

Anne Elizabeth Vivian Gorden, PhD, Associate Professor

Department of Chemistry and Biochemistry

Texas Tech University, Lubbock, Texas 79430 United States of America

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EDUCATION AND TRAINING:

Lawrence Berkeley National Laboratory (Berkeley, CA) - The Seaborg Center Postdoctoral Research Fellow (Jan. 2003 – Aug. 2005) Advisor: Kenneth N. Raymond

The University of California at Berkeley (Berkeley, CA) (May 2002 – Dec. 2002) Advisor: Prof. Kenneth N. Raymond

The University of Texas at Austin (Austin, TX)

Ph.D. Organic Chemistry 2002 Advisor: Prof. Jonathan L. Sessler

Thesis Title: The Coordination of Actinide Cations and Pertechnetate Anions Using Expanded Porphyrins and Other Polypyrrrolic Ligands

Emory University (Atlanta, GA)

B.S./B.A. Chemistry/ Literature 1996 Research Advisor: Prof. Albert Padwa

APPOINTMENTS:

Texas Tech University, Lubbock, TX	Associate Professor	Aug. 2020- present
Auburn University, Auburn, AL	Associate Professor	Aug. 2011-Aug. 2020
Auburn University, Auburn, AL	Associate Department Chair	Aug. 2014-Aug. 2018
Auburn University, Auburn, AL	Assistant Professor	Aug. 2005 - Aug.2011

HONORS AND AWARDS:

2019 College of Sciences and Mathematics Outstanding Undergraduate Research Mentor
2018 Auburn College of Sciences and Mathematics Dean's Faculty Service/Outreach Award
2018 SEC Travel Award – to Texas A&M University with Prof. Francois Gabbai
2016 Provost's Award for Fostering Undergraduate Research and Creative Scholarship
2016 College of Sciences and Mathematics Faculty Advisor of the Year
2013 Auburn University Women of Distinction Faculty Award
2012 Chi Omega Convocation Award - Auburn University Panhellenic Advisor of the Year
2010 Delta Gamma Foundation Faculty Award for Teaching Excellence
2008 Duke University Talent Identification Program Distinguished Alumnae Award
2007 AU Society for Women in Science and Mathematics Faculty Mentoring Award
2007 ORAU Ralph E. Powe Junior Faculty Enhancement Award
2006 Top Five Hot Topics/Cool Papers - Fall 2006 MRS Conference
2003 The Lawrence Berkeley National Lab Seaborg Center Postdoctoral Fellow
2000, 2001, 2002 - Seaborg Institute Research Fellow, Los Alamos National Lab
2000, 1999 Delta Gamma Foundation, Fellowship for Women in Science
1999 Seaborg Research Fellow, Los Alamos National Lab
1996 General Electric Faculty for the Future Graduate Fellowship
1995 General Electric Faculty for the Future Undergraduate Fellowship
1993 Humana Healthcare Corporation Scholarship
1992 Clark Foundation Grant, The University of Texas at Dallas
1992 National Merit Scholar

TEACHING EXPERIENCE: COURSES TAUGHT AT TEXAS TECH UNIVERSITY:

1. CHEM 3305 – OH (Honors Organic Chemistry I) – (~75 per offering) Fall 2020
2. CHEM 3306 – OH (Honors Organic Chemistry II) – (~75 per offering) Spring 2021, Spring 2022*

TEACHING EXPERIENCE: COURSES TAUGHT AT AUBURN UNIVERSITY:

1. CHEM 2070 (Organic Chemistry I) – (~195 per offering) Fall 2005, Fall 2006, Fall 2008, Fall 2010, Fall 2011, Fall 2013, Spring 2015, Fall 2016, Fall 2017, Spring 2019, Spring 2020
2. CHEM 2080 (Organic Chemistry II) (~175 per offering) – Spring 2007, Spring 2008, Spring 2009, Spring 2011, Spring 2013, Spring 2014, Spring 2016
3. CHEM 2087 (Honors Organic Chemistry II) – Spring 2016, Spring 2017
4. CHEM 4950 (Undergraduate Seminar) – Spring 2013, Fall 2013, Spring 2014, Fall 2019
5. CHEM 7200 (Advanced Organic Chemistry I – Physical Organic Chemistry) - Fall 2007, Fall 2009, Fall 2012, Fall 2015, Fall 2019
6. CHEM 7270 (Supramolecular Chemistry) – Spring 2018
7. CHEM 7750 (Formal Presentation in Modern Chemistry) – Fall 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2016, Spring 2017, Fall 2019

POSTGRADUATE-SCHOLARS SPONSORED:

Mohan Singh Bharara	Ph.D. University of Kentucky, postdoc	8/06-8/08
Abid Hussain Bandy	Ph.D. Islamia College of Science/ Commerce	1/20-10/20
~ Fullbright-Nehru fellowship 2019-2020		

GRADUATE STUDENTS ADVISED: 17 total – 8 Ph.D.s and 1 Masters awarded

1. Mathew Ariwoola 2021
2. Adineh Rezaei Bazkiaei 2021 – present;
3. Clayton Black, Ph.D. 2020 - *Mallone-Zallen Graduate Research Award 2019, Livant Outstanding Graduate Student Award 2019*
4. Michael Devore II, M.S. 2011, Ph.D. 2014;
5. John Ducilon 2019 – present;
6. Dylan Gardner 2020 – present;
7. Mariano Guagliardo 2019 – present;
8. Emily Hardy, Ph.D. 2018; *Auburn University Outstanding Graduate Student 2018, Local Section American Chemical Society Outstanding Outreach 2018*
9. Ethan Hiti, Ph.D. 2021
10. William Matthew Hollingsworth, 2018 – 2020
11. Yuancheng Li, Ph.D 2012;
12. Branson Maynard, Ph.D. 2014; *COSAM Dean's Graduate Research Award 2014, Auburn University Outstanding Graduate Student 2014*
13. Charmaine Tutson, Ph.D. 2017; *Presidents Graduate Opportunities Fellow, Black Girls Rock 2017: Rock Star Student Award 2017*
14. Nicholas Klann, 2011 – 2018;
15. Julie Niklas, Ph.D. 2020; *COSAM Dean's Graduate Research Award 2020, Mallone-Zallen Graduate Research Award 2018*
16. Chasity Ward, 2012 – 2014;
17. Kushan Weerasiri, Ph. D. 2014;
18. Dhanushi Welideniya (with E. Duin) 2008 - 2012;
19. Maya West, Ph.D May 2019;
Presidents Graduate Opportunities Fellow 2016
Local Section American Chemical Society Outstanding Outreach Award 2019

