

Houston Byrd
Professor of Chemistry
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University of Montevallo
(205)-665-6484

Education:

- PRINCETON UNIVERSITY (August 1994 – August 1995)
Post-Doctoral Research Associate
Research Advisor: Mark E. Thompson, Professor of Chemistry
- UNIVERSITY OF FLORIDA (August 1989 – August 1994)
Ph.D., Inorganic / Materials Chemistry, April, 1994
Doctoral Advisor: Daniel R. Talham, Professor of Chemistry
Dissertation: "Toward Two-Dimensional Magnetism: Single-Layer and Multilayer Films of Transition Metal Organophosphonates Prepared at Langmuir-Blodgett Templates"
- SAMFORD UNIVERSITY (August 1985 – May 1989)
B.S., Chemistry, May, 1989 – Cum Laude

Teaching Experience:

UNIVERSITY OF MONTEVALLO (August 1995 – Present)

Professor	(August 2005 – Present)
Associate Professor	(August 2000 – August 2005)
Assistant Professor	(August 1996 – August 2000)
Instructor	(August 1995 – August 1996)

Administrative and Leadership Appointments:

Departmental Chair, Biology, Chemistry and Mathematics (August 1, 2011 – present)

Chair, Council of Department Chairs (CDC) (May 2015 – August 2019)

The CDC is comprised of all academic chairs on campus and meets three to four times each semester to discuss activities, initiatives and areas of concern within the University. The chair reports directly to the Provost/Vice-President of Academic Affairs.

Chair, Academic Success Work Group for the 5-year Strategic Plan (April 2014 – August 2015)

As chair of the Academic Success Work Group, I led the University through the process of developing a series of goals, outcomes and measurements that focus on the academic capabilities for the strategic plan.

Chair, Quality Enhancement Plan Steering & Development Committee (November 2008 – May 2011)

As chair of the QEP Committee, I led the University through the process of developing and implementing a comprehensive plan to enhance the quality of education with the proposition that student learning is at the heart of the mission. I also served on the SACS Leadership team.

Faculty Athletic Representative (FAR) (August 2010 – December 2011)

The FAR is a member of the faculty at an NCAA member institution who has been designated by the institution to serve as a liaison between the institution and the athletics department, and also as a representative of the institution in conference and NCAA affairs. According to one of FARA's Guiding Principles, the role of the FAR is: "... to ensure that the academic institution establishes and maintains the appropriate balance between academics and intercollegiate athletics."

Director of the Honors Program (August 2003 – August 2008)

The Director of the Honors program reports directly the Provost/Vice President of Academic Affairs. The duties of the director are to oversee, maintain and grow the program across the University. During my tenure the program grew from 30 active students to over 90 students active in the Honors Program. Other responsibilities are listed below.

- Responsible for recruitment of students.
- Responsible for recruitment of faculty within the University to teach within Honors.
- Responsible developing and implementing a Unit Plan.
- Responsible for assessing the Honors Program and faculty teaching within the Program.
- Responsible for budget request and all budget allocations.
- Responsible for curriculum taught within the program.

Chair, Committee on the Review & Revision of General Education (August 2000 – December 2002)

This committee was charged with reviewing and updating the General Education Curriculum for the University. The committee was comprised of faculty members (Assistant, Associate and Full Professors), administrators (Dean of College of Arts & Sciences, Dean of Fine Arts, Director of the Library) and support staff (Director of Records, Director of Admissions and Director of Institutional Research). The university faculty voted (over 80%) to adopt the changes proposed by this Committee to the General Education Curriculum.

Chair, Local Arrangements Committee of the Alabama Academy of Science (Fall 2003 – Spring 2004)

The Alabama Academy of Science was established in 1924 with the purpose of advancing science throughout the state. Today the Academy consists of over 600 members from every Academic University in the state of Alabama. Its mission has expanded to include all disciplines of science, math, social sciences and computer technology. The chair of the local arrangements committee was responsible for organizing the spring 2004 Annual Meeting. Duties of this position included:

- Serving as Liaison between the Academy and the University.
- Being responsible for all aspects of the meeting including space allocation, registration, poster sessions and AV equipment.
- Raising funds to help defray the cost of the meeting.

Organizer, the University of Montevallo Undergraduate Research Day (1998 – 2001)

This is an event in the spring of every academic year where students from across campus present their research and/or creative endeavors. From the inception in 1998 until 2001, I was responsible for the planning and organization of this event.

