

Richard E. Norman  
Professor and Chair  
Department of Chemistry  
College of Sciences

### Degrees Earned

Ph.D. in Chemistry, University of Washington, 1985

M.S. in Chemistry, University of Washington, 1983

B.S. cum laude with Distinction in Chemistry, University of Washington, 1981

### Professional Licensure and Certifications

Bachelor's degree certified by the American Chemical Society

### Peer-Review Publications and Artistic Performances/Exhibitions

#### Articles

Berners-Price, S. J.; Norman, R. E.; Sadler, P. J.; "The Autoxidation and Proton Dissociation Constants of Tertiary Diphosphines: Relevance to Biological Activity." *J. Inorg. Biochem.*, **1987**, *31*, 197-209.

Norman, R. E.; Rose, N. J.; Stenkamp, R. E.; "Crystal Structure of a Copper Complex of 2-Carboxypentonic Acid; a Decomposition Product of Dehydroascorbic Acid." *J. Chem. Soc., Dalton Trans.*, **1987**, 2905-10.

Bell, J. D.; Norman, R. E.; Sadler, P. J.; "Coordination Chemistry in Biological Media: Reactions of Antitumor Pt(II) and Au(III) Complexes with Cell Culture Media." *J. Inorg. Biochem.*, **1987**, *31*, 241-6.

Bell, J. D.; Brown, J. C. C.; Newell, D. R.; Norman, R. E.; Sadler, P. J.; "Factors Affecting  $^1\text{H}$  NMR Spectra of Blood Plasma: Cancer, Diet, and Freezing." *NMR in Biomedicine*, **1988**, *1*, 90-94.

Norman, R. E.; Sadler, P. J.; " $^{14}\text{N}$  NMR Studies of Amine Release from Platinum Anticancer Drugs: Models and Human Blood Plasma." *Inorg. Chem.*, **1988**, *27*, 3583-3587.

Norman, R. E.; Stenkamp, R. E.; Rose, N. J.; "Simple, Direct Synthesis and Structure of Hexa- $\mu$ -chloro-tetrakis(1-methylimidazole)- $\mu_4$ -oxo-tetracopper(II)." *Acta Cryst.* **1989**, *C45*, 1707-1713.

Norman, R. E.; Rose, N. J.; Stenkamp, R. E.; "Mono-Amino-Acid-Copper Complexes: Syntheses and Structures of Chloro(glycinato)(methanol)copper(II) and Chloro(glycinato)(1-methylimidazole)-copper(II)." *Acta Cryst.* **1990**, *C46*, 1-6.

Norman, R. E.; Stenkamp, R. E.; "Structure of a Copper(II) Complex of 2-Carboxypentonic Acid ( $\text{H}_3\text{CPA}$ );  $[\text{Cu}_9\text{Br}_2(\text{CPA})_6]_n^{2-} \cdot x\text{H}_2\text{O}$ ." *Acta Cryst.* **1990**, *C46*, 6-8.

Norman, R. E.; Yan, S.; Que, L., Jr.; Backes, G.; Ling, J.; Sanders-Loehr, J.; Zhang, J. H.; O'Connor, C. J.; “( $\mu$ -Oxo)( $\mu$ -carboxylato)diiron(III) Complexes with Distinct Iron Sites. Consequences of the Inequivalence and Its Relevance to Dinuclear Iron-Oxo Proteins.” *J. Am. Chem. Soc.* **1990**, *112*, 1554-1562.

Leising, R. A.; Norman, R. E.; Que, L., Jr.; “Alkane Functionalization by Nonporphyrin Iron Complexes: Mechanistic Insights.” *Inorg. Chem.* **1990**, *29*, 2553-2555.

Norman, R. E.; Holz, R. C.; Menage, S.; O'Connor, C. J.; Zhang, J. H.; Que, L., Jr.; “Structures and Properties of Dibriged ( $\mu$ -Oxo)diiron(III) Complexes. Effects of the Fe-O-Fe Angle.” *Inorg. Chem.* **1990**, *29*, 4629-4637.

