

DR. CARMEN VALDEZ GAUTHIER  
The Jesse Ball DuPont Chair in the Natural Sciences  
**Professor of Chemistry**  
**Department of Chemistry, Biochemistry and Physics**  
Florida Southern College  
111 Lake Hollingsworth Drive  
Lakeland, FL 33801  
Office (863) 680-4320  
Fax (863) 680-3970  
[cgauthier@flsouthern.edu](mailto:cgauthier@flsouthern.edu)

## Education

- HERS 2008-2009 Higher Education Resources Service – Wellesley College, Wellesley, MA  
Higher Education Leadership Institute
- Ph.D. 1989 Chemistry, University of New Hampshire, Durham, NH  
Dissertation: Synthesis and Reactions of Phosphonito Polymetallic Complexes and Halogen Oxidation of Cyclotetraphosphoxane Molybdenum Cage Complexes  
Advisor: Edward H. Wong
- B.Sc. 1983 Chemistry, Pontifical Catholic University of Peru, Lima, Peru

## Employment History

### **Florida Southern College:** Lakeland FL (**August 1999** – present)

- Professor of Chemistry (August 2007 - present)
- Associate Professor (2004 – 2007)
- Assistant Professor (1999 -- 2004)
- Division Chair, Natural Sciences and Mathematics (2007- May 2012)
- Chair, Department of Chemistry and Physics (2001-2003), (June 2012-May 2019)

### **Responsibilities and accomplishments:**

- Responsible for leading the department to attain the ACS Approved program for the Chemistry program (April 2019).
- Developed two academic track in the chemistry major:
  - Environmental Chemistry
  - Forensic Chemistry
- Overseeing, development, and implementation of academic plans within the Natural Sciences and Mathematics Division, coordinating academic plans with the department chairs and providing feedback to faculty on individual faculty plans. (2009-present)
- Evaluating the assessment of all programs in the division: Biology, Chemistry, Computer Sciences, Computer Sciences Mathematics, Citrus and Horticulture Science, and Mathematics. (2007-present)
- Evaluating faculty annual reports, promotion and tenure applications, faculty-student collaborative research, summer stipend and sabbatical proposals, and faculty and staff hiring. (2007- present)
- Making recommendations to the Dean of Arts and Sciences and representing 20 faculty members from the division. (2007-May 2012)
- Supporting faculty and department chairs in course development and curriculum design. (2007-May 2012)
- Evaluating staff performance within the division – 4 staff. (2007- May 2012)

### C. Valdez Gauthier – Curriculum Vitae

- Developing, distributing, and administering the division budget. (2007- May 2012)
- Working with department chairs in developing class schedules for the day program. (2007- May 2012)
- Working with the director of the evening program and deans of other schools in staffing evening courses. (2007- May 2012)
- Responsible for hiring and continued evaluation of adjunct faculty in the division. (2007- May 2012)
- Developed and continue to direct a mentoring program for new faculty. (2009-present)
- Worked in close collaboration with the Dean of Arts and Sciences and Provost in determining staff positions. (2008-present)
- Involved in the hiring of 8 new full-time faculty members in Biology, Chemistry, Mathematics and Physics (2008-present)
- Spearheaded the self-study and external evaluation for the biology, citrus and horticultural science, and the chemistry and physics departments. (2007-2008)
- Organized a retreat for the Natural Sciences and Mathematics division. (Summer 2008)
- Established a chemical hygiene plan for the division. (2007-2009)
- Oversaw the installation and maintenance of the Nuclear Magnetic Resonance (NMR) spectrometer. (2008-2009)
- Assisted chemistry faculty with continuous maintenance of laboratory Instruments and was responsible for NMR-He fills, AA, FT-IR, and computational software. (2000-present)
- Wrote assessment plans and reports for the chemistry and physics department. (2001-2003; 2007-2008)
- Responsible for instrument purchasing in the chemistry department. (2000-present)
- Performed faculty evaluation for the chemistry department. (2001-2003)
- Wrote and administered several grants for undergraduate summer research. (2002-2005)
- Developed four new courses in the chemistry department and one course in the Honors Program.
  - Bioinorganic Chemistry
  - Descriptive Inorganic Chemistry
  - Analytical Chemistry
  - Forensic Chemistry
  - Environmental Chemistry
  - The Florida Environment: Culture, Ecology, and Place
  - The Florida Environment: Earth, Air, Fire, and Water
  - Inorganic Chemistry Laboratory
- Directed undergraduate student research in chemistry. (2001 - present)
- Served as faculty advisor for the FSC-Chapter of the American Chemical Society. – Chapter has received a commendable or outstanding award in the last eight years. (2000-2013)
- Established the Gamma Sigma Epsilon Chemistry Honor Society and served as the faculty advisor. (2001-2013)
- Represented the college at several student and community functions. Dreyfus Foundation, President Council, Day on Campus, Lakeland Chamber of Commerce.

