

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008



October 31st, 2008



Position:

Professor of Chemistry: Youngstown State University
Director: YSU STEM Analytical Instrumentation Facility
Founder & Past Director:
STaRBURSTT CyberInstrumentation
Consortia - [STaRBURSTT-CIC](http://www.starburstt.org/):
(<http://www.starburstt.org/>)*
Founding Director: STaRBURSTT
CyberInstrumentation Consortium at
YSU - [STaRBURSTT @ YSU](http://www.as.ysu.edu/chem/scic/index.html)
(<http://www.as.ysu.edu/chem/scic/index.html>)



Contact:

Department of Chemistry:
<http://www.as.ysu.edu/~chem/index.html>
College of Science, Technology, Engineering, & Mathematics: <http://stem.ysu.edu/>
College of Graduate Studies & Research:
http://www.yzu.edu/colleges/grad_scl/index.htm
Youngstown State University: <http://www.yzu.edu/index.html>
Youngstown, Ohio, 44555-3663
Office Phone: 330-941-7176
FAX : 330-941-1579
Email : adhunter@ysu.edu
Home Page: <http://www.as.ysu.edu/~adhunter/index.html>

Biographical:

Born: 12 August, 1959 - Prince George, British Columbia, Canada.
Married, one child.
Canadian Citizen (US Permanent Resident)

Hunter's Professional Education:

Hunter's Professional Leaves:

- “*CyberTechnology for Dynamic Networks of Scientific & Engineering Instrumentation*,”
(YSU Sabbatical Award).....2008-09
- “*Computational Organometallic Chemistry*,” (Faculty Improvement Leave, four months)
YSU and in collaboration with Dr. Barry Westcott, Department of Chemistry,
Central Connecticut State University.2004-05
- “*Non-Linear Optical Studies of Organometallics*,” (Department Reassigned Time, five
months), Department of Chemistry, The Australian National University,
Canberra, ACT, Australia, with Dr. Mark Humphrey.2002-03
- “*Advanced Single Crystal Diffraction Analysis*,” (Sabbatical, 10.5 months),
Department of Chemistry, St. Andrews University, St. Andrews, Scotland,
with Drs. Derek Woollins and Alex Slawin.2000-01

* Science Teaching and Research Brings Undergraduate Research Strengths Through Technology, a consortium of institutions, mostly PUIs, engaging in improving the infrastructure for advanced education and competitive research at the nation's Predominantly Undergraduate Institutions.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

“X-Ray Diffraction,” (Faculty Improvement Leave, four months), YSU & Department of Crystallography, University of Pittsburgh, Pittsburgh, PA, with Dr. Bryan Craven. 1996-96

Hunter’s Professional Development:

British Crystallographic Association, Short Course in X-Ray Structural Analysis, March 30 - April 6, Durham, UK (Observer and Panelist). 2001

German Society for Crystallography, Short Course in Powder Diffraction, October 4-8, 2000, Bayreuth, Germany. 2000

European Crystallographic Association, Special Session on Electron Density Methods, August 24-25, 2000, Nancy, France. 2000

American Crystallographic Association, Summer Course for X-ray Crystallography, August 1-12, 1994, University of Pittsburgh. 1994

Hunter’s Postdoctoral Fellowships:

X-ray Crystallography, University of Alberta, Canada, with Dr. M. Cowie. 1987

Organophosphorus and Organometallic Chemistry, Research School of Chemistry, Australian National University, Canberra, Australia, with Dr. M. Bennett. 1985-6

Hunter’s Degrees:

Ph.D. Organometallic Chemistry, Department of Chemistry, University of British Columbia, Canada, with Dr. P. Legzdins, “*Aspects of the Organometallic Nitrosyl Chemistry of Cr, Mo and W.*” 1981-85

B.Sc. (Honors) Chemistry (Physical), University of British Columbia, Canada, with Dr. E. E. Burnell, “*A NMR Structural Determination of Azulene Oriented in a Nematic Liquid Crystal.*” 1977-81

Hunter’s Academic Employment:

Visiting Fellow, Department of Chemistry, The Australian National University. 2002-2003

Visiting Professor, Department of Chemistry, St. Andrews University, Scotland. 2000-2001

Full Professor, Department of Chemistry, Youngstown State University. 1998-Present

Visiting Associate Professor, Department of Crystallography, University of Pittsburgh. 1995-96

Associate Professor, Department of Chemistry, Youngstown State University. 1992-98

Adjunct Professor, Department of Chemistry, University of Alberta. 1992-96

Assistant Professor, Department of Chemistry, University of Alberta. 1987-92

Hunter’s Awards:

YSU Sabbatical Award “*CyberTechnology for Dynamic Networks of Scientific & Engineering Instrumentation*” 2008-09

YSU Dean’s Award for “*Demonstrating Superior Success in Obtaining External Funding*” 2007-08

YSU Research Professorship “*NanoScale Organometallic Building Blocks*” 2006-07

YSU Research Professorship “*Exact 3D Molecular Structures in Solution by NMR*” 2005-06

YSU Faculty Improvement Leave Award “*Computational Organometallic Chemistry*” 2004-05

YSU Distinguished Professor in Research. 2002-03

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

YSU Dean's Award for "Demonstrating Superior Success in Obtaining External Funding"	2001-02
YSU Research Professorship "Experimentally Visualizing Electrons in Molecules: Charge Density Diffraction Methods"	2001-02
YSU Faculty Development Award	2001-02
YSU Distinguished Professor in University Service	2001-02
YSU Sabbatical Award "Advanced Single Crystal Diffraction Analysis"	2000-01
YSU Faculty Development Award	1998-99
YSU Research Professorship "Novel Organometallic Non-Linear Optical Materials"	1998-99
YSU Research Professorship "Novel Nonlinear Optical Materials Having C(CF ₃) ₂ Stabilizers: Monomers, Dopants, Polymers, and Doped Polymer Blend"	1997-98
YSU College of Arts & Sciences - Master Teacher Award	1997-98
YSU Faculty Development Award	1996-97
YSU Distinguished Professor in Research	1996-97
YSU Faculty Improvement Leave "X-Ray Diffraction"	1995-96
YSU Research Professorship	1994-95
YSU Faculty Development Award	1993-94
YSU Research Professorship	1993-94
Izaak Walton Killam Memorial Postdoctoral Fellowship	1985-87
NSERC Postdoctoral Fellowship	1985-87
NSERC Graduate Scholarship	1981-85
Governor General's Gold Medal in Arts and Sciences	1980-81
7 Other Undergraduate Academic Scholarships at UBC	1977-81

Hunter's Professional Memberships:

The American Association for the Advancement of Science
The American Chemical Society (Chem. Educ., Inorg., Org., and Poly. Chem., Inc., Divisions)
The American Crystallographic Association
The American Physical Society
The British Crystallographic Association
The Council for Undergraduate Research
The European Crystallographic Association
The International Union of Crystallography
The Pittsburgh Diffraction Society

Hunter's Youngstown State University Committee & Related Assignments:

University Committees & Related Assignments:

Ad hoc Grant/Business Practices Committee	1998-99
General Education	1998-2000
Sabbatical/FIL Committee	1996-97

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

Student Discipline Board 1994-95
University Senate 1993-95, 1997-99

Graduate Studies and Research Committees & Related Assignments:

Graduate Council Policy 1997-2000
University Research Council 1994-96

College of Math, Sciences, Engineering, & Technology Committee & Related Assignments:

Director: Analytical Materials Instrumentation Facility 2007-08
• *Ribbon Cutting by NSF Director Arlen Bement, June 23rd, 2008*

College of A&S Committee & Related Assignments:

Director: STEM Instrumentation Facility 1994-2007
Materials Science & Engineering *ad hoc* Founding Committee Member 2006-07
Deans Advisory Council 1995(S), 1996(S)
General Education Lab Science Curriculum 1997-99
Library 1995-2000
Mission and Goals 1994-95
Professional Development for Teachers 1996-98

Chemistry Department Committees & Related Assignments:

Advisory to the Chair 1998-2000, 2003-04, 2005-07
Assessment 1997-98
Curriculum 1995-98, 2006-08
Graduate Admission 2006-7
Grants 1993-2000, 2001-02, 2003-04, 2005-08
Instrument Coordinator (Diffraction) 2006-08
Instrument Coordinator (NMR) 2007-08
Library Coordinator 1996(S), 2003-04
Mission and Goals 1993-96
New Hire (Chair) 2007-08
Promotion 2003-04
Public Relations, Displays, & Awards 2007-08
Safety 2003-04
Seminar Coordinator 2005-06

Hunter's Non-YSU Professional Committee Work: (past, current, & scheduled) *

Organizing Committee Co-Chair: NSF-MPS-Chemistry Division Workshop:
Cyber-Enabled Instrumentation in Chemistry 2008
Member - Technology Resource Council, NorTech 2006-Present

* Note: Each year, Hunter routinely reviews a dozen or more NSF, ACS-PRF, and other grant proposals as well as papers from journals like *Acta Cryst.*, *Organometallics*, *Inorg. Chem.*, *J. Chem. Educ.*, and *J. Chem. Cryst.*.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

Participant, Advanced Manufacturing Initiative.....	2006-Present
Consultant, Center for Workshops in the Chemical Sciences, CWCS.....	2006-Present
Session Organizer, CUR 2006: Crystallographic Research.....	2006
Symposia Organizer, BCCE 2006: Crystallographic Education.....	2006
Session Organizer, CUR 2006: Remote Access to Advanced Instrumentation.....	2006
Symposia Organizer, BCCE 2006: Remote Access to Diffraction Instrumentation.....	2006
Crystallography Education Summit - 2006 ACA Meeting.....	2006
National Science Foundation, Review Panel (NanoTechnology Education).....	2005
Symposium Organizer, ACS 2005: Interface Between College & High School Teachers.....	2005
Editorial Board: Journal of Chemical Crystallography.....	2001-Present
Advisory Board: The Reciprocal Net - NSDL Molecular Structure Collaboration.....	2001-Present
International Union of Crystallography: Committee on Crystallographic Teaching: Consultant.....	2000-Present
International Center for Diffraction Data, Committee on Education.....	1998-Present
W. M. Keck Foundation Center for Molecular Structure Advisory Board.....	1998-Present
Symp. Organizer, Graduate Programs for Teachers, ACS Spring Meeting, Orlando.....	2002
Moderator for the Main Group Inorganic Session, ACS Fall Meeting, Chicago.....	2001
Symp. Organizer, Crystallographic Education Session, ACA 2001 Meeting, LA.....	2001
Council for Undergraduate Research, Panel on the NSF-RSEC & NSF-RUI Programs.....	2000
National Science Foundation, Review Panel (DUE-CCLI Program).....	1998

Hunter's Other Professional Assignments:

Founding Director, STaRBURSTT CyberInstrumentation Consortium at YSU, STaRBURSTT-CIC @ YSU.....	2005-Present
Founding Director, STaRBURSTT CyberInstrumentation Consortia, STaRBURSTT-CIC.....	2005-2006
Representative for YSU and other Predominantly Undergraduate Schools, Steering Committee of the Ohio Mass Spectroscopy Consortium.....	1998-Present
Representative for YSU and other Predominantly Undergraduate Schools, Steering Committee of the Ohio X-Ray Crystallography Consortium.....	1995-Present
Representative for YSU and other Predominantly Undergraduate Schools in Northeast Ohio, Steering Committee of the Ohio NMR Consortium.....	1994-Present
Founding Director, YSU-PUI Undergraduate Diffraction Consortium.....	1994-2005

Hunter's Academic Collaborations (Most Significant/Active (within the last 5 years)):

- A. Anthony Addison, Department of Chemistry, Drexel University, Philadelphia, PA, 215-895-2646, addisona@drexel.edu, (Diffraction Analysis).
- B. Barry Westcott, Department of Chemistry, Central Connecticut State University, New Britain, Connecticut, 860-832-2677, westcottb@ccsu.edu, (PES & Computational Chemistry and Diffraction Analysis).

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- C. Christian Brückner, Department of Chemistry, University of Connecticut, University of Connecticut, Storrs, CT 06269, 860-486-2743, c.bruckner@uconn.edu (Diffraction Analysis).
- D. Christian Van Alsenoy, Department of Chemistry, Antwerp University, Antwerp, Belgium, alsenoy@uia.ua.ac.be (Theoretical Chemistry).
- E. David Grossie, Department of Chemistry, Wright State University, Dayton, Ohio, david.grossie@wright.edu, 937/775-2210 (Diffraction Analysis).
- F. Derrick Woollins, Department of Chemistry, St. Andrews University, St. Andrews, Scotland, J.D.Woollins@lboro.ac.uk (Sabbatical Mentor and X-ray Diffraction Studies on NS Heterocycles and Metal Phosphine Complexes and Educational Materials).
- G. Edward Zovinka, Department of University, Saint Francis University, Loretto, Pennsylvania, (814)-472-3373, ezovinka@francis.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- H. Frank Blockhuys, Department of Chemistry, Antwerp University, Antwerp, Belgium, frankb@uia.ua.ac.be (Theoretical Studies of Heterocyclic Species, Works in the Groups of Professors Herman Geise & Christian Van Alsenoy).
- I. Gregory M. Ferrence, Department of Chemistry, Illinois State University, Normal, Illinois, 61790-4160, 309-438-7971, gferren@ilstu.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- J. Guy Crundwell, Department of Chemistry, Central Connecticut State University, New Britain, Connecticut, 06050, 860-832-2682, CrundwellG@mail.ccsu.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- K. Jacqueline Knaust, Department of Chemistry, Allegheny College, jmknast@lamar.colostate.edu (Diffraction Methods - Collaboration in Planning Stages).
- L. John Woolcock, Department of Chemistry, Indiana University of Pennsylvania, Indiana, Pennsylvania, 724-357-4828, John.Woolcock@iup.edu (Synthetic Organometallic Chemistry, Diffraction Analysis, & Collaborative Grants).
- M. Katherine A. Kantardjieff, Department of Chemistry and Biochemistry and W. M. Keck Foundation Center for Molecular Structure, California State University, Fullerton, California, 92834, 714-278-3752, kkantardjieff@fullerton.edu (Diffraction Methods, Collaborative Grants).
- N. Larry Curtin, Department of Chemistry, Youngstown State University, OH, lscurtin@cc.ysu.edu (Organometallic Chemistry, Electrochemistry, Crystallography).
- O. Larry Mayer, Department of Biological & Physical Sciences, Columbus State Community College, Columbus, Ohio, 43215-1722, 614-287-2527, lmayer@cscc (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- P. Laura Hoistad Straus, Department of Chemistry, University of Northern Iowa, Cedar Falls, Iowa, 319-273-6139, Laura.Strauss@uni.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- Q. Laura M. Ramirez, Department of Chemistry, East Los Angeles College, Monterey Park, CA 91754, 323 265-8849, ramirelm@elac.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- R. M. Gerald Lesley, Department of Chemistry, Southern Connecticut State University, New Haven, Connecticut, 203-392-6262, lesleym1@southernct.edu, (Inorganic Chemistry & Diffraction Analysis).
- S. Manish A. Mehta, Department of Chemistry, Oberlin College, Oberlin, Ohio, 440-775-8359, manish.mehta@oberlin.edu (Diffraction Analysis).
- T. Marcus Bond, Department of Chemistry, Southeast Missouri State University, Cape Girardeau, Missouri, 63701, 573-651-2580, bond@mbond2.st.semo.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- U. Michael Fricke, United States Environmental Protection Agency, National Exposure Research Laboratory, Microbiological and Chemical Exposure Assessment Research Division, 26. W. Martin Luther King Drive, Cincinnati, OH 45268, Fricke.Michael@epamail.epa.gov (Diffraction Analysis).
- V. Michael Prushan, Department of Chemistry and Biochemistry, La Salle University, Philadelphia, Pennsylvania, 19141, 215-951-1281, prushan@lasalle.edu (Diffraction Analysis).
- W. Muhammad Mazhar, Quaid-I-Azam University, Department of Chemistry, Islamabad, Pakistan, mazhar42pk@yahoo.com (Diffraction Analysis).
- X. Nadine E. Gruhn, Center for Gas-Phase Electron Spectroscopy, Department of Chemistry, University of Arizona, Tucson, Arizona, 85721-0041, 520-626-8065, ngruhn@email.arizona.edu (Photoelectron Spectroscopic, PES, Studies on Organometallics).
- Y. Neil Glagovich, Department of Chemistry, Central Connecticut State University, New Britain, Connecticut, 860-832-26812, glagovichn@ccsu.edu, (Diffraction Analysis).
- Z. Paul Sampson, Department of Chemistry, Kent State University, Kent, Ohio, 330-672-0034, psampson@kent.edu, (X-ray Crystallography of Organic Molecules).
- AA. Paul Szalay, Department of Chemistry, Muskingum College, New Concord, Ohio, 740-826-8231, pszalay@muskingum.edu (Crystallographic Education, Diffraction Analysis, & Collaborative Grants).
- BB. Raymond J. Butcher, Chemistry Department, Howard University, Washington DC, 202-806-6886, rbutcher@fac.howard.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- CC. Steven DiMuzio, LaBrae High School, steve.dimuzio@neomin.org (Chemical/Crystallographic Education Research and Curriculum Development and NanoMaterials research).
- DD. Tim Wagner, Department of Chemistry, Youngstown State University, OH, trwagner@cc.ysu.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- EE. Thomas Higgins, Department of Biological and Physical Sciences, Harold Washington College, Chicago, IL 60601, 312-553-5791, tbhiggins@ccc.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- FF. Virginia B. Pett, Department of Chemistry, The College of Wooster, Wooster, OH, 44691, 330-263-2114, pett@wooster.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- GG. William (Bill) Snyder, Poland Seminary High School, wesnyder@ysu.edu, (Chemical/Crystallographic Education Research and Curriculum Development).
- HH. Wim Klooster, Bragg Institute - Australian Nuclear Science and Technology Organization, Menai (Sydney) NSW, Australia, Wim.Klooster@ansto.gov.au, 61 (0)2 9717 9334 (Neutron Diffraction Analysis and Education).
- II. Zhengtao Xu, George Washington University, Department of Chemistry, Washington, D.C. 20052, 202 994 7320, zxu@gwu.edu (Diffraction Analysis).

