

Doctoral Degrees, Department of Chemistry 1935*-2004

Ordered by Year (Descending)	1
Ordered by Ph.D. Recipient	21
Ordered by Advisor	41

Your advice on errors or omissions will be appreciated

* The Department of Chemistry was established as a separate entity in the 1936/7 academic year. Prior to that date, the Chemistry and Chemical Engineering comprised a single entity, with the first doctoral dissertation published in 1935, in Chemistry.

Ordered by Year

2004 Bui, H.	Ph.D.	Advisor: G. C. Berry
Viscoelastic Study of Reversible Gels and Block Copolymer Melts		
2004 Cao, R.	Ph.D.	Advisor: B. A. Armitage
Biomolecular Recognition: From Cyanine Dye-DNA Complexes to Recyclable Enzymes		
2004 Datta, B.	Ph.D.	Advisor: B. A. Armitage
Molecular Recognition Involving Guanine-Quartets and Hybrid Aptamers		
2004 Dilek, I.	Ph.D.	Advisor: B. A. Armitage
Supramolecular Structures Involving Peptide Nucleic Acid		
2004 Ghosh, A.	Ph.D.	Advisor: T. J. Collins
Design, Synthesis and Mechanistic Studies of Iron-TAML Catalytic Activators of Hydrogen Peroxide and a New Activation Chemistry of Dioxygen by Iron		
2004 Gu, Z.	Ph.D.	Advisor: G. D. Patterson
Nano-Scale Structures of Supramolecules: From Fractal Bio-Microgels to Micellar Aggregates		
2004 Kunz, C.	Ph.D.	Advisor: M. Kaplan
Charged Kaon Ratios and Yields Measured with the STAR Detector at the Relativistic Heavy Ion Collider		
2004 Tomlinson, A.	Ph.D.	Advisor: D. Yaron
Modeling the Photophysics of Biological Dye Assemblies		
2004 Upadhyay, A.	Ph.D.	Advisor: M. P. Hendrich
Spectroscopic Characterization of Multiheme Proteins from <i>Nitrosomonas Europaea</i>		
2003 Golombek, A.	Ph.D.	Advisor: M. P. Hendrich
EPR and Mössbauer Studies of Manganese and Iron Small Molecule Model Complexes and Proteins		
2003 Pierce, B.	Ph.D.	Advisor: M. P. Hendrich
The Use of Quantitative EPR Techniques to Observe Active Site Assembly Within the Small Subunit of Ribonucleotide Reductase		
2002 Chowdhury, A.	Ph.D.	Advisor: L. A. Peteanu
Electronic delocalization and charge-transfer properties of chemical and biological systems as measured by Stark spectroscopy		
2002 Gehrman, M.	Ph.D.	Advisor: M. Llinás
Structural and Functional Similarities Between FII and Kringle Domains		
2002 Gupta, S. S.	Ph.D.	Advisor: T. J. Collins
Iron-TAML Activators of Hydrogen Peroxide: Synthesis, Characterization and Environmental Applications		
2002 Hangun, Y.	Ph.D.	Advisor: T. J. Collins
Design and Study of Catalytic Activators of Hydrogen Peroxide Promising Rapid Efficient Petroleum Desulfurization and Bleaching Technologies		
2002 Immaraporn, B.	Ph.D.	Advisor: A. Gellman
Kinetics Study of Acid Deprotonation and Dechlorination Reactions on Single Crystal Metal Surfaces		
2002 Kushon, S.	Ph.D.	Advisor: B. A. Armitage
A Thermodynamic and Kinetic Study of the Binding of PNA Probes to DNA and RNA Hairpin Structures		
2002 Liu, J.	Ph.D.	Advisor: R. D. McCullough
End-Group Functionalization of Regioregular Head-to-Tail Poly(3-alkylthiophenes) and its Application to the Synthesis of Well-Defined Rod-Coil Block Copolymers: Tuning the Self-Assembly and Functional Properties of Conducting Polymers		
2002 Pasquinelli, M.	Ph.D.	Advisor: D. Yaron
An Effective Particle Approach to the Photophysics of Conjugated Polymers		
2002 Pintauer, T.	Ph.D.	Advisor: K. Matyjaszewski

- Structural and mechanistic aspects of copper catalyzed atom transfer radical processes
- 2002 Pyunn, D.-C. J. Ph.D. Advisor: K. Matyjaszewski
Synthesis of Nanostructured Organic/Inorganic Hybrid Materials Using Controlled/Living Radical Polymerization
- 2002 Savin, D. Ph.D. Advisor: G. D. Patterson
Rayleigh-Brillouin and Photon Correlation Spectroscopy of Poly (n-hexyl methacrylate) Near the Glass Transition, and Light Scattering and Thermal Characterization of Hybrid Nanoparticles
- 2002 Wang, M. Ph.D. Advisor: B. A. Armitage
Interactions of Cyanine Dyes with DNA or PNA Duplexes: Formation of Supramolecular Structures
- 2002 Zhai, L. Ph.D. Advisor: R. D. McCullough
Fabrication of Micro- and Nanostructures from Functionalized Regioregular Poly (3-alkylthiophenes)
- 2001 Davis, K. A. Ph.D. Advisor: K. Matyjaszewski
Segmented copolymers by atom transfer radical polymerization
- 2001 Grishaev, A. Ph.D. Advisor: M. Llinás
CLOUDS: A Computational Protocol for Protein Structure Elucidation via NMR Proton Densities
- 2001 Hu, T. C.-C. Ph.D. Advisor: A. Koretsky
Cardiac Magnetic Resonance Imaging of Mice: Assessment of Left-Ventricular Function, and Development of Manganese as a Functional Contrast Agent
- 2001 Jeon, J. Ph.D. Advisor: H. J. Kim
Solvation and solute electronic structure in a continuum solvent picture
- 2001 Paik, H.-J. Ph.D. Advisor: K. Matyjaszewski
Kinetic studies and applications of atom transfer radical polymerization
- 2001 Pilston, R. Ph.D. Advisor: R. D. McCullough
Synthesis and Characterization of Novel Regioregular Polythiophenes, Random Copolymers of Thiophene and Studies of the GRIM Polymerization Method for the Synthesis of Polythiophenes
- 2001 Weibel, J. Ph.D. Advisor: D. Yaron
New Methodologies for Electronic Structure Calculations on Organic Materials
- 2000 Beers, K. L. Ph.D. Advisor: K. Matyjaszewski
Design, synthesis and properties of comb copolymers with variable grafting density by controlled radical polymerization
- 2000 Loewe, R. S. Ph.D. Advisor: R. D. McCullough
Synthesis, characterization, and development of structurally homogeneous polythiophenes (pts) and polythienylene vinylenes
- 2000 Moore, E. E. Ph.D. Advisor: D. Yaron
Solid-state effects on the electronic structure of conjugated polymers
- 2000 Popescu, V.-C. Ph.D. Advisor: E. Münck
Mossbauer and EPR studies of the hydrogen-cluster of the iron-hydrogenases from *C. pasteurianum* and of synthetic complexes designed to model the iron sites of the [(2)iron](H)-subcluster and Mossbauer studies of the transcription factor FNR of *Escherichia coli*
- 2000 Premvardhan, L. L. Ph.D. Advisor: L. A. Peteanu
Electrostatic properties of charge-transfer systems
- 2000 Qiu, J. Ph.D. Advisor: K. Matyjaszewski
Atom transfer radical polymerization in aqueous dispersed media
- 2000 Vuocolo, L. D. Ph.D. Advisor: T. J. Collins
The preparation of iron complexes as green catalytic oxidant activators of hydrogen peroxide
- 2000 Willard, B. B. Ph.D. Advisor: S. T. Graul
Experimental and theoretical investigations of the metastable dissociations of organosilicon ions
- 2000 Williams, S. A. Ph.D. Advisor: T. J. Collins
Synthesis, characterization and reactivity of high-valent copper complexes of macrocyclic tetraamido-N ligands
- 2000 Yoo, S. J. Ph.D. Advisor: E. Münck
Spectroscopic studies of novel metal clusters in iron-sulfur proteins
- 1999 Briknarová, K. Ph.D. Advisor: M. Llinás
The second and third fibronectin type II modules from human matrix Metalloproteinase 2: Structure, function and dynamics
- 1999 Kehlbeck, J. Ph.D. Advisor: S. W. Staley
Dynamic Processes of Cyclooctatetraenes and Aryl-Bridged Dicyclooctatetraenes and their Dianions
- 1999 Locknar, S. Ph.D. Advisor: L. A. Peteanu
Calculations and Experimental Measurements of the Effects of Solvent and External Electric Fields on the Absorption and Resonance Raman Spectra of Donor-Acceptor Polyenes and Retinals
- 1999 Martin, G. S. Ph.D. Advisor: S. W. Staley
Dynamic processes of monosubstituted cyclooctatetraenes, bridged dicyclooctatetraenes and bridged dicyclooctatetraenyl dianions