University Awards:

- University of Montevallo's Faculty Service Award presented by the University of Montevallo and the Faculty Senate, 2017.
- University of Montevallo's CASE Professor of the Year nominee, 2009.
- University of Montevallo Scholar presented by the University of Montevallo, 2006.
- Outstanding Commitment to Teaching Award presented by University of Montevallo National Alumni Association, 2002.
- University of Montevallo's nominee for the Henry Dreyfus Teacher-Scholar Award in the Chemical Sciences, 2002 & 2006.

Current University Service:

- Quality Enhancement Plan (QEP) Topic Selection Committee
- University Strategic Planning Committee
- Intercollegiate Athletics Committee
- Athletic Hall of Fame Committee

Professional Service:

- Southern Association of Colleges and Schools (SACS) Accreditation Committee for the Florida Polytechnic Institute, February 2017.
- Southern Association of Colleges and Schools (SACS) Substantive Change Committee for the College of Charleston, February 2014.
- Quality Enhancement Plan (QEP) Evaluator for the University of Tennessee at Martin during their Southern Association of Colleges and Schools (SACS) reaffirmation onsite visit, February 2013.
- Quality Enhancement Plan (QEP) Evaluator for Mississippi College during their Southern Association of Colleges and Schools (SACS) reaffirmation onsite visit, April 2012.
- National Science Foundation Department of Undergraduate Education CCLI-Grant Review Panel (July 29-30, 2010).
- Reviewer for *Journal of Chemical Education*, an American Chemical Society National Journal, 2010 - 2018.
- National Science Foundation Department of Undergraduate Education CCLI-Grant Review Panel (July 13-14, 2009).
- Submitted the Final Response to the ACS Curriculum Committee for Certification, fall 2005 (**ACS approved our Chemistry program in February of 2007**).
- National Science Foundation, Department of Undergraduate Education, CCLI- A&I -Grant Review Panel, January 31-February 1, 2005, Washington D.C.
- Invited participant in “Invitation and Impact: Building Excellence in Undergraduate STEM Education,” a National Science Foundation Course Curriculum and Laboratory Improvement, April 2004.
- Reviewer for NSF Catalyzed Innovations in the Undergraduate Laboratory Symposium, American Chemical Society 228th National Meeting, Philadelphia, PA, August, 2004.
- Reviewer for *ACS Nano*, an American Chemical Society National Journal, 2007.
- Reviewer for *Inorganic Chemistry*, an American Chemical Society National Journal, 2007.
- Reviewer for *Crystal Growth & Design*, 2004.
- Reviewer for *Chemistry of Materials*, an American Chemical Society National Journal, 2000 – 2004.
- Chair of Chemistry Division, Alabama Academy of Science, 2006-2008.
- Vice Chair of Chemistry Division, Alabama Academy of Science, 2004-2006.
- Reviewer for *Journal of Chemical Crystallography*, Kluwer Academic/Plenum Publisher National Journal, 2002.
- National Science Foundation, Department of Undergraduate Education, CCLI-Grant Review Panel, **Chair**, July 24-27, 2000, Washington D.C.
- Reviewer for NSF Catalyzed Innovations in the Undergraduate Laboratory Symposium, American Chemical Society 220th National Meeting, Washington D.C., August, 2000.
- Reviewer for *Langmuir*, an American Chemical Society National Journal, 2000 – 2002, 2004, 2006.
- Reviewer for the *Journal of the American Chemical Society*, an American Chemical Society National Journal, 1999 – 2001.
- Reviewer for the PRF-Research Grant administered by the American Chemical Society, 2000.
- Alabama Articulation and General Studies Committee – Chemistry, **Chair**, (January 2000 – September 2003).

- Participant with UAB chemistry department in REU Grant funded by NSF. Research with undergraduates in the summer, (Summer 1999 – Summer 2004).
- Session **Chair** for the General Papers section of the Polymer Division, American Chemical Society 218th National Meeting, New Orleans, LA, August 22-26, 1999.
- National Science Foundation, Department of Undergraduate Education, CCLI-Grant Review Panel, August 2-5, 1999, Washington D.C.