Hunter's Past Academic Collaborations:

- A. Alexandra Slawin, Department of Chemistry, St. Andrews University, Scotland a.m.slawin@st-and.ac.uk (Sabbatical Mentor and High Resolution Diffraction Structures).
- B. Bernard Santarsiero, University of Illinois at Chicago, bds@uic.edu. (X-ray Crystallography)
- C. Bryan Craven, Department of Chemistry, Indiana University of PA)and the Department of Crystallography, University of Pittsburgh) craven@grove.iup.edu (Charge Density Studies)
- D. Chase Smith, Department of Chemistry, Holly Cross, Worcester, MA, csmith@holycross.edu (X-ray Crystallography of Organic Molecules)
- E. Claude Lecomte, Department of Chemistry, Univ. Henri Poincaré, Nancy, France, lecomte@lcm3b.uhp-nancy.fr (charge density diffraction studies)
- F. Cliff Berkman, Department of Chemistry, San Francisco State University, CA, cberkman@sfsu.edu (X-ray Crystallography of Organic Molecules)
- G. George Richter-Addo, Department of Chemistry, University of Oklahoma, Norman, OK, gbrichteraddo@chemdept.chem.ou.edu (Bioinorganic Chemistry).
- H. Jim Adrian, Department of Chemistry, Union College, Schenectady, NY, adrianj@union.edu (X-ray Crystallography of Organic Molecules)
- I. John Cashman, Human BioMolecular Research Institute, San Diego, CA, <http://www.hbri.org/index.htm>, jcashman@hbri.org, (Crystallographic Studies on Medicinal Compounds)
- J. Jovica D. Badjic, Ohio State University, Department of Chemistry, Columbus, OH 43210, badjic@chemistry.ohio-state.edu, 614-247-8342 (Diffraction Analysis).
- K. Kumaresh Ghosh, University of Kalyani, Department of Chemistry, Kalyani town, West Bengal, India, kumaresh_ghosh@rediffmail.com (Diffraction Analysis).
- L. Leroy Haynes, The College of Wooster, Wooster, OH 44691-2363, 330-263-2012, haynes@wooster.edu (Diffraction Analysis).
- M. Mark Humphrey, Department of Chemistry, The Australian National University, Canberra, ACT, Australia Mark.Humphrey@anu.edu.au (Sabbatical Mentor).
- N. Mark Foster, Department of Polymer Science, University of Akron, 330-972-5323, foster@polymer.uakron.edu (Surface Structures of Monomolecularly Thick Materials by Low Angle X-Ray and Atomic Microprobe Techniques)
- O. Mike Zaworotko, Professor and Chair, Department of Chemistry, University of South Florida, 4202 E. Fowler Avenue, Tampa, FL 33620-5250, zaworo@chumal.cas.usf.edu,

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- Ph. 813-974-4129, FAX 813-974-3203. (X-ray Crystallography and the Structures of η^6 -Arene Complexes).
- P. Nemaï Ganguly, University of Kalyani, Department of Chemistry, Kalyani town, West Bengal, India, nemai_g@rediffmail.com (Diffraction Analysis).
- Q. Philip Coppens, Department of Chemistry, SUNY Buffalo, Buffalo, NY, coppens@acsu.buffalo.edu (Charge Density and Photocrystallography Methods, Low Temperature Metastable States of Inorganic and Organometallic Species).
- R. Ray Beiersdorfer, Department of Geology, Youngstown State University, OH, ray@cc.yzu.edu. (Crystallographic Analysis of Minerals)
- S. Sherri Lovelace-Cameron Department of Chemistry, Youngstown State University, OH, srlovela@cc.yzu.edu (Metallocene Complexes and Electrochemistry).
- T. Simon Bott, Department of Chemistry, University of Houston, 4800 Calhoun, Houston, Texas 77204-5641, sbott@uh.edu, Ph. 713-743-2771, FAX 713-743-2709. (X-ray crystallography and joint interests in organometallic derivatives of Calix[4]Arenes)
- U. Stacey Lowery Bretz, Department of Chemistry, Miami University, Oxford Ohio, 513-529-3731, bretzsl@muohio.edu (Assessment of New Chemical Education Materials and New Instrumentation Methods on Student Learning).
- V. Suzanne Seleem, Department of Chemistry, Central State University, Wilberforce, OH 45384, 937 376-6689, sseleem@centralstate.edu (Diffraction Analysis & Co-Investigator on Collaborative Grant(s)).
- W. Viktor Zhdankin, Department of Chemistry, University of Minnesota - Duluth, MN, vzhdanki@d.umn.edu (X-ray Crystallography of Organic Molecules)
- X. Vyacheslav (Slava) Samoshin, Department of Chemistry, University of the Pacific, CA, vsamoshi@uop.edu (X-ray Crystallography of Organic Molecules)

Hunter's Other Professional References

- A. Anthony Day, Head, Department of Protein Engineering, Genencor International, Palo Alto, CA, tday@slip.net (Protein Engineering)
- B. Bruce E. Bursten, Distinguished Professor and Dean, Department of Chemistry, University of Tennessee - Knoxville, Buehler Hall, Knoxville, TN 37996, Ph. 865-974-4377. bbursten@utk.edu (Past Collaborator, more than 20 years ago, and various Ohio Instrumentation Consortia)
- C. Elliot Burnell, Professor, Department of Chemistry, University of British Columbia, Vancouver, B.C., Canada, V6T 1Y6, Ph. 604-822-2603, bur@chem.ubc.ca (B.Sc. Research supervisor)
- D. Jeanette Krause, Director of Crystallographic Services, Department of Chemistry, University of Cincinnati, Cincinnati, Ohio, Ph. 513-556-9226, Fax. 513-556-9239 jeanette.krause@uc.edu (Crystallography and Crystallographic Education).
- E. Ming-Daw Tsai, Professor, Department of Chemistry, The Ohio State University, Columbus, OH 43210, Ph. 614-292-3080, mtsai@magnus.acs.ohio-state.edu (Director of Ohio NMR Consortium).

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- F. Peter Legzdins, Professor and Head, Department of Chemistry, University of British Columbia, Vancouver, B.C., Canada, V6T 1Y6, Ph. 604-822-2987, userlegs@mtsg.ubc.ca (Ph.D. Research supervisor)
- G. Peter Rinaldi, Professor and Director of Molecular Spectroscopy Laboratory, Department of Chemistry, University of Akron, Knight Chemical Laboratory, 190 E. Buchtel Commons, Akron, Ohio, 44325-3601, Ph. 330-972-5990, FAX 330-972-5256. <http://www.uakron.edu/colleges/artsci/depts/chemistry/magnet/> rinaldi@uakron.edu (Ohio NMR Consortium)
- H. Steven Geib, Department of Chemistry, University of Pittsburgh, Pittsburgh, PA, 15260, Ph. 412-624-1131, <http://xrayruby.chem.pitt.edu/> geib@vms.cis.pitt.edu (Mentor in Single Crystal Diffraction Methods)
- I. William (Bill) Geiger, Department of Chemistry, University of Vermont, Burlington, Vermont 05405, William.Geiger@uvm.edu, Ph. 802-656-0268 (Electrochemistry)

Hunter's Non-Refereed Professional Publications:

- N4. Kantardjieff, K. A.; McClanahan, E.; Bell, J.; Bau, R.; Billinge, S.; Borgstahl, G.; Campana, C.; Clardy, J.; Fronczek, F.; Howard, A.; Hunter, A. D.; Jurnak, F.; Kaduk, J.; Kastner, M.; Stevens, C. K.; Olmstead, M. M.; Pflugrath, J.; Ratajeski, K.; Rossi, M.; Rupp, B.; Sweet, B.; Torriani, I.; Young, V.: "Crystallographic Education Policies for the Physical and Life Sciences - Sustaining Crystallography in the 21st Century," American Crystallographic Association and the United States National Committee for Crystallography (IUCr), 2005, White Paper, see: <http://www.as.ysu.edu/~adhunter/Publications/2006.CrystallographSummit.pdf> Letter of Acknowledgement: <http://www.as.ysu.edu/~adhunter/Publications/CrystallographySummit-ThankYouForADH.pdf>
- N3. Hunter, A. D.: Contributor to the Council for Undergraduate Research's White Paper on the National Science Foundation's Research Sites for Educators in Chemistry, RSEC, Program. Presented to NSF at their request. Discussion draft of White Paper appearing in: Hoagland, E.: "CUR Initiatives at the National Science Foundation Yield a Challenge to CUR in Return," Council on Undergraduate Research Quarterly, March 2000, 20 (#3), 101-106. A later Discussion draft was also presented by Hunter, A. D., at the San Francisco National American Chemical Society Meeting, March 25th, 2000.
- N2. Hunter, A. D.: Contributor to the Council for Undergraduate Research's White Paper on the National Science Foundation's Research at Undergraduate Institutions, RUI, Program. Presented to the NSF at their request. White Paper appearing in: Hoagland, E.: "CUR Initiatives at the National Science Foundation Yield a Challenge to CUR in Return," Council on Undergraduate Research Quarterly, March 2000, 20 (#3), 101-106.
- N1. Hunter, A. D.: "Software Review of: ACD/ChemSketch 1.0 (freeware), ACD/ChemSketch 2.0 and its Tautomers, Dictionary, and 3D Plugins, ACD/HNMR 2.0, ACD/CNMR 2.0," *Journal of Chemical Education*, 1997, 74, 905-908.

Hunter's Scholarly Books:

- B1. Hunter, A. D.: *Allen Hunter's Youngstown State University X-Ray Structure Analysis Lab Manual: A Beginner's Introduction*, Fall 1998 Version F98D1 © 1997, 1998, 275 pages. Has been released electronically as .pdf files to approximately 200 individuals at over 150 Universities around the world. Described in the *Journal of Chemical Education*, **1999**, 76, 163 and in the ACA and IUCr Newsletters. This manual is currently being rewritten as a text book for the Royal Societies "Tutorials in Chemistry" series. For the Complete Manual, see: <http://www.as.yosu.edu/~adhunter/YSUSC/Manual/Manual.W99D1.pdf> For the Covers for the Complete Manual, see: <http://www.as.yosu.edu/~adhunter/YSUSC/Manual/Manual.Covers.W99D1.pdf> For an just Chapter XIV on Growing Single Crystals, see: <http://www.as.yosu.edu/~adhunter/YSUSC/Manual/ChapterXIV.pdf>

Hunter's Peer Reviewed Publications (Papers & Book Chapters): (undergraduate co-authors,* high-school teacher coauthors, *high school student coauthors*, *manuscripts in preparation*, *submitted papers*, *papers in press*, *papers available in online* (but not yet in printed edition.)

- P156. Zeller, M.; Westcott, B. L.; Kopp-Vaughn, K. M.; Hunter, A. D.: "catena-Poly[[μ -bromido-(μ -hydroxydi-2-pyridylmethanolato- κ 4N,O:O,N')dicopper(II)(Cu-Cu)]-di- μ -bromido]," *Acta Cryst. E* **2008**, E64(9), m1121.
- P155. Partyka, D. V.; Robilotto, T. J.; Zeller, M.; Hunter, A. D.; Gray, T. G.: "A porphyrin complex of Gold(I): (phosphine)gold(I) azides as cation precursors," *Proceedings of the National Academy of Sciences of the United States of America*, Early Edition **2008**, (Sept. 9, 2008), 1-5.
- P154. Zhou, X.; Xu, Z.; Zeller, M.; Hunter, A. D.; Chui, S. S.; Che, C.: "Coordination Networks from a Bifunctional Molecule Containing Carboxyl and Thioether Groups." *Inorg Chem.*, **2008**, 47(17), 7459-7461.
- P153. Dragancea, D.; Addison, A. W.; Zeller, M.; Thompson, L. K.; Hoole, D.; Revenco, M. D.; Hunter, A. D.: "Dinuclear copper(II) complexes with bis-thiocarbohydrazone ligands," *Eur. J. Inorg. Chem.*, **2008**, 16, 2530-2536.
- P152. Sun, Y.; Tsang, C.; Xu, Z.; Huang, G.; He, J.; Zhou, X.; Zeller, M.; Hunter, A. D.: "CuCN Pillars Induce Face-to-Face π -Overlap of Anthracene-Based Thioether Molecules within a Hybrid Coordination Network," *Crystal Growth & Design*, **2008**, 8(5), 1468-1470.
- P151. Eric, E.; Hunter, A. D.; Zeller, M.; Ray, T. A.; Salvatore, R. N.; Zambrano, C. H.: "Crystal Structure of 2,8,14,20-tert-Butylpyrogallol[4]arene, Dueno," *J. Chem. Cryst.*, **2008**, 38(3), 181-187.
- P150. Partyka, D. V.; Robilotto, T. J.; Zeller, M.; Hunter, A. D.; Gray, T. G.: "Dialkylbiarylphosphine Complexes of Gold(I) Halides. Gold-Aryl π -Interactions in the Solid State," *Organometallics*, **2008**, 27(1), 28-32.

* This student was an undergraduate for all or part of this work.

- P149. Tahir, A.; Hamid, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.; Nadeem, M.; Akhtar, M. J.; "Single Source Heterobimetallic Precursors for the Deposition of Cu-Ti Mixed Metal Oxide Thin Films," *Dalton Trans.*, **2008**, 1224-1232.
- P148. Amiri, M. G.; Morsali, A.; Hunter, A. D.; Zeller, M.: "Spectroscopy, Thermal and Structural Studies of New ZnII Coordination Polymer, $Zn_3(\mu\text{-bpa})_{4.5}(\text{AcO})_3(\text{ClO}_4)_3 \cdot 4.26\text{H}_2\text{O}$," *Solid State Sciences*, **2007**, 9(11), 1079-1084.
- P147. Conrad, D.; DeCoskey, J.; Yeisley, C.; Zeller, M.; Hunter, A. D.; Zovinka, E. P.: "[5,10,15,20-Tetrakis(2,6-dimethoxyphenyl)porphyrinato]nickel(II)-toluene-dichloromethane (3/2/4): a mixed solvate." *Acta Cryst. E*, **2007**, E63(11), m2824, Sm2824/1-Sm2824/17.
- P146. Huang, G.; Xu, H.; Zhou, X.; Xu, Z.; Li, K.; Zeller, M.; Hunter, A. D.: "Assembly of Large Aromatic Selenoether Ligands into Cubic and Non-interpenetrated (10,3)-a Nets," *Crystal Growth & Design* **2007**, 7(12), 2542-2547.
- P145. Nichols, M. A.; Leposa, C. M.; Hunter, A. D.; Zeller, M.: "Crystal Structures of Hexameric and Dimeric Complexes of Lithioisobutyrophenone," *J. Chem. Cryst.*, **2007**, 37(12), 825-829.
- P144. Sun, Y.; He, J.; Xu, Z.; Huang, G.; Zhou, X.; Zeller, M.; Hunter, A. A.: "Centripetal molecules as multifunctional building blocks for coordination networks," *Chem. Comm.*, **2007**, 45, 4779-4781.
- P143. Mahmoudi, G.; Morsali, A.; Hunter, A. D.; Zeller, M.: "Mercury(II) coordination polymers generated from 1,4-bis(2 or 3 or 4-pyridyl)-2,3-diaza-1,3-butadiene ligands," *Cryst. Eng. Comm.*, **2007**, 9, 704-714.
- P142. Amiri, M. G.; Mahmoudi, G.; Morsali, A.; Hunter, A. D.; Zeller, M.: "Zinc(II) nitrite coordination polymers based on rigid and flexible organic nitrogen donor ligands," *Cryst. Eng. Comm.*, **2007**, 9, 686-697.
- P141. Teets, T. S.; Partyka, D. V.; Esswein, A. J.; Updegraff, J. B., III; Zeller, M.; Hunter, A. D.; Gray, T. G.: "Luminescent, Three-Coordinate Azadipyromethene Complexes of d10 Copper, Silver, and Gold," *Inorg. Chem.*, **2007**, 46(16), 6218-6220.
- P140. Noshiranzadeh, N.; Ramazini, A.; Morsali, A.; Hunter, A. D.; Zeller, M.: "-(4-Pyridyl)-2,2':6,2''-terpyridine as ligand in the lead(II) complexes, $[\text{Pb}(\text{pyterpy})(\text{MeOH})_2] \cdot \text{MeOH}$ and $[\text{Pb}(\text{pyterpy})(\mu\text{-AcO})_2(\text{ClO}_4)_2]$," *Inorg. Chim. Acta*, **2007**, 360, 3603-3609.
- P139. Lobana, T. S.; Khanna, S.; Butcher, R. J.; Hunter, A. D.; Zeller, M.: "Methyl Substituent at C2 Carbon of Acetophenone Thiosemicarbazone Induces Unusual Heterobridging in the $[(\text{Ph}_3\text{P})\text{Cu}(\mu\text{-I})_2(\mu\text{-S-Haptsc})\text{Cu}(\text{PPh}_3)]$ Dimer," *Inorg. Chem.*, **2007**, 46(15), 5826-5828.
- P138. Nichols, M. A.; Sobinsky, R. M.; Hunter, A. D.; Zeller, M.: "Crystal structure of a butyllithium · 1,2-dipiperidinoethane dimer complex," *J. Chem. Cryst.*, **2007**, 37(6), 433-438.
- P137. Roy, S.; Mandal, T. N.; Barik, A. K.; Pal, S.; Gupta, S.; Hazra, A.; Butcher, R. J.; Hunter, A. D.; Zeller, M.; Kar, S. K.: "Metal complexes of pyrimidine derived ligands - Syntheses, characterization and X-ray crystal structures of Ni(II), Co(III) and Fe(III)

- complexes of Schiff base ligands derived from S-methyl/S-benzyl dithiocarbamate and 2-S-methylmercapto-6-methylpyrimidine-4-carbaldehyde,” *Polyhedron*, **2007**, *26*, 2603–2611.
- P136. Partyka, D. V.; Esswein, A. E.; Updegraff, J. B.; Zeller, M.; Hunter, A. D.; Gray, T. G.: “Gold(I) Pyrenyls: Excited-State Consequences of Carbon-Gold Bond Formation,” *Organometallics*, **2007**, *26*(14), 3279-3282.
- P135. Oki, A.; Zeller, M.; Reynolds, A.; Qiu X.; and Hunter, A. D.: “Synthesis and crystal structure of a neutral open framework cobalt(II) phosphate $\text{Co}_6(\text{PO}_4)_4 \cdot 7\text{H}_2\text{O}$ with a channel structure,” *J. Coord. Chem.*, **2007**, *60*(9), 995-1004.
- P134. Mahmoudi, G.; Morsali, A.; Hunter, A. D.; Zeller, M.: “[$\text{Hg}(\mu\text{-}4,4'\text{-bipy})(\mu\text{-AcO})(\text{AcO})_n \times n/2\text{H}_2\text{O}$, one-dimensional double-chain coordination polymer, syntheses, characterization, thermal, fluorescence, porous and structural studies,” *Inorg. Chim. Acta*, **2007**, *360*, 3196–3202.
- P133. Noshiranzadeh, N.; Ramazani, A.; Morsali, A.; Hunter, A. D.; Zeller, M.: “Novel Coordination Mode of Chloride Ion in Holo- and Hemidirected One-dimensional PbII Coordination Polymer,” *Inorg. Chem. Commun*, **2007**, *10*, 738-742.
- P132. Prushan, M. J.; Privette, N. K.; Zeller, Z.; Hunter, A. D.; Lofland, S.; Preite, S. D.: “Synthesis, Characterization and Reactivity of a Trinuclear Copper(II) Thiocyanurate Complex: A Spin-Frustrated Molecular Propeller,” *Inorg. Chem. Commun.*, **2007**, *10*(6), 631-635.
- P131. Oki, A.; Zeller, M.; Coranza, Y.; Luevano, J.; Hunter, A. D.: “Hydrothermal synthesis and structure of an open framework $\text{Co}_{0.7}\text{Zn}_{1.3}(\text{PO}_4)_2(\text{NH}_3\text{-CH}_2\text{CH}_2\text{NH}_3)$ and $\text{Co}_{6.2}(\text{OH})_4(\text{PO}_4)_4\text{Zn}_{1.80}$, a new Adamite type phase,” *Inorg. Chim. Acta* **2007**, *360*(9), 2917-2922.
- P130. Hamid, M.; Tahir, A. A.; Mazhar, M.; Zeller, M.; Hunter, A. D.: “Heterobimetallic Molecular Cages for the Deposition of Cu/Ti and Cu/Zn Mixed-Metal Oxides,” *Inorganic Chemistry*, **2007**, *46*(10), 4120-4127.
- P129. Stanford, D. J.; Fernandez, R. A.; Zeller, M.; Hunter, A. D.: “N-(3-Phenylpropyl)guanidinium bromide,” *Acta Cryst. E*, **2007**, *E63*(4), o1934-o1936.
- P128. Hamid, H.; Tahir, A. A.; Mazhar, M.; Zeller, M.; Hunter, A. D.: “Chloro[2-(N,N-dimethylamino)ethanol- κN]-[2-(N,N-dimethylamino)ethanolato- $\kappa^2\text{N,O}$]-palladium(II),” *Acta Cryst. E*, **2007**, *E63*, m728–m730.
- P127. Li, K.; Huang, G.; Xu, Z.; Zhang, M.; Zeller, M.; Hunter, A. D.; Sin-Yin Chui, S.; Che, C.-M.: “Multiple Bi(III)-thioether Secondary Interactions Integrate Metalloporphyrin Ligands into Functional Networks,” *Inorg. Chem.*, **2007**, *46*, 4844-4849.
- P126. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: “(4aRS,7SR,9aRS)-7-tert-Butyl-5,5-dioxo-1,2,4a,9a-tetrahydro-8-oxa-5 λ^6 -thiabenzocycloheptan-9-one,” *Acta Cryst. E*, **2006**, *E62*, e4.
- P125. Prushan, M. J.; Tomezsko, D. M.; Lofland, S.; Zeller, M.; Hunter, A. D.: “A Nickel(II) di- μ_2 -Phenolato Bridged Dinuclear Complex: Weak Antiferromagnetic Interactions in Nickel(II) Dimers,” *Inorg. Chim. Acta*, **2007**, *360*(7), 2245-2254.