### **Pontifical Catholic University of Peru: Lima, Peru (March 2015-June 2015, August 2016 – December 2016)**

- Visiting faculty in the Chemistry Department
- Visiting Faculty in the School of Engineering – Collaboration with the Civil Engineering Department and the Corrosion and Protection Institute.

#### **Responsibilities and accomplishments**

- Developed and taught a course in Bioinorganic Chemistry
- Research in the area of synthesis of metal-organic materials using electrochemical approaches
- Work with Civil and Mechanical engineering faculty in developing application for metal organic materials in the area of construction.
- Gave scientific seminars in the chemistry department and the corrosion and protection institute.

## C. Valdez Gauthier – Curriculum Vitae

- Mentored students in research and soft skills.

### University of South Florida: Tampa, FL (January 2015 - March 2015)

- *Sabbatical Visitor* in the Chemistry Department - Collaboration with Dr. J. Harmon

#### Responsibilities and accomplishments:

- Research in the area of polymer composites.
- Use techniques utilized in polymer characterizations such Differential Scanning calorimeter (DSC) and dielectric spectroscopy.
- Submitted two abstract to a national and an international conference.

### University of South Florida: Tampa, FL (January 2007 - June 2007)

- *Sabbatical Visitor* in the Chemistry Department - Collaboration with Dr. M. J. Zaworotko

#### Responsibilities and accomplishments:

- Research in the area of co-crystals and purification of Epigallocatechin gallate (EGCG).
- Obtained single x-crystal structure of a co-crystal of EGCG.
- Master use of Powder X-ray.
- Co-author of a patent “Co-Crystal Forms of Flavonoids with Pharmaceutical Acceptable Molecules.”
- Mentored graduate students in Dr. Zaworotko’s labs.
- Developed applications of Mercury and Cambridge Crystallographic Structural Database for the FSC undergraduate inorganic course.
- Collaborated with Dr. Julie Harmon on “Polymer Composites using Metal-Organic Frameworks.”
- Attended research seminars in the chemistry department.

### University of Illinois at Urbana-Champaign: Urbana, IL (September 2006 – December 2006)

- *Sabbatical Visiting Associate Professor* in the Chemistry Department – Collaboration with Dr. P. Kelter.

#### Responsibilities and accomplishments:

- Attended first-year chemistry classes for engineers at UIUC and participated in weekly meetings with Teaching Assistants to evaluate students’ success.
- Participated in meetings with MIST-STEP grant Principal Investigators.
- Co-organizer of the 2<sup>nd</sup> Biennial Conference of the International Center for First-Year Undergraduate Chemistry Education (ICUC) – meeting held at the University of Colorado-Boulder.
- Attended and led the round table discussion on sustainability at the International Meeting ICUC-PIEQ XV of Sustainable Development in Chemical Education. (Argentina, October 2006)
- Attended weekly meeting to discuss advances in inorganic chemistry.
- Participated in weekly meeting with the Latin American Studies department on topics of education and indigenous rights in a global arena.

### Out-Of-Door Academy: Sarasota, FL (August 1996 – June 1999)

- Department Head (August 1996 – June 1998)
- Grades 9-12 science teacher (1996 - 1999)

#### Responsibilities and accomplishments:

- Established new science program.
- Developed the science program for the high school, including lab design, purchasing and hiring of faculty.
- Developed and oversaw science budget for K-12.
- Coordinated the implementation of a new science curriculum for PK-12.
- Established partnerships with local organizations such as the Marie Selby Botanical Garden.

### C. Valdez Gauthier – Curriculum Vitae

- Developed two new courses for the high school curriculum: Forensic Chemistry and Environmental Studies.
- Developed interdisciplinary curriculum with the art department.
- Taught AP Chemistry, Honors Chemistry, and Honors Physics.

#### **Manatee Community College:** Bradenton, FL (**August 1995** - July 1996)

- *Adjunct Professor* in the Natural Science Department

##### **Responsibilities and accomplishments:**

- Taught Physical Science.
- Developed two chemistry courses: Chemistry I and II for allied health sciences.

#### **Salem State College:** Salem, MA (**August 1989** – December 1994)

- Assistant Professor in the Chemistry and Physics Department (September 1990 – December 1994)
- Math and Science Coordinator for the Alternatives for Individual Development (A.I.D.) and Student Support Service (S.S.S.) (September 1989 – August 1990)

##### **Responsibilities and accomplishments:**

- Taught courses in chemistry and in the interdisciplinary studies program.
- Developed a summer research course for students enrolled in the McNair Summer Program.
- Coordinator for the Charlotte Forten Honors Program. Responsible for recruitment, mentoring and curriculum development.
- Participated in the development and training of middle school teachers in Interdisciplinary Math/Chemistry Education at Eastern Junior High School in Lynn, MA. The program was funded by the Turning Point Carnegie Grant, 1993 – 1994.
- Coordinated the math and science support classes for students enrolled in the A.I.D. and S.S.S. programs.

