

Toscano - Curriculum Vitae

Professional Positions

1991-present

Associate Professor of Chemistry

1985-1991

Assistant Professor of Chemistry

University at Albany, State University of New York, Department of Chemistry

1983-1985

Post-doctoral fellow (with Prof. T.J. Marks).

Northwestern University, Evanston, IL

Application of Solid-State NMR Spectroscopy to Electrically Conductive Phthalocyanine Materials and Organometallic Complexes Adsorbed on Metal Oxide Supports.

1978-1983

Teaching and research assistant

Johns Hopkins University, Baltimore, MD

1975-1978

Undergraduate research assistant

Johns Hopkins University, Baltimore, MD

Education

Ph.D. Chemistry, 1983

Johns Hopkins University, Baltimore, MD

Research Advisor: Prof. L.G. Marzilli Cobalt

Complexes of Biological Significance

B.A./M.A. Chemistry, 1978

Johns Hopkins University, Baltimore, MD

Research Interests

- Synthetic and mechanistic organometallic and coordination chemistry; nature and cleavage modes of the M-C bond; synthetically useful complexes.
- Organometallic and inorganic precursors for electronic applications.

- Application of solid-state NMR spectroscopy to problems of chemical interest; e.g., polymer- and oxide-supported materials and diffusion of small molecules.
- Synthesis of stereospecific ligands for transition metal ions. Metal ion-promoted hydrolyses.

Awards

- Sarah and Adolph Roseman Achievement Award for excellence in research (Johns Hopkins University)
- Phi Beta Kappa
- Phi Lambda Upsilon Chemical Society
- 4. Sigma Xi
- University at Albany Excellence in Teaching Award (1998-1999)
- State University of New York Chancellor's Award for Excellence in Teaching (1999).
- SUNY First Time Patent Recipient (2001-2002)

Patents

1. A. E. Kaloyeros, J. T. Welch, P. J. Toscano, R. Claessen, and K. K. Banger, "MOCVD Processes Using Precursors Based on Organometalloid Ligands"; US 6,099,903 (Cl. 427-250; C23 C16/18), 8 Aug 2000; Appl. 314,762, 19 May 1999.
2. J. T. Welch, P. J. Toscano, R. Claessen, A. Kornilov, and K. K. Banger, "Preparation of Group IVA Element-Substituted β -Diketones and Analogs and Preparation of Their Metal Complexes as MOCVD Precursors" US 6,184,403 (Cl. C07 F1/8), 6 Feb 2001; Appl. 314,311, 19 May 1999.
3. J. T. Welch, P. J. Toscano, R. Claessen, A. Kornilov, and K. K. Banger, "MOCVD Precursors Based on Organometalloid Ligands" US 6,359,159 (partial continuation of US 6,184,403) (Cl. C07 F7), 19 Mar 2002; Appl. 729,115, 4 Dec 2000.

Professional Societies

- American Chemical Society (Inorganic, Organic, and Fluorine Divisions)

Professional Activities

Invited Lectures

- SUNY-College at Geneseo, Union College, University of Delaware, Alfred University, Rensselaer Polytechnic Institute, SUNY-Stony Brook, Wesleyan University, General Electric R&D Center, New York Academy of Sciences (Section of Inorganic Chemistry and Catalytic Science).
- ACS Organometallic Award Symposium honoring Tobin J. Marks, the 1989 recipient; 197th ACS National Meeting, Dallas, TX, April 1989; "The Reaction of Reduced Cobalt Species with Halogenotrifluoroethylenes"; **P. J. Toscano** and E. Barren.

- ACS Fluorine Division Symposium on Inorganic Fluorine Chemistry: Toward the 21st Century; 203rd ACS National Meeting, San Francisco, CA, April 1992; "Synthetic, Structural, and Reactivity Studies of Organocobalt(III) Compounds Containing Fluorinated Alkyl Ligands"; **P. J. Toscano**, E. Barren, H. Brand, L. Konieczny, E. J. Schermerhorn, K. Shufon, and S. van Winkler.