- P124. Akhbari, K.; Morsali, A.; Zeller, M.; Hunter, A. D.: “[$\text{Tl}_2(\mu\text{-Htdp})_2(\mu\text{-H}_2\text{O})_n$ ($\text{H}_2\text{tdp} = 4,4'$ -thiodiphenol): A One-Dimensional Thallium(I) Coordination Polymer with a large Tetranuclear Metallacycle; Thermal, Fluorescence and Structural Studies,” *Inorg. Chem. Commun.*, **2007**, *10*(2), 178-182.
- P123. Zeller, M.; Hunter, A. D.: “Bis(dimethylphosphorylmethylene)durene,” *Acta Cryst. Section E*, **2007**, *E63*, o802-o803.
- P122. Partyka, D. V.; Updegraff, J. B.; Zeller, M.; Hunter, A. D.; Gray, T. G.: “Carbon-Gold Bond Formation through [3 + 2] Cycloaddition Reactions of Gold(I) Azides and Terminal Alkynes,” *Organometallics*, **2007**, *26*, 183-186.
- P121. Tahir, A. A.; Hamid, M.; Zeller, M.; Mazhar, M.; Hunter, A. D.: “Bis(μ -acetylacetonato- $\kappa^2\text{O}:\text{O}'$)bis[(acetylacetonato- $\kappa^2\text{O}:\text{O}'$)-aquanickel(II)] hemihydrate,” *Acta Cryst. E*, **2007**, *E63*, m272–m274.
- P120. Bellizzi, M.; Crundwell, G.; Zeller, M.; Hunter, A. D.; McBurney, B.: “2,3,7,8-Tetrakis(5-chlorothien-2-yl)pyrazino[2,3-g]quinoxaline-para-xylene (3/2),” *Acta Cryst. E* **2006**, *E62*, o5249-o5251.
- P119. Hamid, M.; Tahir, A. A.; Mazhar, M.; Zeller, M.; Molloy, K. C.; Hunter, A. D.: “Synthesis of Isostructural Cage Complexes of Copper with Cobalt and Nickel for Deposition of Mixed Ceramic Oxide Materials,” *Inorg. Chem.*, **2006**, *45*, 10457-10466.
- P118. Partyka, D. V.; Zeller, M.; Hunter, A. D.; Gray, T. G.: “Relativistic Protons: Carbon-Gold Bond Formation by Transmetallation Reactions of Boronic Acids,” *Angew. Chem. Int. Ed. Engl.*, **2006**, *45*, 8188-8191.
- P117. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: “(4aSR,7SR,9aSR)-7-tert-Butyl-5,5-dioxo-1,2,4a,9a-tetrahydro-8-oxa-5 λ^6 -thiabenzocycloheptan-9-one,” *Acta Cryst. E*, **2006**, *E62*, o368-o369. <http://www.as.yosu.edu/~adhunter/Publications/P117.pdf>
- P116. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: “(4aSR,7SR,9aSR)-7-tert-Butyl-9a-methyl-5,5-dioxo-1,2,4a,9a-tetrahydro-8-oxa-5 λ^6 -thiabenzocycloheptan-9-one,” *Acta Cryst. E*, **2006**, *E62*, o370-o371. <http://www.as.yosu.edu/~adhunter/Publications/P116.pdf>
- P115. Nichols, M. A.; Sobinsky, R. M.; Hunter, A. D.; Zeller, M.: “Crystal structure of an n-butyllithium · 1,2-dipiperidinoethane dimer complex,” *J. Chem. Cryst.*, **2007**, *37*(6), 433-438.
- P114. Hamid, M.; H.; Zeller, M.; Hunter, A. D.; Mazhar, M.; Tahir, A. A.: “Redetermination of bis(2,4-pentanedionato)palladium(II),” *Acta Cryst. E*, **2005**, *E61*, m2181-m2183. <http://www.as.yosu.edu/~adhunter/Publications/P114.pdf>
- P113. Muhammad, S.; Mazhar, M.; Zeller, M.; Hunter, A. D.: “[2-(N,N-Dimethylamino)ethanol-k2N,O]bis(2,4-pentanedionato-k2O,O')manganese(II),” *Acta Cryst. E*, **2006**, *E62*, m224-m226. <http://www.as.yosu.edu/~adhunter/Publications/P113.pdf>
- P112. Muhammad, S.; Mazhar, M.; Zeller, M.; Hunter, A. D.: “Bis[2-(dimethylamino)ethanol- $\kappa^2\text{N},\text{O}$]-[2,4-pentanedionato- $\kappa^2\text{O},\text{O}'$]nickel(II) acetate,” *Acta Cryst. E*, **2006**, *E62*, m824–m826. <http://www.as.yosu.edu/~adhunter/Publications/P112.pdf>

- P111. Tahir, A. A.; Hamid, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Dioxobis(pentane-2,4-dionato)(tetrahydrofuran)uranium(VI)," *Acta Cryst. E*, **2006**, *E62*, m1780–m1781. <http://www.as.ysu.edu/~adhunter/Publications/P111.pdf>
- P110. Kass, J. P.; Zambrano, C. H.; Zeller, M.; Hunter, A. D.; Dueno, E. E.: "2,8,14,20-Tetraphenylpyrogallol[4]arene dimethylformamide octasolvate," *Acta Cryst. E*, **2006**, *E62*, o3179–o3180. <http://www.as.ysu.edu/~adhunter/Publications/P110.pdf>
- P109. Tahir, A. A.; Hamid, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Bis(acetato-O)bis[2-(dimethylamino)ethanol-κ₂N,O]cobalt(II)," *Acta Cryst. E*, **2006**, *E62*, m1974–m1976. <http://www.as.ysu.edu/~adhunter/Publications/P109.pdf>
- P108. Lobana, T. S.; Khanna, S.; Butcher, R. J.; Zeller, M.; Hunter, A. D.: "Synthesis, crystal structures and multinuclear NMR spectroscopy of copper(I) complexes with benzophenone thiosemicarbazone," *Polyhedron*, **2006**, *25*, 2755–2763. <http://www.as.ysu.edu/~adhunter/Publications/P108.pdf>
- P107. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "1-[(E)-Butadienylsulfonyl]-3,3-dimethylbut-2-yl methacrylate," *Acta Cryst. Section E*, **2005**, *E61*, o1369–o1370. <http://www.as.ysu.edu/~adhunter/Publications/P107.pdf>
- P106. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "(3*RS*,4*RS*,4*aSR*,7*SR*,9*aRS*)-7-*tert*-Butyl-9*a*-methyl-5,5-dioxo-3,4-epoxy-1,2,3,4,4*a*,9*a*-hexahydro-8-oxa-5λ⁶-thiabenzocycloheptan-9-one," *Acta Cryst. Section E*, **2005**, *E61*, o1411–o1413. <http://www.as.ysu.edu/~adhunter/Publications/P106.pdf>
- P105. Zeller, M.; DiMuzio, S. J.; Bee, K.; Clemente, J.; Frederick, J.; Fucci, A.; Gordon, L.; Harper, A.; Kasmar, A.; Kasmar, C.; Polomsky, S.; Simmons, A.; Smallsreed, D.; Underwood, T.; Hunter, A. D.: "Crystal and molecular Structures of tetra(3,5-dimethoxybenzen)porphyrin and its isomorphous copper(II) and nickel(II) complexes," *Zeitschrift für Kristallographie NCS*, **2006**, *221*, 15–19. <http://www.as.ysu.edu/~adhunter/Publications/P105.pdf>
- P104. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "(4*aSR*,7*RS*,9*aRS*)-7-*tert*-Butyl-9*a*-methyl-5,5-dioxo-1,2,4*a*,9*a*-tetrahydro-8-oxa-5λ⁶-thiabenzocycloheptan-9-one," *Acta Cryst. Section E*, **2005**, *E61*, o366–o367. <http://www.as.ysu.edu/~adhunter/Publications/P104.pdf>
- P103. Zeller, M.; Hunter, A. D.; Hoefnagels, R.; Geise, H. J.; Blockhuys, F.: "2,5-Bis(2,2-diphenylethenyl)thiophene," *Acta Cryst. Section E*, **2005**, *E61*, o4183–o4184. <http://www.as.ysu.edu/~adhunter/Publications/P103.pdf>
- P102. Li, K.; Xu, H.; Xu, Z.; Zeller, M.; Hunter, A. D.: "Semiconductive Coordination Networks from Bismuth(III) Bromide and 1,2-Bis(methylthio)phenylacetylene-Based Ligands," *Inorg. Chem.*, **2005**, *44*, 8855–8860. <http://www.as.ysu.edu/~adhunter/Publications/P102.pdf>
- P101. Hyatt, J. L.; Stacy, V.; Wadkins, R. M.; Yoon, K. J. P.; Wierdl, M.; Edwards, C. C.; Zeller, M.; Hunter, A. D.; Danks, M. K.; Crundwell, G.; Potter, P. M.: "Inhibition of Carboxylesterases by Benzil(Diphenylethane-1,2-dione) and Heterocyclic Analogues Is Dependent upon the Aromaticity of the Ring and the Flexibility of the Dione Moiety," *J.*

- Med.*, *Chem.*, **2005**, *48*, 5543-5550.
<http://www.as.yosu.edu/~adhunter/Publications/P101.pdf>
- P100. Backiel, S.; Bajrami, B.; Hunter, A. D.; Zeller, M.; Lesley, M. J. G.; “Bis(benzylsulfanyl)maleonitrile,” *Acta Cryst. Section E*, **2005**, *E61*, o2817-o2819.
<http://www.as.yosu.edu/~adhunter/Publications/P100.pdf>
- P99. Chumachenko, N.; Sampson, P.; Hunter, A. D.; Zeller, M.: “ β -Acyloxysulfonyl Tethers for Intramolecular Diels-Alder Cycloaddition Reactions,” *Org. Lett.*, **2005**, *7*, 3203-3206.
<http://www.as.yosu.edu/~adhunter/Publications/P99.pdf>
- P98. Hamid, M.; Mazhar, M.; Ali, A.; Zeller, M.; Hunter, A. D.: “Bis(acetylacetonato- κ^2 O,O')(N,N-dimethylaminoethanol- κ^2 N,O)zinc(II),” *Acta Cryst. Section E*, **2005**, *E61*, m1539-1541. <http://www.as.yosu.edu/~adhunter/Publications/P98.pdf>
- P97. Glagovich, N.; Reed, E.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: “N,N'-Bis(9H-fluoren-9-ylidene)benzene-1,2-diamine,” *Acta Cryst. Section E*, **2005**, *E61*, o1251-o1253. <http://www.as.yosu.edu/~adhunter/Publications/P97.pdf>
- P96. McBurney, B.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: “5-Nitrothiophene-2-carbaldehyde,” *Acta Cryst. Section E*, **2005**, *E61*, o1221-0122. <http://www.as.yosu.edu/~adhunter/Publications/P96.pdf>
- P95. Zeller, M.; Hunter, A. D.; McCarthy, J.; Capetta, S. H.; Brückner, C.: “Crystal and molecular structure of [5,10,15,20-tetrakisphenyl-2-ethoxy-3-oxa-chlorinato]Ag(II),” *J. Chem. Cryst.*, **2005**, *35*, 935-942.
<http://www.as.yosu.edu/~adhunter/Publications/P95.Draft.pdf>
- P94. Rader, N. C.; Nees, H. A.; Szalay, P. S.; Zeller, M.; Hunter, A. D.: “Preparation and Reactivity of 4,4-diaminostilbene-2,2'-disulfonate,” *J. Chem. Cryst.*, **2007**, *37(9)*, 609-614. <http://www.as.yosu.edu/~adhunter/Publications/P94.Draft.pdf>
- P93. Zeller, M.; Chema, A. R.; Szalay, P. S.; Hunter, A. D.: “Reactivity of 1,2,4,5-tetracarboxylatebenzene with Cobalt(II),” *J. Chem. Cryst.*, **2005**, 433-441.
<http://www.as.yosu.edu/~adhunter/Publications/P93.Proof.pdf>
- P92. Stacy, V.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: “2,3-Bis(5-bromo-2-thienyl)-6,7-dichloroquinoxaline,” *Acta Cryst. Section E*, **2005**, *E61*, o904-o905. <http://www.as.yosu.edu/~adhunter/Publications/P92.pdf>
- P91. Hnetinka, C.A.; Hunter, A. D.; Zeller, M.; Lesley, M. J. G.: “1,1'-Dibromoferrocene,” *Acta Cryst. Section E*, **2004**, *E60*, m1806-m1807.
<http://www.as.yosu.edu/~adhunter/Publications/P91.pdf>
- P90. Foss, P. C. D.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: “2,3-dithien-2'-ylquinoxaline-1-ium perchlorate,” *Acta Cryst. Section E*, **2004**, *E60*, o1281-o1282. <http://www.as.yosu.edu/~adhunter/Publications/P90.pdf>
- P89. Glagovich, N.; Foss, P. C. D.; Michalewski, O.; Reed, E.; Strathearn, K. E.; Weiner, Y. F.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: “Redetermination of 9-nitroanthracene at 100K,” *Acta Cryst. Section E*, **2004**, *E60*, o2125-o2126.
<http://www.as.yosu.edu/~adhunter/Publications/P89.pdf>

- P88. Glagovich, N.; Reed, E.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: "N-(9H-fluoren-9-ylidene)-N-(2-methoxyphenyl)amine," *Acta Cryst. Section E*, **2004**, E60, o2000-o2001. <http://www.as.yosu.edu/~adhunter/Publications/P88.pdf>
- P87. McBurney, B.; Foss, P. C. D.; Reed, E. M.; Shine, T. D.; Glagovich, N. M.; Westcott, B L.; Crundwell, G.; Zeller, M.; Hunter, A. D.: "1-Ethoxy-4-nitrobenzene," *Acta Cryst. Section E*, **2004**, E60, o2179-o2180. <http://www.as.yosu.edu/~adhunter/Publications/P87.pdf>
- P86. Kanaras, C.; Westcott, B. L.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.; Sommerer, S. O.: "Crystal structures of (di-2-pyridylketone)zinc dibromide and diiodide, $Zn(C_{11}H_8N_2O)X_2$ (X = Br, I)," *Zeitschrift für Kristallographie NCS*, **2004**, 219, 392-394. <http://www.as.yosu.edu/~adhunter/Publications/P86.pdf>
- P85. Van Droogenbroeck, J.; Van Alsenoy, C.; Aucott, S. M.; Wheatley, M.; Woollins, J. D.; Hunter, A. D.; Blockhuys, F.: "Structure, Bonding and Reactivity of the Organometallic 1,3,2,4-Dithiadiazole Complex, $CpCoS_2N_2$," *Organometallics*, **2005**, 24, 1004-1011. <http://www.as.yosu.edu/~adhunter/Publications/P85.pdf>
- P84. Zeller, M.; Hunter, A. D.: "Tricarbonyl (η^6 -N,N-Dimethylaniline)chromium," *Acta Cryst. Section E*, **2005**, E61, m23-m24. <http://www.as.yosu.edu/~adhunter/Publications/P84.pdf>
- P83. Pratap, P.; Hunter, A. D.; West, A.: "Remote Instrumentation," Proceedings of the NSF/AAAS Conference - "Invention and Impact: Building Excellence in Undergraduate Science, Technology, Engineering and Mathematics (STEM) Education", **2005**, 99-104. http://www.aaas.org/publications/books_reports/CCLI/#PDFs
<http://www.as.yosu.edu/~adhunter/Publications/P83.pdf>
- P82. Lesley, M. J. G.; Pineau, M.; Hunter, A. D.; Zeller, M.: "p-Anisolecarbonitrile," *Acta Cryst. Section E*, **2004**, E60, o1937-o1938. <http://www.as.yosu.edu/~adhunter/Publications/P82.pdf>
- P81. Zeller, M.; DiMuzio, S. J.; Hunter, A. D.: "Dibromobis(methyldiphenylphosphine)nickel(II)," *Acta Cryst. Section E*, **2004**, E60, m1595-m1596. <http://www.as.yosu.edu/~adhunter/Publications/P81.pdf>
- P80. Szalay, P. S.; Hunter, A. D.; Zeller, M.: "The Incorporation of Single Crystal X-Ray Diffraction into the Undergraduate Chemistry Curriculum Using Internet Facilitated Remote Diffractometer Control," *Journal of Chemical Education*, **2005**, 82, 1555-1557. <http://www.as.yosu.edu/~adhunter/Publications/P80.pdf>
- P79. Zeller, M.; Hunter, A. D.: "Crystal Structure of Molybdenum and tungsten trans-bis(dinitrogen)-bis{bis(di(p-ethylbenzene)phosphino)ethane} toluene solvate, $M(C_{34}H_{40}P_2)_2(N_2)_2C_7H_8$ (M = Mo, W)," *Zeitschrift für Kristallographie NCS*, **2004**, 219, 249-254. <http://www.as.yosu.edu/~adhunter/Publications/P79.pdf>
- P78. Glagovich, N. M.; Reed, E. M.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: "N-9H-fluoren-9-ylidene-N-(3,4-dimethylphenyl)amine," *Acta Cryst. Section E*, **2004**, E60, o1269-o1270. <http://www.as.yosu.edu/~adhunter/Publications/P78.pdf>

- P77. Vande Velde, C. M. L.; Chem. L.-J.; Baeke, J. K.; Moens, M.; Dieltiens, P.; Geise, H. J.; Zeller, M.; Hunter, A. D.; Blockhuys, F.: "The Influence of the Side Chain Length on – OCH₃- π Interactions Determining the Crystal Packing of Four Substituted 1,4-Bis(α -Styryl)Benzenes," *Crystal Growth & Design*, **2004**, *4*, 823-830. <http://www.as.ysu.edu/~adhunter/Publications/P77.pdf>
- P76. Wagner, N. L.; Murphy, K. L.; Haworth, D. T.; Bennett, D. W.; Hunter, A. D.; Zeller, M.; Takas, N.; DiMuzio, S. J.: "Para-Substituted Aryl-Isocyanides," *Inorganic Syntheses*, **2004**, *34*, 24-29. <http://www.as.ysu.edu/~adhunter/Publications/P76.pdf>
- P75. Zeller, M.; Hunter, A. D.; Perrine, C. L.; Payton, J.: "Tricarbonyl(η^6 -trifluoromethylbenzene)chromium," *Acta Cryst. Section E*, **2004**, *E60*, m668-m669. <http://www.as.ysu.edu/~adhunter/Publications/P75.pdf>
- P74. Zeller, M.; Hunter, A. D.; Perrine, C. L.; Payton, J.: "Tricarbonyl(η^6 -fluorobenzene)chromium," *Acta Cryst. Section E*, **2004**, *E60*, m650-m651. <http://www.as.ysu.edu/~adhunter/Publications/P74.pdf>
- P73. Belizzi, M.; Foss, P. C. D.; Crundwell, G.; Brücker, C.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: "Crystal Structure of 5,10,15,20-tetrakis(5'-methylthien-2'-yl)porphyrin, C₄₀H₃₀N₄S₄," *Zeitschrift für Kristallographie NCS*, **2004**, *219*, 129-131. <http://www.as.ysu.edu/~adhunter/Publications/P73.pdf>
- P72. Glagovich, N.; Reed, E.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: "N-9H-fluoren-9-ylidene-N-(4-methoxyphenyl)amine," *Acta Cryst. Section E*, **2004**, *E60*, o623-0625. <http://www.as.ysu.edu/~adhunter/Publications/P72.pdf>
- P71. Crundwell, G.; Linehan, J.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: "2,3-Bis(5-bromothien-2-yl)quinoxaline," *Acta Cryst. Section E*, **2004**, *E60*, o656-0657. <http://www.as.ysu.edu/~adhunter/Publications/P71.pdf>
- P70. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "(4aS*,9aS*)-9a-methyl-5,5-dioxo-1,2,4a,6,7,9a-hexahydro-8-oxa-5 λ^6 -thiabenzocyclohepten-9-one," *Acta Cryst. Section E*, **2004**, *E60*, o731-o732. <http://www.as.ysu.edu/~adhunter/Publications/P70.pdf>
- P69. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "(4aS*,7R*,9aS*)-7,9a-dimethyl-5,5-dioxo-1,2,4a,6,7,9a-hexahydro-8-oxa-5 λ^6 -thiabenzocyclohepten-9-one," *Acta Cryst. Section E*, **2004**, *E60*, o729-o730. <http://www.as.ysu.edu/~adhunter/Publications/P69.pdf>
- P68. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "(4aS*,7R*,9aR*)-9a-bromo-7-methyl-5,5-dioxo-1,2,4a,6,7,9a-hexahydro-8-oxa-5 λ^6 -thiabenzocyclohepten-9-one," *Acta Cryst. Section E*, **2004**, o727-o728. <http://www.as.ysu.edu/~adhunter/Publications/P68.pdf>
- P67. Zeller, M.; Hunter, A. D.; Sampson, P.; Chumachenko, N.: "(4aS*,7S*,9aR*)-9a-bromo-7-methyl-5,5-dioxo-1,2,4a,6,7,9a-hexahydro-8-oxa-5 λ^6 -thiabenzocyclohepten-9-one," *Acta Cryst. Section E*, **2004**, o724-o726. <http://www.as.ysu.edu/~adhunter/Publications/P67.pdf>