20. Xianghong Wu, Ph.D May 2008;
COSAM Dean's Graduate Research Award 2009

UNDERGRADUATE STUDENTS SUPERVISED (48 TOTAL):

1. Rhea Karkera (Summer 2021 – present)
 2. Tessa Hoang (Summer 2021 – present)
 3. Justin Williamson (Summer 2021 – present)
 4. Reese Hitch (Summer 2021 – present)
 5. Avery Stilley (Spring 2021 – present)
 6. Grant Wilkinson (CHEM/PHYS)(Spring 18 – Summer 2021) *2021 Auburn University College of Sciences and Mathematics Graduation Marshall*
 7. Florian Resnik (DAAD sponsored REU student)(Fall 19)
 8. Madeleine Forbes (CHEM)(Spring 18 – Summer 20) *2019 Haggard Undergraduate Research Award*
 9. Katherine Hunter (BCHM)(Fall 17 - Spring 2020) *Honors Thesis; *2018 University Undergraduate Research Fellowship; 2019 Chemistry Outstanding Junior; 2020 COSAM Dean's Medal – Chemistry and Biochemistry;*
 10. J. P. Grundhoefer (BCHM)(Summer 17 – Spring 2020) *2019 University Undergraduate Research Fellowship;*
 11. Aidan Wood (CHMA)(Summer 17)
 12. Katherine "Kate" Valentine (BMSC)(Fall 16 – Spring 18)
 13. William "Ryan" Yates (CHEN) (Summer 16 – Spring 18) *2017 University Undergraduate Research Fellowship*
 14. Jacob Mayhugh (BCHM) (Summer 16 – Summer 19) *2017 Rosalie Hajek Undergraduate Summer Fellowship, 2018 University Undergraduate Research Fellowship*
 15. Will McDonough(BCHM) (Summer 16 – Spring 17) *2017 Chemistry Outstanding Junior*
 16. Rebecca Keller (CHMA) (Summer 16 – Spring 17)
 17. Kevin Wyss (CHEM) (Spring 16 present) *2017 University Undergraduate Research Fellowship; 2019 Auburn University Presidential Medal; 2019 NSF Graduate Research Fellowship*
 18. Sarah Payne (BMSC) (Summer 15)
 19. William A. Scott (MCCM) (Fall 14 – Spring 16) *Honors Thesis "Sulfonated 2-Quinoxalinol Ligands for Aqueous Extraction of Uranium and other Metals"
 20. Lindy "Chase" Elrod (CHEM) (Summer 14 – Spring 16)
 21. Madeline Eddy (CHEM) (Summer 14 – Spring 17) *2015 University Undergraduate Research Fellowship*
 22. Ricardo Spencer (BMSC)(Spring 14- Fall 14)
 23. Joseph Nelson (CHMA)(Fall 13 –Fall 15) *2014 Cellular and Molecular Biology Fellowship*
 24. Thomas Moreland (CHEM) (Fall 13 – Spring 15)
 25. Gregory Kohler (Summer 13) NSF-REU sponsored from Reed College
 26. Chelsea Crooks (MCMB) (Summer 13 – Summer 14) Honors Thesis "Toward the Synthesis of a Small Molecule Analog Mimicking the Active Site of Coenzyme F430"
 27. Zachary Hegetschweiler (CHMA) (Summer 13)
 28. Mary O'Barr (BMSC) (Spring 13 –Spring 14)
 29. Tricia Hoffman (Summer 12) NSF-REU sponsored from Edinboro University
 30. Spencer Kerns (CHMA/SPAN) (Summer 12 – Spring 14) *Chemistry Outstanding Junior 2013; 2014 COSAM Dean's Medal – Chemistry and Biochemistry; NCAA Postgraduate Scholar, SEC Academic Honor Roll*
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31. Kelly Sabrina Lynn (BCHM) (Summer 11-Spring 13) *Chemistry Outstanding Junior 2012; AU 2012 Undergraduate Research Fellowship*; Honors Thesis "Unique Properties of U(VI) Demonstrated in Metal Mediated Synthesis of 2,3-Diaminophenazine"
 32. Emily Buss (CHEM) (Summer 11 -Spring 13) *AU 2012 Undergraduate Research Fellowship*
 33. Andrew Robinson (BMSC) (Summer 11)
 34. Kathryn Lasowskii (Summer 11)NSF-REU sponsored from U. Incarnate Word
 35. Audrey Gamble (CHMA) (Fall 10 - Spring 11)
 36. Logan McKenney (CHMA) (Summer 10- Spring 11)
 37. Meha Jha (CHME) (Summer 10)
 38. Eleanor Isbell (BMSC) (Mathews) (Fall 09-Spring 10)
 39. Jon Matthew "Matt" McDonald (BMSC) (Summer 09- Spring 10)
 40. Kathryn "Katie" Heflin (BCHM) (Fall 07-Summer 09) *2008 COSAM Undergraduate Research Fellowship; 2008 Research Internship in Science and Engineering - German Academic Exchange Service (DAAD), Finalist for 2008 McKnight Fellowship in Chemistry; 2009 Outstanding Junior in Chemistry and Biochemistry*
 41. Brandon Tate (CHEM) (Summer 07-Spring 10) *2008 COSAM Undergraduate Research Fellowship,*
 42. Jordan Hamilton (CHME) (Summer 08-Fall 08)
 43. Hannah Hubbard(BMSC) (Waters) (Spring 08-Fall 08)
 44. Kara Strawbridge (Reynolds) (Fall 06-Spring 2008)
 45. Stephen Tonks (BMSC) (Summer 07-Summer08) *2008 COSAM Dean's Medal - Biomedical*
 46. Demetrius Stanton (BMSC)(Summer 07) *2007 Summer Research EPSCoR student*
 47. Jonah Vilseck (CHEM) (Summer 06-Spring 07) *2006 Undergraduate Research Fellowship; 2010 COSAM Dean's Medal – Chemistry and Biochemistry*
 48. Timothy McCord (CHEM) (Summer 06-Summer 07) (with J, Gorden) *2006 Undergraduate Research Fellowship*
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PROFESSIONAL ASSOCIATIONS & ACTIVITIES:

- Member, Association of Women in Science, 2005- present
 - Auburn University Chapter Faculty Advisor, 2005- 2020.
- Member, American Chemical Society, 1994 – present
 - Southeast Regional American Chemical Society Meeting, Program Co-Chair 2019 – present (for SERMACS 2021 – Birmingham, AL)
 - National Women Chemist's Committee Associate member 2016 -2020, member 2021 - present
 - Auburn Local Section Board, 2012 – 2020.
 - Auburn Local Section Chair-elect 2017, Chair 2018
- Member, National Academy of Inventors, 2014 – present.
- Delta Gamma Fraternity 1993-present
 - Adviser: Scholarship, Texas Tech University 2021 - present
 - Auburn University Chapter Adviser 2006-2015.
 - Delta Gamma Foundation Faculty Award Committee 2012, 2014, 2016, 2018, 2020
 - Adviser: Member Education/Rituals, Univ. of California, Berkeley, 2002 - 2005.
 - Adviser: Member Education, (Southwest) Texas State University, 1999 - 2002.
- Member, Iota Sigma Pi, 1998-present
 - National Council Secretary, 2005 – 2008.