Britton, D.; Norman, R. E.; Que, L., Jr.; “[2-pyridinium)methyl]amine perchlorate.” *Acta Cryst.* **1991**, *C47*, 2415-17.

Norman, R. E.; Ranford, J. D.; Sadler, P. J.; “Studies of Pt(II) Methionine Complexes: Metabolites of Cisplatin.” *Inorg. Chem.* **1992**, *31*, 877-888.

Davidson, Y. Y.; Chang, S.-C.; Norman, R. E.; “Synthesis and Crystal Structure of a Novel Cyclic Trinuclear Platinum(II) Complex, Pt<sub>3</sub>(L-Methionine)<sub>3</sub>•H<sub>2</sub>O.” *J. Chem. Soc., Dalton Trans.*, **1995**, 77-81.

Kubal, G.; Meyer, D. J.; Norman, R. E.; Sadler, P. J.; “Investigations of Glutathione Conjugation *In Vitro* by <sup>1</sup>H NMR Spectroscopy. Uncatalyzed and Glutathione-Transferase-Catalyzed Reactions.” *Chem. Res. Toxicol.* **1995**, *8*, 780-791.

Tzou, J.-R.; Mullaney, M.; Norman, R. E.; Chang, S.-C.; “Hexakis(dimethylsulfoxide-O)iron(III) Trinitrate.” *Acta Cryst.* **1995**, *C51*, 2249-2252.

Whalen, J. T.; Chang, S.-C.; Norman, R. E.; “Dichloro(ethylenediaminetetraacetic acid-*N,N*) platinum(II) water(1:6).” *Acta Cryst.* **1996**, *C52*, 297-300.

Vilchiz, V. H.; Norman, R. E.; Chang, S.-C.; “L-Histidine Methyl Ester Dihydrochloride.” *Acta Cryst.* **1996**, *C52*, 696-698.

Tzou, J.-R.; Huang, A.; Fleming, F. F.; Norman, R. E.; Chang, S.-C.; “1-Cyanomethyl-6,7,8-trioxabicyclo[3.2.1]octane.” *Acta Cryst.* **1996**, *C52*, 1012-1014.

Hussain, Z.; Fleming, F. F.; Norman, R. E.; Chang, S.-C.; “3-Cyano-1-[4-(1,3-dithian-2-yl)butyl]-1,4,5,6-tetrahydropyridine.” *Acta Cryst.* **1996**, *C52*, 1010-1012.

Hussain, Z.; Fleming, F. F.; Norman, R. E.; Chang, S.-C.; “(9*S*, 9*aR*)-1,3,4,6,7,8,9,9*a*-Octahydro-2*H*-quinolizine-1-spiro-2'-(1',3'-dithiane)-9-carbonitrile.” *Acta Cryst.* **1996**, *C52*, 1296-1298.

Fleming, F. F.; Hussain, Z.; Mullaney, M.; Norman, R. E.; Chang, S.-C.; “(8*R*, 8*aS*)-Indolizidine-1-spiro-2'-(1',3'-dithiane)-8-carbonitrile.” *Acta Cryst.* **1996**, *C52*, 2849-2851.

Norman, R. E.; Peterson, N. L.; Chang, S.-C.; “ $\mu$ -Acetato-*O*:*O*- $\mu$ -oxo-bis[tris(2-pyridylmethyl)amine-*N,N',N'',N'''*]diiron(III) Tris(trifluoromethanesulfonate) Dihydrate.” *Acta Cryst.* **1997**, *C53*, 452-453.

Fleming, F. F.; Hussain, Z.; Weaver, D.; Norman, R. E.; “ $\alpha,\beta$ -Unsaturated Nitriles: Stereoselective Conjugate Addition Reactions.” *J. Org. Chem.* **1997**, *62*, 1305-1309.