#### **University of New Hampshire;** Durham, NH (**September 1983** – December 1988)

- Research Assistant (1986-1988)
- Teaching Assistant (1983 – 1986)

##### **Responsibility and accomplishments:**

- Graduate Student Research Assistantship Award
- Worked in the synthesis, characterization and study of air-sensitive organometallic compounds.
- Extensive experience in Nuclear Magnetic Resonance (NMR), Infrared and Ultraviolet Spectroscopy, and Chromatography.
- Prepared experiments, laboratory lectures, supervised students in the laboratory, graded laboratory reports, conducted help sessions for General Chemistry students, proctored and graded quizzes and exams.
- Set-up experiments, prepared laboratory hand-out and laboratory lectures, graded laboratory reports for Advanced Physical Chemistry and Advanced Inorganic Chemistry.

### **Courses Taught (courses developed are marked with an \*)**

#### **Florida Southern College,** Lakeland FL (1999 – present):

- \*Bioinorganic Chemistry
- \*Descriptive Inorganic Chemistry (CHE 2255-lecture and lab).
- \*Analytical Chemistry (CHE 2235-lecture and lab).
- \*Bioinorganic Chemistry (CHE 4450)
- Honors Thesis (HON 4495 and HON 4496).
- Honors within the Major (HON 4493 and 4494).

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- Introduction to Research (CHE 4410)
- Undergraduate Research in Chemistry (CHE 392, CHE 492, CHE 493, CHE 494).
- Inorganic Chemistry (CHE 406-lecture and \*laboratory).
- Advanced Inorganic Chemistry (\*CHE 4455)
- Applied Physical, Analytical, and Inorganic Chemistry (CHE 3320)
- Senior Seminar (CHE 499).
- Quantitative Analysis (CHE 206, lecture and laboratory).
- College Chemistry (CHE 111, lecture and laboratory).
- College Chemistry with Qualitative Analysis (CHE 112, lecture and laboratory).
- \*Forensic Chemistry (CHE 2275-lecture and laboratory).
- \*Environmental Chemistry.
- Environmental Investigations and Insights (HON 1173)
- \*The Florida Environment: Culture, Ecology and Place (HON 196).
- \*Florida Environment: Earth, Air, fire, and Water (HON 197).
- Interdisciplinary Topics in Science (PSC 197).
- Physical Science (PS 105, lecture).
- Physiological Chemistry (CHE 211).
- Introduction to Women's Studies (WST 201).
- First-Year Seminar (FYS 101).

### **Out-Of-Door Academy (1996 - 1999):**

- Chemistry.
- Honors Chemistry.
- Advanced Placement Chemistry.
- Physics.
- Environmental Science.
- Forensic Science.

### **Manatee Community College (1995-1996):**

- Chemistry for Non-majors I and II (lecture and laboratory).
- General Physical Science I (lecture).

### **Salem State College (1989 - 1994):**

- Foundation of Chemistry I (lecture and laboratory).
- General Chemistry of Life Processes (lecture and laboratory).
- Chemistry of Life Processes (lecture and laboratory).
- General Chemistry laboratories for chemistry and engineering majors.
- Physical Chemistry II (lecture and laboratory).
- \*Advanced Inorganic Chemistry Laboratory.
- \*Research Seminar.
- First Year Seminar I and II.
- \*Introductory Chemistry course for high school students enrolled in the Upward Bound Program.

## **Publications**

### **Peer-Reviewed Publications:**

- Copper (II) Complexes with Tridentate Bis(pyrazolylmethyl)pyridine Ligands: Synthesis, X-Ray Crystal Structures and  $\epsilon$ -Caprolactone Polymerization,” J. Rueda-Espinosa, J. F. Torres, **C. Valdez Gauthier**, L. Wotjas, G. Verma, M. Macias, J. Hurtado, *Chem. Select*, 2017, 2 (30), 9815-9821.
- “Synthesis and applications of metal-organic frameworks in the formation of composite materials,” **C. Valdez Gauthier**, *Proceedings of the XXXI Latin American Congress of Chemistry*, October 2014.