- P66. Zeller, M.; Wilcox, R. J.; Snyder III, F. G.; Seibel II, H. A.; Takas, N. J.; Hunter, A. D.: "Hydrogen Bonding in Aromatic Formamides," *J. Chem. Cryst.*, **2004**, 35, 723-729. <http://www.as.ysu.edu/~adhunter/Publications/P66.Draft.pdf>
- P65. Perrine, C. L.; Zeller, M.; Woolcock, J. C.; Hunter, A. D.: "Crystal Structure of Ferrocenyl Amine," *J. Chem. Cryst.*, **2005**, 35, 717-721. <http://www.as.ysu.edu/~adhunter/Publications/P65.Draft.pdf>
- P64. Zeller, M.; Hunter, A. D.: "*p*-Nitrophenyl isocyanide," *Acta Cryst. Section C*, **2004**, C60, o415-o417. <http://www.as.ysu.edu/~adhunter/Publications/P64.pdf>
- P63. Zeller, M.; Hunter, A. D.; Meta, C.: "Tricarbonyl(η^6 -1,3-dimethoxybenzene)chromium," *Acta Cryst. E*, **2004**, E60, m432-m433. <http://www.as.ysu.edu/~adhunter/Publications/P63.pdf>
- P62. Zeller, M.; Hunter, A. D.; Takas, N. T.: "Tricarbonyl(η^6 -1,3-dimethylbenzene)chromium," *Acta Cryst. E*, **2004**, E60, m434-m435. <http://www.as.ysu.edu/~adhunter/Publications/P62.pdf>
- P61. Westcott, B. L.; Crundwell, G.; Burkholder, T. R.; Michelsen, L. A.; Gardner, C. B.; Gruhn, N. E.; Hunter, A. D.; Miner, P.; Zeller, M.: "The Molecular and Electronic Structure of N,N'-Ethylenebis(acetylacetylone)oxovanadium(IV) and the Electronic Structure of its Thio Analogue," *Journal of Electron Spectroscopy and Related Phenomena*, **2003**, 135, 1-5. <http://www.as.ysu.edu/~adhunter/Publications/P61.pdf>
- P60. Zeller, M.; Hunter, A. D.: "Tricarbonyl(η^6 -1,3,5-trimethoxybenzene)Chromium(0)," *Acta Cryst. Section E*, **2003**, E59, m1078-m1079. <http://www.as.ysu.edu/~adhunter/Publications/P60.pdf>
- P59. Stacey, V. L.; Crundwell, G.; Updegraff III, J. B.; Zeller, M.; Hunter, A. D.: "4-Bromothiophene-2-carboxaldehyde," *Acta Cryst. Section E*, **2003**, E59, o1812-o1813. <http://www.as.ysu.edu/~adhunter/Publications/P59.pdf>
- P58. Zeller, M.; Lazich, E.; Wagner, T. R.; Hunter, A. D.: "1,2-Bis[ditolylphosphino]ethane," *Acta Cryst. Section E*, **2003**, E59, o1721-o1722. <http://www.as.ysu.edu/~adhunter/Publications/P58.pdf>
- P57. Hunter, A. D.; Zeller, M.; McSparrin, L.: "Bis[1,2-bis(*p*-ethylbenzene)phosphino]benzene," *Acta Cryst. Section E*, **2003**, E59, o1719-o1720. <http://www.as.ysu.edu/~adhunter/Publications/P57.pdf>
- P56. Zeller, M.; Hunter, A. D.; Regula, J. L.; Szalay, P. S.: "(η^6 -4-Fluoroaniline)chromium(tricarbonyl)," *Acta Cryst. Section E*, **2003**, E59, m975-m976. <http://www.as.ysu.edu/~adhunter/Publications/P56.pdf>
- P55. Zeller, M.; Lazich, E.; Hunter, A. D.: "Dicarbonyl(η^5 -cyclopentadienyl)iodoiron(II)," *Acta Cryst. Section E*, **2003**, E59, m914-m915. <http://www.as.ysu.edu/~adhunter/Publications/P55.pdf>
- P54. Zeller, M.; Hunter, A. D.: "1,4-Diisocyano-2,5-dimethylbenzene," *Acta Cryst. Section E*, **2003**, E59, o1653-o1654. <http://www.as.ysu.edu/~adhunter/Publications/P54.pdf>

- P53. Zeller, M.; Hunter, A. D.; Perrine, C. L.: “*p*-Diisocyanotetramethylbenzene,” *Acta Cryst. Section E*, **2003**, E59, o1655-o1656. <http://www.as.yasu.edu/~adhunter/Publications/P53.pdf>
- P52. Crundwell, G.; Westcott, B. L.; Coffey, R.; Zeller, M.; Hunter, A. D.; “Crystal structures of two different cobalt(III) complexes with di-2-pyridyl ketone grown from methanol-Bis-(methoxy-bis(2-pyridyl)methanolato-O,N,N’)-cobalt(III) nitrate trihydrate and (hydroxy-bis(2-pyridyl)methanolato-O,N,N’)-(methoxy-bis(2-pyridyl)methanolato-O,N,N’)-cobalt(III) nitrate trihydrate,” *Inorganica Chimica Acta*, **2003**, 355C, 432-437. <http://www.as.yasu.edu/~adhunter/Publications/P52.pdf>
- P51. Franz, A. H.; Samoshin, V. V.; Myers, C.; Hunter, A. D.; Gross, P. H.: “C-H - Deprotonation mediated by a remote *syn*-axial acetoxy group - an unprecedented double bond formation upon cyanation of the dimer from L-Fucal,” *Carbohydrate Research*, **2003**, 338, 851-854. <http://www.as.yasu.edu/~adhunter/Publications/P51.pdf>
- P50. Hunter, A. D.: “Solid Sodium Amalgam,” in *Inorganic Experiments*, J. D. Woollins Ed., VCH, New York, **2003**, 211-213. <http://www.as.yasu.edu/~adhunter/Publications/P50.pdf>
- P49. Hunter, A. D.; Woollins, J. D.: “Discovery Research with Cr, Mo, and W Nitrosyl Complexes: A Multi-Step Organometallic Synthesis,” in *Inorganic Experiments*, 2nd Edition, J. D. Woollins Ed., VCH, New York, **2003**, 368-372. <http://www.as.yasu.edu/~adhunter/Publications/P49.pdf>
- P48. Hunter, A. D.: “Discovery Research with Arene Chromium Tricarbonyl Chemistry,” in *Inorganic Experiments*, J. D. Woollins Ed., VCH, New York, **2003**, 364-367. <http://www.as.yasu.edu/~adhunter/Publications/P48.pdf>
- P47. Hunter, A. D.: “Discovery Research with Model One Dimensional Organometallic Materials of Ni, Pd, and Pt,” in *Inorganic Experiments*, J. D. Woollins Ed., VCH, New York, **2003**, 222-226. <http://www.as.yasu.edu/~adhunter/Publications/P47.pdf>
- P46. Hunter, A. D.: “Discovery Research with Cyclopentadienyl Iron Carbonyl Chemistry” in *Inorganic Experiments*, J. D. Woollins Ed., VCH, New York, **2003**, 214-221. <http://www.as.yasu.edu/~adhunter/Publications/P46.pdf>
- P45. Hunter, A. D.: “Discovery Research with Siloxane Chemistry,” in *Inorganic Experiments*, J. D. Woollins Ed., VCH, New York, **2003**, 77-81. <http://www.as.yasu.edu/~adhunter/Publications/P45.pdf>
- P44. Hunter, A. D.: “Introduction to Discovery Oriented/Group Leaning Laboratory Experiences” in *Inorganic Experiments*, J. D. Woollins Ed., VCH, New York, **2003**, 4-6. <http://www.as.yasu.edu/~adhunter/Publications/P44.pdf>
- P43. Woltz, J.; Westcott, B. L.; Crundwell, G.; Zeller, M.; Hunter, A. D.: “Bis(di-2-pyridylmethanediol-κ²N,N’)iron(III) nitrate dihydrate,” *Acta Crystallographica Section E*, **2002**, E58, m609-m610. <http://www.as.yasu.edu/~adhunter/Publications/P43.pdf>
- P42. Bennett, M. A.; Ditzel, E. J.; Hunter, A. D.; Khan, K.; Kopp, M. R.; Neumann, H.; Robertson, G. B.; Zeh, H.: “Coordination and Organometallic Complexes of Iron Containing *o*-phenylenebis(dimethylphosphine)(pdmp). Crystal and Molecular Structure

- of $[\text{Fe}(\eta^2\text{-C}_2\text{H}_4)(\text{pdmp})_2]$,” *Dalton*, **2000**, 1733-1741.
<http://www.as.ysu.edu/~adhunter/Publications/P42.pdf>
- P41. Adrian, J. C.; Barkin, J. L.; Fox, R. J.; Chick, J. E.; Hunter, A. D.; Nicklow, R. A.: “Chlorotitanium Enolate Addition to Aldimines: A Stereoselective Route to α -Oxy- β -Substituted- β -Amino Esters,” *Journal of Organic Chemistry*, **2000**, 65, 6264-6267.
<http://www.as.ysu.edu/~adhunter/Publications/P41.pdf>
- P40. Smith, C. C.; Jacyno, J. M.; Zeiter, K. K.; Parkanzky, P. D.; Paxson, C. E.; Pekelnicky, P.; Harwood, J. S.; Hunter, A. D.; Lucarelli, V. G.; Lufaso, M. W.; Cutler, H. G.: “Nitration of Cyclopentenecarboxaldehyde: Studies Toward 1-Amino-2-Nitrocyclopentanecarboxylic Acid,” *Tetrahedron Letters*, **1998**, 39, 6617-6620.
<http://www.as.ysu.edu/~adhunter/Publications/P40.pdf>
- P39. Cashman, J. R.; Berkman, C. E.; Underliner, G.; Kolly, C. A.; Hunter, A. D.: "Cocaine Benzoyl Thioester: Synthesis, Kinetics of Base Hydrolysis, and Application to the Assay of Cocaine Esterases," *Chem. Res. Toxicol.*, **1998**, 11, 895-901.
<http://www.as.ysu.edu/~adhunter/Publications/P39.pdf>
- P38. Landis, K. G.; Hunter, A. D.; Wagner, T. R.; Curtin, L. S.; Filler, F. L.; Jansen-Varnum, S. A.: “The Synthesis and Characterization of Ni, Pd, and Pt Maleonitriledithiolate Complexes: X-Ray Crystal Structures of the Isomorphous Ni, Pd, and Pt $(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{M}(\text{Maleonitriledithiolate})$ Congeners,” *Inorganica Chimica Acta*, **1998**, 282, 155-162. <http://www.as.ysu.edu/~adhunter/Publications/P38.pdf>
- P37. Hunter, A. D.: “A Capstone Writing Experience in Polymer Chemistry: Writing a Proposal to Management for the Purchase of New Polymer Characterization Instrumentation,” *Journal of Chemical Education*, **1998**, 75, 1424.
<http://www.as.ysu.edu/~adhunter/Publications/P37.pdf>
- P36. Hunter, A. D.; Bianconi, L. J.; DiMuzio, S. J.; Braho, D. L.: “Synthesis and Structure/Property Relationships in $(\eta^6\text{-Arene})\text{Cr}(\text{CO})_3$ Chemistry: from Guided Experiments to Discovery Research. Physical Properties, IR, MS, and Multinuclear NMR Spectra, and Cyclic Voltammetry,” *Journal of Chemical Education*, **1998**, 75, 891-893.
<http://www.as.ysu.edu/~adhunter/Publications/P36.pdf>
- P35. Hunter, A. D.: “Crystallographic Structure Determination: An Experiment for Organic Analysis and other Non-Traditional Venues,” *Journal of Chemical Education*, **1998**, 75, 1297-1299. <http://www.as.ysu.edu/~adhunter/Publications/P35.pdf>
- P34. Chukwu, R.; Hunter, A. D.; Santarsiero, B. D.; Bott, S. G.; Atwood, J. L.: “Synthesis and Characterization of Polyaromatic Azine Derivatives of $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2$ and $(\eta^5\text{-C}_9\text{H}_7)\text{Fe}(\text{CO})_2$: X-ray Crystal Structures of 4- $[(\eta^5\text{-cyclopentadienyl})\text{iron}(\text{dicarbonyl})]$ -7-chloroquinoline, 2- $[(\eta^5\text{-cyclopentadienyl})\text{iron}(\text{dicarbonyl})]$ -3-chloroquinoxaline, and 2- $[(\eta^5\text{-indenyl})\text{iron}(\text{dicarbonyl})]$ -3-chloroquinoxaline,” *J. Organometallic Chemistry*, **1996**, 526, 1-14.
<http://www.as.ysu.edu/~adhunter/Publications/P34.pdf>
- P33. Hunter, A. D.; Guo, X. A.: “Organometallic Polymers, Fluoroarylene Bridged (Rigid Rods to Segmented Chains),” *The Polymeric Materials Encyclopedia, Volume 6*, CRC Press, **1996**, 4813-4822. <http://www.as.ysu.edu/~adhunter/Publications/P33.pdf>

- P32. Guo, X. A.; Hunter, A. D.: "Polyfluoroacrylates (Effects of Side-Chain H/F Variations)," *The Polymeric Materials Encyclopedia, Volume 8*, CRC Press, **1996**, 6138-6144. <http://www.as.ysu.edu/~adhunter/Publications/P32.pdf>
- P31. Seyferth, D.; Ruschke, D. P.; Davis, W. M.; Cowie, M.; Hunter, A. D.: "Reactions of Triethylammonium Salts of the $[(\mu\text{-CO})(\mu\text{-RS})\text{Fe}_2(\text{CO})_6]^-$ Anions with Alkynylmercury Compounds. Unexpected Products via Hydrogen Migration Processes, *Organometallics*, **1994**, *13*, 3834-3848. <http://www.as.ysu.edu/~adhunter/Publications/P31.pdf>
- P30. Guo, X. A.; Hunter, A. D.; Chen, J.: "Synthesis and Characterization of Novel Organonickel-Organosilicon Alternating Copolymers," *J. Polymer Science, Part A*, **1994**, *32*, 2859-2866. <http://www.as.ysu.edu/~adhunter/Publications/P30.pdf>
- P29. Guo, X. A.; Sturge, K. C.; Hunter, A. D.; Williams, M. C.: "Molecular Weight Determination and Establishment of a Rod-Like Structure for Organonickel Polymers - $[\text{Ni}(\text{PR}_3)_2\text{Ar}^F]_n^-$," *Macromolecules*, **1994**, *27*, 7825-7829. <http://www.as.ysu.edu/~adhunter/Publications/P29.pdf>
- P28. Macdonald, P.M.; Hunter, A. D.; Lesley, G.; Li, J.: "Solid State Distortions of Linear Mono-, Bi-, and Trimetallic Bis(Tri-n-Butylphosphine)Nickel and Palladium Complexes Having 1,4-Tetrafluorophenylene Bridges as Observed Via ^{31}P CP/MAS NMR Spectroscopy," *Solid State Nuclear Magnetic Resonance*, **1993**, *2*, 47-55. <http://www.as.ysu.edu/~adhunter/Publications/P28.pdf>
- P27. Guo, X. A.; Hunter, A. D.; Chen, J.: "Preparation and Characterization of Acrylates and Polyacrylates Having Variable Fluorine Contents and Distributions," *J. Polym. Sci., Part A*, **1994**, *32*, 47-56. <http://www.as.ysu.edu/~adhunter/Publications/P27.pdf>
- P26. Guo, X. A.; Hunter, A. D.: "Polyesters, Polycarbonate, and Polyurethanes from a Novel Monomer: $\alpha,\alpha,\alpha',\alpha'$ -Tetramethyl-1,4-tetrafluorobenzene dimethanol," *J. Polym. Sci., Part A*, **1993**, *31*, 1431-1439. <http://www.as.ysu.edu/~adhunter/Publications/P26.pdf>
- P25. Li, J.; Hunter, A. D.; McDonald, R.; Santarsiero, B. D.; Bott, S. G.; Atwood, J. L.: " π -Donor Interactions and the Origin of Arene Non-Planarity in Heterobimetallic $(\eta^6\text{-Arene})\text{Cr}(\text{CO})_3$ Complexes Having σ -Bonded Organometallic Substituents: X-ray Crystal Structures of $(\eta^6\text{-C}_6\text{H}_5((\eta^5\text{-C}_5\text{H}_4\text{Me})\text{Fe}(\text{CO})_2))\text{Cr}(\text{CO})_3$, $(\eta^6\text{-C}_6\text{H}_5((\eta^5\text{-indenyl})\text{Fe}(\text{CO})_2))\text{Cr}(\text{CO})_3$, and $(\eta^6\text{-1,4-C}_6\text{H}_4\text{Me}((\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2))\text{Cr}(\text{CO})_3$," *Organometallics*, **1992**, *11*, 3050-3055. <http://www.as.ysu.edu/~adhunter/Publications/P25.pdf>
- P24. Sturge, K. C.; Hunter, A. D.; McDonald, R.; Santarsiero, B. D.: "Organometallic Polymer and Linear Mono-, Bi-, and Trimetallic Octafluoro-p,p'-biphenylene-Bridged Complexes of Bis(methyldiphenylphosphine)nickel: X-ray Crystal Structures of $\text{Ni}(\text{PmePh}_2)_2(4,4'\text{-C}_{12}\text{F}_8\text{H})\text{Br}$ and $\text{Ni}(\text{PMePh}_2)_2(4,4'\text{-C}_{12}\text{F}_8\text{H})_2$," *Organometallics* **1992**, *11*, 3056-3062. <http://www.as.ysu.edu/~adhunter/Publications/P24.pdf>
- P23. McDonald, R.; Sturge, K. C.; Hunter, A. D.; Shilliday, L.: "Synthesis and Spectroscopic Characterization of Linear Mono-, Bi- and Trimetallic Bis(methyldiphenylphosphine)nickel Complexes having 1,4-Tetrafluorophenylene Bridges," *Organometallics*, **1992**, *11*, 893-900. <http://www.as.ysu.edu/~adhunter/Publications/P23.pdf>

