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|  | Dell T Rosa, Ph.D. | |  |
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| 4735 Colby Road, Winchester, Kentucky 40391, USA | | |  |
| Home: (859) 745-1840 (weekends and evenings) | | | dellrosa@att.net |
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| Seeking a challenging assignment in applied chemical development, or fundamental research. | | | |
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|  | Education | |  |
|  |  | |  |
| Ph.D. (Inorganic Chemistry), 1998; University of Michigan, Ann Arbor, MI. | | | |
| Master of Science (Chemistry), 1994; University of Michigan, Ann Arbor, MI. | | | |
| Bachelor of Science (Chemistry), 1992, cum laude, Mich. Tech. University, Houghton, MI. | | | |
|  |  | |  |
|  | Employment | |  |
|  |  | |  |
| Lexmark International Inc., Lexington, KY | | Jan. 2001 – Present | |
| **Senior Research Engineer**  Team leader for the Photoconductor Drum materials analysis team. Responsible for managing incoming projects from the engineering groups for chemical or physical analysis. This entails ensuring the right tests are completed and results are returned to the engineer and also the supervision of a team of chemical scientists and technicians.  Previously the team leader for the Ink Jet materials compatibility team. Responsible for developing and conducting testing to ensure the chemical compatibility of a range of materials and ink over time. Testing included accelerated aging studies, diffusion studies, adhesion studies, chemical contamination, failure analysis, and corrosion studies.  Also participate in numerous cross-functional teams to address manufacturing or product issues which arose. Served as a technical expert on the material composition and compatibility of components.  Earned numerous company awards including many “Management Appreciation Awards,” seven “Make it Happen” awards and one “Vision Excellence” award. | | | |
|  |  | |  |
|  | Research Fellowships | |  |
|  |  | |  |
| University of Cincinnati, Cincinnati, OH,  Post-Doctoral Research Assistant, Sept. 1999 – Dec. 2000.  University of Michigan, Ann Arbor, MI,  Post-Doctoral Research Fellow, Aug. 1998-99, | | | |
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|  | Prior Employment | |  |
|  |  | |  |
| Monsanto (Now Solutia) St. Louis, MO, | | College Summer Intern, 1992 | |
| Dow Corning Corporation, Midland, MI, | | College Intern, Summers 1988 - 91 | |
|  | | High School Co-op 1986/87 | |
| Michigan Technological University Learning Center, Houghton, MI, Department of Chemistry, | | | |
|  | | Chemistry Tutor / Mentor, 1989 - 92 | |
|  |  | |  |
|  | Patents | |  |
|  |  | |  |
| US Application:   20110015979 | Methods and Systems for Awarding Discounts for Experiencing Advertising | | |
| US 7,540,584   Issued June 2, 2009 | Orifice plate protection device | | |
| US 8,083,321   Issued December 27, 2011 | Removable radiation cured composition and process for protecting a micro-fluid ejection head | | |
| US 7,919,433   Issued April 5, 2011 | Chromogenic media responsive to environmental conditions | | |
| US 7,600,853   Issued October 13, 2009 | Liquid applied seal for inkjet orifices | | |
| US 7,461,930   Issued December 9, 2008 | Seal for inkjet orifices | | |
| US 7,431,442   Issued October 7, 2008 | Sealing for inkjet orifices | | |
| US 7,156,514   Issued January 2, 2007 | Inks and print heads with internal clog prevention | | |
| US 6,111,123   Issued August 29, 2000 | Salicylaldimine-Crown Ether Ditopic Receptor Molecules | | |
|  |  | |  |
|  | Honors | |  |
|  |  | |  |
| Kasimir Fajans Dissertation Award | | | 1998-1999 |
| MTU Undergraduate Analytical Chemist of the Year | | | 1991 |
| Who's who among American High School Students | | | 1986 - 1987 |
| Dow Chemical USA Distinguished Student Science Award | | | 1983 |
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|  | Publications |  |
|  |  |  |
| M.J. Goldcamp, S.E. Edison, L.N. Squires, D.T. Rosa, N.K. Vowels, N.L. Coker, J.A. Krause-Bauer, M.J. Baldwin, “Structural and Spectroscopic Studies of Nickel(II) Complexes with a Library of Bis(oxime)amine-Containing Ligands.” Inorganic Chemistry, 2003, 42, 717-728. | | |
| D.T. Rosa, J.A. Krause Bauer, M.J. Baldwin, “Structural and spectroscopic studies of the versatile coordination chemistry of the chiral ligand N,N-bis(1-propan-2-onyl oxime)L-methionine N’-methylamide with NiII and ZnII.” Inorganic Chemistry, 2001, 40, 1606-1613. | | |
| J.D. Pike, D.T. Rosa, D. Coucouvanis, “Lipophilic Metal-Salicylideneimine-Crown Ether Hybirds: Ditopic Carriers in the Facilitated Transport of Amphiphilic Molecules Across Bulk Liquid Membranes.” European Journal of Inorganic Chemistry, 2001, 761-777. | | |
| D.T. Rosa, R.A. Reynolds III, S.M. Malinak, D. Coucouvanis, “4,5-Diaminocatechol: A Useful Building-Block in the Synthesis of Multimetallic Complexes.” Wiley: Inorganic Syntheses, Vol 33, Ed. Dimitri Coucouvanis, 2002. | | |
| D.T. Rosa, V. Young, D. Coucouvanis, “Crown-Ether Functionalized Mn(III) Salicylaldimine Complexes as Ditopic Carriers. Efficient Transport of Tryptophan Across a CHCl3 Barrier.” Inorganic Chemistry, 1998, 37, 5042-5043. | | |
| D.T. Rosa and D. Coucouvanis, “Crown-Ether-Functionalized Nickel Salicylideneimine Complexes. Structural Characterization of Their Potassium, Cesium, and Hexylammonium Derivatives and Their Use in the Transport of Amino Acids.” Inorganic Chemistry, 1998, 37, 2328-2329. | | |
| S.M. Malinak, D.T. Rosa and D. Coucouvanis, “A New Class of Complexes Containing Cofacially-Oriented, Planar Metal-Containing Subunits. The Synthesis, Characterization and Reactivity of [(MoO2)2(-O)]2+-Linked, Catechol-Functionalized Tetraazamacrocyclic and Salicylideneimine Complexes.” Inorganic Chemistry, 1998, 37, 1175-1190. | | |
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| References | | |
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| Constance Haberman | | |
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