## C. Valdez Gauthier – Curriculum Vitae

- “Poly(methylmethacrylate) composites of copper-4, 4'-trimethylenedipyridine”, Shisi Liu, Lukasz Wojtas, Justin Massing, **C. Valdez Gauthier**, Julie P. Harmon, *New J. Chem.*, 2012, 36, 1449-1456.
- Spattering of hot cooking oil with water, G Pinto, **C. Valdez Gauthier**, *J. Chem. Educ.*, 2009, 86 (11), 1281-1285.
- Some consideration regarding the active learning in chemistry, G Pinto, **C. Valdez Gauthier**, P. Kelter, G. Weaver, *Chem. Educator* [online], 2008; DOI 10.1333/s00897082130a.
- Writing in an Introductory Chemistry Course for Non-Science Majors; **C. Valdez Gauthier**, *Crosscurrent, Journal of Writing Across the Curriculum* at Salem State College; Donnalee Rubin, editor, 1993, 7 - 9.
- Phytochemistry Studies of the Lichen Usnea Sp.; P. Morales, J. Robles, A. Pastor de Abram, K. Gallagher, and **C. Valdez Gauthier**; *Quimica*, 1993, 7, 13-19.
- Halogenated Derivatives of the Dimolybdenum Tetrachosphoxane Cage; M. M. Turnbull, **C. Valdez**, E. H. Wong, E. J. Gabe, and F. L. Lee; *Inorganic Chemistry*, 1992, 31, 208 - 214.
- Tetradentate Ligands for the Mo-Mo Quadruple Bond; E. H. Wong, **C. Valdez**, E. J. Gabe, and F. L. Lee; *Polyhedron*, 1989, 8, 1 - 5.
- Two Approaches to the Synthesis of Bimetallic Cage Complexes of the Tetraoxatetraphosphorinane [RPO]<sub>4</sub> Ring; E. H. Wong, M. M. Turnbull, K. D. Hutchinson, **C. Valdez**, E. J. Gabe, F. L. Lee, and Y. Pe Page; *J. Am. Chem. Soc.*, 1988, 112, 8422 – 8428.

### Electronic Publications:

- The Japan Syndrome; **C. Valdez Gauthier**, VIPeR, <https://www.ionicviper.org/literature-discussion/japan-syndrome> (accessed February 27, 2016)
- Synthesis, Characterization, and Computational Modeling of [Co(acacen)L<sub>2</sub>]<sup>+</sup>, an Inhibitor of Zinc Finger Proteins; Elizabeth Bajema, Christopher Bailey, **C. Valdez Gauthier**, James Jeitler, Peter Craig and Shaun E. Schmidt, VIPeR, <https://www.ionicviper.org/lab-experiment/synthesis-characterization-and-computational-modeling-coacacenl2-inhibitor-zinc> (accessed February 27, 2016).
- Cobalt Schiff Base Zinc Finger Inhibitors; Elizabeth Bajema, Christopher Bailey, **C. Valdez Gauthier**, James Jeitler, Peter Craig and Shaun E. Schmidt, VIPeR, <https://www.ionicviper.org/literature-discussion/cobalt-schiff-base-zinc-finger-inhibitors>, (accessed February 27, 2016).

### Publications and Reports

- Chapters in Peru and Florida Build Skills and Outreach Programs Together, **C. Valdez Gauthier and Betty Galarreta**, *In Chemistry*, January 23, 2023, <https://inchemistry.acs.org/student-chapters/chapters-in-peru-and-florida-build-professional-skills-and-outreach-programs-together.html>.
- Reaching out to the next generation: Working with High School Chemistry Clubs, **C. Valdez Gauthier**, *In Chemistry*, 2008, 17 (3), pp 10-13.
- College-High School collaboration program to enhance learning in chemistry, **C. Valdez Gauthier**, C. Pierce, pages 331-338 in *Aprendizaje Activo de Química y Física*, Equipo Sirius, 1st Ed., Spain, 2007.
- Integrating Library Research into Chemistry Courses, **C. Valdez Gauthier** and M. M. Flekke, chapter in *Survival Handbook for the New Chemistry Instructor*, D. M. Bunce and C. Z. Muzzi, Eds. Prentice Hall, 2003.

### Presentations

#### Peer Reviewed Oral Presentations (undergraduate students' names are underlined):

- Earth week during the pandemic: an international collaboration. Galarreta, B., Gauthier C. V.; 73<sup>rd</sup> Southeastern Regional Meeting American Chemical Society Meeting, Puerto Rico, October 2022.

