**C. V. for Professor Christopher B. Murray**

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| **Employment/Appointments:** | |
| **2007-** | University of Pennsylvania: Richard Perry University Professor of Chemistry and Materials Science and Engineering |
| **2000-2006** | Manager of the Nanoscale materials and devices department leading development of nanomaterials and exploring self-organizing phenomena for applications in IT. |
| **1995-2000** | Member of research staff, IBM Corp., T. J. Watson Research Center. Established a program in the preparation and characterization of nanomaterials and devices |
| **Education:** | |
| **1990-1995** | Ph.D. Physical Chemistry, Massachusetts Institute of Technology, Cambridge, MA |
| **1989** | Rotary International Fellow, University of Auckland, New Zealand |
| **1985-1988** | B.Sc. Honors Chemistry, Summa cum Laude, St. Mary's University, Halifax N.S., Canada. |
| **Awards and Distinctions:** | |
| **2004** | Debye Chair Professor, University of Utrecht, Utrecht the Netherlands |
| **2004** | R.B. Woodward Fellow, Harvard University, March 11&12, 2004 |
| **2003** | IBM Outstanding Technical Achievement Award, 2003 |
| **2002** | Spring 2002 Distinguished Lecturer in Materials Science, Univ. of Maryland 03/22/ 2002 |
| **2002** | Goodyear Lecturer in “The Frontiers of Chemistry” at Case Western Reserve University |
| **2002** | Selected as IBM Master Inventor |
| **2001** | Top 10% Patent Award for value to IBM Corporation in 2001 |
| **2001** | IBM outstanding technical achievement award |
| **2000** | IBM Team Award for development of the IBM Materials Research community |
| **1999** | TR100: selected as one of Technology Reviews Top 100 young innovators Nov 4, 1999 |
| **1997** | ACS Noble Laureate Signature Award for Graduate Research in Chemistry |
| **1995** | NSERC Canada Postdoctoral Fellowship (declined) |
| **1995** | Elected as a Member of Sigma Xi |
| **1990-1994** | NSERC Canada "1967 Centennial Science Scholarship" |
| **1989** | Saint Mary's University Gold Medal in Sciences |
| **1989** | Rotary International Fellowship, University of Auckland, Auckland, NZ |
| **1985-1988** | Saint Mary's University Presidential Scholarship |
| **1986** | Hinman Memorial Award in Chemistry |
| **Research Topics:** | |
| **2002-2006** | Lead studies of multi-component nanoscale assembly and doping nanocrystal solids. I managed IBM’s effort to integrate carbon nanotube electronics and program focused on the use self-assembly for nanofabrication. |
| **2002-2004** | Bio-directed assembly of magnetic nanostructures |
| **2000-2005** | Synthesis of IR active quantum dots and quantum wires |
| **2000-2003** | Granular giant magneto-resistance in nanoparticle arrays |
| **1995-2002** | Synthesis of Nanostructured magnetic materials, IBM Corporation, |
| **1990-1995** | Physical/Inorganic chemistry of semiconductor nanocrystals, with Professor Moungi Bawendi, Massachusetts Institute of Technology |
| **1987-1988** | Development of surfactant based additives for the reduction of hydraulic drag in turbulent flows, with Professor John Young, Saint Mary's University |
| **1986 (summer)** | Design and construction of salt hydrate units for energy storage in solar thermal applications with Professor John Young, Saint Mary's University |
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