SELECT PEER-REVIEW (of a total of ~50): Chemical Communications • Chemistry: A European Journal • Dalton Transactions • Inorganic Chemistry • Journal of the American Chemical Society • Journal of Combinatorial Chemistry • Journal of Organic Chemistry • Organic and Biomolecular Chemistry • Polyhedron • Separation Science and Technology • Tetrahedron

SERVICE TO TEXAS TECH UNIVERSITY:

- Mentor Tech - Fall 2021 - present
- STEM Center for Outreach, Research & Education (STEM CORE), Committee Member, - Fall 2021 - present
- TTU Undergraduate research conference presentations March 15, 2021 - March 28, 2021

SERVICE TO THE TEXAS TECH DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY:

- Diversity, Equity, Inclusion, and Social Justice – Fall 2020 – present
- Tenure and Promotion Committee – Elka Georgieva, Committee Member, appointed – Jan. 2021 - present
- Merit and Productivity Committee – Fall 2020 - present
- Faculty Awards Committee – Fall 2020 - present
- Faculty Search Committee – Organic Fall 2020 – Spring 2021

SERVICE TO AUBURN UNIVERSITY:

- University Radiation Safety Committee, *Fall 2011 – Fall 2020*
- Committee for Provost's Award on Mentoring and Faculty Scholarship *2017*
- Scalable Energy Science And Technology – Cluster Hire Committee *2015–2017*
- Pathways to Full Professor and Beyond Initiative – Mentor Assistant Professors *2017*
- Mentoring: Tenure Packages: 2015 Hood, 2015 Wada, 2017 Burns, 2018 Zohdy, 2019 Shepherd
- University Strategic Planning Steering Committee *2012 – 2013*
- Biggio Center - New Faculty Scholars Mentor *2011-2012, 2018 – 2019*
- University Research Fellowships Selection Committee *2009, 2010, 2012*
- Office of the Vice President of Research – Research Task Force *Fall 2008 -Fall 2010*
- This is Research! Undergraduate Poster Session judge – *April 2015, March 2018*
- AU Graduate Scholars Forum Judge *3/4/14; 2/27/13*

SERVICE TO THE AUBURN UNIVERSITY COLLEGE OF SCIENCES AND MATHEMATICS:

- Undergraduate Research Fellowships COSAM Committee *March 2018, March 2019*
- Faculty Dean's Research Awards Committee *March 2018*
- Student Dean's Research Awards Committee *March 2018*
- ACLC New Building Programming Committee *2017*
- *Scholarship Incentive Program (SIP)* of the Faculty Research Committee *3/29/17*
- AU COSAM Society for Women in Science and Mathematics Luncheon & Career Corner, *5/4/17, 5/13/18*
- COSAM Dean Search Committee, *Spring 2013*
- COSAM Leaders Selection Committee *4/1-4/3/14, 3/28/13*
- *Talons – undergraduate recruiting*, Faculty Representative for Chemistry, *2/17/18, 2/23/15, 2/13/15, 1/23/15, 2/1/13, 1/18/13, 2/20/12, 2/3/12, 1/27/12, 1/20/12, 2/11/11, 2/8/10, 2/4/11, 1/14/11, 2/4/10, 1/29/10, 1/25/10, 2/6/09, 11/12/07, 2/26/07, 2/19/07, 2/12/07, 2/05/07.*
- Hosted Special Lecture (*with AWIS*) - *Jorge Cham, author of Ph.D. Comics 4/6/11*

SERVICE TO THE AUBURN DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY:

- Faculty Search Committee – Organometallics Fall 2019 – present
- Graduate Admissions Committee, Fall 2013 – Fall 2014, Fall 2018 – present
- Faculty Awards Committee, Fall 2019 - present
- Undergraduate Awards Committee, Fall 2018 – Fall 2019
- Faculty Workload/Rewards Project Committee (U. Maryland Project), Fall 2018 – Fall 2019
- Graduate Curriculum Committee, Fall 2011 – Fall 2018
- Associate Chair, Fall 2014 – Fall 2018
- Undergraduate Advising Committee (Chair 2016-2018), Fall 2009 – Fall 2018
- Faculty Search Committee – Synthesis (Chair) Fall 2015 – Spring 2016
- Faculty Search Committee – Scalable Energy (Chair) Fall 2015 – Spring 2016
- Department Space Committee, Fall 2009 – Fall 2013
- Organic Chemistry Faculty Search Committee (Chair), Fall 2012-Fall 2013
- Physical Chemistry Faculty Search Committee, Fall 2009 – Fall 2010
- Mass Spectrometry Committee, Fall 2006 – Fall 2009
- Graduate Recruiting Committee, Fall 2005- Fall 2009
- Auburn Chemistry Invitational Committee 11/6/07, 2/25/08, 10/17/08, 1/27/09
- Graduate School Recruiting Breakfasts (3/26-3/27/06), Atlanta ACS Meeting
- Inorganic Division, Fall 2005 – present
- Organic Division, Fall 2005 – present, Division Chair Fall 2014-Spring 2017

SELECTED PROFESSIONAL SERVICE:

- **Panelist, National Institutes of Health** – R01/R15 SBCA Synthetic and Biological Chemistry A Study Section – SBCA; On-site Bethesda, MD (10/03/19-10/04/19); On-site Bethesda, MD (06/10/13-6/12/13)
- **Panelist, National Institutes of Health** – F30, F31, F32 R. L. Kirschstein Postdoctoral Individual National Research Service Awards; On-site Bethesda, MD (7/27-7/28/17); On-site Bethesda, MD (11/1-11/3/17); Online (7/18/18), (7/1-7/2/19)
- **Panelist, National Science Foundation** – Inorganic Chemistry *online* (Feb 2020)
- **Ad Hoc Reviewer, U.S. Department of Energy** – Basic Energy Sciences, Nuclear Energy (NE) Consolidated Innovative Nuclear Research, and DOE- CAREER grants 2016 – present
- **Ad Hoc Reviewer, National Science Foundation** - CAREER - 2016 – present
- **Ad Hoc Reviewer, Department of Energy-Nuclear Energy University Programs (NEUP):** 2012- present
- **Ad Hoc Reviewer, National Science Foundation** 2008 - present
- **Ad Hoc Reviewer, U.S. Department of Energy-EPSCOR:** 2008 – present