Publications:

Undergraduate Student Authors (*)

1. Houston Byrd, Carolina Karanja*, Daniel LaSusa* “Monitoring Basic Acetal Reactions by GC-MS” *The Chemical Educator* **submitted July 2019**
2. Samantha D. Hastings, Houston Byrd, Leanne N. Gray*, Michael J. Jablonsky, Jason L. Freeman and Gary M. Gray “Multinuclear NMR Spectroscopic and X-ray Crystallographic Studies of Electronic and Steric Effects of Phosphonous Acid Ligands and Their Chlorophosphite Ligand Precursors in Tungsten Pentacarbonyl Complexes” *European Journal of Inorganic Chemistry*, **2013**, *16*, 2900–2911.
3. Houston Byrd, Blake E. Chapman* and Christopher L. Talley* “Prussian Blue Coated Electrode as a Sensor for Electroinactive Cations in Aqueous Solutions” *The Journal of Chemical Education*, **2013**, *90* (6), 775-777.
4. Christina Duffey, Seth Stepleton, Mary Elizabeth Anderson, Daniel Cox, Marty Ready, Houston Byrd, Carrie A. Bloomfield*, Jason L. Freeman and Gary M. Gray “X-ray Crystallographic Studies of a Bimetallic *cis*-Mo(CO)₄(PPh₂NH₂CH₂CH₂N=CHC₆H₄-*o*-O)₂Cu Complex, the Starting Material, *cis*-Mo(CO)₄(PPh₂Cl)₂, and the Reaction Intermediates *cis*-Mo(CO)₄(PPh₂NH₂CH₂CH₂NH₂)₂ and *cis*-Mo(CO)₄(PPh₂NH₂CH₂CH₂N=CHC₆H₄-*o*-OH)₂” *Journal of Chemical Crystallography*, **2011**, *4*, 1560-1567.
5. Jeremy B. Smith*, Houston Byrd, Stephen E. O'Donnell, and Will Davis* “Hammett Parameter and Molecular Modeling Correlations of Substituent Effects on Esterification Kinetics” *The Journal of Chemical Education*, **2010**, *87*, 845-847.
6. Houston Byrd and Cynthia P. Tidwell “Comparison of Quantitative Methods Through Analyses of TUMS” *The Chemical Educator*, **2007**, *12*, 353-355.
7. Houston Byrd, Debbie Bond*, Gary M. Gray and Keith E. Branham, “³¹P NMR Studies of the Nonoxidative Chlorination of Poly(1,12 dodecane phosphonate) and Subsequent Coordination and Nucleophilic Reactions” *Inorganica Chimica Acta*, **2006**, *359*, 4001-4006.
8. Houston Byrd, Jeremiah D. Harden*, Jennifer M. Butler, Michael J. Jablonsky and Gary M. Gray, “Unusual Hydrolysis Reactions of *cis*-Bis((2,2'-biphenylene) phosphochloridite ester)tetracarbonylmolybdenum(0)” *Organometallics*, **2004**, *23*, 3239-3245.
9. Houston Byrd, Jeremiah D. Harden*, Jennifer M. Butler, Michael J. Jablonsky and Gary M. Gray, “Nucleophilic Substitution Reactions of *cis*-Bis((2,2'-biphenylene) phosphochloridite ester)tetracarbonylmolybdenum(0). The First Example of an Unusual

Hydrolysis Reaction Yielding Unsymmetrically Substituted Products”
Organometallics, **2003**, 22, 4198-4205.