- Research in Metal-Organic Materials with undergraduates students. **Gauthier C. V.**; Congreso Iberoamericano de Quimica and XXIX Congreso Peruano de Quimica (invited speaker), Lima-Peru, October 2018
- Modifying organic polymers using metal-organic materials: A perspective from a Fulbright fellow in Peru. **Gauthier, C. V.**; Nakamatzu, J.; Kim, S.; 253th ACS National Meeting, San Francisco, CA, March, 2017.
- “Synthesis and applications of metal-organic frameworks for tuning of polymers properties,” **C. Valdez Gauthier**, VII International Congress of Materials, Cusco-Peru, October 2016.
- Establishing successful interdisciplinary collaborations in Peru. **C. Valdez Gauthier**, The International Chemical Congress of the Pacific Basin Societies 2015 (Pacifichem 2015), Honolulu, HI, December 2015.
- Synthesis of metal-organic materials (MOMS) using a microwave reactor. **C. Valdez Gauthier, J.J. Flanagan**, 250th ACS National Meeting, Boston, MA, August 2015.
- Synthesis and applications of metal-organic materials (MOMs) in the formulation of composite materials containing methyl-methacrylate. **C. Valdez Gauthier**, Cycle of Scientific Conferences organized by the Peruvian Chemical Society, Lima, Peru. May 2015.
- Synthesis and application of metal organic frameworks in the formulation of composite materials. **C. Valdez Gauthier**, J. Harmon, Grace Beggs and Wei Pin Teh, 31<sup>st</sup> Latin American Congress of Chemistry, Lima, Peru, October 14-17, 2014.
- Outreach is more than arm’s length: Scientific exploration through chemistry, **C. Valdez Gauthier** and D. Bromfield Lee, 23<sup>rd</sup> International Conference on Chemistry Education, Toronto, Canada, July 13-18, 2014.
- Fostering worldwide interchange of ideas in chemical education through involvement in the International Activities Committee, **C. Valdez Gauthier**, 247<sup>th</sup> ACS National Meeting, Dallas, TX, March 2014.
- Establishing a cultural network through chemical education, P. Morales Bueno and **C. Valdez Gauthier** 245<sup>th</sup> ACS National Meeting, New Orleans, LA, April 2013.
- Building connections through mentorship and other activities, **C. Valdez Gauthier**, Cheryl Pierce, and Karen Kaleauti, 2012 Biennial Conference on Chemical Education (BCCE), Pennsylvania State University, PA, July 2012.
- International perspectives in chemical education for a sustainable world, **C. V. Gauthier C. Valdez Gauthier** ACS National Meeting, San Diego, CA, March 2012.
- Integrating a service learning component to outreach efforts to chemistry clubs, **C. Valdez Gauthier**, C. Pierce, 238<sup>th</sup> ACS National Meeting, Washington, DC, August 2009.
- Reaching out to the next generation: A collaboration between a college and local high schools, **C. Valdez Gauthier**, C. Pierce, 236<sup>th</sup> ACS National Meeting, Philadelphia, PA, August 2008.
- Incorporating multinuclear NMR spectroscopy in the inorganic chemistry course, **C. Valdez Gauthier**, 20<sup>th</sup> Biennial Conference on Chemical Education, Indiana University, IN, July 2008.
- A shared PBL experience in general chemistry: Collaboration across boundaries, **C. Valdez Gauthier**, P. Morales-Bueno, 20<sup>th</sup> Biennial Conference on Chemical Education, Indiana University, IN, July 2008.
- It all started in the Goat Room: Reflections from a forensic science workshop, **C. Valdez Gauthier** 233<sup>rd</sup> ACS National Meeting, Chicago, IL, March 2007.
- Great ideas in chemistry: A day of sharing, **C. Valdez Gauthier**, G. Sellers, 19<sup>th</sup> Biennial Conference on Chemical Education, Purdue University, IN, July 2006.
- Balancing research/teaching/outreach at four-year institutions, **C. Valdez Gauthier** 231<sup>st</sup> ACS National Meeting, Atlanta, GA, March 2006.
- A bag full of chemistry, **C. Valdez Gauthier**, G. Sellers, and C. Pierce; Florida Association of Science Teachers – Annual Meeting, Orlando, FL, November 2005.
- Integrating a longer-term research project in a first-year chemistry course, **C. Valdez Gauthier**; First Year Undergraduate Chemistry Education International Conference, University of Illinois at Urbana-Champaign, IL, May 2005.