OUTREACH:

- Boy Scouts of America – October 2021
- Auburn COSAM Summer Science Institute - *Spring 2011 - 2020*
- Leading Auburn in Developing Interest in Experimental Science (LADIES), Faculty Advisor and Educational Programming Consultant, *2006 – 2020*
- AU Explore, Presenter for Chemistry – Pyromania! 4/29/16, 5/1/15, 5/2/14, 4/30/13, 4/30/09, 4/27/07
- Career Day – Cary Woods Elementary 150 students impacted 3/29/18
- Meeting with AP Chemistry Teachers 7/18/17
- Seniors and Seniors luncheon – Sponsored by \$400 minigrant from SCC 10/20/17

- States of Matter and liquid nitrogen ice cream – Cary Woods Elementary 21 students Mrs. Handley's class. 5/12/17
- Why Undergraduate Research? Brandon Tate and Jonah Vilseck talks with YCC, ALSACS, and DCB 2/28/17
- Career Day by FaceTime with LV Stockard Middle School Mesquite, TX – @30 students 2/20/17, 2/23/18
- Auburn COSAM Science Café “Radiation, Energy, and U: A not-so glowing record 10/25/16 (co-sponsored by American Chemical Society minigrant \$2500)
- Faculty Adviser: Auburn University LaCrosse Hostesses *Fall 2013 – Fall 2015*
- Alpha Phi Omega Merit Badge University, Instructor – Nuclear Science, *Mar. 6, 2008*
- YES! Camp, presenter, 7/11/08
- Getting Under the Surface, (GUTS) Volunteer, Auburn University, *Nov. 17, 2007.*
- Science Olympiad, Auburn University, *Feb. 2006, Feb. 2007*
- Leadership Institute for Females Exceptional in Science (LIFE), presenter, *July 17, 2006.*

GRANTS AND CONTRACTS:

Extramural Sources (Funded): (PI underlined)

- **National Science Foundation - (I-DIRSE-FW) Harnessing the Data Revolution (HDR): Institutes for Data-Intensive Research in Science and Engineering - Frameworks** Clark, Aurora (Washington State)(PI); Adams, Henry (Colorado State) (Co-PI); (Co-PI);Pflaum, Markus (U. Colorado)(Co-PI); Zhang, Yang(U. Illinois – Urbana/Champaign (Co-PI); **Gorden, Anne E. V.**; Coridan, Robert (U. Arkansas); Pamidighantam, Sudhakar (U. Indiana); “*DELTA: Descriptors of Energy Landscape by Topological Analysis*” Submitted 05/07/19 requested \$2,109,121 funded \$1,700,000 10/1/2019-9/30/2021
- **Department of Energy – Basic Energy Sciences, Heavy Elements Program.** (DE-SC0019177) **Gorden, A. E. V. (PI)** “Tailoring Redox Active Ligands for Probing the Reactivity of Actinides,” Submitted 12/19/17, funded 9/1/18-8/31/21 **\$419,658**
- **Defense Threat Reduction Agency, (HDTRA1-08-10-BRCWMD-BAA) Gorden, A. E. V. (PI)** “Molecular Recognition and Selective Sequestration for Detection of Uranium, Neptunium, or Plutonium” Topic B: Post-Detonation Radiological and Nuclear Forensics, Preproposal submitted 10/28/09, (requested \$462,696), Full proposal submitted 2/23/10, 6/2/10 - listed as “subject to availability of funds” (SAF) for 2010-2011 fiscal year, **Funded 8/1/11-7/31/14, \$486,000**, no cost extension 8/1/14-7/31/15, **Funded renewal year 1/1/15-12/31/15, \$142,750**, no cost extension 1/1/16-3/1/16, **Funded 2nd renewal year added 3/1/16-2/28/17, \$132, 572**, no cost extension 2/28/17-7/1/17.
- **National Science Foundation - Research Experience for Undergraduates** Byrne, M.E. (PI); Duke, S. (Co-PI); Faculty Mentors: Adanur, S.; Auad, M.; **Gorden, A.**; Davis, E.; Davis, V.A.; Fasina, O.; Gupta, R.; Hong, J.W.; Lipke, E.; Prorok, B.; Ravis, W.; Roberts. C. “NSF REU Site for Micro/Nano-Structured Materials, Therapeutics, and Devices,” **Funded 03/01/10 - 02/29/13, (requested \$357,191)**
- **National Science Foundation, Bioinorganic Chemistry (CHE-0848196) Duin, E. (PI), Gorden, A. E. V.** “New catalytic functions for [4Fe-4S] clusters” Submitted 7/31/08, Requested ~\$600, 000 **Funded 2/1/09-5/1/11, \$485,000** no cost extension 5/1/11- 1/31/13

- **Department of Energy** – Nuclear Energy (UT-B-4000076336) Fuel Cycle Research and Development Program, Office of Nuclear Energy, Delmau, L. H. (PI)(Oak Ridge National Laboratory, ORNL); Hay, B.P. (ORNL)(Co-PI), Moyer, B.A. (ORNL), **Gorden, A. E. V. (Co-PI)** (Auburn University, AU) “Preorganization and Rigidity: New Ligands for Trivalent Actinides/Lanthanides Separation” preproposal submitted to Department of Energy - Single Investigator and Small-Group Research in Basic Energy Sciences 8/23/08, *Funded 12/1/08-10/15/09 \$475,000; Funded Renewal 11/1/09-10/15/10 \$275,000*; no cost extension 10/15/10 – 6/1/11;
- **Hatch Multistate Grant Proposal / Alabama Biodiesel Corporation** Rodriguez-Kabana, R. [Entomology & Plant Pathology](PI); Taylor, C. R. [Agricultural Economics](Co-PI); Foshee, W. G. [Extension Horticulture]; **Gorden, A. E. V.**, Walker, R. H. [Agronomy & Soils]; “Biodiesel and byproducts of the biodiesel industry for control of soilborne pests and improved soil health” (requested \$208,093) – *submitted 6/29/08; Funded \$240,000, 11/1/08-11/1/10*
- **Metbro Partnership** Gorden, A. E. V. (PI); Rodriguez-Kabana, R. [Entomology & Plant Pathology] “Stabilization of Hydrogen Cyanamide for Agricultural Uses” *submitted 3/9/06; Funded \$60,000 5/06-5/07, Funded Renewal \$30,000 5/07-5/08*
- **Oak Ridge Associated Universities-** Ralph E Powe Junior Faculty Enhancement Award **Gorden, A. E. V. (PI)** Toward Cleaner Energy Production from Nuclear Sources: Protecting Ourselves and Our Environment from Actinides with Metal Selective Sensors and Sensing Materials, *Funded 04/07-04/08 \$5000*
- **COACH Travel Grant** Gorden, A. E. V. (PI) - to attend workshop and American Chemical Society Meeting “Coaching Strong Women in the Art of Strategic Persuasion” for the ACS 231st meeting Atlanta, GA March 24-29th, 2006. *Funded \$850*