- 1999 Miller, P. Ph.D. Advisor: K. Matyjaszewski
Atom Transfer Radical Polymerization and the Synthesis of Well-Defined Inorganic/Organic Hybrid Polymeric Materials
- 1999 Peterson, M. L. Ph.D. Advisor: S. W. Staley
1. Molecular Structure, Electronic Properties and Crystal Packing of 6-Arylfulvenes; 2. Charger Transfer in Biphenyl Bridged Dicyclooctatetraenes
- 1999 Xia, J. Ph.D. Advisor: K. Matyjaszewski
Development and Applications of New Catalysts in Atom Transfer Radical Polymerization
- 1998 Achim, C. Ph.D. Advisor: E. Münck
Electron transfer involving mixed-valence metal clusters
- 1998 Bursulaya, B. Ph.D. Advisor: H. J. Kim
Truncated adiabatic basis-set approach to the modeling of molecular polarizability in computer simulation studies
- 1998 Li, F. Ph.D. Advisor: J. S. Lindsey
New approaches for synthesizing meso-substituted porphyrins, and the synthesis and photophysical properties of light-harvesting model system
- 1998 Miller, C. Ph.D. Advisor: T. J. Collins
Synthesis, characterization, and reactivity of high-valent manganese complexes of macrocyclic-tetraamido N-ligands
- 1998 Unlu, M. Ph.D. Advisor: J. S. Minden
Identification of proteins involved in ventral furrow formation in *Drosophila melanogaster* embryos using difference gel electrophoresis: A modified two-dimensional gel electrophoresis technique
- 1997 Bartos, M. J. Ph.D. Advisor: T. J. Collins
Development and study of high valent iron complexes
- 1997 Brown, C. M. Ph.D. Advisor: M. Kaplan
Statistical evaporation of light charged particles in heavy ion induced nuclear reactions
- 1997 Gaynor, S. G. Ph.D. Advisor: K. Matyjaszewski
Branched and hyperbranched polymers by atom transfer radical polymerization
- 1997 Greszta, D. Ph.D. Advisor: K. Matyjaszewski
Synthesis of novel gradient copolymers via atom transfer radical polymerization
- 1997 Grimm, R. A. Ph.D. Advisor: S. W. Staley
Dynamic processes of cyclooctatetraenes and bridged dicyclooctatetraenyl dianions
- 1997 Jayaraman, M. Ph.D. Advisor: R. D. McCullough
Synthesis and characterization of HT-Poly(3-Alkylthiophenes), HT-Random and alternating copolymers of 3-Alkylthiophenes and HT-Amphiphilic alternating copolymers of thiophenes & Langmuir-Blodgett assembly of HT-Amphiphilic alternating copolymers of thiophenes
- 1997 Kauffmann, K. E. Ph.D. Advisor: E. Münck
Mössbauer studies of model complexes relevant to the active sites of dioxygen-reducing enzymes
- 1997 Randolph, J. B. Ph.D. Advisor: A. Waggoner
Design and optimization of multiply-labeled fluorescent DNA probes
- 1996 Ewbank, P. C. Ph.D. Advisor: R. D. McCullough
Synthesis of regioregular thiophene oligomers and polymers with amino and carboxylic acid substituents, protection of 3-(aminomethyl)thiophene by a novel, reversible thienopyrrole synthesis, and ionochromism in 2,5-poly(thiophene-3-propionic acid).
- 1996 Vijaykumar, S. Ph.D. Advisor: G. C. Berry
Rheological and rheo-optical studies on nematic solutions of a rodlike polymer: Poly(1,4-phenylene-2,6-benzobisthiazole)PBZT
- 1996 Williams, S. P. Ph.D. Advisor: R. D. McCullough
The synthesis and properties of regioregular poly(2-substituted thiophenes) with polyetheric substituents, some properties of regioregular poly(3-alkylthiophenes), and efforts toward the synthesis of well-defined poly(pyrrole) derivatives
- 1996 Young, W. S. Ph.D. Advisor: C. L. Brooks
Computational approaches to modeling simple protein folding events
- 1995 Belot, J. A. Ph.D. Advisor: R. D. McCullough
Synthesis and characterization of new organic, inorganic, and organometallic tetrathiafulvalenes and CdSe hybrid materials
- 1995 Fossum, E. A. Ph.D. Advisor: K. Matyjaszewski
Ring opening polymerization of cyclotetrasilanes: A versatile route to polysilylenes
- 1995 Gordon-Wylie, S. W. Ph.D. Advisor: T. J. Collins
High valent manganese and cobalt complexes of oxidatively robust n and o donor ligands
- 1995 Hu, C.-K. Ph.D. Advisor: M. Llinás
NMR studies of the antithrombotic peptide PN 7002 and the fibrinolytic protein BM 06.022
- 1995 Johnson, T. E. Ph.D. Advisor: J. S. Lindsey

- Porphyrin-based light-harvesting arrays: Synthesis, characterization and photophysics
- 1995 Zhu, Z. Ph.D. Advisor: A. Waggoner
Study of fluorescent dns probes and optimal labeling methods
- 1994 Diao, B. Ph.D. Advisor: G. C. Berry
Rheological and optical studies on solutions of rodlike poly(1,4-phenylene-2,6-benzobisthiazole)
- 1994 Hwang, Y. Ph.D. Advisor: G. D. Patterson
Photon correlation spectroscopy of poly(n-hexyl methacrylate) and poly(ethyl methacrylate) as a function of temperature and pressure
- 1994 Martin, P. C. Ph.D. Advisor: D. F. Bocian
Spectral characterization of bacterial reaction centers and related model compounds
- 1994 White, M. L. Ph.D. Advisor: K. Matyjaszewski
The synthesis and characterization of polyphosphazene copolymers
- 1994 Yue, S. Ph.D. Advisor: G. C. Berry
Light scattering studies of intermolecular interactions in polymer solutions
- 1993 Bokman, A. M. Ph.D. Advisor: M. Llinás
Urokinase kringle domain: solution structure and ligand-binding properties
- 1993 Hrkach, J. S. Ph.D. Advisor: K. Matyjaszewski
Synthesis of graft copolymers with a polysilane backbone and organic side chains
- 1993 Johnson, B. G. Ph.D. Advisor: J. A. Pople
Development, implementation and performance of efficient methodologies for density functional calculations
- 1993 Kostka, K. L. Ph.D. Advisor: T. J. Collins
Synthesis and characterization of high-valent iron complexes of macrocyclic tetraamido-N ligands
- 1993 Montague, R. A. Ph.D. Advisor: K. Matyjaszewski
Synthesis of polyphosphazenes via the catalyzed polymerization of phosphoranimines
- 1993 Siesel, D. A. Ph.D. Advisor: S. W. Staley
Synthesis and dynamic NMR studies of bridged dicyclooctatetraenes and alkynylcyclooctatetraenes
- 1993 Yu, H. Ph.D. Advisor: A. Waggoner
Development and application of cyanine dye-labeled DNA probes
- 1992 Procyk, A. D. Ph.D. Advisor: D. F. Bocian
Spectroscopic analyses of hydroporphyrin [sic] model complexes
- 1992 Rejante, M. R. Ph.D. Advisor: M. Llinás
Proton NMR studies on the structure and ligand-binding properties of human plasminogen kringles 1 and 4
- 1992 Replogle, E. S. Ph.D. Advisor: A. J. A. P. S. W. Staley
The development and application of electron correlation methods
- 1992 Ruehl, K. E. Ph.D. Advisor: K. Matyjaszewski
Synthesis and characterization of functionalized oligo- and polysilanes
- 1992 Strnad, J. T. Ph.D. Advisor: S. W. Staley
Structural and electronic effects on the spectroscopy of [pi]-electron systems: 1. Electron transmission spectroscopy ; 2. Nuclear magnetic resonance spectroscopy
- 1992 Workman, J. M. Ph.D. Advisor: T. J. Collins
Routes to multimetallic high oxidation state transition metal complexes
- 1991 Byeon, I.-J. L. Ph.D. Advisor: M. Llinás
NMR studies of the tissue-type plasminogen activator kringle 2 domain
- 1991 Constantine, K. L. Ph.D. Advisor: M. Llinás
Proton magnetic resonance and modeling studies of ferrichrome peptides and type II domains
- 1991 Foresman, J. B. Ph.D. Advisor: J. A. Pople
Ab initio molecular orbital theory for excited states
- 1991 Kaatz, P. G. Ph.D. Advisor: G. D. Patterson
Optical third harmonic generation from isotropic multilayer media
- 1991 Lee, J. M. Ph.D. Advisor: A. A. Bothner-By
Transverse nuclear Overhauser effect
- 1991 Lin, C.-h. Ph.D. Advisor: K. Matyjaszewski
A mechanistic study of living cationic polymerization of alkenes
- 1991 Lisicki, M. Ph.D. Advisor: A. A. Bothner-By
Magnetic susceptibility studies using high field NMR
- 1991 Sneddon, S. F. Ph.D. Advisor: C. L. Brooks
Modelling electron transfer in peptides and proteins

