

INDUSTRIAL EXPERIENCE

1999-2001

Genzyme Corp.

Framingham, MA

Summer Internships

Chris Willis, supervisor

- assisted in drug release studies
- experience with HPLC, GC, TGA, UV-vis

PRESENTATIONS

R. E. Anderson and W. C. W. Chan, Systematic Investigation of preparing biocompatible, single, and small ZnS-capped CdSe quantum dots with amphiphilic polymers, Abstracts of Papers, 235th ACS National Meeting, New Orleans, LA April 6 – 10, 2008

R. E. Anderson and A. R. Barron, Transition metal epoxidation and cage-opening of fullerenes, Abstracts of Papers, 231th ACS National Meeting, Atlanta, GA March 26-30, 2006

R. E. Anderson and A. R. Barron, Self-remediation of hydroxyfullerene with metal salts, Abstracts 60th Southwest Regional Meeting of the American Chemical Society, Fort Worth, TX September 29-October 4, 2004

R. E. Anderson and A. R. Barron, Transition metal epoxidation of fullerenes, Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA August 22-26, 2004

R. E. Anderson and A. R. Barron, Effect of additives in calcium carbonate crystallization, Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA March 23-27, 2003

PUBLICATIONS

T. Hauck, R. E. Anderson, H. C. Fischer, S. Newbigging, W. C. W. Chan, In vivo quantum dot toxicity assessment, in preparation.

R. E. Anderson and Warren C. W. Chan, Systematic Investigation of preparing biocompatible, single, and small ZnS-capped CdSe quantum dots with amphiphilic polymers, ACS Nano, 2008, 2(7), 1341 – 1352.

D. Ogrin, R. E. Anderson, R. Colorado, Jr., B. Maruyama, M. J. Pender, V. C. Moore, S. T. Pheasant, L. McJilton, H. K. Schmidt, R. H. Hauge, W. E. Billups, J. M. Tour, R. E. Smalley, and A. R. Barron, Amplification of single walled carbon nanotubes from designed seeds: separation of nucleation and growth, J. Phys. Chem. C., 2007, 111(48), 17804-17806.

R. E. Anderson and A. R. Barron, Solubilization of single-wall carbon nanotubes in organic solvents without sidewall functionalization., J. Nanosci. Nanotechnol., 2007, 7, 3436–3440.

R. E. Anderson and A. R. Barron, Effect of carbon nanomaterials on calcium carbonate crystallization, Main Group Chemistry, 2006, 4, 279 – 289.

(publications cont.)

R. E. Anderson, R. Colorado, Jr., C. Crouse, D. Ogrin, B. Maruyama, M. J. Pender, C. L. Edwards, E. Whitsitt, V. C. Moore, D. Koveal, C. Lupu, M. P. Stewart, Richard E. Smalley, James M. Tour, Andrew R. Barron, A study of the formation, purification and application as a SWNT growth catalyst of the nanocluster [HxPMo12O40H4Mo72Fe30(O2CMe)15O254(H2O)98], Dalton Trans., 2006, 3097 – 3107.

R. E. Anderson and A. R. Barron, Reaction of hydroxyfullerene with metal salts: a route to remediation and immobilization. J. Am. Chem. Soc., 2005, 127, 10458.

R. E. Smalley, R. H. Hauge, A. R. Barron, J. M. Tour, H. K. Schmidt, W. E. Billups, C. A. Dyke, V. C. Moore, E. Whitsitt, R. Anderson, R. Colorado, Jr., M. Stewart, and D. C. Ogrin, Amplification of carbon nanotubes via seeded-growth methods, U.S. Patent WO2005085132.

A. R. Barron, D. J. Flood, E. A. Whitsitt, R. E. Anderson, and G. B. I. Scott, Method for creating a functional interface between a nanoparticle, nanotube, or nanowire, and a biological molecule or system, Patent EP1563545, WO2005000735.

AFFILIATIONS

- Member, American Chemical Society, 2002-present
- Vice-President, Rice University Chemistry Graduate Student Association, 2003-2005
- Member, Center for Biological and Environmental Nanotechnology, Rice University
- Member, Rice Alliance for Technology and Entrepreneurship, Rice University

REFERENCES

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