Internal Sources (Funded): (PI is underlined)

- **Gorden, A. E. V. (PI)**; Davis, V. (Co-PI); Goldsmith, C.; Mills, G.; “Ultraviolet-visible /Fluorescence Microspectrophotometer,” Auburn University Internal Grants Program,” *Funded \$160,000 (6/1/12 - 6/1/13)*
- **Auburn University Biogrant Program** (Externally Reviewed) Fadamiro, H.Y. [Entomology], **Gorden, A. E. V. (Co-PI)**; “Isolation, Identification and Biological Activity of Novel Chemical Compounds Mediating Attraction of Parasitic Phorid Flies to Invasive Fire Ants” - (requested \$49,840) – *submitted 9/25/07, full proposal submitted 2/15/08, Funded \$20,000 9/1/08-9/1/10*
- **Gorden, A. E. V. (PI)**; Albrecht-Schmitt, Thomas E. (Co-PI/mentor) “Schiff-Base Ligands for Actinide Complexation and Characterization in Solid State Materials”- Auburn University Faculty Mentoring Grant, *Funded \$4000 5/06-5/07*

PATENTS AND INVENTIONS:

1. A. E. V. Gorden, R. Rodriguez-Kabana “Storage Stable Compositions Containing Hydrogen Cyanamide and Propionic Acid”, *US Patent Application #2010/0099565, US Patent awarded Nov. 8, 2011 # US Patent 8052985 B2*
2. R. Rodriguez-Kabana, A. E. V. Gorden “Pesticidal Applications of Dimethyl Cyanamide”, *U.S. Patent Application #2009/0275474*

3. R. Rodriguez-Kabana, A. E. V. Gorden "Solid Formulations of Hydrogen Cyanamide for Agricultural Applications", *U.S. Patent Applications #2009/008746, #2010/004131 US Patent awarded June 12, 2012 # US Patent 8052985*
4. A. E. V. Gorden, X.-H. Wu "2-Quinoxalinol Salen Compounds and Uses Thereof" *U.S. Patent Application #2009/0286968 Filed Nov. 19, 2011 - US Patent awarded May 21, 2013 # US Patent #8445678*

PUBLICATIONS WHILE AT TEXAS TECH UNIVERSITY

(10/25/2021~h-index= 19, i-10-index=31) Of >60 scientific peer-reviewed journal articles in print (graduate students underlined, undergraduate students in italics)

42. Niklas, J.E.; Hiti, E. A.; *Wilkinson, G. R.*; *Mayhugh, J. T.*; Gorden, J. D.; Gorden, A. E. V. "Steric control of mesocate and helicate formation: Bulky pyrrol-2-yl Schiff base complexes of Zn²⁺," *Inorganica Chimica Acta*, 2022, 529, *in press*. (<https://doi.org/10.1016/j.ica.2021.120653>)

41. Hiti, E. A.; *Wilkinson, G. R.*; Ariyaratna, I.R.; Tutson, C. D.; Hardy, E.E.; Maynard, B.A.; Miliordos, E.; Gorden, A. E. V. "Comparing Coordination Uranyl (VI) Complexes with 2-(1H-imidazo[4,5-b]phenazin-2-yl)phenol and Derivatives," *Dalton Transactions*, 2021, 50, 11113-11122. (<https://doi.org/10.1039/D1DT02359D>)

40. Le, H. M.; Guagliardo, M.; Gorden, A. E. V.; Clark, A.; "Ensemble Effects on Allylic Oxidation within Explicit Solvation Environments," *Dalton Transactions*, **2021**, 50, 9259-9268. (<https://doi.org/10.1039/D1DT00785H>)

39. Monteiro, J. S. K; Hiti, Ethan A.; Hardy, E. E.; *Wilkinson, G. R.*; Gorden, J.D.; Gorden, A.E. V; de Bettencourt-Dias, A. "New up-conversion luminescence in molecular cyano substituted naphthylsalophen lanthanide(iii) complexes" *Chemical Communications* **2021**, Advance Article. (<https://doi.org/10.1039/D0CC08128K>)

PUBLICATIONS WHILE AT AUBURN UNIVERSITY

38. *Mayhugh, J. T.*; Niklas, J.E.; *Forbes, M. G.*; Gorden, J.D. ; Gorden, Anne E.V. "Pyrrophenes: Pyrrole-Based Hexadentate Ligands Tailor-Made for Uranyl Coordination and Molecular Recognition," *Inorganic Chemistry* **2020**, 59, 14, 9560–9568. (<https://doi.org/10.1021/acs.inorgchem.0c00439>)

37. Niklas, J.E.; *Hunter, K. M.*; **Gorden, Anne E.V.** "Bonding Interactions in Uranyl α -Diimine Complexes: A Spectroscopic and Electrochemical Study of the Impacts of Ligand Electronics and Extended Conjugation" *Inorganic Chemistry* **2019**, 58, 22, 15088-15100. (<https://doi.org/10.1021/acs.inorgchem.9b01695>)

36. Black, C. C.; **Gorden, Anne E.V.** "Oxidative Mannich Reactions of Tertiary Amines Using a Cu(II) 2-Quinoxalinol Salen Catalyst," *Journal of Organic Chemistry* **2019**, **84**, (15) 9806-9810. (DOI: [10.1021/acs.joc.9b01409](https://doi.org/10.1021/acs.joc.9b01409))

35. Wyss, K. M.; Hardy, E. E.; **Gorden, Anne E.V.** "An example of enhanced emission of a pyridine containing Schiff base Zn²⁺ complex," *Inorganica Chimica Acta* **2019**, 492, 156-160. (DOI: [10.1016/j.ica.2019.04.032](https://doi.org/10.1016/j.ica.2019.04.032)).