10. R. Dustan Myrex, Brandon Farmer, and Gary M. Gray, Young-Jin Wright*, Jennifer Dees*, Prakash C. Bharara and Houston Byrd, “ ^{31}P and ^1H NMR Studies of the Transesterification Polymerization of Polyphosphonate Oligomers”, *Europ. Poly. Jour.*, **2003**, 39, 1105-1115.
11. Houston Byrd, R. Scott Buff*, Jennifer M. Butler and Gary M. Gray, “New Synthesis and Structure of a Polar Manganese Coordination Polymer” *J. Chem Cryst.*, **2003**, 33, 513-517.
12. Houston Byrd and Stephen E. O'Donnell “A General Chemistry Laboratory Theme: Spectroscopic Analysis of Aspirin” *J. Chem. Educ.*, **2003**, 80, 174-175.
13. Houston Byrd, Prakash C. Bharara, Tyler S. Sullens*, Jeremiah Harden* and Gary M. Gray, “Preparation of Dichloro(2,4,6-tribromophenoxy)(1,2 diphenoxy)phosphorane and Its Nonoxidative Chlorination Reactions with Alkyl and Aryl Phosphonates” *Inorganica Chimica Acta*, **2002**, 338C, 240-244.
14. Houston Byrd, Charles E. Holloway*, Jessica Pogue*, Sandy Kircus*, Rigoberto C. Advincula, and Wolfgang Knoll “Ultrathin Film Self-Assembly of Hybrid Organic-Inorganic Metal Coordination Polymers” *Langmuir*, **2000**, 16, 10322 –10328.
15. Keith E. Branham, Jimmy W. Mays, Gary M. Gray, Robert Cook and Houston Byrd “Preparation of Soluble, Linear Titanium-Containing Copolymers by the Free Radical Copolymerization of Vinyl Titanate Monomers with Styrene” *J. Appl. Poly. Sci.* **2000**, 78, 190-199.
16. Keith E. Branham, Gary M. Gray, Prakash C. Bharara and Houston Byrd, “ $^{31}\text{P}\{^1\text{H}\}$ NMR Studies of the Preparation of Dichlorotris(2,4,6-tribromophenoxy)phosphorane, Trichlorobis(2,4,6-tribromophenoxy)phosphorane and Tetrachloro(2,4,6-tribromophenoxy)-phosphorane, and their Nonoxidative Chlorination Reactions with Dimethyl Phosphonate”, *Main Group Chemistry*, **2000**, 3, 103-108.
17. Keith E. Branham, Jimmy W. Mays, Gary M. Gray, Prakash C. Bharara, Houston Byrd, Roger Bittinger* and Brandon Farmer*, “Polycondensation of Dimethyl Phosphonate with Diols: SEC and ^{31}P and ^{13}C NMR Spectroscopic Studies”, *Polymer*, **2000**, 41, 3371-3379.
18. Daniel R. Talham, Houston Byrd and Candace T. Seip, “Inorganic Extended Solid Langmuir-Blodgett Films”, *Micelles, Microemulsions and Monolayers*, Shah, D. O., Ed, Marcel Dekker: New York, **1998**, Chapter 20, pp 447-461.
19. Daniel R. Talham, Candace T. Seip, Scott Whipps, Gail E. Fanucci, Melissa A. Petruska and Houston Byrd, “Incorporating Inorganic Extended Lattice Structures into Langmuir-Blodgett Films: Comparing Metal Phosphonate LB Films to Their Solid-State Analogs”, *Comments Inorg. Chem.* **1997**, 19, 133-151.

20. Houston Byrd, Elena P. Suponeva, Andrew B. Bocarsly and Mark E. Thompson, "Photocurrent Generation in Metal Bisphosphonate Multilayer Thin Films", *Nature* **1996**, *380*, 610.
21. Houston Byrd, Abraham Clearfield, Damodara Poojary, Kenneth P. Reis and Mark E. Thompson, "Crystal Structure of a Porous Zirconium Phosphate/Phosphonate Compound and Photocatalytic Hydrogen Production from Related Materials", *Chem. Mater.* **1996**, *8*, 2239.
22. Jonathan L. Snover, Houston Byrd, Elena P. Suponeva and Mark E. Thompson, "Growth and Characterization of Photoactive and Electroactive Zirconium Bisphosphonate Multilayer Films", *Chem. Mater.* **1996**, *8*, 1490.
23. Candace T. Seip, Houston Byrd, and Daniel R. Talham, "An Electron Paramagnetic Resonance Study of a Langmuir-Blodgett Film of Manganese Octadecylphosphonate and Comparison of the Magnetic Properties to Solid-State Manganese Alkylphosphonates", *Inorg. Chem.* **1996**, *35*, 3479.
24. Candace T. Seip, Houston Byrd, John K. Pike, Scott Whipps and Daniel R. Talham, "Langmuir-Blodgett Supramolecular Assemblies: Incorporating Inorganic Extended Lattice Structures" Physical *Supramolecular Chemistry*, Echegoyen, L.; Kaifer, A. E.; eds., Kluwer Academic Publishers, Netherlands **1996**, 27-37.
25. Houston Byrd, Jonathan L. Snover and Mark E. Thompson, "Mechanistic Studies of Film Growth of Zirconium Bisphosphonate Mono- and Multilayer Thin Films", *Langmuir* **1995**, *11*, 4449.
26. Houston Byrd, John K. Pike and Daniel R. Talham, "Langmuir-Blodgett Films as Single-Layer Analogs of Known Organic/Inorganic Solid-State Materials", *Synth. Met.* **1995**, *71*, 1977.
27. Houston Byrd, John K. Pike and Daniel R. Talham, "Extended-Lattice Langmuir-Blodgett Films: Manganese Octadecylphosphonate LB Films are Structural and Magnetic Analogs of Solid-State Manganese Phosphonates", *J. Am. Chem. Soc.* **1994**, *116*, 7903.
28. Houston Byrd, John K. Pike, Margaret L. Showalter, Scott Whipps and Daniel R. Talham, *Interface Design and Chemical Sensing*, Mallouk, T. E.; Harrison, D. J.; eds., ACS Symposium Series **1994**, *561*, 49.
29. Houston Byrd, Scott, Whipps, John K. Pike, JingFei Ma, Stephen E. Nagler and Daniel R. Talham, "The Role of the Template Layer in Organizing Self-Assembled Films: Zirconium Phosphonate Monolayers and Multilayers at a Langmuir-Blodgett Template", *J. Am. Chem. Soc.* **1994**, *116*, 295.
30. Houston Byrd, John K. Pike and Daniel R. Talham, "Single Layers of Inorganic Extended Lattices Formed at Langmuir-Blodgett Templates", *Thin Solid Films* **1994**, *242*, 100.
31. Houston Byrd, Scott Whipps, John K. Pike and Daniel R. Talham, "Molecular Self-Assembly at a Preformed Langmuir-Blodgett Template", *Thin Solid Films* **1994**, *244*, 768.