### C. Valdez Gauthier – Curriculum Vitae

- Thin film deposition of a nitro-nanoball structure on gold and graphite surfaces using photoemission spectroscopy, **C. V. Gauthier**, R. Schlaf, M. M. Beerbom, B. Lagel, B.V. Doran, J. J. Perry IV<sup>3</sup>, and M. J. Zaworotko; 229<sup>th</sup> ACS National Meeting, San Diego, CA, March 2005.
- Synthesis and Characterization of Coordination Polymers with Copper (II), 1,3-Adamantanedicarboxylic Acid and Amine Derivatives, **C. Valdez Gauthier**, S. E. Bronson, J. F. Capetillo, and H. Darwiche; 26<sup>th</sup> Latin American Congress of Chemistry, Salvador-Bahia, Brazil, May 2004.
- Adapting Traditional Laboratory Experiments to Inquiry-Based Experiments in the General Chemistry Courses, **C. V. Gauthier**, and G. Sellers; 26<sup>th</sup> Latin American Congress of Chemistry, Salvador-Bahia, Brazil, May 2004.
- Art and Chemistry Come Together During National Chemistry Week, **C. Valdez Gauthier** and Elizabeth Newton; 223<sup>rd</sup> ACS National Meeting, Orlando, FL, April 2002.
- Integrating Library Research into a Chemistry Course, **C. Valdez Gauthier** and M.M. Flekke; 222<sup>nd</sup> ACS National Meeting, Chicago, IL, August 2001.
- Teaching General Chemistry Using Jenzabar, **C. Valdez Gauthier**, ACS 30<sup>th</sup> Northeast Regional Meeting, Durham, NH, June 2001.
- Conectando Quimica a la Historia y el Arte: Como Se Desarrollo el Blue Jeans? **C. Valdez Gauthier** and Jane Dalton; XXIV Latin American Congress of Chemistry, Lima – Peru, October, 2000.
- Stimulating Thought in Science Trough Art: Why Blue Jeans are Blue?, **C. Valdez Gauthier** and Jane Dalton; NSTA 2000 National Convention, Orlando, FL, April, 2000.
- Interfering with your Vision: Connections of Art and Chemistry, **C. Valdez Gauthier** and Rona Glasser; NSTA 2000 National Convention, Orlando, FL, April 2000.
- An Integrated Approach to Writing Research Papers in Chemistry, **C. V. Gauthier** and Deborah Iannitto; 15<sup>th</sup> Biennial Conference on Chemical Education, Waterloo, Ontario-Canada, August 1998.
- A Potpourri of Writing Assignments in Chemistry. **C. Valdez Gauthier**; X Latin-American Symposium of Chemical Education, Lima-Peru, October 1996.
- Molybdenum Complexes of Cyclo-Triphosphoxane [RPO]<sub>3</sub> and Cyclo-Tetraphosphoxane [RPO]<sub>4</sub>, **C. Valdez**, M. M. Turnbull, and E. H. Wong; American Chemical Society National Meeting, September, 1988.

#### Peer Reviewed Poster Presentations (undergraduate students' names are underlined):

- Opportunities for international research, teaching, and community outreach collaborations, **C. Valdez Gauthier**, 47<sup>th</sup> IUPAC World Chemistry Congress, July 2019, Paris, France.
- Self-assembly of metal organic materials incorporating 1,3-adamantanedicarboxylic acid and 1,3 bis(4-pyridyl) propane for tuning of polymer properties. **C. Valdez Gauthier**, J.J. Flanagan, G. Beggs, J. Harmon, G. Craft, and A. Lopez, The International Chemical Congress of the Pacific Basin Societies 2015 (Pacifichem 2015), Honolulu, HI, December 2015.

#### Invited Presentations:

- “Mentoring and Fostering Collaborations in Chemical Education Research and Teaching,” **C. Valdez Gauthier**, A Shared Journey of Research: Honoring Maria Oliver-Hoyo, American Chemical Society National Meeting, March 2023, Indianapolis, IN.
- “Challenges and opportunities during the pandemic,” **C. Valdez Gauthier**, Resilience of (Women in) Chemistry Symposium, American Chemical Society National Meeting, August 2022, Atlanta, GA.
- “Challenges and opportunities in an academic career path,” **C. Valdez Gauthier**, Symposium on Career Opportunities in Chemistry, Pontifical Catholic University, Lima-Peru, August 2020 (Zoom symposium).
- “Applications of chemistry at the pre-Columbian archeological site in Peru: Huaca de la Luna,” **C. Valdez Gauthier**, as part of the Archeology club lecture series, Winter Haven, FL, November 2017.
- “50-years of chemistry: synthesis, characterization, and application of MOMs,” **C. Valdez Gauthier**, Pontifical Catholic University of Peru, August 2017, Lima, Peru.