Contributed Lectures and Posters

- 17th ACS Northeast Regional Meeting, Rochester NY, November 1987; "Cleavage by Iodine of Cobalt-Carbon Bonds in Alkyl Bis(dimethylglyoximate)cobalt(III) Complexes"; **P. J. Toscano**, A. Seligson, and E. Barren. 95th ACS National Meeting (3rd World Chemical Congress), Toronto, Ont., Canada, June 1988; "Cobalt(III) Complexes Containing Bulky, Highly Fluorinated Ligands"; **P. J. Toscano**, H. Brand, and E. Barren.
- Gordon Research Conference (Organometallic Chemistry), Newport, RI, June 1988; "Thermodynamic and Kinetic Studies of Iodinolysis of Co-C Bonds"; **P. J. Toscano**, A. Seligson, E. Barren, A. Skrobitt, and D. C. Sonnenberger.
- 19th ACS Northeast Regional Meeting, Albany, NY, June 1989; "The Reaction of Reduced Cobalt Species with Halogenotrifluoroethylenes"; **P. J. Toscano** and E. Barren.
- 19th ACS Northeast Regional Meeting, Albany, NY, June 1989; "Synthesis and Isolation of Metal Complexes Containing Stereospecific NSNN Tetradentate Ligands"; **P. J. Toscano**, K. J. Fordon, and K. A. Belsky.
- 2nd International Conference on Heteroatom Chemistry, Albany, NY, July 1989; "Stabilization of Highly Fluorinated Alkyl and Alkenyl Moieties on Cobalt Coordination Compounds"; **P. J. Toscano**, E. Barren, H. Brand, and L. Konieczny.
- 4th International Conference on Bioinorganic Chemistry, Cambridge, MA, July 1989; "The Interaction of Reduced Vitamin B-12 Model Compounds with Fluorinated Substrates"; **P. J. Toscano**, E. Barren, H. Brand, and L. Konieczny.
- 1989 International Chemical Congress of Pacific Basin Societies (Pacifichem '89), Honolulu, HI, December, 1989; "Stabilization of Fluorocarbon Groups at Cobalt(III) Centers: Structure and Reactions"; **P. J. Toscano**, E. Barren, H. Brand, and L. Konieczny.
- 199th ACS National Meeting, Boston, MA, April 1990; "Synthesis, Characterization, and Cr-C Cleavage Reactions of Novel Organochromium(III) Tetraarylporphyrin Complexes"; **P. J. Toscano**, P. DiMauro, and H. Brand.
- 1990 U.S. Army Chemical Research, Development, and Engineering Center Scientific Conference on Chemical Defense Research, Edgewood, MD, November 1990; "Sorption of Small Molecules in Polymeric Media Studied via High-Resolution Solid-State NMR Spectroscopy"; **P. J. Toscano** and H. L. Frisch.
- 201st ACS National Meeting, Atlanta, GA, April 1991; "Vanadium(V) Organometallic Complexes with Phenolic Ancillary Ligands"; **P. J. Toscano**, C. Dettelbacher, and E. J. Schermerhorn.
- 1991 U.S. Army Chemical Research, Development, and Engineering Center Scientific Conference on Chemical Defense Research, Edgewood, MD, November 1991; "Applications of High-

Resolution Solid-State NMR Spectroscopy to the Study of Sorption by Polymeric Materials"; **P. J. Toscano**, J. Waechter and E. J. Schermerhorn.