Ciringh, Y.; Gordon-Wylie, S. W.; Norman, R. E.; Clark, G. R.; Weintraub, S. T.; Horwitz, C. P.; “Multinuclear Paramagnetic NMR Spectra and Solid State X-ray Crystallographic Characterization of Manganese(III) Schiff-Base Complexes.” *Inorg. Chem.* **1997**, *36*, 4968-4982.

Mullaney, M.; Chang, S.-C.; Norman, R. E.; “Crystal Structure of Dichloro(ethylenediamine-diacetic acid-*N,N'*)platinum(II).” *Inorg. Chim. Acta* **1997**, *265*, 275-278. **Invited paper.**

Patterson, R. E.; Gordon-Wylie, S. W.; Woome, C. G.; Norman, R. E.; Weintraub, S. T.; Horwitz, C. P.; Collins, T. J.; “Electron-Transfer Oxidation by Phase-Separating Reagents.” *Inorg. Chem.* **1998**, *37*, 4748-4750.

Norman, R. E.; Leising, R. A.; Yan, S.; Que, L., Jr.; “Unexpected Assembly of a ( $\mu$ -Oxo)( $\mu$ -formato)-diiron(III) Complex.” *Inorg. Chim. Acta* **1998**, *273*, 393-396. **Invited paper.**

Tong, B.; Norman, R. E.; Chang, S.-C.; “Di- $\mu$ -chloro-bis{[tris(2-pyridylmethyl)amine- $\kappa^4N$ ]nickel(II)} bis(triethylammonium) tetraperchlorate.” *Acta Cryst.* **1999**, *C55*, 1236-1238.

Tong, B.; Chang, S.-C.; Carpenter, E. E.; O'Connor, C. J.; Lay, J. O., Jr.; Norman, R. E.; “Di- $\mu$ -halo-bis{[tris(2-pyridylmethyl)amine- $\kappa^4N$ ]nickel(II)} bis(triethylammonium) tetraperchlorate: Magnetostructural Studies.” *Inorg. Chim. Acta* **2000**, *300-302*, 855-861. **Invited paper.**

Fleming, F. F.; Pu, Y.; Norman, R. E.; Chang, S.-C.; “Crystal structure of [2-(*tert*-butyldimethylsilyloxy)-6-phenyl]-1-cyclohexene-1-carbonitrile, C<sub>19</sub>H<sub>27</sub>NOSi.” *Z. Kristallogr. NCS* **2001**, *216*, 647-648.

Ariyananda, L. M. D.; Norman, R. E.; “Tris(2,2'-bipyridyl-*N,N'*)iron(II) tetrachloroferrate(III).” *Acta Cryst.* **2002**, *E58*, m775-m776.

Gunatilleke, S. S.; Norman, R. E.; “*N,N,N',N'*-Tetrakis(2-pyridiniomethyl)ethylenediamine tetraperchlorate.” *Acta Cryst.* **2003**, *E59*, o269-o271.

Gosh, A.; Ryabov, A. D.; Mayer, S. M.; Horner, D. C.; Prasuhn, D. E., Jr.; Gupta, S. S.; Vuocolo, L.; Culver, C.; Hendrich, M. P.; Rickard, C. E. F.; Norman, R. E.; Horwitz, C. P.; Collins, T. J.; “Understanding the Mechanism of H<sup>+</sup>-Induced Demetalation as a Design

Strategy for Robust Iron(III)-Peroxide-Activating Catalysts.” *J. Am. Chem. Soc.* **2003**, *125*, 12378-12379.

Mallikaratchy, P.; Norman, R. E.; Fronczek, F.; Junk, T.; “Tribromo-(3,5-dimethyl-2-nitrophenyl-*C,O*)-tellurium(IV), bromo-(3,5-dimethyl-2-nitrophenyl-*C,O*)-tellurium(II), and bromo-(3,5-dimethyl-2-nitrosophenyl-*C,O*)-tellurium(II).” *Acta Cryst.* **2003**, *C59*, o571-o574.

Ariyananda, W. G. P.; Norman, R. E.; “Tris(2-ammonioethyl)amine tribromide.” *Acta Cryst.* **2003**, *E59*, o1601-o1603.