32. John K. Pike, Houston Byrd, Augusto A. Morrone and Daniel R. Talham, "Oriented Cadmium Dihalide Particles Prepared in Langmuir-Blodgett Films", *Chem. Mater.* **1994**, *6*, 1757.
33. John K. Pike, Houston Byrd, Augusto A. Morrone and Daniel R. Talham, "XPS, ATR-FTIR, and Transmission Electron Diffraction Studies of Oriented Cadmium Iodide Prepared in a Langmuir-Blodgett Template", *Thin Solid Films* **1994**, *243*, 510.
34. Houston Byrd, John K. Pike and Daniel R. Talham, "Inorganic Monolayers Formed at an Organic Template: A Langmuir-Blodgett Route to Monolayer and Multilayer Films of Zirconium Octadecylphosphonate", *Chem. Mater.* **1993**, *5*, 790.
35. John K. Pike, Houston Byrd, Augusto A. Morrone and Daniel R. Talham, "Template-Directed Synthesis: Oriented CdI₂ Prepared in a Langmuir-Blodgett Film", *J. Am. Chem. Soc.* **1993**, *115*, 8497.

Patents:

Thompson, Mark E.; Snover, Jonathan Lee; Joshi, Vijay; Vermeulen, Lori Ann; Tang, Xiaozhang; Suponeva, Elena; Byrd, Houston "Heterolamellar Photovoltaic Films" US 1995-517095.

Thompson, Mark E.; Snover, Jonathan Lee; Joshi, Vijay; Vermeulen, Lori Ann; Tang, Xiaozhang; Suponeva, Elena; Byrd, Houston "Heterolamellar Photoelectrochemical Films and Device" U.S., 28 pp. Cont.-in-part of U.S. Ser. No. 517,095.

Grants Awarded:

National

"NMR Project-Based Laboratories in the Undergraduate Curriculum" National Science Foundation-Course, Curriculum, Laboratory Improvement grant, NSF DUE 9950438 August 1999 – July 2001, \$61,000

Montevallo Research and Special Projects

"Synthesis of Polymer Thin Films" funded by University of Montevallo Research and Special Projects Committee, November 2004 - August 2005, Award: \$886.

"Magnetic Studies Transition Metal Coordination Polymers" funded by University of Montevallo Research and Special Projects Committee, November 2002 - August 2003, Award: \$740.

"Spectroscopic Determination of Thermodynamic Properties & Electrochemical Sensors in the Undergraduate Laboratory" funded by University of Montevallo Research and Special Projects Committee, November 1997-August 1998, Award: \$700.

"Surface Reactions and Polymers" funded by University of Montevallo Research and Special Projects Committee, November 1996-August 1997, Award: \$700.