- 1991 Tobias, D. J. Ph.D. Advisor: C. L. Brooks
The formation and stability of protein folding initiation structures
- 1990 Bickerstaff, R. D. Ph.D. Advisor: L. R. Sita
Cyclic and polycyclic stannanes of classical and non-classical structure
- 1990 Duchowski, J. K. Ph.D. Advisor: D. F. Bocian
Spectroscopic studies of lanthanide porphyrin sandwich compounds: effects of strong [pi-pi] interaction
- 1990 Kim, H. K. Ph.D. Advisor: K. Matyjaszewski
Sonochemical synthesis of well-defined polysilanes
- 1990 Liu, P. C. Ph.D. Advisor: G. C. Berry
Rheological studies on dispersions of magnetic particles
- 1990 Srinivasarao, M. Ph.D. Advisor: G. C. Berry
Rheo-optical studies on a polymer liquid crystal under the influence of flow or magnetic fields
- 1990 Sullivan, V. J. Ph.D. Advisor: G. C. Berry
Rheology, phase behavior and dilute solution properties of blends of the rodlike poly(p-phenylene benzobisoxazole) and flexible chain poly(2, 5-benzoxazole) in sulfonic acid solvents
- 1990 Wagner, R. W. Ph.D. Advisor: J. S. Lindsey
Synthetic strategies for the preparation of new porphyrin architectures
- 1990 Zimmerman, J. W. Ph.D. Advisor: B. Imperiali
Investigation of the initial steps of asparagine-linked glycosylation
- 1989 Chen, S.-j. Ph.D. Advisor: G. C. Berry
Physical chemical studies on moderately concentrated solutions of polystyrene in cyclohexane and in carbon disulfide
- 1989 Head-Gordon, M. P. Ph.D. Advisor: J. A. Pople
Direct AB initio molecular orbital methods for the study of large molecules
- 1989 Head-Gordon, T. L. Ph.D. Advisor: C. L. Brooks
Macroscopic and microscopic simulation methods as applied to biological systems
- 1989 Jue, P. K. Ph.D. Advisor: G. D. Patterson
Rayleigh-Brillouin and photon correlation spectroscopy of poly (n-butyl methacrylate) near the glass transition region
- 1989 Kim, S. H. Ph.D. Advisor: G. D. Patterson
Static and dynamic light scattering of poly-(α -methyl styrene) in toluene
- 1989 Kolsky, K. L. Ph.D. Advisor: P. J. Karol
Radiochemical studies of very deep spallation reactions
- 1989 Parker, W. E. Ph.D. Advisor: M. Kaplan
Mechanisms for light charged particle production in the reactions 905 and 1030 MeV (¹²¹Sb+²⁷Al and 550 and 750 MeV (⁸⁶Kr+⁶³Cu
- 1989 Ramaswami, V. Ph.D. Advisor: D. A. Tirrell
A photolabeling technique for the study of polymer-cell surface interactions
- 1989 Shukla, R. B. Ph.D. Advisor: A. A. Bothner-By
Isolation and characterization of locked spin states
- 1988 Atamian, M. Ph.D. Advisor: D. F. Bocian
Effects of peripheral substituents on the redox and spectroscopic properties of metalloporphyrins. I. Model complexes. II. Hemoproteins
- 1988 Boldt, N. J. Ph.D. Advisor: D. F. Bocian
Resonance raman studies of biomolecular systems: I. Chlorophyll model compounds. II. Bacterial photosynthetic reaction centers
- 1988 Findsen, L. A. Ph.D. Advisor: R. R. Birge
Molecular orbital studies of biological molecules
- 1988 Kim, C. S. Ph.D. Advisor: G. C. Berry
Rheological behavior of blends of rodlike and flexible chain polymers in isotropic solution
- 1988 Masthay, M. B. Ph.D. Advisor: R. R. Birge
Molecular orbital and two-photon spectroscopic studies of conjugated pi-systems
- 1988 Stoll, F. P., Jr. Ph.D. Advisor: P. J. Karol
Positronium interactions with isolated species in the vapor phase
- 1987 Babirad, S. A. Ph.D. Advisor: A. J. S. L. K. Sakan
Synthetic and conformational analysis of erythronolide a derivatives and C-1,4-disaccharides
- 1987 Furukawa, R. H. Ph.D. Advisor: G. C. Berry
Dilute solution characterization of rodlike poly [1, 4-phenylene benzobisthiazole] (PBT) and articulated copolymers of PBT and poly [1,4-phenylene benzobisoxazole] (PBO)
- 1987 Munoz, A. Ph.D. Advisor: G. D. Patterson