34. Grundhoefer, J.P.; Hardy, E. E.; West, M.; Curtiss, A.B.; **Gorden, A. E. V.**; "Mononuclear Cu(II) and Ni(II) Complexes of Bis(naphthalen-2-ol) Schiff Base Ligands," *Inorganica Chimica Acta* **2019**, 125-132. (DOI: /10.1016/j.ica.2018.09.043)
33. Niklas, J. E.; Hardy, E. E.; **Gorden, Anne E.V.** "Solid-state structural elucidation and electrochemical analysis of uranyl naphthylsalophen" *Chemical Communications* **2018**, **2018**, **54**, 11693-11696. (DOI:10.1039/C8CC05242E) *Selected for a **Back Cover Feature**
32. Black, C. C.; **Gorden, Anne E.V.** "Propargylic C-H activation using a Cu(II) 2-quinoxalinol salen catalyst and tert-butyl hydroperoxide," *Tetrahedron Letters* **2018**, 803-806. (DOI:10.1016/j.tetlet.2018.01.030)
31. Hardy, E. E.; Wyss, K.M.; Keller, R.J.; Gorden, John D.; **Gorden, Anne E.V.** "Tunable Emission of Naphthylsalophen Triple-Decker Dinuclear Lanthanide (III) Sandwich Complexes," *Dalton Transactions* **2018**, 1337 – 1346. (DOI:10.1039/C7DT03733C)
30. Hardy, E. E.; Wyss, K.M.; Gorden, John D.; Ariyaratna, Isuru R.; Miliordos, Evangelos; **Gorden, Anne E.V.** "Th(IV) and Ce(IV) Naphthylsalophen Sandwich Complexes: Characterization of Unusual Thorium Fluorescence in Solution and Solid-state" *Chemical Communications* **2017** **2017** **53**, 11984-11987. (DOI: 10.1039/C7CC06868A) *Selected for a **Front Cover Feature**
29. Niklas, J. E.; Farnum, B.H.; Gorden, J.D.; **Gorden, Anne E.V.** "Structural Characterization and Redox Activity of a Uranyl Dimer and Transition Metal Complexes of a Tetradentate BIAN Ligand," *Organometallics* **2017**, 4626–4634. (DOI: 10.1021/acs.organomet.7b00454)
28. Hardy, E. E.; Eddy, M.A.; Wyss, K.M.; **Gorden, Anne E.V.** "An example of unusual pyridine donor Schiff base uranyl (UO₂²⁺) complexes," *Chemical Communications*, **2017**, **53**, 5718-5720. (DOI: 10.1039/c7cc02747h)
27. Tutson, C.D.; **Gorden, Anne. E. V.** "Thorium coordination: A comprehensive review based on coordination number," *Coordination Chemistry Reviews*, **2017**, 27-43 (DOI: 10.1016/j.ccr.2016.11.006)
26. **Gorden, A. E. V.**; McKee, M.; "Computational Study of Reduction Potentials of Th⁴⁺ Compounds and Hydrolysis of ThO₂(H₂O)_n, n=1,2,4" *Journal of Physical Chemistry: Part A*, **2016**, **120** (41), 8169–8183. (DOI: 10.1021/acs.jpca.6b08472)
25. Hardy, E. E.; Eddy, M.A.; Maynard, B.A.; **Gorden, Anne E.V.** "Solid State π–π Stacking and Higher Order Dimensional Crystal Packing, Reactivity, and Electrochemical Behaviour of Salphenazine Actinide and Transition Metal Complexes," *Dalton Transactions*, **2016**, **45**, 14243-14251. (DOI: 10.1039/C6DT02389D)
24. Maynard, B.A.; Tutson, C. D.; Lynn, K.S.; Pugh, C. W.; **Gorden, Anne E.V.** "Actinide (Th⁴⁺ and UO₂²⁺) assisted oxidative coupling of orthophenylenediamine in the presence of oxygen," *Tetrahedron Letters*, **2016**, (57) 472–475. (DOI:10.1016/j.tetlet.2015.12.0580040-4039)
23. DeVore, M. A., II; Kerns, S. A.; **Gorden, Anne E.V.** "Quinoxalinol Salen Ligands for Photometric Recognition of Uranyl (UO₂)²⁺ Ions," *European Journal of Inorganic Chemistry*, **2015**, 5708-5714. (DOI:10.1002/ejic.201501033)