Montevallo College of Arts & Sciences Undergraduate Research

“Metal Coordination Polymer Films Prepared by Solution Self-Assembly Methods”
funded by University of Montevallo Arts & Sciences Undergraduate Research, June 1998-
December 1998, Award: \$2400

“Assembly of Metal Coordination Polymers” funded by University of Montevallo Arts &
Sciences Undergraduate Research, June 1997-August 1997, Award: \$2200

National Presentations, Proceedings and Pre-Prints:

Undergraduate Student Authors (*)

Presenters are underlined

1. Houston Byrd, Blake Chapman* and Christopher Talley*, “Prussian Blue Coated Electrode as a Sensor for Electroinactive Cations in Aqueous Solutions” Poster Presentation Chemical Education Division, 247th ACS National Meeting, Dalla, TX, March 16 - 20, 2014.
2. Houston Byrd, Carol Karanja*, Alston Whiten*, Prakash Bharara and Cynthia P. Tidwell, “Synthesis of Acetals using Aldehydes and Alcohols” Poster Presentation Chemical Education Division, 247th ACS National Meeting, Dalla, TX, March 16 - 20, 2014.
3. Houston Byrd, Debbie Bond*, Gary M. Gray and Keith E. Branham, “³¹P NMR Studies of the Nonoxidative Chlorination of Poly(1,12 dodecane phosphonate) and Subsequent Coordination and Nucleophilic Reactions” Poster Presentation Polymer Division, 231st ACS National Meeting, Atlanta, GA, March 26 - 30, 2006.
4. Houston Byrd and Cynthia P. Tidwell “Comparison of Quantitative Methods Through Analyses of TUMS” Poster Presentation Chemical Education Division, 231st ACS National Meeting, Atlanta, GA, March 26 - 30, 2006.
5. Houston Byrd and Stephen O’Donnell “Applications of Spectroscopy in Problem-Based Laboratories” Poster Presentation, A Conference of the CCLI Program sponsored by the National Science Foundation, Washington, DC, April 16-19 2004.
6. Karl Schroeder* Houston Byrd and Prakash Bharara “Assembly of Polar Manganese Coordination Polymers” Poster Presentation, 17th National Conference on Undergraduate Research, The University of Utah, March 13-15, 2003.
7. Houston Byrd, and Stephen E. O’Donnell “Spectroscopic Themes: Instrumental Analysis of Aspirin in the General Chemistry Lab” Oral Presentation Chemical Education Division, 224th ACS National Convention, Boston, MA, August 18-22, 2002.
8. Debbie Bond*, Houston Byrd and Gary Gray “Non-Oxidative Chlorination of a Polyalkylene Phosphonate and Subsequent Substitution Reactions” Poster Presentation Undergraduate Division, 54th ACS Southeast Regional Meeting, Charleston, SC, November 14 -16, 2002.