- Rayleigh-Brillouin spectroscopy of some simple globular liquids
- 1987 Petros, A. M. Ph.D. Advisor: M. Llinás
Proton magnetic resonance studies on the kringle 4 fragment from plasminogen
- 1987 Prementine, G. S. Ph.D. Advisor: D. A. Tirrell
Model copolymer reactions
- 1987 Skoglund, C. M. Ph.D. Advisor: A. A. Bothner-By
Molecular orientation studies using high field NMR
- 1987 Spencer, C. P. Ph.D. Advisor: G. C. Berry
Anisotropic phase polymerization kinetics rodlike polymer poly[benzo(1,2-d:4,5-d')bisthiazole-2, 6-diyl)-1,4-phenylene]
- 1987 Thewes, T. Ph.D. Advisor: M. Llinás
Purification and initial $^1\text{H-NMR}$ investigations of a unique Kringle 5 domain
- 1986 Elliott (ne: Jones), S. A. Ph.D. Advisor: D. A. Tirrell
Model copolymerization reactions: penultimate and complex-participation effects in radical addition to olefins
- 1986 McDaniel, R. F. Ph.D. Advisor: W. H. Waddell
Synthesis and photochemistry of reactive organic compounds: Part 1. Octatetraene and its deuterated analogue. Part 2. Phenyl azide and its substituted derivatives
- 1986 Moses, D. J. Ph.D. Advisor: M. Kaplan
Studies of helium-4/proton emission in fission and deeply inelastic reactions of 485-MeV Fe(56) with Au(197)
- 1986 Park, J. O. Ph.D. Advisor: G. C. Berry
Viscoelastic behavior of polystyrene solutions in a good solvent and in a theta solvent
- 1986 Tobin, M. J. Ph.D. Advisor: P. J. Karol
Intermediate energy scallation studies by activation techniques
- 1986 Wei, C. C.-H. Ph.D. Advisor: G. C. Berry
Study of dilute solution properties of rod and rodlike polymers
- 1985 Meitz, D. W. Ph.D. Advisor: G. C. Berry
Complicated rheological properties of a suspension of crosslinked polystyrene particles in a polystyrene fluid and a rheological investigation
- 1985 Murray, L. P. Ph.D. Advisor: R. R. Birge
Two-photon spectroscopy of biological molecules
- 1985 Ramprasad, D. Ph.D. Advisor: C. H. V. Dyke
A study of the reactions of organosilicon-substituted alcohols and amines with cationic platinum (II) carbonyl complexes
- 1985 Smith, D. A. Ph.D. Advisor: A. K. N. H. K. Sakan
Studies on the intramolecular diels-alder reaction of internally activated trienes
- 1985 Turek, A. B. Ph.D. Advisor: D. A. Tirrell
Interaction of ionene polymers with dipalmitoylphosphatidylglycerol bilayers
- 1984 Abrams, L. Ph.D. Advisor: W. E. Brown
Some studies on the interaction of IgG and Clq
- 1984 Feilchenfeld, N. B. Ph.D. Advisor: W. H. Waddell
Pulsed-laser and cryogenic spectroscopic investigations on intermediates formed in the photo-initiated autocatalytic chain decomposition (PACD) reaction of phenyl azide and phenyl isocyanate
- 1984 Gayathri, C. Ph.D. Advisor: A. A. Bothner-By
Molecular orientation effects in high fields NMR of isotropic solutions
- 1984 Peterson, M. W. Ph.D. Advisor: R. M. Richman
Photochemical and photothermal studies of bis(dibenzoylmethanato)-dioxomolybdenum, bis (diethyldithiocarbamate) doxomolybdenum, u-oxo-bis ((tetraphenylpophinato) iron (III)) and u-oxo-bis ((tetra (4-carboxy) phenylporphinato) iron (III))
- 1984 Shih, J.-S. Ph.D. Advisor: D. A. Tirrell
Synthesis of new reactive polyethers and polysulfides
- 1984 Takigawa, D. Y. Ph.D. Advisor: D. A. Tirrell
Physical studies of polymer-phospholipid mixtures
- 1983 Burchfield, D. Ph.D. Advisor: G. C. Berry
The photochemistry of the u-oxo-bis-(Pentaamineruthenium (III)) (4+) ion in aqueous solution
- 1983 Frisch, M. J. Ph.D. Advisor: J. A. Pople
Studies of chemical reactions using moller-plesset theory
- 1983 Tsai, H.-H. Ph.D. Advisor: G. C. Berry
Phase equilibrium and rheological studies of solutions of rodlike, articulated polymers and their mixtures
- 1982 Go, C. L. Ph.D. Advisor: W. H. Waddell
The photoinitiated decomposition of phenyl azide and its derivatives: evidence for a chain reaction

- 1982 Lecomte, J. Ph.D. Advisor: M. Llinás
Magnetic resonance studies of crambin and homologous thionins and toxins
- 1982 Zussman, M. P. Ph.D. Advisor: D. A. Tirrell
Poly (chloromethylthiirane)-poly (3-chlorothietane): an example of backbone assisted reactivity and dynamic isomerism in polymeric chloroalkyl sulfides
- 1981 Bose, K. Ph.D. Advisor: A. A. Bothner-By
Studies on the solution conformations of parvalbumin
- 1981 Denys, L. Ph.D. Advisor: A. A. Bothner-By
Magnetic resonance studies on the conformational diversity of bradykinin at 600 MHz
- 1981 Krishnan, A. Ph.D. Advisor: M. Kaplan
A Mossbauer spectroscopic study of magnetic relaxation effects in ferric bromide hexahydrate
- 1981 Mullins, O. C. Ph.D. Advisor: M. Kaplan
Perturbed angular correlation studies of electric field gradients in metalloporphyrins
- 1981 Venkatraman, S. S. Ph.D. Advisor: G. C. Berry
Studies on the thermodynamic rheological, and rheo-optical properties of a rigid-rod polymer in solution
- 1981 Whiteside, R. A. Ph.D. Advisor: J. A. Pople
Small homonuclear clusters of beryllium and boron
- 1980 Clark, J. L. Ph.D. Advisor: A. A. Caretto Jr.
A radiochemical study of the medium energy pion double charge exchange reactions: $[^{209}\text{Bi}(\text{P}i^+, \text{P}i^- \text{ x n})^{(209-x)} \text{At}]$
- 1980 Lee, K.-S. Ph.D. Advisor: R. L. Kay
A radio-frequency moving-boundary detector and its application
- 1980 Mokhtarzadeh, M. Ph.D. Advisor: R. R. Rothfus
Dynamic modeling of low thermal gradient evaporators and condensers
- 1980 Raghavachari, K. Ph.D. Advisor: J. A. Pople
Electron correlation theories and their application to the study of carbocations
- 1980 West, J. L. Ph.D. Advisor: W. H. Waddell
The influence of methyl substitution on the photochemistry of retinal
- 1979 Binkley, J. S. Ph.D. Advisor: J. A. Pople
Møller-Plesset electron studies of atoms and small molecules
- 1979 Cotts, D. B. Ph.D. Advisor: G. C. Berry
Polymerization kinetics of the rodlike polymer poly-[benzo(1,2-D:5,4-D') bisoxazole-2,6-diyl]-1, 4-phenylene (PBO)
- 1979 Mance, A. M. Ph.D. Advisor: C. H. V. Dyke
Synthesis and characterization of some chromium tricarbonyl complexes of phenylsilanes
- 1979 Metzger, P. C. Ph.D. Advisor: G. C. Berry
Effects of aggregation and electrostatic repulsions on solution properties of flexible and rodlike polymers
- 1979 Poper, J. A. Ph.D. Advisor: J. A. Pople
Møller-Plesset electron correlation studies of atoms and small molecules
- 1979 Shiba, C. F. Ph.D. Advisor: W. H. Waddell
Synthesis and photochemistry of some platinum (II)-alkoxycarbonyl complexes
- 1978 Aromatorio, D. K. Ph.D. Advisor: D. J. Hartshorne
Calcium regulation in smooth muscle: isolation and characterization of the myosin light chain kinase
- 1978 Epstein, J. Ph.D. Advisor: R. F. Stewart
Model studies for the analysis of scattered intensities from X-ray and high energy electron diffraction
- 1978 Farrell, M. O. Ph.D. Advisor: L. J. Boucher
Preparation, characterization and catalytic activity of some organometallic rhodium(I) catalysts supported on polyorganosiloxane polymers
- 1978 Hanusa, L. H. Ph.D. Advisor: W. L. Mock
A new synthesis of B- ϵ -unsaturated ketones and nitriles. A preparation and acylation of allylic alkyl mercury reagents
- 1978 Lin, C.-C. Ph.D. Advisor: T. P. Kohman
Comparison of Sm-Nd and U-Pb dating methods in rare earth and associated minerals from pegmatites
- 1978 Meyers, M. C. S. Ph.D. Advisor: L. J. Boucher
Personalized System of Instruction (PSI) in general chemistry at a small college
- 1977 Aksoy, M. Ph.D. Advisor: D. J. Hartshorne
Regulation of Mg $^{++}$ -ATPase and contraction in smooth muscle
- 1977 Doraiswamy, K. C. Ph.D. Advisor: R. B. Carlin
Some ring opening reactions of bicyclopropyl and related compounds
- 1977 Hager, B. L. Ph.D. Advisor: G. C. Berry