- 22nd ACS Northeast Regional Meeting, Syracuse, NY, June 1992; "Reactivity and Structural Characterization of Monomeric Vanadium(V) Organometallic Complexes"; **P. J. Toscano**, C. Dettelbacher, and E. J. Schermerhorn.
- 205th ACS National Meeting, Denver, CO, March 1993; "Synthesis and Characterization of a New Copper(II) Complex for Chemical Vapor Deposition"; **P. J. Toscano**, C. Dettelbacher, J. Waechter, N. P. Pavri, E. T. Eisenbraun, and A. E. Kaloyeros.
- 216th ACS National Meeting, Boston, MA, August 1998; "Synthesis, Structure, Characterization, and Polymerization Activity of Group 4 Bistrifluoromethanesulfonimide Complexes"; **P. J. Toscano**, S. C. Ngo, R. Claessen, K. K. Banger, and J. T. Welch.
- 219th ACS National Meeting, San Francisco, CA, March 2000; "Facile Preparation and Isolation of the Sila-b-diketone, 2,2,6,6-Tetramethyl-2-sila-3,5-heptanedione: The Influence of Silicon Substitution on the Volatility and Chemical Vapor Deposition Properties of the Cu(II) Complex"; **P. J. Toscano**, K. K. Banger, A. Kornilov, R. U. Claessen, J. T. Welch, E. T. Eisenbraun, and A. E. Kaloyeros.
- 30th ACS Northeast Regional Meeting, Durham, NH, June 2001; "Physical and Structural Characterization of Cerium(IV) b-Diketonate Complexes"; **P. J. Toscano**, M. J. Delarosa, K. S. Bousman, and J. T. Welch.
- 222nd ACS National Meeting, Chicago, IL, August 2001; "Physical and Structural Characterization of Metal Complexes of Silylated b-Diketonate Ligands Containing Fluorinated Substituents"; **P. J. Toscano**, S. Higashiya, S. C. Ngo, K. K. Banger, P. Lim, K. S. Bousman, and J. T. Welch. Also presented at the Sci-Mix session.
- 224th ACS National Meeting, Boston, MA, August 2002; "Physical and Structural Characterization of New Homoleptic Copper(II) Dialkyldithio-carbamate Complexes"; **P. J. Toscano**, S. C. Ngo, K. K. Banger, M. J. DelaRosa, and J. T. Welch.
- 224th ACS National Meeting, Boston, MA, August 2002; "Synthesis and Physical and Structural Characterization of trans-Bis(diphenylglyoximato)(alkyl)-(pyridine)cobalt(III) Complexes"; **P. J. Toscano**, L. Lettko, E. J. Schermerhorn, J. Waechter, and K. Shufon.

Co-authored Lectures and Posters Contributed by Colleagues

- 12th ACS Midatlantic Regional Meeting, Hunt Valley, MD, April 1978; "³¹P NMR Study of Cobaloxime Complexes"; **J. A. Kargol**, R. W. Creceley, J. L. Burmeister, P. Toscano, R. C. Stewart, and L. G. Marzilli.
- 1980 ACS/CIC Biennial Inorganic Chemistry Symposium, Guelph, Ont., Canada, June 1980; "Cobaloximes Containing Phosphorus Donor Ligands"; **L. G. Marzilli**, P. J. Toscano, J. H. Ramsden, L. Randaccio, and N. Bresciani-Pahor.