- P22. Hunter, A. D.; Mozol, V.; Tsai, S. D.: "Non-linear Substituent Interactions and the Electron-Richness of Substituted (η^6 -Arene)Cr(CO)₃ Complexes: The Role of π -Donor and π -Acceptor Interactions," *Organometallics*, **1992**, *11*, 2251-2262. <http://www.as.yosu.edu/~adhunter/Publications/P22.pdf>
- P21. Hunter, A. D.; Shilliday, L.; Furey, W. S.; Zaworotko, M. J.: "A Systematic X-ray Crystallographic Study of the Structural Manifestations of the π -Donor and π -Acceptor Substituent Effects in Substituted (η^6 -Arene)Cr(CO)₃ Complexes," *Organometallics*, **1992**, *11*, 1550-1560. <http://www.as.yosu.edu/~adhunter/Publications/P21.pdf>
- P20. Hunter A. D.; Ristic-Petrovic, D.; McLernon, J. L.: "Biphenyl-, Terphenyl-, Naphthalene-, and Anthracene-Bridged Bimetallic Complexes of Iron and Chromium," *Organometallics*, **1992**, *11*, 864-871. <http://www.as.yosu.edu/~adhunter/Publications/P20.pdf>
- P19. Chukwu, R.; Hunter, A. D., Santarsiero, B. D.; Bott, S. G.; Atwood, J. L.; Chassignac, J.; "Electrochemical, Spectroscopic and Structural Studies of Mono- and Bimetallic Complexes of Iron: X-ray Crystal Structures of CpFe(CO)₂-C₆F₅, 4-CpFe(CO)₂-C₅F₄N and 1,4-C₆F₄(CpFe(CO)₂)₂," *Organometallics*, **1992**, *11*, 589-597. <http://www.as.yosu.edu/~adhunter/Publications/P19.pdf>
- P18. Chukwu, R.; Hunter, A. D.; Santarsiero, B. D.: "Novel Organometallic Complexes Containing Aromatic Azines: Synthesis and X-ray Crystal Structure of 4,6-Bis[(η^5 -cyclopentadienyl)dicarbonyliron]-2-(methylthio)pyrimidine," *Organometallics*, **1991**, *10*, 2141-2152. <http://www.as.yosu.edu/~adhunter/Publications/P18.pdf>
- P17. Richter-Addo, G. B.; Hunter, A. D.; Wichrowska, N.: "Arene σ,π Complexes: Synthesis and Electrochemistry of (η^6 -1,4-C₆H₄XFp)Cr(CO)₃ (where X = H, Me, Cl or OMe; Fp = (η^5 -C₅H₅)Fe(CO)₂)," *Can. J. Chem.*, **1990**, *68*, 41-48. <http://www.as.yosu.edu/~adhunter/Publications/P17.pdf>
- P16. Richter-Addo, G. B.; Hunter, A. D.: "Redox-Active Phenylene-Bridged Polymetallic σ,π Complexes Containing Iron and Chromium," *Inorg. Chem.*, **1989**, *28*, 4063-4065. <http://www.as.yosu.edu/~adhunter/Publications/P16.pdf>
- P15. Hunter, A. D.; McLernon, J. L.: "Arene-Bridged Polymetallic Clusters: σ,π Complexes of CpFe(CO)₂ or Cp'Fe(CO)₂ and Cr(CO)₃, Mo(CO)₃ or W(CO)₃," *Organometallics*, **1989**, *8*, 2679-2688. <http://www.as.yosu.edu/~adhunter/Publications/P15.pdf>
- P14. Hunter, A. D.; Szigety, A. B.: "Phenylene-Bridged Organometallic Complexes of Iron and Manganese," *Organometallics*, **1989**, *8*, 2670-2679. <http://www.as.yosu.edu/~adhunter/Publications/P14.pdf>
- P13. Hunter, A. D.: " σ,π Complexes of Benzene," *Organometallics*, **1989**, *8*, 1118-1120. <http://www.as.yosu.edu/~adhunter/Publications/P13.pdf>
- P12. Seyferth, D.; Ruschke, D. P.; Davis, W. M.; Cowie, M.; Hunter, A. D.: "The Unexpected Formation of an Fe₂(CO)₆ Complex Containing a μ_2 -Bridging Carbyne Ligand: Structure and Reactivity," *Organometallics*, **1989**, *8*, 836-839. <http://www.as.yosu.edu/~adhunter/Publications/P12.pdf>

- P11. Seyferth, D.; Hoke, J. B.; Rheingold, A. L.; Cowie, M.; Hunter, A. D.: "Novel Organotransition-Metal Cluster Complexes *via* Reactions of Dinuclear Metal Carbonyls with $(\mu\text{-}\sigma,\pi\text{-Alkynyl})(\mu\text{-alkane-thiolato})\text{bis}(\text{tricarbonyliron})$ Complexes," *Organometallics*, **1988**, *7*, 2163-2172.
<http://www.as.ysu.edu/~adhunter/Publications/P11.pdf>
- P10. Seyferth, D.; Hoke, J. B.; Cowie, M.; Hunter, A. D.: "Synthesis of $(\mu_3,\eta^2\text{-vinylidene})\text{-}(\mu\text{-CO})\text{nonacarbonyltriiron}$ Complexes," *J. Organomet. Chem.*, **1988**, *346*, 91-104.
<http://www.as.ysu.edu/~adhunter/Publications/P10.pdf>
- P9. Christensen, N. J.; Hunter, A. D.; Legzdins, P.: "Novel Physical and Chemical Properties of Acyclic, Conjugated Dienes Coordinated to $\text{Cp}'\text{Mo}(\text{NO})$ Groups [$\text{Cp}' = \eta^5\text{-C}_5\text{H}_5(\text{Cp})$ or $\eta^5\text{-C}_5\text{Me}_5(\text{Cp}^*)$]," *Organometallics*, **1989**, *8*, 930-940.
<http://www.as.ysu.edu/~adhunter/Publications/P09.pdf>
- P8. Christensen, N. J.; Hunter, A. D.; Legzdins, P.; Sánchez, L.: "Reduction of $[(\eta^5\text{-C}_5\text{H}_5)\text{M}(\text{NO})\text{I}_2]_2$ ($\text{M} = \text{Mo}$ or W) Dimers by Pme_3 : Synthesis and Properties of the Novel Complexes $\text{M}(\text{NO})(\text{Pme}_3)_4\text{I}$," *Inorg. Chem.*, **1987**, *26*, 3344-3347.
<http://www.as.ysu.edu/~adhunter/Publications/P08.pdf>
- P7. Hunter, A. D.; Legzdins, P.; Einstein, F. W. B.; Willis, A. C.; Bursten, B. E.; Gatter, M. G.: "Structural and Electronic Consequences of Coordinating Butadiene to $(\eta^5\text{-C}_5\text{H}_5)\text{Mo}(\text{NO})$," *J. Am. Chem. Soc.*, **1986**, *108*, 3843-3844.
<http://www.as.ysu.edu/~adhunter/Publications/P07.pdf>
- P6. Hunter, A. D.; Legzdins, P.: "Reductive Synthesis and Characterization of the Complexes $\text{CpM}(\text{NO})\text{L}_2$ ($\text{Cp} = \eta^5\text{-C}_5\text{H}_5$; $\text{M} = \text{Cr}$, Mo , or W ; $\text{L} = \text{Lewis Base}$)," *Organometallics*, **1986**, *5*, 1001-1009. <http://www.as.ysu.edu/~adhunter/Publications/P06.pdf>
- P5. Hunter, A. D.; Legzdins, P.; Martin, J. T.; Sánchez, L.: "Cyclopentadienylnitrosyl Complexes of Tungsten," *Organomet. Synth.*, **1986**, *3*, 58-68.
<http://www.as.ysu.edu/~adhunter/Publications/P05.pdf>
- P4. Hunter, A. D.; Legzdins, P.; Nurse, C. R.; Einstein, F. W. B.; Willis, A. C.: "Very Twisted $\eta^4\text{-trans-Diene}$ Complexes," *J. Am. Chem. Soc.*, **1985**, *107*, 1791-1792.
<http://www.as.ysu.edu/~adhunter/Publications/P04.pdf>
- P3. Hunter, A. D.; Legzdins, P.: "On the Trail of Dichlorodinitrosyltungsten: A Tale of Two Reactions," *Inorg. Chem.*, **1984**, *23*, 4198-4204.
<http://www.as.ysu.edu/~adhunter/Publications/P03.pdf>
- P2. Hunter, A. D.; Legzdins, P.: "Novel $(\eta^6\text{-6-Alkenylfulvene})\text{tricarbonylchromium}(\text{O})$ Complexes Resulting from the Reactions of $\text{Na}[(\eta^5\text{-C}_5\text{H}_4\text{R}')\text{Cr}(\text{CO})_3]$ ($\text{R}' = \text{H}$ or Me) with Some Allyl Chlorides," *Organometallics*, **1983**, *2*, 525-529.
<http://www.as.ysu.edu/~adhunter/Publications/P02.pdf>
- P1. Hunter, A. D.; Burnell, E. E.; Wong, T. C.: "Vibrationally Averaged Structure of Azulene Partially Oriented in a Nematic Phase," *J. Molec. Struct.*, **1983**, *99*, 159-164.
<http://www.as.ysu.edu/~adhunter/Publications/P01.pdf>

Papers in which Hunter's assistance has been acknowledged:

A1. Zeller, M.: "A Half Cleaved Zirconacyclopentadiene," *Inorg. Chem. Commun.*, **2004**, 7, 245-248.

Crystal Structures Deposited & Checked by the CCDC: (undergraduate co-authors, high-school teacher coauthors)

- C16. Partyka, D. V.; Updegraff, J. B.; Gray T. G.; Zeller, M.; Hunter, A. D.: "Azido-(triphenylphosphine)-gold(I) (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2006**, CCDC 624228.
- C15. Sultan, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Gallium (III) trisacetylacetonate," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 286225.
- C14. Hamid, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Copper (II) diacetylacetonate (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 281026.
- C13. Tahir, A. A.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Bis(acetylacetonato- κ^2 O,O')(N,N-dimethylaminoethanol- κ^2 N,O)nickel(II) (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 281025.
- C12. Hamid, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Bis(2,2,6,6-tetramethyl3,5-heptanedionato)copper(II) (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 281024.
- C11. Nazir, R.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Dichloro-(1,2-Bis(diphenylphosphino)ethane-P,P')-nickel(II) dichloromethane solvate (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 281022.
- C10. Sultan, M.; Mazhar, M.; Zeller, M.; Hunter, A. D.: "Tetrakis(μ_2 -acetato)-bismethanol-dicopper(II) (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 281022.
- C9. Zeller, M.; Prushan, M.; Hunter, A. D.: "(Acetato-O)(1,3-bis((4-methyl-2-pyridyl)imino)-isoindolinato-N,N',N'')copper(ii)monohydrate," *private communication to the Cambridge Crystallographic Data Centre*, **2005**, CCDC 273701.
- C8. Lesley, M. J. G.; Pineau, M.; Zeller, M.; Hunter, A. D.: "Bis(methylmercapto)maleonitrile (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 252516.
- C7. Zeller, M.; DiMuzio, S. J.; Wilcox, R.; Hunter, A. D.: "Copper(II)tetraphenylporphyrine (remeasurement)," *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 252379.
- C6. Zeller, M.; Hunter, A. D.: "Bis(di(*p*-ethylbenzene)phosphino)ethane," Cambridge Crystallographic Data Center, *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 253150.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- C5 Zeller, M.; Hunter, A. D.: “*p*-Isocyano-tetrafluoroanisole,” Cambridge Crystallographic Data Center, *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 253149.
- C4. Zeller, M.; Werblan, K. E.; Curtin, L.; Hunter, A. D.: “4-Nitrophenyl ferrocene (remeasurement),” Cambridge Crystallographic Data Center, *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 252664.
- C3. Zeller, M.; Lufaso, M. W.; Curtin, L.; Hunter, A. D.: “Monoacetyl ferrocene (remeasurement),” Cambridge Crystallographic Data Center, *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 252665.
- C2. Zeller, M.; Lufaso, M. W.; Curtin, L.; Hunter, A. D.: “Diferrocenyl ethane (remeasurement),” Cambridge Crystallographic Data Center, *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 252663.
- C1. Zeller, M.; Mills, F.; Long, J. R.; Mehta, M. A.; Hunter, A. D.: “L-Alanylglycylglycine (remeasurement),” Cambridge Crystallographic Data Center, *private communication to the Cambridge Crystallographic Data Centre*, **2004**, CCDC 252455.

Theses Currently Being Carried Out Under Hunter’s Supervision: *

- TIP. MS Chemistry “CyberInstrumentation and Surface Coatings on Bacterial Cell Walls,” **Joelle Wells**, *Started with Hunter: Summer 2008 (Started: Fall 2007)*, Co-Supervised with Diana Fagan, Youngstown State University Biological Sciences, assistantship until Summer 2010.
- TIP. MS Chemistry “CyberInstrumentation, Materials Characterization, & Diffraction Methods,” **Aimable Ngendahimana**, *Started with Hunter: Fall 2007*, Co-Supervised with Tim Wagner, Youngstown State University Chemistry, assistantship until Summer 2010.
- TIP. MS Computer Science & Information Systems “CyberLabNet Software Development,” **Craig Richards**, *Started with Hunter: Fall 2007*, Co-Supervised with Graciela Perera, Youngstown State University Computer Science & Information Systems, Cushwa Fellowship until Summer 2010.

Theses Completed Under Hunter’s Supervision:

- T15. MS Chemistry “Synthesis and Characterization of Carbohydrate Mimics,” **Lucas Beagle**, **2008**, Co-Supervised with Peter Norris (Youngstown State University).
- T14. MS Chemistry “Solid-State Analytical Chemistry: Surface and Bulk Characterization by Complimentary Analytical Methods,” **Rachel Kusnic**, **2007**, Co-Supervised with Drew Hirt of Materials Research Laboratories (Youngstown State University).
- T13. MS Chemistry “Theoretical and Spectroscopic Studies of the Structure-Property Relationships in the Mono-substituted (η^6 -Arene)chromiumtricarbonyl Complexes,” **John L. Payton**, **2004** (Youngstown State University).
- T12. MS Chemistry “The Synthesis of Organometallic Nanorods from Molybdenum and Tungsten Diisonitrile Complexes and a New Method to Synthesize Air-Stable Sodium

* TIP \equiv Thesis In Progress

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- Cyclopentadienide (NaCp),” **James B. Updegraff III, 2004** (Youngstown State University).
- T11. MS Chemistry “0th and 1st Generation Organometallic NanoStars from Ferrocenyl Amine and Ferrocenyl Aniline,” **Cynthia L. Perrine, 2004** (Youngstown State University).
- T10. MS Chemistry “Synthesis and Characterization of Zero and First Generation Organometallic NanoRods,” **Evelyn Lazich, 2004** (Youngstown State University).
- T9. MS Chemistry “Identification of Signature Compounds for Breast Cancer Via Nuclear Magnetic Resonance,” **Bev Smith-Papa** (now Anderson), **1997** (Youngstown State University).
- T8. MS Chemistry “Organometallic Polymers,” **Steven DiMuzio, 1996** (Youngstown State University).
- T7. Ph.D. Chemistry “Long-Range Electron Transfer,” **Stanislaus Tsai, 1995** (University of Alberta).
- T6. MS Chemistry “Electron Deficient Polyarylene Siloxanes,” **Dianne Braho, 1995** (Youngstown State University).
- T5. MS Chemistry “The Synthesis and Characterization of the Chromiumtricarbonyl Complexes of *p*-tert Butylcalix[4]arenes and Their Derivatives,” **Larry J. Bianconi, 1994** (Youngstown State University).
- T4. MS Chemistry “Synthesis and Characterization of Organometallic Compounds: I. Cyano- and Isocyanoarene Iron(II) and Molybdenum(0) Complexes; II. 1,3,5-Trimethylcalix[4]arene and Its Chromium and Molybdenum Derivatives” by **Xiaochung Wang, 1994** (Youngstown State University).
- T3. Ph.D. Chemistry “Structure-Property Relationships in Fluorinated Organic-Organometallic Polymers,” **X. Andrew Guo, 1994** (University of Alberta).
- T2. MS Chemistry “Arene and Heteroarene Bridged Organoiron Complexes: Model Compounds for Organometallic Polymers,” **Roxton M. Chukwu, 1990** (University of Alberta).
- T1. BS Chemistry - Undergraduate Research Theses (partial list includes: Lisa Bernard, 1993/94; Steve DiMuzio, 1993/94; Cynthia Cafe, 1993/94; Mike Lufaso, 1997/98, Heather Milton, 2001; Heather Bradley, 2004; Lauren Ausmundson, 2004).

Funded External Grant Proposals by Hunter as PI or co-PI at YSU:^{*,†}

G34. 2008 NSF 0814289 & 0814300: “**Cyber-Enabled Instrumentation Strategic Planning Workshop**”, A. D. Hunter, K. Kantardjieff,[‡] T. Higgins, D. F. Mullen, R. Butcher, A. Fitch, B. Santarsiero, M. Zeller, the *National Science Foundation - Mathematical & Physical Sciences Directorate - Chemistry Division - Chemistry Research Instrumentation & Facilities: Multi-User Instrumentation Program (NSF MPS-CHEM CRIF:MU Workshop)*, \$62,645 (**\$23,500** for YSU), 03/01/2008-02/28/2009, (Carlos Murillo - Program Officer).

G33. 2008 - ARL: “**Center of Excellence in Industrial Metrology & 3D Imaging Research**”, A. D. Hunter & J. Simeonsson (YSU) and M. Garvey (Sub-Contracting Partner - M*7 Technologies), E. Parker (Sub-Contracting Partner - Zethus Software), D. Hudak (Sub-Contracting Partner - Ohio Supercomputer Center), A. Lytle (NIST), & J. Cossler (Youngstown Business Incubator), *Department of Defense - Army Research Lab*, **\$1,313,250**,[§] 10/01/2008-09/30/2009 (Robert Reams - Program Officer).

G32. 2007 NSF 0725294: “**CRIF:MU/RUI: CAMRA-YSU - Cyber-Accessible Magnetic Resonance at YSU - Purchase of a 400 MHz NMR Spectrometer**”, A. D. Hunter, D. Baker, T. B. Higgins, P. Norris, and P. Szalay, the *National Science Foundation - Math & Physical Sciences Directorate - Division of Chemistry - Chemistry Research Instrumentation & Facilities Program*, **\$475,000**, 03/01/2007 - 02/28/2010 (Wade Sisk - Program Officer). <http://www.as.ysu.edu/~adhunter/YSUSC/0639196.NSF.CRIF.NMR-400.pdf>

G31. 2006 NSF 0639196: “**Cyber-Enhancing PUI Chemistry Programs by Cambridge Structural Database System Facilitated e-Learning and Undergraduate Research**”, G. M Ferrence, A. D. Hunter (YSU lead collaborator), the *National Science Foundation - Math & Physical Sciences Directorate - Division of Chemistry - Chemistry Research Instrumentation & Facilities Program*, \$200,000 overall, **≈ \$7,000** to YSU, 08/01/2007 - 07/31/2008.

G30. 2006 ARL W911NF-07-1-0642: “**Youngstown State University CyberEnabled Industrial Innovation Center (YSU-CEIIC): CyberLabNet 1.0 Project**”, A. D. Hunter & M. Zeller (YSU) and Eric Parker (Sub-Contracting Partner - Zethus Software), *Department of Defense - Army Research Lab*, **\$911,050**,^{**} 10/01/2007 - 09/30/2008 (Robert Reams - Program Officer).

* While on faculty at Youngstown State University (i.e., from 1992 to the present), Allen received **≈ \$5,004,417** in competitively evaluated external research funding for YSU as the PI or a Co-PI (and/or as the senior YSU participant in multi-institutional proposals) since 1994. **Those proposals whose titles are in bold & blue are currently active and are ones in which Hunter is currently playing an active role.** Those in blue but not bold are ones for which the details of the award are still to be negotiated. The PI's name on each proposal is underlined.

† While on faculty at the University of Alberta (i.e., from 1988 to 1994), Allen received approximately \$480,000 in external research support as PI, including approximately \$360,000 for research and \$120,000 for personal research equipment. This funding came from the Canadian Science Granting Agency, the Natural Sciences and Engineering Research Council (i.e., NSERC), a Consortium of Canadian Polymer Companies, the Institute for Chemical Science and Technology (i.e., ICST), and DowElanco.

‡ There are two PIs, one for each of the two linked proposals for this project.

§ Note: \$1,600,000 less DoD-Army & DOD-ARL administrative fees.