- Intermolecular interactions in moderately concentrated polymer solutions: a study of polystyrene in several solvents by viscometry and light scattering
- 1977 Seamon, K. Ph.D. Advisor: A. A. Bothner-By
Magnetic resonance studies on calcium binding protein
- 1976 Coe, C. G. Ph.D. Advisor: L. J. Boucher
Synthesis and characterization of some manganese (III) and manganese (III,IV) Schiff base complexes
- 1976 Dhawan, B. Ph.D. Advisor: P. L. Southwick
Synthesis of 4, 6-diaminopyrazolo (3,4-d) pyrimidine derivatives. Synthesis of 1-amidino-4-arylpiperazines and a convenient preparation of monoaroylpiperazine hydrochlorides
- 1976 Harina, B. M. Ph.D. Advisor: A. A. Bothner-By
NMR and fluorescence studies of a Hapten-antibody interaction
- 1976 Isildar, M. Ph.D. Advisor: R. H. Schuler
Studies of electron scavenging and fragmentation processes in the radiolysis of hydrocarbons
- 1976 Klobuchar, R. L. Ph.D. Advisor: P. J. Karol
Positronium annihilation probe for reaction kinetics: results for hydrogen atoms, oxygen-argon, and ozone-chloro-fluorocarbon systems
- 1976 Poo, W.-J. H. Ph.D. Advisor: D. J. Hartshorne
Studies on the control mechanism of skeletal muscle: relative movement between actin and tropomyosin
- 1976 Wilson, E. J. Ph.D. Advisor: M. Kaplan
Perturbed angular correlation studies of chemically generated electric quadrupole interactions
- 1976 Yates, M. A. Ph.D. Advisor: A. A. Caretto Jr.
A systematic study of proton- and alpha-induced simple reactions
- 1976 Zemel, H. Ph.D. Advisor: R. W. Fessenden
Electron spin resonance and pulse radiolysis studies of the mechanism and kinetics of SO₄⁻ reactions with aromatic compounds in aqueous solution
- 1975 Driska, S. P. Ph.D. Advisor: D. J. Hartshorne
Calcium control of smooth muscle contractile proteins
- 1975 Keenan, M. J. Ph.D. Advisor: R. B. Carlin
A study of alkyl migrations in dienone-phenol and analogous systems
- 1975 Ku, T. H.-H. Ph.D. Advisor: P. J. Karol
Radiochemical investigations of the influence of target composition on alpha spallation of molybdenum isotopes
- 1975 Liu, S.-c. Ph.D. Advisor: C. R. Worthington
Sarcoplasmic reticulum membranes: biochemical and low-angle X-Ray diffraction studies
- 1975 Lynch, K. P. Ph.D. Advisor: J. V. Michael
Lyman-[Greek symbol alpha] absorption photometry at high pressure and atom density: kinetic results for hydrogen atom recombination. Part II. Di
- 1975 Miro, N. D. Ph.D. Advisor: C. H. V. Dyke
A study of some silicon-functional silyl and silylmethyl transition metal complexes
- 1975 Rohm, B. J. Ph.D. Advisor: L. J. Boucher
The base hydrolysis of some manganese porphyrin complexes
- 1975 Shields, G. D. Ph.D. Advisor: L. J. Boucher
Coordination chemistry of anchored silica compounds
- 1975 Thomas, T. J. Ph.D. Advisor: R. B. Carlin
I. The Fischer indole reaction of cyclohexanone 2, 6-dimethylphenyl-hydraxone. II. The low temperature ozonolysis of 2, 8-dimethyl-7-phenyl-6-azabicyclo (3.2.1.) octa-2, 6-diene-8-carboxylic acid and its esters
- 1975 Verma, N. C. Ph.D. Advisor: R. W. Fessenden
Time resolved ESR spectroscopy of transient free radicals produced by the pulse radiolysis of aqueous solutions
- 1974 Aufderheide, B. E. Ph.D. Advisor: R. F. Sprecher
Synthesis, boron-11 shift assignments and correlations for halogenated decaboranes, carboranes and derivatives, and thermal re-arrangements of 1-phenyl-3-fluoro-o-carborane
- 1974 Bently, J. J., Jr. Ph.D. Advisor: R. F. Stewart
Charge density analysis of coherent X-ray scattering by diatomic molecules
- 1974 Beres, J. J. Ph.D. Advisor: L. E. Alexander
Crystal structure analysis of two cyclic urethane oligomers
- 1974 Cowfer, J. A. Ph.D. Advisor: J. V. Michael
I. Experimental and theoretical investigation of nonequilibrium kinetic isotope effects in chemically activated ethyl radicals.
II. A kinetic investigation of the reactions of atomic hydrogen and deuterium with silane and mono-, di-, and trimethylsilane conducted in a discharge flow system with mass spectrometric detection