Norman, R. E.; Xie, M.; “Nickel(II) 1,10-phenanthroline complexes: *cis*-[aqua(bromo)*bis*(1,10-phenanthroline)nickel(II)] bromide trihydrate and [*tris*(1,10-phenanthroline)nickel(II)] bromide octahydrate.” *J. Coord. Chem.* **2004**, *57*, 425-434.

Baker, R. S.; Norman, R. E.; “Di(acetato-*O*)(bis(2-pyridylmethyl)amine-*N,N',N''*)zinc(II) – acetic acid (1/2).” *Acta Cryst.* **2004**, *E60*, m1761-m1763.

Ariyananda, W. G. P.; Norman, R. E.; “Tetrakis(1,2-diaminobenzene)- $\kappa^2N$ ;  $\kappa^4N,N'$ -nickel(II) dichloride.” *Acta Cryst.* **2005**, *E61*, m187-m189.

Mallikaratchy, P.; Norman, R. E.; Fronczek, F.; Junk, T.; “( $\mu$ -Diazenediyl)diphenyl- $\kappa^2C^2,N^2$ : $\kappa^2C^2,N^1$ )-bis[(3,5-dimethylphenyl)tellurium(II)].” *Acta Cryst.* **2005**, *E61*, m1370-m1372.

Ariyananda, L. M. D.; Norman, R. E.; “2- $\{[N$ -(Pyridinium-2-ylmethyl)-*N*-pyridin-2-ylmethylamino]-methyl}-1-(pyridin-2-ylmethyl)-pyridinium diperchlorate.” *Acta Cryst.* **2005**, *E61*, o2679-o2681.

Xie, M.; Norman, R. E.; “Di- $\mu$ -bromo-bis[bis(1,2-diaminoethane- $\kappa^2N,N$ )nickel(II)] dibromide.” *Acta Cryst.* **2006**, *E62*, m408-m410.

Ariyananda, W. G. P.; Norman, R. E.; “*Trans*-Dibromo-bis(*N,N'*-dimethylethane-1,2-diamine- $\kappa^2N,N'$ )nickel(II),.” *Acta Cryst.* **2006**, *E62*, m2336-m2338.

Ariyananda, W. G. P.; Norman, R. E.; “*Trans*-Dichloro-bis(*N,N'*-dimethylethane-1,2-diamine- $\kappa^2N,N'$ )nickel(II).” *Acta Cryst.* **2006**, *E62*, m2339-m2341.

Moore, L. E., Jr.; Norman, R. E.; “*Trans*-Diaqua-bis(*N,N'*-dimethylethane-1,2-diamine- $\kappa^2N,N'$ )nickel(II) dichloride dihydrate.” *Acta Cryst.* **2006**, *E62*, m2342-m2344.

Ide, D. M. M.; Norman, R. E.; “*Trans*-Diaqua-bis(*N,N*-dimethylethane-1,2-diamine- $\kappa^2N,N'$ )nickel(II) dichloride dihydrate: a redetermination at 90 K.” *Acta Cryst.* **2007**, *E63*, m558-m560.

Smith, C. M.; Norman, R. E.; “ $\mu$ -Sulfato-1 $\kappa$ O:2 $\kappa$ O- $\mu$ -oxo-bis[tris(2-pyridylmethyl)amine- $\kappa^4N,N',N'',N'''$ ]diiron(III) diperchlorate acetonitrile/water (0.75/0.25) solvate.” *Acta Cryst.* **2007**, *E63*, m2480-m2481.

Randeniya, S. R.; Norman, R. E.; “Bis(thiocyanato- $\kappa N$ )[tris(2-pyridylmethyl)amine- $\kappa^4N,N',N'',N'''$ ]nickel(II) methanol hemisolvate.” *Acta Cryst.* **2009**, *E65*, m771.