** Note: \$1,000,000 less DoD-Army & DOD-ARL administrative fees.

- G29. 2006 NSF 0629174:** “Exploring New Models for Authentic Undergraduate Research with Two-Year College Students,” T. B. Higgins, T. Dowd, G. M. Ferrence, Y. Harris, R. House, **A. D. Hunter** (YSU lead investigator), and others, *National Science Foundation - Math & Physical Sciences Directorate - Division of Chemistry - Undergraduate Research Collaboratives Program (URC)* (<http://www.as.ysu.edu/~adhunter/RFPs/URC.nsf06521.pdf>), \$2,700,000 (**\$100,000** for YSU), 10/01/2006 - 09/31/2011 (Ronald (Ron) Christensen - Program Officer). <http://www.as.ysu.edu/~adhunter/YSUSC/0629174.2YC-URC.pdf> & <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0629174>
- G28. 2005 NSF 0532250:** “Ohio Consortium for Undergraduate Research: Research Experiences to Enhance Learning (REEL),” P. K. Dutta (now P. Woodward), R. T. Taylor, L. Mayer, **A. D. Hunter**, W. Donovan, T. R. Wagner (current YSU Lead Investigator), and others, *National Science Foundation - Division of Chemistry - Undergraduate Research Centers (URC) Program*, \$3,070,000 overall, ≈**\$55,000** to YSU, 01/01/2006 - 12/31/2010 (Ronald (Ron) Christensen - Program Officer). <http://www.as.ysu.edu/~adhunter/YSUSC/0532250.Ohio-REEL.pdf>
- G27. 2004 Fox Chase Cancer Institute:** “X-Ray Diffraction Instrumentation,” **A. D. Hunter**, Donation of Used Equipment from the Research Lab of Drs. Jenny Glusker and Horace (Bud) Carrell (\$260,000 estimated replacement value), 06/17/2004.*
- G26. 2003 DOE ERLE:** “Organometallic NanoMaterials & Undergraduate Instruction,” **A. D. Hunter**, *Department of Energy – Energy-Related Laboratory Equipment Program - Surplus Equipment* (0 to 1 year old, \$126,570 estimated value (by DOE representative) when new), 09/16/2003 – 09/31/2003.†
- G25. 2003 OSC PLS0128-1:** “Organometallic NanoMaterials,” **A. D. Hunter**, Ohio Supercomputer Center, 200 Resource Units, 06/16/2003 – 12/31/2007.
- G24. 2001 PRF 37228-B3-SRF:** “Summer Research Fellow Supplement to Organometallic ElectroStars (for John Woolcock),” **A. D. Hunter**, *American Chemical Society Petroleum Research Fund - Summer Research Fellow Supplement (ACS-PRF - Type S)*, **\$8,000**, 01/01/2002 - 08/31/2004.
- G23. 2001 NSF 0130968:** “RUI - Purchase of Glove Box and Vacuum Line Systems for Materials Synthesis & Characterization,” **A. D. Hunter**, Larry S. Curtin, Sherri R. Lovelace-Cameron, Timothy Wagner, *National Science Foundation - Division of Chemistry - Research at Undergraduate Institutions (RUI) and Collaborative Research Instrumentation and Facilities (CRIF) Program*, **\$131,779**, 02/01/2002 - 1/31/2006 (extended, Joan Frye - Program Officer). <http://www.fastlane.nsf.gov/servlet/showaward?award=0130968>
- G22. 2001 NSF 0121699:** “Reciprocal Net – A Distributed Molecular Database,” J. C. Huffman, G. Bernbom, J. C. Bollinger, W. S. Harwood, and G. D. Wiggins (**A. D. Hunter**, Advisory Board, YSU-PUI Integration Site, and Crystallographic Education Team Leader), *National Science Foundation - National Science Digital Libraries (NSDL) - Collection Program*, \$996,903 (≈**\$5,000+** for YSU), 09/01/2001 – 08/31/2003. <http://www.fastlane.nsf.gov/servlet/showaward?award=0121699>

* The value of this Fox Chase (surplus) equipment is not included in the grant total dollars.

† The value of this ERLE (surplus) equipment is not included in the grant total dollars.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- G21. 2001 NSF 0128154:** “REU in Chemistry at YSU: AWARE (Australia) REU Supplement Request,” **A. D. Hunter** and S. R. Lovelace-Cameron, *National Science Foundation - Research at Undergraduate Institutions (RUI) and American Workforce and Research and Education (AWARE) Australia Program of the East Asia and Pacific Division (INT-EAP)*, \$48,746, 05/01/2002 - 04/30/2005.
- G20. 2001 PRF 37228-B3:** “Organometallic ElectroStars,” **A. D. Hunter**, *American Chemical Society Petroleum Research Fund - Type B Grant (ACS-PRF - Type B)*, \$30,000, 08/01/2001 - 08/31/2004. <http://pubs.acs.org/cen/acsnews/7931/7931acsn2.html>
- G19. 2001 NSF 0116426:** “RUI-MRI: Acquisition of a Powder X-Ray Diffractometer System,” **T. R. Wagner**, R. E. Beiersdorfer, and **A. D. Hunter**, *National Science Foundation - Research at Undergraduate Institutions (RUI) and Major Research Instrumentation (MRI) Programs*, \$170,310, 08/15/2001 - 07/31/2002. <http://www.fastlane.nsf.gov/servlet/showaward?award=0116426>
- G18. 2001 NSF 0111511:** “RUI - Organometallic NanoStars,” **A. D. Hunter**, *National Science Foundation - Divisions of Chemistry and Materials Research - Research at Undergraduate Institutions (RUI) - Research Grant*, \$350,000, 08/1/2001 - 07/31/2005 (extended). <http://www.fastlane.nsf.gov/servlet/showaward?award=0111511>
- G17. 2001 Bruker-AXS:** “YSU-PUI Undergraduate Diffraction Consortium Web Accessible Diffractometer User Development Fund,” **A. D. Hunter**, *Bruker-Nonius - Madison WI*, \$9,600, 06/01/2002 - 12/31/2006.
- G16. 2000 NSF 0087210:** “WEB Accessible Single Crystal X-Ray Diffractometer for Undergraduate Instruction at a Consortium of Predominantly Undergraduate Institutions,” **A. D. Hunter**, L. M. Hoistad, A. J. Jircitano, T. R. Wagner, and E. P. Zovinka, the *National Science Foundation - Directorate for Education and Human Resources - Division of Undergraduate Education - Course, Curriculum, and Laboratory Instrumentation Program - Adapt & Implement Track (CCLI - A&I)*, \$200,000, 01/15/2001-12/31/2004 (extended). <http://www.fastlane.nsf.gov/servlet/showaward?award=0087210>
- G15. 2000 OBoR:** “WEB Accessible Single Crystal X-Ray Diffractometer for Undergraduate Instruction at a Consortium of Predominantly Undergraduate Institutions,” **A. D. Hunter**, L. M. Hoistad, A. J. Jircitano, T. R. Wagner, and E. P. Zovinka, the *Ohio Board of Regents Action Fund*, (OBoR CAP-491), \$75,000, 01/15/2001-12/31/2003.
- G14. 2000 NSF 0097682:** “REU – Research Experience for Chemistry at Youngstown State University: A Bridge Between Four-Year Colleges and Ph.D. Research Universities,” **D. W. Mincey**, **A. D. Hunter**, John A. Jackson, Sherri R. Lovelace-Cameron, and Timothy R. Wagner, *National Science Foundation - Division of Chemistry - Research Experiences for Undergraduates Program (RUI)*, \$180,000, 05/01/2001-04/30/2004. <http://www.fastlane.nsf.gov/servlet/showaward?award=0097682>
- G13. 2000 NSF 0086313:** “US-UK Cooperative Education and Research: Structural Investigations of Main Group Heterocyclic Rings and Cages,” **A. D. Hunter**, *National Science Foundation - International Division Western Europe (INT-WE) - Collaborative Projects*, \$13,200, 02/01/2001-1/31/2003. <http://www.fastlane.nsf.gov/servlet/showaward?award=0086313>

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- G12. 2000 CUR/NSF DMR:** “Charge Density Studies on Single-Site Transition Metal Olefin Polymerization Catalysts,” **A. D. Hunter**, the *Council on Undergraduate Research / National Science Foundation - Division of Materials Research - Materials Research Linkages Project*, \$800, 2000.
- G11. 1999 OBoR:** “Ohio Science Teaching,” Bill Rauckhorst, and others, **A. D. Hunter** YSU representative, *Ohio Board of Regents*, \$4,000 for YSU, 1999-2001.
- G10. 1999 OBoR:** "A Proposal to Establish a State-of-the-Art Ohio Mass Spectrometry Consortium," P. G. Hatcher, **A. D. Hunter**, and others, \$1,860,000 overall, \$88,900 to YSU, 1999-2002.
- G9. 1999 NSF 9980921:** “X-Ray Diffraction Analysis Throughout the Curriculum: a Powerful Tool for Understanding Molecular Structure and Bonding,” **A. D. Hunter**, the *National Science Foundation - Directorate for Education and Human Resources - Division of Undergraduate Education - Educational Materials Development Program - Proof of Concept Track (EMD-POC)*, \$74,707, 05/01/2000-04/30/2003.
<http://www.fastlane.nsf.gov/servlet/showaward?award=9980921>
<http://www.as.ysu.edu/~adhunter/YSUSC/9980921.EMD.Diffraction.pdf>
- G8. 1998 NSF 9851107:** “Integration of Materials Characterization Throughout the Chemistry and Physics Curricula: Purchase of Thermal Analysis, Viscometry, and Gel Permeation/Size Exclusion Chromatography Equipment,” **A. D. Hunter**, S. Brower, T. Kim, D. Mincey, and T. Wagner, the *National Science Foundation - Directorate for Education and Human Resources - Division of Undergraduate Education - Instruments for Laboratory Improvement Program - Instrumentation Track (ILI-IT)*, \$44,600, 1998-2001.
<http://www.fastlane.nsf.gov/servlet/showaward?award=9851107>
<http://www.as.ysu.edu/~adhunter/YSUSC/9851107.ILI.Materials.pdf>
- G6. 1998 NSF 9850079:** “Investigative Approaches in the Natural Sciences,” J. D. Usis, C. Singler, and **A. D. Hunter**, the *National Science Foundation - Directorate for Education and Human Resources - Division of Undergraduate Education - Institution-Wide Reform Initiative*, \$183,579, 1998-2001. <http://www.fastlane.nsf.gov/servlet/showaward?award=9850079>
<http://www.as.ysu.edu/~adhunter/YSUSC/9850079.DUE.A&S2600.pdf>
- G6. 1997 OBoR:** “Computer Aided Instruction in the Department of Chemistry at Youngstown State University,” J. A. Jackson, **A. D. Hunter**, T. D. Kim, D. W. Mincey, and P. Norris, the *Ohio Board of Regents Request for Technology Initiatives*, \$100,747, 1997-98.
- G5. 1995 OBoR:** “Ohio Crystallography Consortium at Toledo,” J. E. Gano, **A. D. Hunter** and many others, the *Ohio Board of Regents Investment Fund*, (CAP-075) \$815,000 overall, \$35,000 to YSU, 1995-97.
- G4. 1995 OBoR:** “Ohio NMR Consortium,” M.-D. Tsai, **A. D. Hunter** and many others, the *Ohio Board of Regents Investment Fund*, (CAP-419), \$3,000,000 overall, \$200,000 to YSU, 1995-97.
- G3. 1995 NSF 9551683:** “Integration of GC-MS into the Undergraduate Curriculum,” J. A. Jackson, **A. D. Hunter**, S. M. Schildcrout, R. L. Falconer, and T. R. Wagner, the *National Science Foundation - Directorate for Education and Human Resources - Division of Undergraduate Education - Instruments for Laboratory Improvement Program - Instrumentation Track (ILI-IT)*, \$34,450, 1995-96.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

<http://www.fastlane.nsf.gov/servlet/showaward?award=9551683>

<http://www.as.yosu.edu/~adhunter/YSUSC/9551683.ILI.GCMS.pdf>

G2. 1994 OBoR: “Acquisition of a Single Crystal X-Ray Diffractometer,” T. R. Wagner, A. D. Hunter, J. A. Jackson, and R. E. Beiersdorfer, the *Ohio Board of Regents Action Fund* (CAP-098), **\$60,000**, 1994-96.

G1. 1994 NSF 9403889: “Acquisition of a Single Crystal X-Ray Diffractometer,” T. R. Wagner, A. D. Hunter, J. A. Jackson, and R. E. Beiersdorfer, the *National Science Foundation - Division of Materials Research - Research at Undergraduate Institutions (RUI) and Instruments for Materials Research (IMR) Programs*, **\$71,199**, 06/15/1993-06/14/1995.
<http://www.fastlane.nsf.gov/servlet/showaward?award=9403889>
<http://www.as.yosu.edu/~adhunter/YSUSC/9403889.IMR.Diffractometer.pdf>

Submitted & Pending External Grant Proposals having Hunter as PI or co-PI:

S1. :

External Grant Proposals in Development having Hunter as PI or co-PI:

E1. :

Hunter’s Professional Presentations: (presenting author, undergraduate co-authors,* high-school teacher coauthors, *submitted papers*)

- O160. **O’Connor, M. A.;** Addison, A. W.; Zeller, M.; Hunter, A. D. : “Preparation of some metal complexes using novel dithioether-diketone derivatives,” 236th ACS National Meeting, Philadelphia, PA, Aug. 17th-21st, **2008**, INOR-210.
- O159. **Reeves, G. T.;** Addison, A. W.; Pavlishchuk, V. V.; Hunter, A. D.; Zeller, M.: “There’s something dangling on my ruthenium,” 236th ACS National Meeting, Philadelphia, PA, Aug. 17th-21st, **2008**, INOR-561.
- O158. **Szalay, P. S.;** Rataiczak, R.; Zook-Gerdau, L. A.; Ferrence, G.; Hunter, A. D.; Zeller, M.: “Use of the Cambridge Structural Database in an Integrated Laboratory Course and Undergraduate Research,” Biennial Conference on Chemical Education, Bloomington, IN, July 27th-31st, **2008**.
- O157. Beagle, L.; Zeller, M.; Hunter, A. D.; Norris, P.: “Detailed NMR and X-Ray Structures of Synthetic N-Glycosides,” 40th Central Regional Meeting of the American Chemical Society **2008**, Columbus, OH, June 10th-14th **2008**, CRM-375.
- O156. **Szalay, P. S.;** Rataiczak, R.D.; Zook-Gerdau, L. A.; Hunter, A. D.; Zeller, M.: “An Integrated Laboratory Experiment: Synthesis and Characterization of Transition Metal Maleonitriledithiolate Complexes,” Central Regional Meeting of the American Chemical Society, Columbus, OH, June 10th-14th, **2008**.
- O155. **Reeves, G. T.;** Addison, A. W.; Pavlishchuk, V. V.; Hunter, A. D.; Zeller, M.: “Ruthenium(II) Complexes of Some Tripodal Amine Ligands,” 40th Middle Atlantic Regional Meeting of the American Chemical Society, Queens, NY, May 17th-21st, **2008**, MRM-291.

* This student was an undergraduate for all or part of this work.

- O154. **Prushan, M. J.**; Dao, H. A.; Zeller, M.; Hunter, A. D.: "Nickel(II) complexes of a pyridyl-thioether oxime ligand," 235th ACS National Meeting, New Orleans, LA, April 6th-10th, **2008**, CHED-1200.
- O153. **Dragancea, D.**; Addison, A. W.; Hunter, A. D.; Zeller, M.; Thompson, L. K.: "Synthesis and crystal structure of a new copper(II) complex with 1,5-bis(o-aminobenzaldehyde)thiocarbohydrazone", 23rd International Chugaev Conference, Odessa, Ukraine, Sept. **2007**.
- O152. **Zambrano, C.**; Zeller, M.; Hunter, A. D.; Dueno, E.: "Synthesis of an equatorial functionalized carcerand," 234th ACS National Meeting, Boston, MA, August 19th-23rd, **2007**, ORGN 791.
- O151. **Zeller, M.**; Hunter, A. D.; Pike, R. D.; Zambrano, C.; Ray, T.; Dueno, E.: "Stereochemical properties of pyrogallolarenes in the solid state," 234th ACS National Meeting, Boston, MA, August 19th-23rd, **2007**, ORGN-781.
- O150. **Smith, D. A. M.**; Wagner, T. R.; Hunter, A. D.; Zeller, M.: "YSU Project REEL: Synthesis and characterization of A(M,N)F₃ (A = K or NH₄⁺; M, N = Mn, Fe, Co, Ni, Cu, Zn)," Central Regional Meeting of the American Chemical Society, Covington, KY, May 20th-23rd, **2007** (Poster).
- O149. **Kusnic, R.**; Wagner, T. R.; Hunter, A. D.; Zeller, M.: "Research Experiences to Enhance Learning (REEL) Project: Synthesis and Characterization of KCoxCu(1-x)F₃ (x = 0 to 1.0)," Central Regional Meeting of the American Chemical Society, Covington, KY, May 20th-23rd, **2007** (Poster).
- O148. **Prushan, M. J.**; Waldmann, O.; Zeller, M.; Hunter, A. D.: "A self-assembling nickel hexanuclear complex with unusual magnetic ordering," 39th Middle Atlantic Regional Meeting of the American Chemical Society, Collegeville, PA, May 16th-18th, **2007**, MARM-152 (Poster).
- O147. **LaFranzo, N. A.**; Morrison, P. J.; Flint, E. B.; Ferrence, G. M.; Zeller, M.: "Synthesis and characterization, with X-ray crystal structure, of Co(acac)₂(HMTA)₂," 233rd ACS National Meeting, Chicago, IL, March 25th-29th, **2007**, CHED 1258.
- O146. **Moore, B. F.**; Prushan, M. J.; Zeller, M.; Hunter, A. D.; Lofland, S.: "Synthesis and characterization of a mixed valence dinuclear nickel (II/III) complex with bis- μ -2-sulfido bridges," American Chemical Society National Meeting, Chicago, March 26th, **2007**, CHED 1250 (Poster).
- O145. **Crundwell, G.**; Westcott, B. L.; Burkholder, T. R.; Hunter, A. D.; Zeller, M.; Pierpont, A.; Foss, P.; Cantalupo, S.; Kopp, K.; McBurney, B.; Gruhn, N. E.; Durivage, J. C.: "Molecular and electronic structure of several 2,3-dithienylquinoxalines and their 2:1 complexes with silver(I) nitrate," American Chemical Society National Meeting, Chicago, March 25th & 26th, **2007**, INOR 296 (Poster).
- O144. **Addison, A. W.**; Reeves, G. T.; Butcher, R. J.; Hunter, A. D.; Pavlishchuk, V. V.; Zeller, M.: "Synthesis, characterization and comparison of ruthenium(II) complexes of tetradentate thioether- and pyridine-containing ligands and bidentate nitrogen coligands," American Chemical Society National Meeting, Chicago, March 27th, **2007**, INOR 810 (Poster).