- 1974 Maciunas, G. M. Ph.D. Advisor: D. L. Weaver
Structural studies of some transition metal nitrosyl complexes
- 1974 McClure, M. D. Ph.D. Advisor: D. L. Weaver
Structural studies of some transition metal triphenylcyclopropenyl complexes
- 1974 Schwab, T. C. Ph.D. Advisor: J. V. Michael
A kinetic investigation of the thermal dissociation of molecular hydrogen in a shock tube using a technique of Lyman-alpha photometric detection
- 1974 Singh, R. K. Ph.D. Advisor: P. K. McCurry
Part I. Total synthesis of -Vetivone and Spiro-sesquiterpenoids via novel spiroannulation reactions. Part II. Re-examination of 2, 5-Diketone cyclization and synthesis of Cis-Jasmone and its analogs via the Retroaldol-Aldol pathway
- 1973 Ahumada, J. J. Ph.D. Advisor: J. V. Michael
The usefulness of the mercury photosensitized decomposition of molecular hydrogen as a source of hydrogen atoms in chemical kinetics
- 1973 Amarnath, V. Ph.D. Advisor: P. L. Southwick
Synthesis of 6, 7-dihydro-5H-pyrrolo[3,4-d] pyrimidine derivatives of antimalarial interest
- 1973 Bogan, D. J. Ph.D. Advisor: C. W. Hand
Kinetics of the reaction of ethylene oxide with O₃P atoms
- 1973 Bulkowski, J. E. Ph.D. Advisor: C. H. V. Dyke
The synthesis and study of some organofluorosilanes and germanes and certain o-alkyl transition metal derivatives containing silicon
- 1973 Chawla, O. P. Ph.D. Advisor: R. W. Fessenden
An electron spin resonance study of the mechanism and kinetics of photochemical reactions in aqueous solutions
- 1973 Curtiss, L. A. Ph.D. Advisor: J. A. Pople
A study of hydrogen-bonded complexes using ab initio molecular orbital theory
- 1973 Daniel, J. L. Ph.D. Advisor: D. J. Hartshorne
The role of sulfhydryl groups in the regulation of muscle activity
- 1973 Frishberg, M. D. Ph.D. Advisor: P. L. Southwick
Synthesis of folic acid analogues in the pyrrolo [3, 4-g] pteridine series
- 1973 Hariharan, P. C. Ph.D. Advisor: J. A. Pople
A study of the use of polarization functions in molecular orbital calculations on organic compounds
- 1973 Keil, D. G. Ph.D. Advisor: J. V. Michael
An investigation of some gas phase reactions of hydrogen atoms with unsaturated hydrocarbons and some isotopic and mixed isotopic variations by mass spectrometric detection in a discharge flow system: absolute rate determinations and mechanism investigations
- 1973 Kite, G. F. Ph.D. Advisor: C. J. Grundmann
Studies of the chemistry of nitrile oxides and related compounds
- 1973 Lindsey, J. J. Ph.D. Advisor: P. L. Southwick
The chemistry of some nitro enols and nitro enol ethers: 1-cyclohexyl-4-nitro-2-oxo-3-pyrrolin-3-yl as a protecting group for amino acids
- 1973 Manocha, A.-J. S. Ph.D. Advisor: W. G. Fateley
Far-infrared studies of internal rotation about single bonds
- 1973 Murphy, J. R. Ph.D. Advisor: P. L. Southwick
Tetracyclic analogues of tryptamine: derivatives of the pyrrolo [3', 4': 4,5] pyrrolo [3, 4-b] indole ring system
- 1973 Urbon, J. A. Ph.D. Advisor: A. A. Caretto Jr.
A study of the reaction mechanisms involved in the formation of ²⁴Na from ⁷⁵As at high proton bombarding energies
- 1972 Balaram, P. Ph.D. Advisor: A. A. Bothner-By
A proton magnetic resonance study of the binding of lysine-vasopressin and peptide analogs to bovine neurophysin-II
- 1972 Dufresne, R. F. Ph.D. Advisor: P. L. Southwick
Thermal cyclizations of 3-(2-arylhydrazino)-3-pyrroline derivatives: a study of the Fischer indole synthesis
- 1972 Finch, M. A. Ph.D. Advisor: C. H. V. Dyke
The synthesis and study of some selected organosilyl fluorides, fluorosilyl isocyanates, and mixed silyl germyl chalcogen compounds
- 1972 Hartman, M. E. Ph.D. Advisor: A. K. Colter
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- 1972 Herrington, D. R. Ph.D. Advisor: L. J. Boucher
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- 1972 Huey, J. M. Ph.D. Advisor: T. P. Kohman
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- 1972 Laroff, G. P. Ph.D. Advisor: R. W. Fessenden
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- 1972 Lathan, W. A. Ph.D. Advisor: J. A. Pople
Structures and stabilities of small molecules using AB INITIO Lcao-Mo theory
- 1972 Marcus, L. H. Ph.D. Advisor: C. H. V. Dyke
An investigation of alkali metal derivatives of germane and some new fluorosilyl compounds
- 1972 Molecke, M. A. Ph.D. Advisor: A. A. Caretto Jr.
A differential recoil and angular distribution study of several (p, pxn) and (p, xn) reactions of 133 Cs with 550 MeV protons
- 1972 Nugent, R. M., Jr. Ph.D. Advisor: W. L. Mock
Stereochemistry of cycloadducts of conjugated dienes and sulfinylamides, and aspects of mechanisms regarding five- and six-membered ring fo
- 1972 Obenauf, R. H. Ph.D. Advisor: C. W. Hand
The reaction of dicyanoacetylene with atomic oxygen and active nitrogen studies in a flow system with mass spectrometric detection
- 1972 Ramarao, M. Ph.D. Advisor: A. A. Bothner-By
Study of rotational isomerism in acyclic ketones by proton magnetic resonance spectroscopy
- 1972 Soylemez, T. Ph.D. Advisor: R. H. Schuler
The radiation chemistry of aqueous solutions of aliphatic hydrocarbons
- 1972 Srinivasan, K. R. Ph.D. Advisor: R. L. Kay
The pressure dependence of the dielectric constant of polar liquids
- 1972 Watt, C. I. F. Ph.D. Advisor: W. L. Mock
The synthesis of some intermediates directed toward the preparation of pentacyclo [5.3.2.0(superscript 4, 11).0(superscript 10,8)] dodecatriene
- 1972 Williams, R. A. Ph.D. Advisor: A. A. Caretto Jr.
Transfer vs. compound nuclear mechanisms in the reaction of heavy ions with medium-mass targets
- 1971 Boynton, W. V. Ph.D. Advisor: E. J. Green
An investigation of the thermodynamics of calcite-rhodochrosite solid solutions
- 1971 Hehre, W. J. Ph.D. Advisor: J. A. Pople
The development of Gaussian basis sets for use in AB Initio molecular orbital calculations on organic molecules
- 1971 Infelta, P. P. Ph.D. Advisor: R. H. Schuler
Some considerations on ion recombination process in the radiolysis of hydrocarbons: application to studies at low temperature
- 1971 Kostelnik, R. J. Ph.D. Advisor: A. A. Bothner-By
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- 1971 Lloyd, R. V. Ph.D. Advisor: D. E. Wood
EPR study of free readicals in an adamantane matrix
- 1971 Miller, D. P. Ph.D. Advisor: J. A. Pople
AB initio calculations of some first and second order properties
- 1971 Pribadi, K. S. Ph.D. Advisor: R. L. Kay
Ionic mobilities at high pressures
- 1971 Williams, L. F. Ph.D. Advisor: A. A. Bothner-By
Nuclear magnetic resonance studies of nematic phase solutions of hexafluorobenzene 3, 3, 3-trifluoropropene and propene
- 1971 Yeh, C.-T. Ph.D. Advisor: J. V. Michael
The Lyman(alpha)photometric measurements of the steady-state hydrogen atom concentrations from the mercury photosensitized decomposition of molecular hydrogen
- 1970 Ammons, V. G. Ph.D. Advisor: G. C. Berry
Determination of synthesis parameters and molecular characterization of polybisbenzimidazo-benzophenathroline-dione
- 1970 Klijanowicz, J. E. Ph.D. Advisor: P. L. Southwick
The chemistry of certain 3-hydroxypyrazolidine and 3-hydroxy-pyrazoline derivatives
- 1970 Kuo, A. T.-W. Ph.D. Advisor: R. J. Kurland
Nuclear magnetic resonance studies of cupric acetate dimer exchange with bulk acetic acid
- 1970 McKenna, A. L., III Ph.D. Advisor: A. K. Colter
Chemical behavior of charge-transfer complexes: an investigation of donor catalytic effectiveness in the acetolysis of 2,4,7-Trinitro-9-Fluorenyl, p-Toluenesulfonate
- 1970 Osborne, D. M. Ph.D. Advisor: J. V. Michael
Absolute rate constants and relative third body effects for the reactions: H + C2H4, H + C2D4, D + C2D4, H + C2H2, H + O2, and H + NO