Jayaratna, N. B.; Norman, R. E.; “Crystal Structure of [*N,N'*-bis(pyridine-2-yl)benzylidene]-butane-1,4-diamine, C<sub>28</sub>H<sub>26</sub>N<sub>4</sub>.” *Z. Kristallogr. NCS.* **2010**, *225*, 179-180.

Jayaratna, N. B.; Norman, R. E.; “2-Phenyl-2-(pyridine-2-yl)-hexahydropyrimidine.” *Acta Cryst.* **2010**, *E66*, o3149.

#### **Books**

None

#### **Chapters**

None

#### **Proceedings**

None

#### **Artistic Performances**

None

#### **Artistic Exhibitions**

None

#### **Research Monographs and Technical Reports**

None

#### **Funded External Grants**

Heterobimetallic Complexes as Possible Anticancer and AIDS Drugs. Jacob A. and Frieda M. Hunkele Charitable Trust, 1993. Funding: \$11,925. Principal Investigator: Norman, R.E. (Duquesne University).

A Joint Proposal to Enhance the Computational Content in Chemistry Courses. Louisiana Board of Regents Support Fund, 1998-1999. Funding: \$16,893 (with \$16,390 match). Principal Investigator: Ramachandran, B. (Louisiana Tech University). Co-PI: Norman, R.E. (University of Louisiana at Monroe).

Departmental Research Grant. The Robert A. Welch Foundation, 2006-2009. Funding \$120,000. Principal Investigator: Norman, R.E. (Sam Houston State University).

MRI: Acquisition of a Cyber-enabled Benchtop Single Crystal X-Ray Diffractometer for Small Molecule Structure Analysis for Research and Educational Purposes. National Science Foundation, 2008. Funding \$124,880. Principal Investigator: Martin, B. R. (Texas State University – San Marcos). Consortium member: Norman, R. E. (Sam Houston State University).

Departmental Research Grant. The Robert A. Welch Foundation, 2009-2012. Funding \$135,000. Principal Investigator: Norman, R.E. (Sam Houston State University).

Departmental Research Grant. The Robert A. Welch Foundation, 2012-2013. Funding \$40,000. Principal Investigator: Norman, R.E. (Sam Houston State University).

#### **Peer-Review Presentations/Posters**

Norman, R. E.; Stenkamp, R. E.; Rose, N. J.; “The Crystal and Molecular Structure of Chloro (glycinato)(methanol)copper(II); a Mono Amino Acid Copper Complex”; 39<sup>th</sup> Northwest Regional Meeting of the American Chemical Society, University of Idaho, Moscow, Idaho, 1984.

Que, L., Jr.; Kumar, V.; Murch, B. P.; Brennan, B. A.; Chen, Q.; “Structure and Reactivity of Binuclear Iron Peroxide Complexes”; Third Chemical Congress of North America & 195<sup>th</sup> National Meeting of the American Chemical Society, Toronto, Ontario, Canada 1988. INOR 674. I gave the talk for LQ.

Que, L., Jr.; Cox, D. D.; Norman, R. E.; “Modelling the Chemistry of Nonheme Iron Oxygenases.”; 4<sup>th</sup> International Conference on BioInorganic Chemistry, Boston, U.S.A., 1989. *J. Inorg. Biochem.*, **1989**, 36, 309.

Norman, R. E.; Tong, B.; “Structures of Nickel(II) Tris(2-pyridylmethyl)amine Complexes.”; 54<sup>th</sup> Southwest Regional Meeting of the American Chemical Society, Baton Rouge, Louisiana, 1998. 268.

Norman, R. E.; Ariyananda, W. G. P.; Xie, M.; “Magnetostructural Studies of Halo-bridged Dinickel Complexes.”; 58<sup>th</sup> Southwest Regional Meeting of the American Chemical Society, Austin, Texas, 2002. 320.

Loeffler, P. A.; Plishker, M. F.; Norman, R. E.; “Development of the forensic science and forensic chemistry programs at Sam Houston State University.”; 233<sup>rd</sup> National Meeting of the American Chemical Society, Chicago, Illinois, 2007. CHED 1684.

