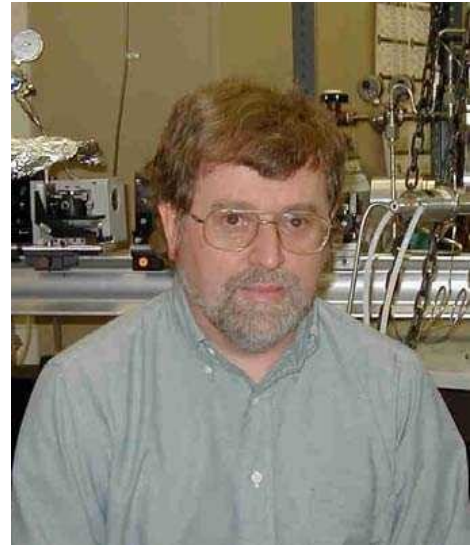


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Professor Robert Collins' career spans 28 years of research and development in the thin film semiconductor, photovoltaics, and optics fields. He received M.S. and Ph.D. degrees in Applied Physics from Harvard University in 1979 and 1982, respectively. In 1982, he joined Standard Oil/BP America in Cleveland, Ohio, as an R&D physicist, directing a project devoted to the growth of thin film silicon solar cells and monitoring by ellipsometry in real time.

Professor Collins joined The Pennsylvania State University as an Associate Professor of Physics and Materials Research in 1988; was granted a Presidential Young Investigator Award from the National Science Foundation in 1989; and was promoted to Professor in 1992. In 1996-1998, he was co-organizer and proceedings editor for the Second International Conference on Spectroscopic Ellipsometry held in Charleston SC, USA. In 2004, he joined The University of Toledo as Professor of Physics and NEG Endowed Chair in Silicate and Materials Science where his primary research will involve real time optics of photovoltaic thin film growth and processing. Overall, Professor Collins has published more than 280 scientific papers and edited or co-edited six books on semiconductor thin films and the optical analysis of thin films. His research efforts have been funded by the National Science Foundation, the Department of Energy's National Renewable Energy Laboratory, the New Energy and Industrial Technology Development Organization (NEDO), and by a number of U.S. companies.