22. Maynard, B.A.; Brooks, J. C.; Hardy, E. E.; Easley, C. J.; **Gorden, Anne E.V.** "Synthesis, single crystal X-ray structural elucidation, electronic spectroscopy, and microfluidic detection of Cu⁺² and UO₂⁺² [di-tert-butyl-salphenazine complexes]" *Dalton Trans.* **2015**, *44*, 4428 – 4430. (DOI: [10.1039/C5DT00106D](https://doi.org/10.1039/C5DT00106D))
21. Weerasiri, K.; **Gorden, A. E. V.** "Cu(II) 2-Quinoxalinol Salen Catalyzed Oxidation of Propargylic, Benzylic, and Allylic alcohols using tert-Butyl Hydroperoxide in Aqueous Solutions" *Tetrahedron* **2014** *70* (43), 7962–7968.. (DOI: [10.1016/j.tet.2014.08.050](https://doi.org/10.1016/j.tet.2014.08.050))
20. Li, Y.; Lee, T. B.; Weerasiri, K.C.; Wang, T.; Buss, E.E.; McKee, M.L.; **Gorden, A. E. V.** "2-Quinoxalinol Diamine Cu(II) Complex: Facilitating Catalytic Oxidation Through Dual Mechanisms" *Dalton Transactions* **2014** (43) 13578 – 13583. (DOI:[10.1039/C4DT01562B](https://doi.org/10.1039/C4DT01562B))
19. Maynard, B.A.; Lynn, K.A.; Sykora, R. E.; **Gorden, A. E. V.** "Emission, Raman Spectroscopy, and Structural Characterization of Actinide Tetracyanomethylates" *Inorganic Chemistry* **2013** *52* (9), 4880-4889. (DOI: [10.1021/ic302459z](https://doi.org/10.1021/ic302459z))
18. Weerasiri, K.C.; **Gorden, A. E. V.** "Oxidation of Propargylic Alcohols using a 2-Quinoxalinol Salen Copper (II) Complex and tert-Butyl Hydroperoxide " *European Journal of Organic Chemistry* **2013** (8) 1546–1550. (DOI: [10.1002/ejoc.201201394](https://doi.org/10.1002/ejoc.201201394))
17. **Gorden, A.E. V.**; DeVore, M. A., II; Maynard, B.A.; " Coordination Chemistry with f-Element Complexes for An Improved Understanding of Factors that Contribute to Extraction Selectivity," *Inorganic Chemistry* **2013** *52* (7), 3445–3458. (DOI :[10.1021/ic300887](https://doi.org/10.1021/ic300887)).
16. DeVore, M. A., II; **Gorden, A.E. V.** "Copper and Uranyl Extraction from Aqueous Solution Using Bis-dithiophosphinite Ligands" *Polyhedron* **2012**, *42* (1), 271 - 275. (DOI:[10.1016/j.poly.2012.05.026](https://doi.org/10.1016/j.poly.2012.05.026))
15. Li, Yuancheng; Lee, Tae Bum; Wang, Tanyu, Gamble, Audrey, V.; **Gorden, Anne, E. V.**; "Allylic C-H Activations using Cu(II) 2-Quinoxalinol Salen and tert-Butyl Hydroperoxide" *Journal of Organic Chemistry* **2012**, *77* (10), 4628–4633. (DOI: [10.1021/jo300372q](https://doi.org/10.1021/jo300372q))
14. Maynard, B. A.; Sykora, R. A.; Mague, J. T.; **Gorden, A. E. V.** "Actinide Tetracyanoplatinates: Synthesis and Structural Characterization With Uncharacteristic Th-NC Coordination and Thorium Fluorescence" *Chemical Communications* **2010**, *46*, 4944 – 4946. (DOI: [10.1039/c0cc00343c](https://doi.org/10.1039/c0cc00343c))
13. Bharara, M. S.; **Gorden, A. E. V.**; "Unusual Topology of Amine Templated Three- and Two-Dimensional Uranyl Sulfate Compounds" *Dalton Transactions* **2010** (15), 3557-3559. (DOI: [10.1039/b926973h](https://doi.org/10.1039/b926973h))
12. Li, Y., Wu, X., Lee, T.-B.; Isbell, E. K.; Parish, E. J.; **Gorden, A. E. V.**, "An effective method for allylic oxidation of Δ⁵-steroids using γ -tert-butyl hydroperoxide," *Journal of Organic Chemistry* **2010**, *75*, (5), 1807–1810. (DOI: [10.1021/jo902637k](https://doi.org/10.1021/jo902637k))
11. Wu, X., Hubbard, H. K.; Tate, B. K.; **Gorden, A. E. V.** "One-Pot Metal Templated Synthesis for the Preparation of 2-Quinoxalinol Salen Metal Complexes," *Polyhedron* **2009**, *28*, (2), 360 – 362. (DOI: [10.1016/j.poly.2008.10.050](https://doi.org/10.1016/j.poly.2008.10.050))

10. Wu, X.; Gorden, A. E. V.; "2-Quinoxalinal Salen Copper Complexes in Oxidation of Aryl Methylenes" *European Journal of Organic Chemistry* **2009**, (4), 503 – 509. (DOI: 10.1002/ejoc.200800928)

9. Wu, X.; Bharara, M. S.; Bray, T. H.; Tate, B.K.; Gorden, A. E. V.; "Synthesis and Characterization of 2-Quinoxalinal Schiff-Base Metal Complexes" *Inorganica Chimica Acta* **2009**, 362, 1847-1864. (DOI: 10.1016/j.ica.2008.08.037)

8. Wu, X.; Gorden, A. E. V.; "2-Quinoxalinal Salen Ligands Incorporated into Functionalized Resins for Selective Solid-Phase Extraction of Copper (II)" *Tetrahedron Letters* **2008**, 49, (30), 5200-5203. (DOI: 10.1016/j.tetlet.2008.06.041)

7. Wu, X.; Bharara, M. S.; Tate, B.K.; Tonks, S.A.; Vilseck, J. Z.; Gorden, A. E. V. "Actinide Coordination Ligands for Use in Sensors and Sensing Materials" *Materials Research Society Symposium Proceedings: Actinides 2008 - Basic Science, Applications, and Technology (Symposium NN)* **2008** (1104).

6. Bharara, M. S.; Heflin, K.L.; Tonks, S.A.; Strawbridge, K.; Gorden, A. E. V. "Hydroxy- and alkoxy-bridged dinuclear uranyl-Schiff base complexes: Hydrolysis, transamination and extraction studies," *Dalton Transactions.*, **2008**, 10, 2966 – 2973. (DOI: 10.1039/b800469b)

5. Szigethy, G.; Xu, J.; Gorden, A. E. V.; Teat, S.J.; Shuh, D. K.; Raymond, K. N.; "Surprising Coordination Geometry Differences in Ce(IV)- and Pu(IV)-Maltol Complexes," *European Journal of Inorganic Chemistry*, **2008**, 2143 – 2147 (DOI: 10.1002/ejic.200800144) 50% while at AU

4. Bharara, M. S.; Tonks, S.A.; Gorden, A. E. V.; "Uranyl Stabilized Schiff Base Complex" *Chemical Communications* **2007**, 4006 – 4008. ~ Featured in Corcoran, S. "Basic extraction of uranium," *Chemical Science*, **2007**, (October 25, 2007). (DOI: 10.1039/b712322a)

3. Wu, X.; Gorden, A. E. V.; Tonks, S. A.; Vilseck, J. Z.; "Regioselective Synthesis of Asymmetrically Substituted 2-Quinoxalinal Salen Ligands," *Journal of Organic Chemistry* **2007**, 72, (23) 8691-8699. (DOI: 10.1021/jo701395w)

2. Bharara, M. S.; Strawbridge, K.; Vilsek, J. Z.; Bray, T. H.; Gorden, A. E. V. "Novel Dinuclear Uranyl Complexes with Asymmetric Schiff Base Ligands: Synthesis, Structural Characterization, Reactivity, and Extraction Studies," *Inorganic Chemistry*, **2007**, 46,(20) 8309-8315. (DOI: 10.1021/ic7010315)

1. Wu, X.; Gorden, A. E. V.; "An Efficient Method for Solution-Phase Parallel Synthesis of 2-Quinoxalinal Schiff-Base Ligands" *Journal of Combinatorial Chemistry*, **2007**, 9, (4), 601-608. (DOI: 10.1021/cc070021q)