- 1st International Conference on Bioinorganic Chemistry, Florence, Italy, June 1983; "Co-C Bond Cleavage in B₁₂ Systems and Organocobalt Compounds: The Role of Structure"; **L. G. Marzilli**, P. J. Toscano, M. Summers, L. Randaccio, N. Bresciani-Pahor, J. P. Glusker, and M. Rossi.
- 186th ACS National Meeting, Washington, DC, August 1983; "Supported Organo-f-Element Complexes. Catalysis and Surface Chemistry"; **T. J. Marks**, R. L. Burwell, Jr., M.-Y. He, and P. J. Toscano.
- 188th ACS National Meeting, Philadelphia, PA, August 1984; "NMR Studies of RB₁₂ (Alkylcobalamins) and the X-ray Structure of the Coenzyme, MeB₁₂"; **L. G. Marzilli**, M. F. Summers, P. J. Toscano, M. Rossi, J. P. Glusker, and L. Randaccio.
- 193rd ACS National Meeting, Denver, CO, April 1987; "¹³C CPDAS Solid State NMR Studies of Heterogeneous Organoactinide Ethylene Polymerization Catalysts"; **D. Hedden**, J.-F. LeMarechal, P. J. Toscano, and T. J. Marks.
- 7th Undergraduate Research Symposium, Albany NY, April 1987; "Cleavage by Iodine of Cobalt-Carbon Bonds in Alkyl Bis(dimethylglyoximato)cobalt(III) Complexes: Kinetics and Mechanism"; **A. L. Seligson** and P. J. Toscano.
- 7th Undergraduate Research Symposium, Albany NY, April 1987; "Reactions of Cobalt(III) Complexes Containing Stereospecific Tetradentate Ligands with Amino Acids, Dipeptides, and Their Esters"; **K. L. Belsky** and P. J. Toscano.
- ACS Northeast Regional Undergraduate Symposium, Albany NY, April 1987; "Cleavage by Iodine of Cobalt-Carbon Bonds in Alkyl Bis(dimethyl-glyoximato)cobalt(III) Complexes: Kinetics and Mechanism"; **A. L. Seligson** and P. J. Toscano.
- 9th Undergraduate Research Symposium, Albany NY, April 1989; "The Synthesis and Reactions of Stereospecific Ligands with NSNN Donor Sets"; **K. J. Fordon** and P. J. Toscano.
- 19th ACS Northeast Regional Meeting, Albany, NY, June 1989; "Perfluorinated-Cobaloximes"; **H. Brand**, L. Konieczny, and P. J. Toscano.
- 19th ACS Northeast Regional Meeting, Albany, NY, June 1989; "Chelating Ligands for the Early Transition Metals"; **E. Barren** and P. J. Toscano.
- Fall 1989 MRS Meeting, Boston, MA, November 1989; "Low Temperature Metal Organic Chemical Vapor Deposition (LTMOCVD) of Electronic Materials"; **A. E. Kaloyeros**, P. J. Toscano, R. B. Rizk, V. Tulchinsky, and A. Greene.
- Spring 1990 MRS Meeting, San Francisco, CA, April 1990; "The Low-Temperature Metal-Organic Chemical Vapor Deposition (LTMOCVD) Route to Amorphous Silicon Semiconductors"; **A. E. Kaloyeros**, J. W. Corbett, P. J. Toscano, and R. B. Rizk.
- TECHCON 1990, San Jose, CA, September 1990; "Selective Copper for Multilevel Metallization"; A. N. Saxena, **A. E. Kaloyeros**, P. J. Toscano, E. Eisenbraun, S. Ghosh, and J. Garhart.
- Spring 1991 MRS Meeting, Anaheim, CA, April 1991; "The Effect of Grain Boundaries and Substrate Interactions with Hydrogen on the CVD Growth of Device-Quality Copper"; **A. E.**

Kaloyeros, C. Dettelbacher, E. T. Eisenbraun, W. A. Lanford, H. Li, J. F. Olowolafe, S. Murarka, F. Pintchovski, Y.-T. Shy, and P. J. Toscano.