#### *Posters*

Norman, R. E.; Stenkamp, R. E.; Rose, N. J.; “Crystal Structure of a Copper Complex of 2-C-carboxypentonic Acid; A Decomposition Product of Ascorbic Acid.”; 23<sup>rd</sup> International Conference on Coordination Chemistry, University of Colorado, Boulder, Colorado, 1984. THa44-4.

Bell, J. D.; Norman, R. E.; Sadler, P. J.; “Problems Associated With Testing Metal Complexes In Vitro: Reactions of Au(III) with Cell Culture Media.”; 24<sup>th</sup> International Conference on Coordination Chemistry, University of Athens, Athens, Greece, 1986. *Chimika Chronika, New Series*, **1986**, Special Issue, 818.

- Bell, J. D.; Norman, R. E.; Sadler, P. J.; "Problems Associated with Testing Metal Complexes In Vitro: Reactions of  $AuCl_4^-$  with Cell Culture Media."; 192<sup>nd</sup> American Chemical Society Meeting, Anaheim, California, 1986, INOR 202.
- Bell, J. D.; Norman, R. E.; Sadler, P. J.; "Reactions of Platinum Antitumor Complexes with Cell Culture Media and Blood Plasma:  $^1H$  NMR Studies."; Fifth International Symposium on Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy, Abano Terme (Padua), Italy, 1987, 115-117.
- Bell, J. D.; Norman, R. E.; Sadler, P. J.; "Reactions of Platinum Antitumor Drugs with Biologically Relevant Fluids: Cell Culture Medium and Blood Plasma."; 3<sup>rd</sup> International Conference on BioInorganic Chemistry, Noordwijkerhout, the Netherlands, 1987. *Recl. Trav. Chim. Pays-Bas*, **1987**, 106, 383.
- Bell, J. D.; Norman, R. E.; Ranford, J. D.; Sadler, P. J.; "Multinuclear NMR Studies of Platinum Methionine Complexes: Relevance to Anticancer Activity."; Ninth International Meeting on NMR Spectroscopy, Coventry, U. K., 1989.
- Kubal, G.; Norman, R. E.; Sadler, P. J.; Pue, M. A.; Reid, D. G.; Ross, D. A.; "NMR Studies of Hepatocytes: Glutathione Conjugation Pathways."; Ninth International Meeting on NMR Spectroscopy, Coventry, U. K., 1989.
- Norman, R. E.; Yan, S.; Que, L., Jr.; "Spectroscopic Studies of Iron(III) Complexes of TPA (Tris(2-pyridylmethyl)amine). Models for Nonheme Iron Proteins."; 4<sup>th</sup> International Conference on BioInorganic Chemistry, Boston, U.S.A., 1989. *J. Inorg. Biochem.*, **1989**, 36, 321.
- Ranford, J. D.; Sadler, P. J.; Norman, R. E.; "Multinuclear NMR Studies of Platinum(II) Methionine Complexes: Relationship to Cisplatin Metabolism."; 1989 International Chemical Congress of the Pacific Basin Societies. BIOS 88.
- Ranford, J. D.; Sadler, P. J.; Norman, R. E.; "Multinuclear NMR Studies of Pt(II) Methionine Complexes: Metabolites of Cisplatin."; 5<sup>th</sup> International Conference on BioInorganic Chemistry, Oxford, U.K., 1991. *J. Inorg. Biochem.*, **1991**, 43, 603.
- Tzou, J.-R.; Chang, S.-C.; Norman, R. E.; "Syntheses and Properties of Alkoxo Binuclear and Tetranuclear Iron(III) Complexes."; 6th International Conference on BioInorganic Chemistry, San Diego, U.S.A., 1993. *J. Inorg. Biochem.*, **1993**, 51, 480.
- Tzou, J.-R.; Chang, S.-C.; Norman, R. E.; "Studies of Alkoxo Binuclear and Tetranuclear Iron(III) Complexes. The "Dangers" of DMSO."; 208<sup>th</sup> American Chemical Society Meeting, Washington, D.C., 1994, INOR 294.
- Steward, O. W.; Yaukey, T. S.; Chang, S.-C.; Norman, R. E.; Tokii, T.; Matsushima, H.; Nakashima, M.; "Structural Studies of Triphenylacetato Cobalt(II) and Nickel(II) Complexes Crystallized from Aqueous and Alcoholic Solutions."; 31<sup>st</sup> International Conference on Coordination Chemistry, Vancouver, British Columbia, Canada, 1996.