PUBLICATIONS PRIOR TO APPOINTMENT AT AUBURN UNIVERSITY (* NEÉ A. E. VIVIAN):

1. Gorden, A. E. V.; Shuh, D. K.; Szigethy, G.; Tiedemann, B. E. F.; Xu, J.; Raymond, K. N. "Characterization of a Plutonium Sequestering Agent Complex by Synchrotron X-ray Diffraction" in *Materials Research Society Symposium Proceedings: Actinides 2006 - Basic Science, Applications, and Technology*, edited by Kerri J.M. Blobaum, Elaine A. Chandler, Ladislav Havela, M. Brian Maple, and Mary P. Neu (*Mater. Res. Soc. Symp. Proc.* 986, Warrendale, PA, **2007**), 0986-0008-01. ~ Named one of the Top Five Hot Topics/Cool Papers for the Fall 2006 MRS Conference

2. **Gorden, A. E. V.**; Xu, J.; Szigethy, G.; Oliver, A.; Shuh, D. K.; Raymond, K. N.; "Characterization of Mixed Salt 1-Hydroxy-pyridin-2-one Pu(IV) Complexes," *Journal of the American Chemical Society*, **2007**, 129, (21), 6674-6675.
3. **Gorden, A. E. V.**; Shuh, D. K.; Tiedemann, B. E. F.; Xu, J.; Wilson, R. E.; Raymond, K. N.; "Sequestered Plutonium: Structural Characterization and Complex Formation of Pu(IV) Complexes with Siderophore-like Ligands." *Special Publication - Royal Society of Chemistry (Recent Advances in Actinide Science)*, **2006**, 305, 177-179.
4. **Gorden, A. E. V.**; Shuh, D. K.; Tiedemann, B. E. F.; Wilson, R. E.; Xu, J.; Raymond, K. N.; "Sequestered Plutonium: Pu(IV)[Bis(5-LIO-Me-3,2-HOPO)]₂ – The First Structurally Characterized Plutonium Hydroxypyridonate Complex," *Chemistry: A European Journal* **2005**, (9), 2842 - 2848. ~ *addendum Chemistry: A European Journal* **2007**, 13 (2), 378-378.
5. Sessler, J. L.; Melfi, P. J.; Seidel, D.; **Gorden, A. E. V.**; Ford, D. K.; Palmer, P. D.; Tait, C. D.; "Hexaphyrin(1.0.1.0.0.0): A New Colorimetric Actinide Sensor," *Tetrahedron*, **2004**, (60), 11089-11097.
6. Veeck, A.C.; White, D.J.; Whisenhunt, D.W. Jr., Xu, J.; **Gorden, A.E.V.**; Romanovski, V.; Hoffman, D.C.; Raymond, K.N. "Hydroxypyridinone Extraction Agents for Pu(IV)," *Solvent Extraction and Ion Exchange* **2004**, (22), 6, 1037 – 1068.
7. Xu, J.; **Gorden, A.E.V.**; Raymond, K. N.; "Octadentate Ligands Containing 2,3-Dihydroxybenzamide and 2,3-Dihydroxyterephthalamide Coordinating Subunits on a Tetrapodal Amine Backbone for Chelation of Actinides," *European Journal of Organic Chemistry* **2004**, 3244 – 3253.
8. **Gorden, A.E.V.**; Davis, J.; Sessler, J. L.; Král, V.; Keogh, D. W.; Schroeder, N. L. "Monoprotonated Sapphyrin-Pertechnetate Anion Interactions in Aqueous Media," *Supramolecular Chemistry*, **2004**, (16), 2, 91-100.
9. **Gorden, A.E.V.**; Xu, J.; Raymond, K. N.; Durbin, P. D. "The Rational Design of Sequestering Agents for Plutonium and other Actinide Elements," *Chemical Reviews*, **2003**, (11), 103, 4207 – 4282.
10. **Gorden, A.E.V.**; Raymond, K. N.; Shuh, D.K.; "Description and Procedures for Synchrotron Radiation, Small Molecule, Single Crystal Crystallography of Plutonium Complexes at ALS Beamline 11.3.1 (ALS and College of Chemistry Small Molecule Diffractometer)" LBNL-53125, Lawrence Berkeley National Laboratory – Chemical Sciences Division, **2003**.
11. Sessler, J.L.; **Gorden, A.E.V.**; Seidel, D.; Hannah, S.; Lynch, V.; Gordon, P.L.; Donohoe, R. J.; Tait, C. D.; Keogh, D.W. "Characterization of the Interactions Between Neptunyl and Plutonyl Cations and Expanded Porphyrins," *Inorganica Chimica Acta*, **2002**, 341, 54-70.
12. *Sessler, J. L.; Seidel, D.; **Vivian, A.E.**, Scott, B.L.; Keogh, D.W. "The Expanded Porphyrin Hexaphyrin (1.0.1.0.0.0): a Novel Ligand for the Complexation of Actinide Cations – Uranyl (UO₂²⁺) and Neptunyl (NpO₂²⁺)," *Angewandte Chemie, International Edition English.*, **2001**, 3, 591 – 594. (*Impact Factor 10.88*) ~ *Featured in "Science Concentrates," C. & E. News*, **2001**, (6), 79, 26.

13. *Sessler, J. L.; **Vivian, A. E.**; Seidel, D.; Burrell, A. K.; Mody, T. D.; Hoehner, M.; Gebauer, A.; Lynch, V. "Actinide Expanded Porphyrin Complexes," *Coordination Chemistry Reviews* **2001**, 216–217, 411-434. ~ Erratum *Coord. Chem. Rev.*, **2001**, 222, 275.
14. *Rachelwicz, K.; Latos-Grazynski, L; Gebauer, A.; **Vivian, A.**; Sessler, J.L. "NH tautomerization of 2,7,18,23 – tetramethyl – 3,8,12,13,17,22 – hexaethylsapphyrin," *Journal of the Chemistry Society: Perkin Transactions 2*, **1999**, 11, 2189 – 2195.
15. *Van Westrenen, J.; Sherry, A.D.; Kim, W.D.; **Vivian, A. E.**; Hrcir, D.C. "Synthesis and X-ray structure of three polyazamacrocycles having sulfonate pendant groups: Piperazinyl-monomethanesulfonic acid, sodium hydrogen 1,4,7 – triaza cyclononane-N,N' – di(methanesulfonate) and 1,4,7,10 – tetraazacyclododecane- N," – di(methanesulfonic acid.)" *Journal of Crystallographic Spectroscopy Research* **1993**, 1, 2189 – 2195.