9. Jeremiah Harden*, Houston Byrd and Gary Gray “A Study of Reactions of Coordinated 2,2'-Biphenylene Phosphochlorodite Ester Ligands in Tetracabonyl Molybdenum Complexes” Poster Presentation Undergraduate Division, 54th ACS Southeast Regional Meeting, Charleston, SC, November 14 -16, 2002.
10. Jeremiah Harden*, Houston Byrd, Prakash Bharara and Gary Gray “Synthesis and Characterization of Molybdenum Phosphite Complexes” Poster Presentation, 16th National Conference on Undergraduate Research, Whitewater, Wisconsin, 2002.
11. Houston Byrd, and Stephen E. O’Donnell “Project-Based Laboratories: Esterification Kinetics Followed by NMR” Poster Presentation Chemical Education Division, 222th ACS National Convention, Chicago, IL, August 26-30, 2001.
12. Houston Byrd, and Stephen E. O’Donnell “Spectroscopic Themes: Instrumental Analysis of Aspirin in the General Chemistry Lab” Poster Presentation Chemical Education Division, 222th ACS National Convention, Chicago, IL, August 26-30, 2001.
13. Tyler Sullens*, Houston Byrd, Prakash Bharara and Gary Gray “Synthesis of a Nonoxidative Monochlorinating Agent for Secondary Phosphonates” Poster Presentation, 15th National Conference on Undergraduate Research, Lexington, Kentucky, March 15-17, 2001.
14. Young-Jin Wright*, Houston Byrd, Prakash Bharara and Gary Gray “Synthesis of Poly(Alkene Phosphonate)s Polymers via the Transesterification of Dimethyl Phosphite with Diols” Poster Presentation, 15th National Conference on Undergraduate Research, Lexington, Kentucky, March 15-17, 2001.
15. Adam Graham*, and Houston Byrd “Self-Assembly Metal Coordination Polymers” Poster Presentation, 15th National Conference on Undergraduate Research, Lexington, Kentucky, March 15-17, 2001.
16. Scott Buff*, Houston Byrd and Prakash Bharara “Assembly of Polar Metal Coordination Polymers” Poster Presentation, 15th National Conference on Undergraduate Research, Lexington, Kentucky, March 15-17, 2001.
17. Tyler Sullens*, Prakash Bharara, Houston Byrd, and Gary Gray “Synthesis of a Nonoxidative Monochlorinating Agent for Secondary Phosphonates” Poster Presentation Undergraduate Division, 52nd Southeast/Southwest ACS Regional Convention, New Orleans, LA, December 2000.
18. Young-Jin Wright*, Prakash Bharara, Houston Byrd, and Gary Gray “Synthesis of Poly(Alkene Phosphonate)s Polymers via the Transesterification of Dimethyl Phosphite with Diols” Poster Presentation Undergraduate Division, 52nd Southeast/Southwest ACS Regional Convention, New Orleans, LA, December 2000.
19. Charles E. Holloway*, Houston Byrd, Rigoberto C. Advincula, and Wolfgang Knoll “Ultrathin Film Self-Assembly of Hybrid Organic-Inorganic Metal Coordination Polymers as Investigated by Surface-Plasmon Spectroscopy” *Polymer Preprints*, **2000**, *41*, 613-614.
20. Houston Byrd, Charles E. Holloway*, Rigoberto C. Advincula, and Wolfgang Knoll “Ultrathin Film Self-Assembly of Hybrid Organic-Inorganic Metal Coordination Polymers as Investigated

by Surface-Plasmon Spectroscopy” Poster Presentation Polymer Division, 219th ACS National Convention, San Francisco, CA, March, 2000.

21. Jennifer Dees*, Prakash Bharara, Houston Byrd, and Gary Gray “Catalyzed Synthesis of Poly(Alkene Phosphonate)s Polymers” National Conference on Undergraduate Research, Poster Presentation, Montana, April 2000.
22. Dorothy Gearhart*, and Houston Byrd, “Infrared Analysis of Surface Reactions” National Conference on Undergraduate Research, Poster Presentation, Montana, April 2000.
23. Houston Byrd, Charles E. Holloway* and Jessica Pogue*, “Self-Assembly of Metal Coordination Polymers”, *Polymer Preprints*, **1999**, 40, 167-168.
24. Houston Byrd, Charles E. Holloway* and Jessica Pogue*, “Self-Assembly of Metal Coordination Polymers” Poster Presentation Polymer Division, 217th ACS National Convention, Anaheim, CA, March, 1999.
25. Prakash Bharara, Houston Byrd, Brandon Farmer*, Debbie Boroughs*, and Gary Gray “Synthesis of Poly(Alkene Phosphonate)s Polymers via the Transesterification of Dimethyl Phosphite with Diols” Poster Presentation Polymer Division, 217th ACS National Convention, Anaheim, CA, March 1999.
26. Prakash Bharara, Houston Byrd, Brandon Farmer*, Debbie Boroughs*, and Gary Gray “Synthesis of Poly(Alkene Phosphonate)s Polymers via the Transesterification of Dimethyl Phosphite with Diols” *Polymer Preprints*, **1999**, 40, 78-79.
27. Houston Byrd and Charles E. Holloway* “Self-Assembly of Metal Coordination Polymers”, *NCUR XII Proceedings*, **1999**, 3, 1494-1497.
28. Houston Byrd and Charles E. Holloway*, “Self-Assembly of Metal Coordination Polymers” National Conference on Undergraduate Research, Poster Presentation, Rochester, New York, April 1999.
29. Houston Byrd and Jessica Pogue*, “Assembly of Metal Coordination Polymers by Self-Assembly Methods” National Conference on Undergraduate Research, Poster Presentation, Salisbury, Maryland, April 1998.
30. Houston Byrd and Jessica Pogue*, “Self-Assembled Thin Films of Metal Coordination Polymers”, *NCUR XII Proceedings*, **1998**, 5, 1703-1707.