- Norman, R. E.; Xue, J.; Hangun, Y.; Mullaney, M.; "Structures of Iron(III) Tris-(2-pyridylmethyl)-amine Complexes. Trends in Lewis Acidities."; Fifth Chemical Congress of North America, Cancun, Mexico, 1997, 2289.
- Ramachandran, B.; Norman, R. E.; Truhlar, D. G.; "Structure and energetics of halide-bridged binuclear complexes of Ni(II): A computational study."; 10<sup>th</sup> Conference on Current Trends in Computational Chemistry, Jackson, MS, 2001, 189.
- Ariyananda, W. G. P.; Norman, R. E.; "Structural Studies of 2-Pyridylmethylamine Complexes of Nickel."; 76<sup>th</sup> Annual Meeting of the Louisiana Academy of Sciences, Baton Rouge, LA, 2002.
- Baker, R. S.; Norman, R. E.; "Synthesis and X-ray Crystal Structure Determination of Di- $\mu$ -bromo-bis{[tris(2-aminoethyl)amine- $\kappa^4N$ ]nickel(II)} Diperchlorate."; 2003 Student Research Symposium, University of Louisiana at Monroe.
- Baker, R. S.; Norman, R. E.; "Syntheses and X-ray Crystal Structure Determinations of Di- $\mu$ -halo-bis{[tris(2-aminoethyl)amine]nickel(II)} Diperchlorate."; 59<sup>th</sup> Southwest Regional Meeting of the American Chemical Society, Oklahoma City, 2003, 6.
- Henry, C. M.; Norman, R. E.; "X-Ray Crystal Structure and Properties of [Fe<sub>2</sub>(TPA)<sub>2</sub>O(SO<sub>4</sub>)]-(ClO<sub>4</sub>)<sub>2</sub>•CH<sub>3</sub>CN"; 62<sup>nd</sup> Southwest Regional Meeting of the American Chemical Society, Houston, 2006, 465.
- Ide, D.; Norman, R. E.; "Synthetic Studies and X-Ray Crystal Structure of *trans*-[Ni(*N,N*-dmen)<sub>2</sub>-(H<sub>2</sub>O)<sub>2</sub>]Cl<sub>2</sub>•2H<sub>2</sub>O"; 62<sup>nd</sup> Southwest Regional Meeting of the American Chemical Society, Houston, 2006, 320.

### **Work or Professional Experiences**

2005 – Present, Professor of Chemistry and Chair, Sam Houston State University

2004, Professor of Chemistry, University of Louisiana at Monroe

2000, granted tenure, University of Louisiana at Monroe

1999-2004, Associate Professor of Chemistry, University of Louisiana at Monroe (note name change)

1997-1999, Assistant Professor of Chemistry, Northeast Louisiana University, Monroe, LA

1990-1996, Assistant Professor of Chemistry, Duquesne University, Pittsburgh, PA

1989-1990, Assistant Professor of Chemistry, University of Arkansas at Little Rock

1987-1989, Postdoctoral Associate, University of Minnesota, Minneapolis

1985-1987, Postdoctoral Fellow, University of London, London, U.K.

1981-1985, Graduate Assistant, University of Washington, Seattle



(Teaching Assistant, Research Associate, Predoctoral Lecturer)

**Honors and Awards**

B.S. cum laude with Distinction in Chemistry, University of Washington, 1981  
Dissertation Fellowship, Achievement Rewards for College Scientists, 1985

**Other Competencies**