- Conference on Advanced Metallization for ULSI Applications, Murray Hill, NJ, October 1991; "Selective and Blanket Low-Temperature Copper CVD for Multilevel Metallization in ULSI"; **E. T. Eisenbraun**, B. Zheng, H. Li, A. Wax, A. E. Kaloyeros, C. Dettelbacher, P. J. Toscano, N. Devashrayee, S. P. Murarka, J. F. Olowolafe, and F. Pintchovski.
- Spring 1992 MRS Meeting, Anaheim, CA, April 1992; "Copper CVD for Multilevel Metallization"; **B. Zheng**, J. Liu, E. T. Eisenbraun, P. J. Toscano, C. Dettelbacher, S. P. Murarka, T. Cacouris, and A. E. Kaloyeros.
- 203rd ACS National Meeting, San Francisco, CA, April 1992; "Monofluorinated Carbene Complexes of the Group VIB Metals: Synthetic Applications and Structure Determination"; **Keskeny**, J. T. Welch, and P. J. Toscano.
- Invited presentation at the NASA Lewis Research Center, Cleveland, OH, May 1992; "CVD Metals for Multilevel Metallization"; **A. E. Kaloyeros**, B. Zheng, J. Liu, E. T. Eisenbraun, P. J. Toscano, and C. Dettelbacher.
- SPIE Conference on Submicrometer Metallization, San Jose, CA, September 1992; "New CVD Processes for Emerging Metallization Schemes", **A. E. Kaloyeros**, P. J. Toscano, E. T. Eisenbraun, B. Zheng, J. Liu, C. Dettelbacher, and M. Thomas.
- Conference on Advanced Metallization for ULSI Applications 1992, Tempe, AZ, October 1992; "Plasma-Assisted CVD of Copper for ULSI Metallization"; **A. E. Kaloyeros**, E. T. Eisenbraun, B. Zheng, J. Liu, C. Dettelbacher, P. J. Toscano, S. P. Murarka, and T. Cacouris.
- Conference on Advanced Metallization for ULSI Applications 1992, Tempe, AZ, October 1992; "CVD of Copper from Copper(II) b-Diketonates Using A New Liquid Delivery Approach"; **E. Eisenbraun**, B. Zheng, J. Liu, A. Wax, C. Dettelbacher, P. J. Toscano, S. P. Murarka, R. Fiordalice, F. Pintchovski, and A. E. Kaloyeros.
- Conference on Advanced Metallization for ULSI Applications 1992, Tempe, AZ, October 1992; "MOCVD of Tungsten for Multilevel Interconnects"; **J. Faltermeier**, E. Eisenbraun, J. Liu, C. Dettelbacher, P. J. Toscano, B. Arkles, and A. E. Kaloyeros.
- Fall 1992 MRS Meeting, Boston, MA, December 1992; "Chemistry of b-Diketonate Precursors for Copper CVD"; **B. Zheng**, E. T. Eisenbraun, J. Liu, P. J. Toscano, C. Dettelbacher, and A. E. Kaloyeros.
- TECHCON 1993, San Jose, CA, September 1993; "In Situ Quadrupole Mass Spectrometry and Fourier-Transform Infrared Spectroscopy Studies of Gas Phase Chemistry in CVD of Copper"; **B. Zheng**, E. T. Eisenbraun, P. J. Toscano, S. P. Murarka, and A. E. Kaloyeros.
- Conference on Advanced Metallization for ULSI Applications 1993, San Diego, CA, October 1993; "Plasma-Assisted Chemical Vapor Deposition of Gold for ULSI Multilevel Metallization Schemes"; **I. Lou**, L. Chen, E. T. Eisenbraun, E. J. Schermerhorn, P. J. Toscano, M. E. Thomas, B. Arkles, and A. E. Kaloyeros.