- O143. **Beard, E. M.**; Addison, A. W.; Zeller, M.; Milewski, A. J.; Lofland, S.; Crist, L. E.; Wolf, L. M.; Hunter, A. D.: "Some bis(azacyclo)isoindolines and mono-, di- and trinuclear complexes of nickel(II) derived from them," 232nd ACS National Meeting, San Francisco, CA, Sept. 10th-14th, **2006**, INOR-369 (Poster).
- O142. **Hunter, A. D.**; Zeller, M.; Wagner, T. R.; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K.; Ramirez, L.; Higgins, T.; Szalay, P.: "The STaRBURSTT - CyberInstrumentation Consortium - CyberEnabled Crystallographic Education," 23rd European Crystallographic Meeting, Leuven, Belgium, Aug. 6th-11th, **2006**.
- O141. **Hunter, A. D.**; Wagner, T. R.; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K.; Ramirez, L.; Higgins, T.; Szalay, P.; Zeller, M.: "The STaRBURSTT - CyberInstrumentation Consortium - CyberEnabled Instrumentation Access," 23rd European Crystallographic Meeting, Leuven, Belgium, Aug. 6th-11th, **2006**.
- O140. **Zeller, M.**; Hunter, A. D.; Brückner, C.; Foss, P. C. D.; Sullivan, J. O.; Pelto, R.; Birge, R. R.; Crundwell, G.: "How complicated can it get: Diprotonated meso-tetra (5'-methylthien-2'-yl) porphyrin as its bistriflate salt," European Crystallographic Association, Leuven Belgium, Aug. 6th-11th, **2006**, 366 (Poster).
- O139. **Zeller, M.**; Hunter, A. D.; Brückner, C.; McCarthy, J. R.; Capetta, S. H.: "[5,10,15,20-tetrakisphenyl-2-ethoxy-3-oxa-chlorinato]Ag(II): Does refinement of an asymmetric molecule disordered around a four fold axis make sense?," European Crystallographic Association, Leuven Belgium, Aug. 6th-11th, **2006**, 360 (Poster).
- O138. **Hunter, A. D.**; Zeller, M.; Wagner, T. R.; Hoff, R.; Szalay, P.: "Single Crystal Diffraction as a Routine Undergraduate Research Tool & The STaRBURSTT CyberDiffraction Consortium," The Council on Undergraduate Research Meeting, Greencastle, IN, June 24th - 27th, **2006**.
- O137. **Hunter, A. D.**; Zeller, M.; Wagner, T. R.; Hoff, R.; Szalay, P.: "STEM 2020: Enabling Multidisciplinary and Multi-institutional Collaborations via Remote Instrument Access and Collaboration Procedures - The STaRBURSTT-CyberTools Project," The Council on Undergraduate Research Meeting, Greencastle, IN, June 24th - 27th, **2006**.
- O136. **Dragancea, D.**; Addison, A. W.; Hunter, A. D.; Thompson, L. K.; Zeller, M.: "Synthesis and structures of new binuclear copper(II) complexes with bis(3-alkoxy-2-hydroxybenzaldehyde)thiocarbohydrazones," Mid-Atlantic Regional Meeting - ACS, June 4th - 7th, **2006** (Poster).
- O135. **Reeves, G. T.**; Addison, A. W.; Butcher, R. J.; Elshani, S.; Falat, A. M.; Hunter, A. D.; Pavlishchuk, V. V.; Zeller, M.: "Synthesis, characterization and comparison of ruthenium(II) complexes of tetradentate thioether- and pyridine-containing ligands and bidentate nitrogen coligands," Mid-Atlantic Regional Meeting - ACS, June 4th - 7th, **2006** (Poster).
- O134. **Hunter, A. D.**; Szalay, P.; Wagner, T. R.; Zeller, M.; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K.; Ramirez, L.; Higgins, T.: "The STaRBURSTT - CIC - Teaching Initiative," American Crystallographic Association, 2:20 PM - July 23rd, **2006**, SP.01.02 (Oral).

- O133. **Hunter, A. D.**; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K.; Ramirez, L.; Higgins, T.: “STaRBURSTT - CIC: CyberEnabled Instrumentation Access,” American Crystallographic Association, 8:00 AM - July 25th, **2006**, 13.07.01 (Oral).
- O132. **Hunter, A. D.**; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.; Higgins, T.; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K.; Ramirez, L.: “The STaRBURSTT-CyberDiffraction Consortium - CyberEnabled Crystallographic Education” Biennial Conference on Chemical Education, Purdue University, Wed. August 2nd (2:25), **2006**, P591 (Oral).
- O131. **Hunter, A. D.**; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.; Higgins, T.; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K.; Ramirez, L.: “The STaRBURSTT-CyberDiffraction Consortium - Hands On Crystallography for Everyone,” Biennial Conference on Chemical Education, Purdue University, Mon. July 31st (4:30), P170 (Oral).
- O130. **Zeller, M.**; Hunter, A. D.; Wagner, T. R.; Mincey, D.; Hoff, R.: “CyberInstrumentation for NanoTechnology Research - Capabilities, Strengths, & Limitations,” Ohio NanoTechnology Summit, Columbus Ohio, April 4th & 5th, **2006**, Poster C-1.
- O129. **Hunter, A. D.**; Zeller, M.; DiMuzio, S. J.; Lazich, E.; Payton, J. L.; Perrine, C.; Updegraff III, J. B; Hoff, R.: “Organometallic NanoMaterials - Electroactive Molecular Wires & Molecular Stars,” Ohio NanoTechnology Summit, Columbus Ohio, April 4th & 5th, **2006**, Poster M-1.
- O128. **Prushan, M. J.**; Addison, A. W.; Pavlishchuk, V. V.; Zeller, M.; Hunter, A. D.; Waldmann, O.; Butcher, R. J.; Thompson, L. K.: “Dimers, Trimers and Hexamers: nickel(II) thioether oxime complexes,” ACS National Meeting, Atlanta, 7:00 Sun. March 26th, **2006**, INOR 185 (Poster).
- O127. **Prushan, M. J.**; Waldmann, O.; Zeller, M.; Hunter, A. D.: “A μ_6 -oxo-centered hexanuclear nickel(II) complex: self-assembly using a thioether-oxime ligand,” ACS National Meeting, Atlanta, 7:00 Sun. March 26th, **2006**, INOR 186 (Poster) & 8:00 Mon., March 27th, **2006**, Sci-Mix (Poster).
- O126. **Zeller, M.**; Hunter, A. D.; DiMuzio, S. J.; Lazich, E.; Payton, J. L.; Perrine, C.; Updegraff III, J. B; Hoff, R.: “Organometallic NanoMaterials,” ACS National Meeting, Atlanta, 9:40 AM, Tues. March 28th, **2006**, INOR 356 (Oral).
- O125. **Hunter, A. D.**; Bond, M.; Crundwell, G.; Ferrence, G.; Kantardjieff, K. A.; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.: “The STaRBURSTT - CyberDiffraction Consortium Undergraduate Research Initiative,” ACS National Meeting, Atlanta, 7:00 PM, Sun. March 26th, **2006**, INOR 313 (Poster) & 8:00 Mon., March 27th, **2006**, Sci-Mix (Poster).
- O124. **Hunter, A. D.**; Bond, M.; Butcher, R. J.; Crundwell, G.; Ferrence, G.; Kantardjieff, K. A.; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.; Ramirez, L.; Higgins, T.: “The STaRBURSTT - CyberDiffraction Consortium Education Initiative,” ACS National Meeting, Atlanta, 7:30 PM, Sun. March 26th, **2006**, CHED 114 (Poster).
- O123. DiMuzio, S. J.; Snyder, W. E.; Szalay, P.; Zeller, M.; **Hunter, A. D.**: “A review of the crystallographic/diffraction education literature,” ACS National Meeting, Atlanta, 7:30 PM, Sun. March 26th, **2006**, CHED 113 (Poster).

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- O122. **Hunter, A. D.**; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.: "Criteria for, and implementation of, remote instrumentation access," ACS National Meeting, Atlanta, 3:00-3:20 PM, Wed. March 29th, **2006**, ANAL 364 (Oral - Invited) & 8:00 PM, Mon., March 27th, **2006**, Sci-Mix (Poster).
- O121. **Stephens, J. R.**; Prushan, M. J.; Zeller, M.; Hunter, A. D.: "Polynuclear complexes with pyridyl thioether oxime and dithiooximide oxime ligands," ACS National Meeting, Atlanta, 2:00-4:00 Mon. March 27th, **2006**, CHED 930 (INOR-Undergraduate Poster)..
- O120. **Prokop, K. A.**; Prushan, M. J.; Zeller, M.; Hunter, A. D.: "Nickel(II) complexes with bulky Thioether-oxime ligands," ACS National Meeting, Atlanta, 2:00-4:00 Mon. March 27th, **2006**, CHED 925 (INOR-Undergraduate Poster).
- O119. **Oleske, J. B.**; Prushan, M. J.; Zeller, M.; Hunter, A. D.: "Stabilizing copper(I) with oxime ligands: Does sulfur or nitrogen do a better job?," ACS National Meeting, Atlanta, 2:00-4:00 Mon. March 27th, **2006**, CHED 948 (INOR-Undergraduate Poster).
- O118. **Hunter, A. D.**; Zeller, M.: "The STaRBURSTT Project," The Northeast Ohio Innovation Summit, January 30th, **2006**.
- O117. **Hunter, A. D.**: "Organometallic NanoMaterials," Indiana University of Pennsylvania, December 7th, **2005**.
- O116. **Ferrence, G.**; Bond, M.; Crundwell, G.; Hunter, A. D.; Kantardjieff, K. A.; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.: "The STaRBURSTT - CyberDiffraction Consortium education and undergraduate research initiatives," Pacificchem Meeting, Waikiki, Dec. 15th - 20th, **2005**, CHED Abstract #156782 (Poster).
<http://www.as.yosu.edu/~adhunter/Presentations/O119.pdf>
- O115. **Hunter, A. D.**; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.: "Criteria for, and implementation of, remote instrumentation access," 230th ACS National Meeting, Washington, DC, Aug. 28th - Sept. 1st, **2005**, ANYL-066.
- O114. **Hunter, A. D.**; Bond, M.; Crundwell, G.; Ferrence, G. M.; Kantardjieff, K. A.; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.: "The STaRBURSTT: CyberDiffraction Consortium education initiative," 230th ACS National Meeting, Washington, DC, Aug. 28th - Sept. 1st, **2005**, CHED-064.
- O113. **Hunter, A. D.**; DiMuzio, S. J.; Lazich, E.; Payton, J. L.; Perrine, C.; Updegraff, J. B.; Zeller, M.; Hoff, R.: "Organometallic NanoMaterials," 230th ACS National Meeting, Washington, DC, Aug. 28th - Sept. 1st, **2005**, INOR-064.
- O112. **Hunter, A. D.**; Bond, M.; Crundwell, G.; Ferrence, G.; Kantardjieff, K. A.; Szalay, P.; Wagner, T. R.; Zeller, M.; Hoff, R.: "The STaRBURSTT - CyberDiffraction Consortium Undergraduate Research Initiative," ACA National Meeting, Orlando FL, Tues. May 31st, **2005**, P238 (5:30, Poster).
- O111. Pineau, M. R.; Backiel, S.; Bajrami, B.; **Lesley, M. J. G.**; Asandei, A. D.; Hunter, A. D.; Zeller, M.: "The Synthesis and Characterization of Poly(Cyclodiborazane) Derivatives Incorporating Bis(Alkylthio)Maleonitrile Derivatives," 2005 Chemical Institute of Canada National Meeting, Saskatoon, Saskatchewan, May, **2005**.
- O110. **Mattioli, L. A.**; Mangel, P. S.; Prushan, M. J.; Zeller, M.; Hunter, A. D.; Lofland, S.: "Synthesis and Characterization of Equilateral Nickel(II) Triangular Complexes," La Salle University, April **2005**.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- O109. **Hunter, A. D.**; DiMuzio, S. J.; Lazich, E.; Payton, J. L.; Perrine, C.; Updegraff III, J. B.; Zeller, M.; Hoff, R.: "Organometallic NanoMaterials," Pennsylvania State University Erie - The Behrend College, April 14th, **2005**.
- O108. Stacy, V.; Cantalupo, S.; McBurney, B.; **Crundwell, G.**; Zeller, M.; Updegraff, J. B.; Hunter, A. D.: "From Ethanediones to Quinoxaline to Silver Complexes," 229th American Chemical Society National Meeting, San Diego, CA, March 14th, **2005**, INOR-1043.
- O107. **Westcott, B. L.**; Kopp, K.; Zeller, M.; Hunter, A. D.: "The Serendipitous Synthesis, Isolation, and Characterization of Three Complexes of Cu with the Ligand Di-2-pyridylmethandiol," 229th American Chemical Society National Meeting, San Diego, CA, March 16th, **2005**, INOR-799.
- O106. Kopp, K.; **Crundwell, G.**; Durivage, J. C.; Gruhn, N. E.; Pierpont, A.; Foss, P.; McBurney, B.; Burkholder, T. R.; Zeller, M.; Hunter, A. D.: "Electronic Structure of Thienyl Quinoxalines," 229th American Chemical Society National Meeting, San Diego, CA, March 14th, **2005**, INOR-608.
- O105. **Hunter, A. D.**; Zeller, M.; Wagner, T. R.; Hoff, R.; Szalay, P.: "Remote Access and Instrumentation Consortia for Undergraduate Education and Research," 229th American Chemical Society National Meeting, San Diego, CA, March 16th, **2005**, CHED-1395.
- O104. **Hunter, A. D.**; DiMuzio, S. J.; Snyder, W. E.; Zeller, M.: "Single Crystal Diffraction Methods - How Low Can/Should You Go," 229th American Chemical Society National Meeting, San Diego, CA, March 16th, **2005**, CHED-1408.
- O103. **Hunter, A. D.**; Zeller, M.: "Towards Organometallic NanoWires and NanoStars," 229th American Chemical Society National Meeting, San Diego, CA, March 13th, **2005**, INOR-180.
- O102. **Szalay, P.**; Radar, N.; Nees, H.; Chema, A.; Ramirez, A. O.: "Metal-Organic Compounds and Polyimides," Wright State University, Dayton, Ohio, April 30th, **2004**.
- O101. **Szalay, P.**; Zeller, M.; Hunter, A. D.: "Nucleophilic Metal-Organic Frameworks and Polymers," Ohio Academy of Sciences 113th Annual meeting, Youngstown, OH, April 17th, **2004**.
- O100. **Hunter, A. D.**; Payton, J. L.; Zeller, M.; Perrine, C.; Westcott, B. L.; Gruhn, N. E.: "Computational and photoelectron spectroscopic investigations of (Arene)Cr(CO)₃ complexes: structure/property relationships," 228th American Chemical Society National Meeting, Philadelphia, PA, August 24th, **2004**, INOR-504.
- O99. **Hunter, A. D.**; Zeller, M.; Perrine, C.; Payton, J. L.; Woolcock, J. L.; Westcott, B. L.: "Organometallic nanostars from ferrocenyl isonitrile to metal phosphine building blocks," 228th American Chemical Society National Meeting, Philadelphia, PA, August 24th, **2004**, INOR-569.
- O98. **Hunter, A. D.**; Zeller, M.; Payton, J. L.; Lazich, E.; Updegraff III, J. B.; Westcott, B. L.: "Isonitrile bridged organometallic building blocks and nanowires," 228th American Chemical Society National Meeting, Philadelphia, PA, August 24th, **2004**, INOR-579.
- O97. **Hunter, A. D.**; Zeller, M.; Wagner, T. R.; Hoff, R.; Szalay, P.: "Remote access as an enabling technology for undergraduate crystallographic/diffraction education and research at a consortia of predominantly undergraduate institutions," 228th American

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- Chemical Society National Meeting, Philadelphia, PA, August 22nd & 23rd, **2004**, CHED-61.
- O96. **Hunter, A. D.**: “Using discovery learning experiences to facilitate student integration of diverse concepts: Structure-property relationships in (Arene)Cr(CO)₃ chemistry,” 228th American Chemical Society National Meeting, Philadelphia, PA, August 24th, **2004**, CHED-224.
- O95. Zeller, M.; Hunter, A. D.; **Szalay, P.**: “The Incorporation of Single Crystal X-Ray Diffraction into the Undergraduate Chemistry Curriculum Using Internet Facilitated Remote Diffractometer Control,” Biennial Conference on Chemical Education, Ames, Iowa, July 27th, **2004**.
- O94. **Pratap, P.**; **West, A.**; **Hunter, A. D.** (Workshop Presenters): “Remote Instrumentation,” Invention and Impact: Building Excellence in Undergraduate Science, Technology, Engineering and Mathematics (STEM) Education – A Conference of the Course, Curriculum & Laboratory Improvement (CCLI) Program, NSF-DUE-HER & AAAS, Arlington, VA, April 16th – 18th, **2004**, Topical Session A2.
- O93. **Nees, H.**: Szalay, P.; Zeller, M.; Hunter, A. D.: “Metal-Organic Compounds and Polyimides,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0312.
- O92. **Hunter, A. D.**; Zeller, M.; Hoff, R.; Szalay, P.: “Remote Access as an Enabling Technology for Undergraduate Crystallographic/Diffraction Education and Research at Consortia of Predominantly Undergraduate Institutions,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0129.
- O91. **DiMuzio, S. J.**; **Snyder, W. E.**; Hunter, A. D.; Szalay, P.: “A Review of the Crystallographic/Diffraction Education Literature,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0128.
- O90. **Payton, J.**; Hunter, A. D.: “Spectroscopic, Electrochemical, and Computational Studies of Model Organometallic NanoMaterials,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0078.
- O89. **Updegraff, J. B.**; Takas, N. J.; Wilcox, R.; Zeller, M.; Hunter, A. D.: “Ligand Design for NLO Active Organometallic NanoWires,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0077.
- O88. **Perrine, C.**; Zeller, M.; Hunter, A. D.; Woolcock, J.: “0th and 1st Generation Organometallic NanoStars From Ferrocenyl Amine,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0076.
- O87. **Lazich, E.**; **DiMuzio, S. J.**; Zeller, M.; Hunter, A. D.: “CN-C₆X₄-NC and M(Ar₂PCH₂CH₂PAr₂)₂(CN-C₆X₄-NC)₂ as a Building Blocks of Bi- and Tri-Metallic Model Organometallic NanoMaterials,” Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, Oct. 19th – 22nd, **2003**, Paper 0075.
- O86. **Lazich, E.**; Hunter, A. D.; Zeller, M.: “Synthesis and Characterization of Organometallic NanoWires and NanoStars,” 42nd IUPAC General Assembly, Ottawa, Canada, August 11th, **2003**.
- O85. **Takas, N. J.**; Hunter, A. D.; Updegraff, J. B.; **DiMuzio, S. J.**: “Ligand Design for NLO Active Organometallic NanoWires,” Duquesne (Ohio-Pennsylvania Regional) NSF-REU

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- Undergraduate Research Poster Session, Duquesne University, Pittsburgh, July 23rd, 2003.
- O84. **Wilcox, R.**; Hunter, A. D.: "Model Compounds for NLO Active Organometallic NanoWires," Duquesne (Ohio-Pennsylvania Regional) NSF-REU Undergraduate Research Poster Session, Duquesne University, Pittsburgh, July 23rd, 2003.
- O83. **Szalay, P.**; **Rader, N.**; Zeller, M.; Hunter, A. D.: "Metal-Organic Molecular Clusters and Frameworks," 35th Great Lakes Regional ACS Meeting, Chicago, May, 2003.
- O82. **Szalay, P.**; **Rader, N.**; Zeller, M.; Hunter, A. D.: "Nucleophilic Metal-Organic Frameworks and Polymers," 112th Annual Meeting of the Ohio Academy of Science, Finlay, Ohio, April 5, 2003.
- O81. **Hunter, A. D.**: "From Organometallic Rigid-Rods Towards Organometallic NanoStars: Electronically Bridged Nanostructured Materials by Design," Department of Chemistry, University of Auckland, Auckland, New Zealand, February 21st, 2003.
- O80. **Hunter, A. D.**: "From Organometallic Rigid-Rods Towards Organometallic NanoStars: Electronically Bridged Nanostructured Materials by Design," Research School of Chemistry, Australian National University, Canberra, Australia, January 23rd, 2003.
- O79. **Hunter, A. D.**: "From Organometallic Rigid-Rods Towards Organometallic NanoStars: Electronically Bridged Nanostructured Materials by Design," IC-03, Conference of the Inorganic Division of Chemistry of the Royal Australian Chemical Institute, Paper 199, The University of Melbourne, Melbourne, Australia, February 6th, 2003.
- O78. **Rader, N. C.**; Szalay, P. S.; Zeller, M.; Hunter, A. D.: "Nucleophilic Metal-Organic Frameworks," William Evans Memorial Lecture Poster Session, The Ohio State University, Columbus, Ohio, October 2002.
- O77. **Chema, A. R.**; Szalay, P. S.; Zeller, M.; Hunter, A. D.: "Investigation of Organometallic Framework Compounds As Heterogeneous Catalysts," Central Ohio Undergraduate Research Symposium, Capital University, Columbus, Ohio, October, 2002.
- O76. **Rader, N.**; Szalay, P.; Zeller, M.; Hunter, A. D.: "Nucleophilic Metal-Organic Frameworks," Central Ohio Undergraduate Research Symposium, Capital University, Columbus, Ohio, October, 2002.
- O75. **Hunter, A. D.**; DiMuzio, S. J.; McSparrin, L.; Snyder, W.: "The NMR approach: a model for diffraction instruction in the 21st century," the Fall 2002 American Chemical Society conference, Boston, MA., August, 2002, (poster presented by Zeller, M.).
- O74. **Snyder, Floyd, III**; Zeller, M.; Hunter, A. D.: "Synthesis And Characterization of Organometallic Ferrocenes," Ohio-Michigan Regional NSF-REU Undergraduate Research Poster Session, Kent State University, July 24th, 2002.
- O73. **Wilcox, R. J.**; Zeller, M.; Hunter, A. D.: "Synthesis of Molybdenum Organometallic Compounds," Ohio-Michigan Regional NSF-REU Undergraduate Research Poster Session, Kent State University, July 24th, 2002.
- O72. **Walther, L. A.**; Zeller, M.; Hunter, A. D.: "Synthesis of Organometallic Materials Exhibiting Nonlinear Optical (NLO) Properties," Ohio-Michigan Regional NSF-REU Undergraduate Research Poster Session, Kent State University, July 24th, 2002.
- O71. **Hunter, A. D.**; DiMuzio, S. J.; Lowery Bretz, S.; McSparrin, L.; Snyder, B.: "X-Ray Diffraction Analysis Throughout the Curriculum: a Powerful Tool for Understanding