- 1970 Sullivan, D. S., III Ph.D. Advisor: P. L. Southwick
Reactions in angularly substituted pyrrolo [3, 4-b] indoles
- 1970 Tuazon, E. C. Ph.D. Advisor: W. G. Fateley
Vibrational studies
- 1970 Tuggle, R. M. Ph.D. Advisor: D. L. Weaver
Structural studies of triphenylcyclopropenium transition metal complexes
- 1969 Barker, J. R. Ph.D. Advisor: J. V. Michael
Experimental determination of the oscillator strength of the $2P\ 3/2, 1/2 \leftarrow 2S\ 1/2$ transition of atomic hydrogen; Absolute rate constants for the reaction $H + C_2H_4$ and $H + C_2D_4$.
- 1969 Bastian, E. J., Jr. Ph.D. Advisor: R. J. Kurland
Ionization and solvent effects on one-bond carbon-13 proton coupling constants in organic acids
- 1969 Dobosh, P. A. Ph.D. Advisor: J. A. Pople
A semi-empirical orbital theory with intermediate neglect of differential overlap (Indo) and its application to the calculation of isotropic hyperfine coupling constants
- 1969 Hooper, J. B. Ph.D. Advisor: R. B. Carlin
I. The reaction of benzaldehyde with indole in aqueous media. II. The base-induced rearrangements of 3-bromo-2-phenyl-3a, 5-dimethyl-3a, 4, 7, 7a-tetrahydro [3H] pseudoindoline-4
- 1969 Kersting, R. J. Ph.D. Advisor: A. K. Colter
An investigation on the effect of molecular complex formation upon acid-base equilibria by a kinetic method
- 1969 O'Connor, J. G. Ph.D. Advisor: P. L. Southwick
The chemistry of the 3-hydroxypyrazolidine system: 5-alkyl-3-aryl-6a-hydroxy-6-oxooctahydropyrrolo [3, 4-c] pyrazoles
- 1969 Osband, A. N. Ph.D. Advisor: P. L. Southwick
Carboxylic acids and lactones derived from 2, 3-dioxopyrrolidines
- 1969 Ostlund, N. S. Ph.D. Advisor: J. A. Pople
Finite perturbation theory with applications to the calculation of nuclear spin coupling constants
- 1969 Pietrzak, T. Ph.D. Advisor: D. E. Wood
Electron spin resonance studies
- 1969 Snyder, C. A. Ph.D. Advisor: P. L. Southwick
Compounds in the pyrrolo [3, 4-d] pyrimidine series and compounds in the dipyrrolo [3, 4-b: 3', 4'e] pyridine series
- 1969 Stalker, A. C. Ph.D. Advisor: A. A. Caretto Jr.
A recoil study of (p, n) and (p, 2n) reactions for proton bombarding energies of 100 to 400 MeV
- 1969 Tirman, A. Ph.D. Advisor: J. P. Fugassi
The rate of anodic polarization of iron and iron alloys
- 1969 Turkos, R. C. Ph.D. Advisor: A. K. Colter
Chemical behavior of charge-transfer complexes. Investigation of the catalytic effects of pi - acceptors on the rate of aromatic donors
- 1969 Unangst, P. C. Ph.D. Advisor: P. L. Southwick
Imidates and amidines containing a conjugated acetylenic bond: some reactions of amines with derivatives of o-chlorophenylpropionic acid
- 1969 Viswanathan, N. Ph.D. Advisor: C. H. V. Dyke
A study of some new silicon, germanium and tin derivatives
- 1969 Yevich, J. P. Ph.D. Advisor: P. L. Southwick
Synthesis of tryptamine analogs containing the pyrrolo [3, 4-b] indole and pyrrolo [3', 4':4, 5] pyrrols [3, 4-b] indole ring systems
- 1968 Bosch, H. W. Ph.D. Advisor: R. B. Carlin
The structure of the bromination product of 2-phenyl-3a, 5-dimethyl 3a, 4, 7, 7a - tetrahydro pseudoindolone-4 and its derivatives
- 1968 Buben, D. Ph.D. Advisor: A. K. Colter
An investigation of molecular complexing and its effect on acid-base equilibria by a potentiometric method
- 1968 Gedansky, L. M. Ph.D. Advisor: L. G. Hepler
Thermodynamic considerations
- 1968 Gibbon, G. A. Ph.D. Advisor: C. H. V. Dyke
Synthesis and study of some new germanium hydride derivatives
- 1968 Goldberg, R. N. Ph.D. Advisor: L. G. Hepler
Thermodynamic investigations
- 1968 Kifer, E. W. Ph.D. Advisor: C. H. V. Dyke
Some selected synthetic and calorimetric studies on the chemistry of group IV elements
- 1968 Larson, J. W. Ph.D. Advisor: L. G. Hepler

- Thermochemical studies in aqueous solutions and aqueous mixtures
- 1968 Ray, G. J. Ph.D. Advisor: R. J. Kurland
Carbon-13 nuclear magnetic resonance spectroscopy of triarylcarbonium ions and triarylcarbinols
- 1968 Reith, R. A. Ph.D. Advisor: A. K. Colter
The stereochemistry of 1, 3-hydride shifts in bicyclic systems
- 1968 Schall, R. F., Jr. Ph.D. Advisor: A. A. Caretto Jr.
Simple nuclear reactions on the separated isotopes of tellurium at 300 MeV
- 1968 Wang, J. T. Ph.D. Advisor: C. H. V. Dyke
Synthesis and study of some new silicon and germanium hydride derivatives
- 1968 Welsh, D. A. Ph.D. Advisor: P. L. Southwick
The chemistry of a 4-nitro-2, 3-dioxypyrrolidine
- 1967 Brown, A. P. Ph.D. Advisor: M. B. Rubin
The absence of long-range conformational transmission effects in B-ring substituted 20-ketopregnanes
- 1967 Emrich, W. O. Ph.D. Advisor: P. L. Southwick
Selective reduction of polyfunctional pyrrolidine derivatives
- 1967 Fink, T. E. Ph.D. Advisor: P. L. Southwick
Diazepine derivatives from flavones and chromones
- 1967 Gordon, M. S. Ph.D. Advisor: J. A. Pople
Applications of approximate molecular orbital theory to organic molecules
- 1967 Kiely, F. M. Ph.D. Advisor: A. A. Caretto Jr.
Detailed study of some simple reactions on light-A nuclei
- 1967 Miller, R. E., Jr. Ph.D. Advisor: A. K. Colter
Electronic and steric effects in E2 reactions of aryl 2-pentyl sulfones
- 1967 Nieckarz, A. F. Ph.D. Advisor: R. B. Carlin
A study of trimethyl- and dimethylphenylhydrazones of two five-membered ring ketones in the Fischer reaction
- 1967 Ronan, Z. Ph.D. Advisor: B. J. Mair
Composition of the branched paraffin-cyclo-paraffin portion of petroleum, 140' to 180' D
- 1967 Walker, D. M. Ph.D. Advisor: P. L. Southwick
Reactive intermediates in the Fischer indole synthesis
- 1967 Weber, L. Ph.D. Advisor: J. P. Fugassi
The sorption of polar vapors by polynuclear aromatic quinones and hydrocarbons
- 1966 Biordi, J. C. Ph.D. Advisor: G. J. Mains
The flash photolysis of HI in the presence of deuterated hydrocarbons
- 1966 Church, L. B. Ph.D. Advisor: A. A. Caretto Jr.
A study of (p,xn) reactions
- 1966 Davis, D. G. Ph.D. Advisor: R. J. Kurland
Carbon-13 nuclear magnetic resonance of paramagnetic iron group cyanide complexes
- 1966 Fitzgerald, J. A. Ph.D. Advisor: P. L. Southwick
The synthesis of compounds in the pyrrolo (3,4-d) pyrimidine and pyrrolo (3,4-g) pteridine series: synthetic studies leading to a 4-nitro-2, 3-dioxypyrrolidine
- 1966 Goel, O. P. Ph.D. Advisor: R. B. Carlin
Medium effects on methyl migration during the Fischer indole synthesis
- 1966 Gusik, F. F. Ph.D. Advisor: A. K. Colter
Chemical behavior of charge-transfer complexes: synthesis and acetolysis of some polynitrofluorenyl and polynitrobenzhydryl P- toluenesulfonates
- 1966 Hui, S. H. Ph.D. Advisor: A. K. Colter
Charge-transfer complexes in acetolysis of 2-nitro- and 2,4,7- trinitro-9-fluorenyl p-toluene-sulfonates.: I. a survey of some aryl ether donors.: II. Stereochemical consequences of charge-transfer complexing
- 1966 La Barge, R. G. Ph.D. Advisor: G. J. Mains
Photochemical additions to camphorquinone
- 1966 Lewis, D. Ph.D. Advisor: G. J. Mains
The photolysis of methyl iodide
- 1966 Nieckarz, W. J., Jr. Ph.D. Advisor: A. A. Caretto Jr.
Proton induced reactions on the separated isotopes of cadmium from 70 to 400 mev
- 1966 Segal, G. A. Ph.D. Advisor: J. A. Pople
Approximate self-consistent molecular orbital theory
- 1966 Sivaramakrishnan, P. Ph.D. Advisor: R. B. Carlin