- 24th ACS Northeast Regional Meeting, Burlington, VT, June 1994; "Magnetic Properties of Solid Solutions of $[\text{Mn}_{1-x}\text{Fe}_x(\text{C}_5(\text{CH}_3)_5)_2]^+[\text{TCNQ}]^-$ "; **S. M. Owens**, D. Eichorn, P. J. Toscano, B. M. Hoffman, and W. E. Broderick.
- 212th ACS National Meeting, Orlando, FL, August 1996; "Bistriflate Titanium Complexes for the Polymerization of Styrene"; **S. C. Ngo**, J. Okuda, J. T. Welch, and P. J. Toscano.
- 215th ACS National Meeting, Dallas, TX, March 1998; "Titanium Complexes for the Syndiotactic Polymerization of Styrene"; **S. C. Ngo**, P. J. Toscano, and J. T. Welch.
- National Soil Associations Meeting, Salt Lake City, UT, November 1999; "Solid-State ^{19}F NMR Investigation of Dual-Mode Sorption"; **S. D. Kohl**, P. J. Toscano, and J. A. Rice.
- 219th ACS National Meeting, San Francisco, CA, March 2000; "Precursor Engineering and Characterization of New Volatile Copper MOCVD Precursors for Thin-Film Deposition"; **J. T. Welch**, K. K. Banger, S. C. Ngo, R. U. Claessen, P. J. Toscano, E. T. Eisenbraun, and A. E. Kaloyeros.
- 219th ACS National Meeting, San Francisco, CA, March 2000; "Silver Complexes for MOCVD"; J. T. Welch, **S. C. Ngo**, K. K. Banger, P. J. Toscano, and A. E. Kaloyeros. Also presented at the Sci-Mix session.
- Spring 2000 MRS Meeting, San Francisco, CA, April 2000; "The 2,2,6,6-Tetramethyl-2-sila-3,5-heptanedione Route to the Chemical Vapor Deposition of Copper for Gigascale Interconnect Applications"; **R. U. Claessen**, J. T. Welch, P. J. Toscano, K. K. Banger, A. M. Kornilov, E. T. Eisenbraun, and A. E. Kaloyeros.
- 220th ACS National Meeting, Washington, DC, August 2000; "Solid-State NMR Investigation of Dual-Mode Sorption to Soil Organic Matter"; **S. D. Kohl**, P. J. Toscano, and J. A. Rice.
- 2001 Joint Applied Mechanics and Materials Summer Conference of the ASME Materials and Applied Mechanics Divisions and the ASCE Engineering Mechanics Division and Society of Engineering Sciences, San Diego, CA, June 2001; "A New Halogen-free Organometallic Family of Precursors for CVD Copper Seed Layers: Design, Characterization and Process Development"; **R. U. Claessen**, K. K. Banger, S. Ngo, S. Higashiya, A. M. Kornilov, P. Lim, E. T. Eisenbraun, P. J. Toscano, A. E. Kaloyeros, and J. T. Welch.
- 222nd ACS National Meeting, Chicago, IL, August 2001; "Synthesis of Mono- and fluoroacetyltrialkylsilanes and the Corresponding Silyl Enol Ethers: Novel and Versatile Synthons"; **S. Higashiya**, D. S. Lim, S. C. Ngo, P. J. Toscano, and J. T. Welch.
- 16th Winter Fluorine Conference (ACS), St. Pete Beach, FL, January 2003; "Fluorinated α -Sila- β -diketones and Their Derivatives as Ligands for Novel Complex Preparation"; D. S. Lim, S. Higashiya, S. C. Ngo, K. K. Banger, P. J. Toscano, **J. T. Welch**.

Invited Workshops

- Workshop on 'Measurement of Properties of Bulk Materials', Natick Research, Development and Engineering Center (U.S. Army), Natick, MA, April 1988; invited lecture on "NMR Techniques".

- Workshop on 'Polymers Reactive in a Chemical Environment' sponsored by the U.S. Army Research Office, Rougemont, NC, March 1989; co-section leader for 'Analytical Requirements'. NYS SCOE Review, Rensselaer Polytechnic Institute, Troy, NY, November 1992; invited lecture on "Copper CVD Chemistry".
- Semiconductor Research Corporation Workshop, Rensselaer Polytechnic Institute, Troy, NY, November 1992; invited lecture on "Tungsten CVD Chemistry". Semiconductor Research Corporation Workshop on 'Copper Interconnect Technology', Rensselaer Polytechnic Institute, Troy, NY, August 1993; invited lecture on "Chemistry and Synthesis of Cu CVD Precursors". Center for Advanced Thin Film Technology Industry Day, Albany, NY, November 1997; invited lecture on "b-Diketonate Complexes of Copper and Cerium".
- ACS Graduate Education Discussion, 30th ACS Northeast Regional Meeting, Durham, NH, June 2001; department representative. Participant.
- Gordon Research Conference (Inorganic Chemistry), Wolfeboro, NH, August, 1987.
- DARPA Polymer Review, Arlington, VA, May, 1989.
- 1989 U.S. Army Chemical Research, Development, and Engineering Center Scientific Conference on Chemical Defense Research, Edgewood, MD, November 1989.
- Semiconductor Research Corporation Topical Research Conference on Low Dielectric Constant Interlayer Dielectrics for High Performance Circuits, Rensselaer Polytechnic Institute, Troy, NY, August 1994.