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- Molecular Structure and Bonding,” 223rd American Chemical Society National Meeting, Orlando, FL, April, **2002**.
- O70. **Hunter, A. D.**, Woollins, J. D.: “Discovery Research Experiments in Inorganic & Organometallic Chemistry,” 223rd American Chemical Society National Meeting, Orlando, FL, April, **2002**.
- O69. DiMuzio, S. J.; **Hunter, A. D.**; Lowery-Bretz, S.; Snyder, B.; McSparrin, L.: “A research based MS program designed to meet both teacher's professional development needs and the research needs at PUIs,” 223rd American Chemical Society National Meeting, Orlando, FL, April, **2002**.
- O68. **Hunter, A. D.**: “OrganoMetallic NanoScale Materials for Electronic and Photonic Applications,” University of Wisconsin - Milwaukee, April 1st, **2001**.
- O67. **Hunter, A. D.**: “OrganoMetallic NanoScale Materials for Electronic and Photonic Applications,” Wright State University, Dayton, Ohio, March 8th, **2002**.
- O66. **Blockhuys, F.**; Van Droogenbroeck, J.; Van Alsenoy, C.; Aucott, S.; Wheatley, M.; Woollins, J. D.; Hunter, A. D.: “Structure and Bonding of Organometallic NSNS Rings: (η^5 -C₅H₅)Co(NSNS) and its Derivatives,” Nineteenth Austin Symposium on Molecular Structure, Austin, Texas, March 3rd, **2002**.
- O65. **Hunter, A. D.**: “OrganoMetallic NanoScale Materials for Electronic and Photonic Applications,” Duquense University, Pittsburgh, PA, February 1st, **2002**.
- O64. **Hunter, A. D.**: “OrganoMetallic NanoScale Materials for Electronic and Photonic Applications,” Case Western Reserve University, Cleveland, OH December 7th, **2001**.
- O63. **Hunter, A. D.**: “OrganoMetallic NanoScale Materials for Electronic and Photonic Applications,” Ohio State University - Department of Materials Science, Columbus, Ohio, November, 16th, **2001**.
- O62. **Hunter, A. D.**: “OrganoMetallic NanoScale Materials for Electronic and Photonic Applications,” Kenyon University, Ohio, November 15th, **2001**.
- O61. **Hunter, A. D.**: “Organometallic NanoScale Materials for Electronic and Optical Applications,” Hiram College, Hiram, Ohio, November 12th, **2001**.
- O60. **Hunter, A. D.**: “Remote Access to Advanced Scientific Instrumentation Using the World Wide Web,” Thiel College, Greenville, PA, October 18th, **2001**.
- O59. **Hunter, A. D.**: “Organometallic NanoScale Materials for Electronic and Optical Applications,” Indiana University of Pennsylvania, Indiana, PA, September 28th, **2001**.
- O58. Hunter, A. D., DiMuzio, S. J.: “X-Ray Diffraction Analysis Throughout the Curriculum: How Low Can (Should) You Go?,” 222nd American Chemical Society National Meeting, Chicago, IL, August, **2001**, #451,258.
- O57. **Hunter, A. D.**; Aucott, S.; Wheatley, M.; Blockhuys, F.; Zibarev, A.; Coles, S. J.; Woollins, J. D.; Van Alsenoy, K.; Hursthouse, M. B., Slawin, A.M., Hansen, N.; Lecomte, C.: “Structure and Bonding Studies of Organic and Organometallic SNSN Rings and Cages,” 222nd American Chemical Society National Meeting, Chicago, IL, August, **2001**, #451,227.
- O56. **Hunter, A. D.**, DiMuzio, S. J.: Wang, X.; Bianconi, L. J.; Braho, D.; Bott, S. J.: “Organometallic Condensation Polymers and Supramolecular Materials,” 222nd American Chemical Society National Meeting, Chicago, IL, August, **2001**, 451,224.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- O55. **Hunter, A. D.**; DiMuzio, S. J.; Guo, X. A.; Wang, X.; Bianconi, L. J.; Braho, D.: "Electronically Bridged Organometallic Materials for Molecular Electronics Applications," 222nd American Chemical Society National Meeting, Chicago, IL, August, **2001**, 451,225.
- O54. **Hunter, A. D.**: "Designing a Research Based Graduate Program to Meet the Needs of High School Chemistry Teachers," 222nd American Chemical Society National Meeting, Chicago, IL, August, **2001**, #451,222.
- O53. **Hunter, A. D.**; Brothers, B.; Kasvinsky, P.; Mincey, D. W.: "Six DUE Grants as Catalysts for the Transformation of a PUI Chemistry Department," 222nd American Chemical Society National Meeting, Chicago, IL, August, **2001**, #451,220.
- O52. **Hunter, A. D.**; DiMuzio, S. J.: "Crystallographic Education: A Split Path to the Future?," American Crystallographic Association Annual Meeting, Los Angeles, CA, July **2001**.
- O51. **Hunter, A. D.**: "The NMR Approach: A Model for Diffraction Instruction in the 21st Century," British Crystallography Association Annual Meeting, Reading University, Reading, England, April 8th, **2001**, CP-17.
- O50. **Hunter, A. D.**: "Crystallization," Panelist at the British Crystallographic Association, University of Durham, March 31st, **2001**.
- O49. **Hunter, A. D.**: "Delocalized Polyphenylene Rods: Organometallic vs. Olefin Bridges," University of Antwerp, Antwerp, Belgium, February 19th, **2001**.
- O48. **Hunter, A. D.**: "Ligand-Metal and Metal-Metal Interactions in Mono and Polymetallic Complexes: Implications for Molecular Materials," York University, York, England, February 2nd, **2001**.
- O47. **Hunter, A. D.**: "Career Options at Predominantly Undergraduate Institutions," University of St. Andrews, St. Andrews, Scotland, November, **2000**.
- O46. Franz, A. H.; **Samoshin, V. V.**; Myers, C.; Hunter, A. D. and Gross, P. H.: "Structural Elucidation of Glycosyl Cyanides - An Unprecedented Double Bond Formation upon Cyanation of the Dimer from L-Fucal," 36th ACS Western Regional Meeting, San Francisco, CA, October, **2000**.
- O45. **Hunter, A. D.**; DiMuzio, S. J.: "X-Ray Diffraction Analysis For High School and College Freshman Students: A Powerful Tool for Understanding Molecular Structure and Bonding," European Crystallographic Meeting, Nancy, France, August 24th - 31st, **2000**.
- O44. Hunter, A. D.; DiMuzio, S. J.: "X-Ray Diffraction Analysis For High School and College Freshman Students: A Powerful Tool for Understanding Molecular Structure and Bonding," Biennial Conference on Chemical Education, University of Michigan at Ann Arbor, American Chemical Society Division of Chemical Education, July 30th - August 3rd, **2000**.
- O43. **Hunter, A. D.**, Hoff, R., Levison, B., and Team YSU: "The Youngstown State University PUI Instrumentation Center," the CUR annual meeting, Wooster, Ohio, June 21st, **2000**.
- O42. **Hunter, A. D.**; DiMuzio, S. J.: "X-Ray Diffraction Analysis: Modules, Courses, and Undergraduate Research," the CUR annual meeting, Wooster, Ohio, June 21st, **2000**.

Curriculum Vita - Dr. Allen D. Hunter, Fall 2008

- O41. **Hunter, A. D.:** “Undergraduates and Research: Should We Send Them Away,” Panelist at the Council for Undergraduate Research, CUR, round table on the RUI program at the CUR annual meeting, Wooster, Ohio, June 21st, **2000**.
- O40. **Hunter, A. D.:** “The Council of Undergraduate Research White Paper on the NSF Research at Undergraduate Institutions, RUI, Program,” Panelist at the Council for Undergraduate Research, CUR, round table on the RUI program at the CUR annual meeting, Wooster, Ohio, June 21st, **2000**.
- O39. **Hunter, A. D.:** “The Council of Undergraduate Research White Paper on the NSF Research Sites for Educators in Chemistry, RSEC, Program,” Panelist at the Council for Undergraduate Research, CUR, round table on the RSEC program at the CUR annual meeting, Wooster, Ohio, June 21st, **2000**.
- O38. **Hunter, A. D.:** “The Council of Undergraduate Research White Paper on the NSF RSEC Program,” at the joint American Chemical Society and National Science Foundation Special Session on the NSF’s Research Sites for Educators in Chemistry, RSEC, Program at the national ACS meeting San Francisco, March 25th, **2000**.
- O37. **Hunter, A. D.:** "Integrating Diffraction Methods into the Curriculum: from K - 16+, Challenges and Opportunities," The Ohio Project for Science Education, OSU, Columbus Ohio, January 28th, **2000**.
- O36. **Hunter, A. D.:** “Broadening the Pipeline: Integrating Diffraction Methods into the Undergraduate Curriculum,” American Crystallographic Annual Meeting, May 25th, **1999**.
- O35. **Hunter, A. D.:** “New Approaches to Teaching Crystallography to Undergraduates: One Day Experiments, a Step by Step Lab Manual, and the Integration of Single Crystal and Powder Methods,” International Center for Diffraction Data Annual Meeting, March 18th, **1999**.
- O34. **Hunter, A. D.:** “New Approaches to Teaching Crystallography to Undergraduates: One Day Experiments and a Step by Step Lab Manual,” Pittsburgh Diffraction Society Annual Meeting, November 5th, **1998**.
- O33. Landis, K. G.; **Curtin, L. S.**; Filler, F. L.; Hunter, A. D.; Varnum, S. A.: “Synthesis, Characterization, and Electrochemistry of Metal Triphenylphosphine Maleonitriledithiolate Complexes and Their Reactions Towards C60,” 29th Central Regional Meeting of the American Chemical Society, Midland, Michigan, May 28th, **1997**.
- O32. Filler, F. L.; **Curtin, L. S.**; Landis, K. G.; Hunter, A. D.; Landis, M. L.; Palmieri, M. J.; Varnum, S. A.: “Synthesis, Characterization, and Electrochemistry of Metal Triphenylphosphine Maleonitriledithiolate Complexes and Their Reactions Towards C60,” 30th Middle Atlantic Regional Meeting of the American Chemical Society, Philadelphia, PA, May 23rd, **1996**.
- O31. **Hunter, A. D.:** “X-Ray Crystallography and NMR Spectroscopy: Molecular Structures in the Solid State and Solution,” Lorain County Community College, Elyria, OH, Nov. 28th, **1994**.

- O30. **Hunter, A. D.:** "X-ray Crystal Structure of (η^6 -5-carbomethoxy-1,2,3-trimethoxybenzene)chromiumtricarbonyl," American Crystallographic Society short course in X-ray Crystallography, Pittsburgh, PA, August 12th, **1994**.
- O29. **Guo, X.;** Hunter, A. D.: "Towards Organometallic Condensation Polymers: Novel Polyesters, Polycarbonates and Polyurethanes Derived from Novel Diol Monomers Having Fluorinated Arene Backbones," 204th ACS National Meeting, Washington, DC, August, **1992**.
- O28. **Sturge, K. C.;** Lesley, G.; Guo, X.; Hunter, A. D.: "Arene-Bridged Organometallic Polymers of $M(PR_3)_2$ Units ($M = Ni, Pd$)," 204th ACS National Meeting, Washington, DC, August, **1992**.
- O27. **Guo, X.;** Hunter, A. D.;; "Molecular Weight Determination in Organometallic Polymers," 75th Canadian Chemical Conference, Edmonton, Alberta, June 1992, IN-D5P 379P.
- O26. **Sturge, K. C.;** Hunter, A. D.: "Octafluorobiphenyl Bridged Oligomers and Polymers of $Ni(PR_3)_2$," 75th Canadian Chemical Conference, Edmonton, Alberta, June **1992**, IN-D5P 380P.
- O25. **Hunter, A. D.;** Sturge, K. C.; Guo, X.; Lesley, G.; Li, J.; Wang, X.; Chen, J.: "One Dimensional Organometallic Polymers," 75th Canadian Chemical Conference, Edmonton, Alberta, June **1992**, IN-H3 409.
- O24. **Hunter, A. D.;** Sturge, K. C.; Guo, X.; Lesley, G.; Wang, X.: "One-Dimensional Organometallic Polymers: New Materials, Potentials, and Limitations," 203rd ACS National Meeting, San Francisco, C.A., April **1992**, INOR 344.
- O23. **Li, J.;** Hunter, A. D.: "Perfluorophenylene-bridged oligomers and polymers of $Ni(PBu_3)_2$," 203rd ACS National Meeting, San Francisco, C.A., April **1992**, INOR 414.
- O22. **Cai (Tsai), S. D.;** Hunter, A. D.: "Redox-active Organometallic Complexes," 203rd ACS National Meeting, San Francisco, C.A., April **1992**, INOR 413.
- O21. **Hunter, A. D.:** "One Dimensional Organometallic Polymers," Technology Day 1991 - Institute for Chemical Science and Technology, November 18th, **1991**.
- O20. **Hunter, A. D.;** Li, J.; McDonald, R.; Guo, X.: "Approaches to Arene-Bridged Organometallic Polymers," Polymers for Alberta's Future, June **1991**.
- O19. **Hunter, A. D.;** Li, J.; McDonald, R.; Guo, X.: "Approaches to Arene-Bridged Organometallic Polymers," 74th Canadian Chemical Congress, Hamilton, June **1991**, Abstr. 584.
- O18. **Hunter, A. D.:** "Polymetallic Complexes and Polymers with Aromatic Bridges: Surprising Chemistry and Potential Applications." Department of Chemistry, University of Calgary, March 12th, **1991**.
- O17. **Hunter, A. D.:** "Polymetallic Complexes and Polymers with Aromatic Bridges: Surprising Chemistry and Potential Applications." Department of Chemistry, Simon Fraser University, February 19th, **1991**.
- O16. **Hunter, A. D.;** Chukwu, R.; Mozol, V.; Ristic-Petrovic, D.: "Electrochemical Behavior of the Phenylene-Bridged Organometallic Complexes," 200th ACS National Meeting, Washington, DC, August **1990**, INOR 121.

- O15. **Hunter, A. D.**; Mozol, V.; Santarsiero, B. D.: “(Arene)Cr(CO)₃ Complexes, Metal-Substituent and Metal-Metal Interactions; Steric *versus* Electronic Effects,” 73rd Canadian Chemical Congress, Halifax, July 1990, abstr. 614
- O14. **Hunter, A. D.**; Hunter, A. D.: “Polymetallic Heteroarene Bridged Complexes of Iron,” 73rd Canadian Chemical Congress, Halifax, July 1990, Abstr. 623.
- O13. **Hunter, A. D.**: “Organometallic Derivatives of Nitrogen-Containing Heterocyclic Rings: Molecules with High Bioactivities?” DowElanco Discovery Research Center, Greenfield, Indiana, March 16th, 1990.
- O12. **Hunter, A. D.**: “One-Dimensional Organometallic Polymers,” Institute for Chemical Sciences and Technology, Dupont Canada Headquarters, Mississauga, Ontario, March 30th, 1990.
- O11. **Hunter, A. D.**; Richter-Addo, G. B.; Chukwu, R.; Ristic-Petrovic, D.: “Phenylene-Bridged Complexes, Unusual Metal-Metal Interactions and the Synthesis of Dimetalloquinones,” 1989 International Chemical Congress of the Pacific Basin Societies, Honolulu, Hawaii, December 1989, abstr. 5-I.
- O10. **Hunter, A. D.**; Chukwu, R.; Richter-Addo, G. B.: “Dimetalloquinone Complexes,” 198th ACS National Meeting, Miami Beach (Florida), September 1989, INOR42.
- O9. Richter-Addo, G. B.; **Hunter, A. D.**; Ristic-Petrovic, D.: “Perturbations of Dimetalloquinone Character by π Complexation,” 198th ACS National Meeting, Miami Beach (Florida), September 1989, INOR43.
- O8. **Hunter, A. D.**; Richter-Addo, G. B.; McLernon, J. L.; Szigety, A.: “Phenylene Bridged Polymetallic Clusters,” 72nd CIC Annual Meeting, Victoria, June 1989, abstr. 272.
- O7. Szigety, A.; **Hunter, A. D.**: “Ipso attack and C-O Bond Cleavage of Aryl Esters by CpFe(CO)₂⁻,” 72nd CIC Annual Meeting, Victoria, June 1989, abstr. 347.
- O6. **Chukwu, R.**; Hunter, A. D.: “Polymetallic Clusters with Heteroaromatic Bridges,” 72nd CIC Annual Meeting, Victoria, June 1989, abstr. 348.
- O5. Richter-Addo, G. B.; **Hunter, A. D.**; Wichrowska, N.: “Nucleophilic Attack on (Arene)Cr(CO)₃ by CpFe(CO)₂⁻; Bimetallic Complex Formation,” 72nd CIC Annual Meeting, Victoria, June 1989, abstr. 349.
- O4. **Hunter, A. D.**; Chukwu, R.; Richter-Addo, G. B.: “ σ,π -Complexes of Arenes,” 197th ACS National Meeting, Dallas, April 1989, INOR462.
- O3. **Hunter, A. D.**: “Phenylene Bridged Organometallic Complexes,” Third Chemical Congress of North America, Toronto, June 1988, INOR 87.
- O2. Bennett, M. A.; **Hunter, A. D.**: “Olefin and Alkyl Complexes of an Electron-Rich Iron Center,” Fourth IUPAC Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-IV), Vancouver, July 1987, PS1-53.
- O1. Christensen, N. J.; **Hunter, A. D.**; Legzdins, P.; Einstein, F. W. B.; Willis, A. C.; Bursten, B. E.; Gatter, M. G.: “Structural and Electronic Consequences of Coordinating Butadienes to CpMo(NO),” Inorganic Chemistry in Australia '86, Melbourne, Australia, 28th January 1986.

Hunter's Community Presentations:

- CP7. Hunter, A. D.; Garvey, M. S.; Parker, E.: "Moving from Concept to Center of Excellence," Leadership Mahoning Valley, Youngstown, Ohio, May 9th, **2008**.
- CP6. Hunter, A. D.; Rodabaugh, S.: "The Impact of STEM Disciplines on Regional Economic Development," Trumbull County Board of Education, Howland, Ohio, October 29th, **2007**.
- CP5. Hunter, A. D.; Garvey, M.: "Building Long Term Business Growth by an Integrated R&D Program: A User's Guide to Funding Options from State & Federal Sources", Third Thursdays at Three: The Mahoning Valley's Innovation and Technology Forum, Youngstown Business Incubator, Youngstown, Ohio, October 18th, **2007 - Postponed**.
- CP4. Hunter, A. D.: "High Performance Computing: Applications to Blue Collar Industry," The Mahoning and Shenango Valley Advanced Manufacturing Initiative Meeting, Youngstown Ohio, May 18th, **2007**.
- CP3. Hunter, A. D.; Zeller, M.; Parker, E.: "YSU's CyberTechnology Program," Third Thursdays at Three: The Mahoning Valley's Innovation and Technology Forum, Youngstown Ohio, April 19th, **2007**.
- CP2. Hunter, A. D.: "Using State and Federal Grants to Accelerate Innovation and Increase Competitiveness at Your Company: CyberTechnology, YSU, YBI, & Regional Companies and the SBIR/STTR and 3rd Frontier Program - A Representative Example," The Mahoning and Shenango Valley Advanced Manufacturing Initiative Meeting, Youngstown Ohio, May 31st, **2006**.
- CP1. Hunter, A. D.: "Research & Development in the Greater Youngstown Region," Boardman Rotary Club, Boardman, Ohio, March 21st, **2006**.