- “Metal-organic materials: An integrated approach involving basic research, applications, and international collaborations,” **C. Valdez Gauthier**, Techsuyo 2017, Stanford University. This was a meeting between scientists, government officials, and venture capitalists in the US and the government of Peru, Palo Alto, CA, August 2017.
- “Applications of metal-organic materials in the fine tuning of polymers properties,” **C. Valdez Gauthier**, Physics Colloquium, Pontifical Catholic University of Peru, Lima-Peru, October 2016.
- Self-assembly of metal-organic materials for tuning of polymer properties, **C. Valdez Gauthier**, University of North Carolina-Charlotte Department of Chemistry Seminar Series, Charlotte, NC, February 8, 2015.
- Synthesis and applications of metal-organic materials (MOMs) in the formulation of composite materials containing methyl-methacrylate, **C. Valdez Gauthier**, Cycle of Scientific Conferences organized by the Peruvian Chemical Society, Lima, Peru, May 28, 2015.
- Synthesis and applications of metal-organic frameworks, **C. Valdez Gauthier**, Corrosion and Protection Institute of the Pontifical Catholic University of Peru, Lima, Peru, May 12, 2015.
- Career launch and acceleration as a chemist, **C. Valdez Gauthier**, Universidad Nacional Mayor de San Marcos, Lima, Peru, April 16, 2015.
- Synthesis and application of metal organic materials in the formulation of composite materials, **C. Valdez Gauthier**, Universidad Nacional Mayor de San Marcos, April 15, 2015.
- Promoting chemical education collaborations among four-year institutions and high schools, **C. V. Gauthier**, Best practices in the teaching and learning of chemistry: international sharing of methods, insights, and results, 22<sup>nd</sup> International Conference on Chemistry Education, Rome, Italy, July 18, 2012.
- Green Chemistry and sustainable education, **C. Valdez Gauthier**, Global Sustainability symposium, Universidad de Concepcion, Concepcion, Chile, October 12, 2011.
- Fostering collaborations between higher education and K-12 schools, **C. Valdez Gauthier**, 43<sup>rd</sup> IUPAC Congress, San Juan, Puerto Rico, August 3, 2011.
- Partnerships between a college chemistry department and high schools: A recipe for deep learning in chemistry, **C. Valdez Gauthier**, 27th Annual High School-University Chemistry Teacher’s Conference, University of Colorado-Boulder, CO, October 23, 2010.
- Aprendizaje de química a través del servicio a la comunidad- un proyecto en Florida Southern College, **C. Valdez Gauthier**, Ibero-American Congress of Chemistry, Cuzco-Peru, October 14, 2008.
- College-High School collaborations to enhance deep learning in chemistry, **C. Valdez Gauthier**, Chemical Engineering Department, E.T.S.I. Industriales, Universidad Politecnica de Madrid, Madrid, Spain, June 2007.
- A collaboration experience between a college, a professional organization, and a high school in order to enhance the teaching and learning of chemistry, **C. Valdez Gauthier** Reunión Internacional ICUC-PIEQ XV de Educación Química para el Desarrollo Sustentable (Plenary Speaker), San Luis, Argentina, October 2006.
- The Balancing Act: Teaching, Research and Community Service at a Four-Year Institution, **C. Valdez Gauthier**, Careers in Academia Lecture Series, University of Illinois at Urbana-Champaign, Urbana, IL, December, 2006.
- Síntesis y estudios de formación de capas múltiples de estructuras supramoleculares usando la espectroscopía de fotoemisión, **C. Valdez Gauthier**, 2006 Chemistry Department Seminar, Pontifical Catholic University of Peru, Lima, Peru, November, 2006.
- Synthesis and thin film deposition studies of supramolecular structures using photoelectron spectroscopy, **C. Valdez Gauthier**, Chemistry Lecture Series, University of North Carolina – Wilmington, NC, February 2006.
- Diseño y Síntesis de Redes Metal-Orgánicas que Contienen Cobre (II), Ácidos Carboxílicos y Aminas; **C. Valdez Gauthier**, **J. F. Capetillo**, **A. Vedenko**, and **B. West**; 5th International Congress on Chemistry and Chemical Engineering, Havana, Cuba, October, 2004.

### C. Valdez Gauthier – Curriculum Vitae

- Self-assembly of supramolecular structures using polycarboxylic Acids and Amine Derivatives, **C. Valdez Gauthier**, Chemical Lecture Series, Pontifical Catholic University of Peru, Lima, Peru, July 2003.
- How can one do research in a predominantly teaching institution with limited resources?, **C. Valdez Gauthier**; 17<sup>th</sup> Congreso de Quimica, Santiago de Cuba, Cuba, December 2002.
- Career Opportunities in Chemistry, **C. Valdez Gauthier** as part of the Great American Teach-In, Plant City High School, Plant City, FL, November 2001.
- Helping Young Women to Succeed in Science, **C. Valdez Gauthier**, conference for middle school girls, parents and teachers; organized by the American Association of University Women-Venice Chapter, Venice, FL, March 1997.
- Increasing the Success Rate of Latina Students in the Sciences, **C. Valdez Gauthier**, Faculty Symposium, Wellesley College, Wellesley, MA, July 1994.
- Are we going in the same direction? **C. C. Valdez Gauthier**, Minority Faculty/Student Forum, Salem State College, Salem, MA, January 1994.
- Succeeding as a Minority Student in a Predominantly White College, **C. Valdez Gauthier** African-American and Hispanic Society Lecture Series at Salem State College, Salem, MA, April 1994.
- Synthesis and Reactions of Polyphosphoxane Complexes, **C. Valdez Gauthier**, Chemical Lectures Series, Pontifical Catholic University of Peru, Lima, Peru, June 1993.
- Chemical Education: A New Approach for Teaching Chemistry at the Elementary School Level, **C. Valdez Gauthier**, Chemical Lectures Series, Pontifical Catholic University of Peru, Lima, Peru, June 1993.
- Chemical Education: An Overview of the Project PALMS (Partnerships Advancing the Learning of Mathematics and Science) in Massachusetts, **C. Valdez Gauthier** Peruvian Chemical Society, Lima, Peru, June 1993.