Miscellaneous

- Organometallic Chemistry Symposium Organizer and Presider, 19th ACS Northeast Regional Meeting, Albany, NY, June 1989; 'Recent Developments in the Chemistry of Coordinated Small Molecules'.
- Secretary, Organizing Committee for the Second International Conference on Heteroatom Chemistry, Albany, NY, July 1989.
- Reviewer: Journals--*Journal of the American Chemical Society, Inorganic Chemistry, Organometallics, Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, Inorganica Chimica Acta, Chemistry of Materials, Journal of Coordination Chemistry, ACS Symposium Series, ACS Books*; Publishers--Houghton-Mifflin; Grant Proposals--Petroleum Research Fund, National Science Foundation, National Institutes of Health, Army Research Office, Israel Science Foundation, and the U.S. Civilian Research and Development Foundation.

Postdoctoral Research Associates

- Peter T. DiMauro; (Cornell University) 1989-1990)

Visiting Scientist

- Wenhua Hou; (Nanjing University) (1997-1998)

Research Graduate Students

- Holger Brand; M.S., 1989; "Preparation, Characterization and Reactions of Organocobalt and Organochromium Compounds".
- Elizabeth Barren; M.S., 1990; "Studies on Organocobalt(III) Complexes. Part I. Kinetics and Mechanism of the Iodinolysis of Cobalt-Carbon Bonds. Part II. Reaction of Reduced Cobalt Species with Fluorinated Olefins"; was employed at GE Central R&D; currently working at Molecular Opto-electronics Corp.
- Zhi-yun Zhang; 1989; rematriculated at DePaul University when her husband relocated.
- E. James Schermerhorn; M.S., 1993; "Studies on Vanadium(V) and Titanium(IV) Chelating Phenoxide Complexes"; was employed at Brookhaven National Laboratory; currently at Albany Molecular Research Corp.
- Claudia Dettelbacher; M.S., 1993; "Studies on Oxovanadium(V) Complexes and (b-Diketonato)metal Complexes".
- Jun Ni; 1998-1999; completed research work for M.S. degree at Albany; left for Ph.D. program in chemistry at Northwestern University with Prof. T. J. Marks and did not submit M.S. thesis here.
- Xingwei Li; 2000-2001; left for Ph.D. program in chemistry at Yale University with Prof. R. Crabtree before completing M.S. work at Albany.
- William Kelly; M.S., 2002; "Crystallographic Studies of Selected Copper and Cobalt Coordination Complexes and Organosilicon Compounds".

Research Undergraduate Students

- Kimberly A. Belsky (5/86-5/87)
- Allen L. Seligson (5/86-5/87)
- Matthew T. Curran (9/86-5/87; 9/87-12/87)
- Kathy J. Fordon (9/88-5/89)
- Linda (Konieczny) Lettko (9/88-5/89)
- E. James Schermerhorn
- John Waechter (5/90-12/90; 5/91-8/91)
- Stephen Van Winkler (1/91-8/91)
- Donna Wu (1/91-5/91); took employment at Unilever.
- Steven Levi (1/91-5/91)
- Kevin Shufon (9/91-5/92)
- Neville Pavri, (1/92-12/92)

- Jennifer Miller (1/92-5/92)
- Daniel Hunt (1/93-7/93)
- Michael Clarke (9/93-5/94)
- Geraldine Vendome (9/94-5/95)