- I. The Fischer reactions of cyclohexanone 2, 6-diethyl and 2, 6-diethyl-4-methylphenylhydrazones. II. The dione-phenol rearrangement as a device for studying migratory aptitudes
- 1966 Tiernan, T. O. Ph.D. Advisor: G. J. Mains
Part I. Radiation chemistry of monosilane. Part II. Mass spectrometric investigations of ion-molecule reactions in monosilane
- 1966 Vaux, J. E., Jr. Ph.D. Advisor: M. B. Rubin
C-ring modifications of 20 ketopregnanes
- 1966 Wu, A.-J. A. Ph.D. Advisor: F. O. Ellison
Semiempirical studies of firstrow diatomic hydrides, H₂O₂, and HO₂
- 1965 Dedinas, J. Ph.D. Advisor: G. J. Mains
Radiation chemistry of tetramethylsilane
- 1965 Fitzgerald, B. M. Ph.D. Advisor: P. L. Southwick
Ketones and enols in the pyrrolidine series: Studies of the selectivity and stereochemistry of hydride reductions
- 1965 Glover, A. D. Ph.D. Advisor: G. J. Mains
Photochemical dimerization and cycloaddition reactions of conjugated steroid dienones
- 1965 Hassell, J. A. Ph.D. Advisor: J. P. Fugassi
Sorption of alcohols and water on polycyclic aromatic hydrocarbons with polar functionalities
- 1965 Hopkins, H. P., Jr. Ph.D. Advisor: L. G. Hepler
Aqueous solution thermochemistry of weak electrolytes
- 1965 Millero, F. J., Jr. Ph.D. Advisor: L. G. Hepler
Thermodynamic investigations
- 1965 Patel, J. C. Ph.D. Advisor: F. O. Ellison
Application of diatomics-in-molecules theory to three and four atom systems
- 1965 Pfeiffer, G. V. Ph.D. Advisor: F. O. Ellison
A diatomics-in-molecules study of the configurations and vibrations of some polyatomic systems
- 1965 Schuster, I. I. Ph.D. Advisor: A. K. Colter
Studies related to conformations of triarylcarbonium ions
- 1965 Wilson, N. K. Ph.D. Advisor: R. J. Kurland
Nuclear magnetic resonance studies of intramolecular hydrogen bonding
- 1964 Choby, E. G., Jr. Ph.D. Advisor: P. L. Southwick
Compounds in the pyrrolo [3,4-e]-1,4-Dizepine series
- 1964 Cressy, P. J., Jr. Ph.D. Advisor: T. P. Kohman
Cosmogenic radionuclides in stone meteorites
- 1964 Huff, N. T. Ph.D. Advisor: F. O. Ellison
A diatomics-in-molecules study of some three and four atom systems in reaction and vibration
- 1964 Huffman, A. M. Ph.D. Advisor: R. B. Carlin
Rearrangement of 2, 2'-Polymethylene dioxyhydrazobenzenes
- 1964 Lee, S. K. Ph.D. Advisor: P. L. Southwick
Compounds in the pyrrolo [3,4-b] Indole series: the indoline intermediates in the Fischer Indole synthesis
- 1964 Magistro, A. J. Ph.D. Advisor: R. B. Carlin
An N¹⁵ tracer study of the Fischer reaction of acetophenone 2,6-xyllylhydrazone: the Fischer indole reaction of α -tetralone 2
- 1964 McKelvey, D. R. Ph.D. Advisor: A. K. Colter
Electronic effects in E2 reactions
- 1964 Milliman, G. E. Ph.D. Advisor: P. L. Southwick
Nuclear magnetic resonance studies of stereo-chemistry and tautomerism
- 1964 Sarma, T. P. Ph.D. Advisor: T. P. Kohman
Dating of marine sediments by ionium and protactinium methods
- 1964 Snow, A. M., Jr. Ph.D. Advisor: R. B. Carlin
Evidence of 1, 4-methyl migration during the Fischer reaction of cyclohexanone 4-ethyl-2, 6-xyllylhydrazone
- 1964 Wise, W. B. Ph.D. Advisor: R. J. Kurland
Nuclear magnetic resonance spectra and barriers to internal rotation of 4-4'-disubstituted biphenyls
- 1964 Yew, F. F.-H. Ph.D. Advisor: B. J. Mair
Isolation and identification of C¹³ to C¹⁷ alkyl naphthalenes, alkyl biphenyls and alkyl dibenzofurans from the 275 to 305°C dinuclear aromatic
- 1964 Zwickowits, P. M. Ph.D. Advisor: M. B. Rubin
Photochemical reactions of 9, 10-phenanthrenequinone
- 1963 Barnewell, J. M. Ph.D. Advisor: B. J. Mair

Composition of the mononuclear aromatic material in the light gas oil range, low refractive index portion, 230 [degrees] - 305 [degrees] C

- 1963 Carter, R. P., Jr. Ph.D. Advisor: R. R. Holmes
The heats of reaction of antimony pentachloride with alkyl substituted pyridines. Part II. A proton nuclear magnetic resonance investigation of methylaminophosphines and their 1:1 triethylborane adducts
- 1963 Clemens, L. M. Ph.D. Advisor: A. K. Colter
Medium effects in the racemization of optically active biphenyls
- 1963 Fischer, L. C. Ph.D. Advisor: G. J. Mains
The flash photolysis of diethyl ketone and diethyl mercury
- 1963 Hauk, P. Ph.D. Advisor: R. G. Parr
A one-center approach to molecular electronic energies
- 1963 Hips, G. E. Ph.D. Advisor: M. B. Rubin
Photochemical dimerization of 4, 6-diene-3-keto steroids
- 1963 Ho, H. C. Ph.D. Advisor: L. G. Hepler
Thermodynamic investigations
- 1963 Hofmann, G. H. Ph.D. Advisor: P. L. Southwick
Compounds in the Pyrrolo [3,4-d] Pyrimidine series
- 1963 Hu, A. T. Ph.D. Advisor: L. G. Hepler
Calorimetric investigations
- 1963 Kaye, J. H. Ph.D. Advisor: T. P. Kohman
Cosmogenic X-Ray and B-Ray emitters in iron meteorites
- 1963 Mayer, T. J. Ph.D. Advisor: B. J. Mair
Composition of the dinuclear aromatics, C 12 to C 14, in the light gas oil fraction of petroleum
- 1963 Musso, R. C. Ph.D. Advisor: A. K. Colter
The neighboring cyclopropane ring in solvolytic reactions
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An infrared study of interaction between certain secondary amines and other polar compounds
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Structural studies on some amino compounds derived from flavone
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Part I. Acid properties of triply connected phosphorus; Part II. Reactions of dimethylaminomethylphosphines with boron trihalides and trialkyls
- 1961 Wang, S. S.-N. Ph.D. Advisor: A. K. Colter
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Part A: Thermochemistry of selected cyclomono-olefin hydrocarbons. Part B: Heat of isomerization of the CIS and transisomers of 9-methyldec
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- 1959 MacFarlane, R. D. Ph.D. Advisor: T. P. Kohman
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Three studies in quantum chemistry
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- 1957 Casanova, J. Ph.D. Advisor: P. L. Southwick
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- 1956 Bartolo, H. F. Ph.D. Advisor: F. D. Rossini
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- 1949 Sadler, M. S. D.Sc. Advisor: J. P. Fugassi
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- 1948 Fisher, E. E. D.Sc. Advisor: R. B. Carlin
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- 1948 Forshey, W. O. D.Sc. Advisor: R. B. Carlin
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- 1947 Cross, R. P. D.Sc. Advisor: G. Stempel
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- 1938 Eagle, S. D.Sc. Advisor: J. C. Warner
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- 1938 McKinney, D. S. D.Sc. Advisor: J. C. Warner
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- 1938 Orning, A. A. D.Sc. Advisor: G. Stempel
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- 1937 Ablard, J. E. D.Sc. Advisor: J. C. Warner
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- 1979 Poper, J. A. Ph.D. Advisor: J. A. Pople
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- 1992 Procyk, A. D. Ph.D. Advisor: D. F. Bocian
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- 1980 Mokhtarzadeh, M. Ph.D. Advisor: R. R. Rothfus
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- 1962 Blossey, E. C. Ph.D. Advisor: M. B. Rubin
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- 1967 Brown, A. P. Ph.D. Advisor: M. B. Rubin
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- 1985 Smith, D. A. Ph.D. Advisor: A. K. N. H. K. Sakan
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- 1971 Infelta, P. P. Ph.D. Advisor: R. H. Schuler
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- 1936 McAteer, J. H., II D.Sc. Advisor: H. Seltz
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