#### Invited Lectures at Florida Southern College:

- “Research and Applications of Metal-Organic Materials (MOMs): A Perspective from a Fulbright Scholar in Peru,” **C. Valdez Gauthier**, Fiat Lux Keynote Event, Florida Southern College, Lakeland, FL April 2023.
- “Implicit Bias in STEM,” **C. Valdez Gauthier**, American Chemical Society – FSC Chapter, Florida Southern College, Lakeland, FL, November 2021.
- “My Journey Through Chemistry,” **C. Valdez Gauthier**, Gamma Sigma Epsilon Induction ceremony, Florida Southern College, Lakeland, FL, April 2019.
- “Women in Chemistry,” **C. Valdez Gauthier**, as part of the Women in Stem course. I was invited by Dr. Melanie Langford, Florida Southern College, April 2017.
- “MOMs in Mila: Doing Research Abroad,” **C. Valdez Gauthier**, as part of the Chemistry, Biochemistry, and Physics Lecture Series, March 2017.
- Common Threads, **C. Valdez Gauthier**, New Students’ Welcome Convocation, Florida Southern College, Lakeland, FL, August 2006.
- The Shroud of Turin, **C. Valdez Gauthier**, Florida Center for Science and Religion, Florida Southern College, Lakeland, FL, April 2006.
- Much Ado About Chocolate, **C. Valdez Gauthier**, Family Weekend, and Homecoming Weekend, Florida Southern College, Lakeland, FL, April 2005 and October 2005.
- Forensic Chemistry, **C. Valdez Gauthier**, Bite of FSC, Florida Southern College, Lakeland, FL, February 2005.
- From Escher to Supramolecular Chemistry – Undergraduate Research at FSC, **C. Valdez Gauthier**, President’s Council meeting, Florida Southern College, Lakeland, FL, February 2005.
- Education Across Cultures. Diversity Council of the Lakeland Chamber of Commerce, Lakeland, FL, August 2004.

**Research Presentations made by C. Valdez Gauthier's undergraduate students at national and regional meetings (name of undergraduate authors are underlined):**

- Metal Organic Materials synthesis and applications to development of latent fingerprints, Emmelyne McGovern, C. Valdez Gauthier, 263<sup>rd</sup> ACS National Meeting, San Diego, CA March 2022.
- Synthesis of zinc-metal-organic materials for biomedical applications – drug delivery, Prasamsa Surapaneni, C. Valdez Gauthier, 263<sup>rd</sup> ACS National Meeting, San Diego, CA March 2022.
- Preparation of zinc metal-organic materials towards drug delivery vessels, Alec Bigness, J.M. Montgomery, and C. Valdez Gauthier\*, 257<sup>th</sup> ACS National Meeting, Orlando, FL March 2019.
- Synthesis of Zinc (1,3-adamantane dicarboxylic acid) complexes with varying nitrogen compound linkages with high thermal stability, Jerrod Flanagan, C. Valdez Gauthier, 2014 SERMACS meeting, Nashville, TN, October 2014.
- Synthesis and characterization of [M(1,3-adamantanedicarboxylic acid)(4,4'-trimethylenedipyridine)], M = Cu<sup>2+</sup>, Co<sup>2+</sup>, Grace Beggs, Wei Pin Teh, C. Valdez Gauthier, 247<sup>th</sup> ACS National Meeting, Dallas, TX, March 2013. [ORAL]
- Synthesis of novel transition metal complexes using oxydiacetate as primary ligand and 2, 2' pyridine as auxiliary ligand, Wei Pin Teh, C. Valdez Gauthier, Florida Annual Meeting and Exposition (FAME)-2013, Palm Harbor, FL, May 2013
- Microwave assisted synthesis of imide ligands and metal organic frameworks, Nicholas Traversa and C. Valdez Gauthier, 245<sup>th</sup> ACS National Meeting, New Orleans, LA, April 2013.
- Effect of reactions conditions on copper-4,4'-trimethylenepyridine and 1,3-adamantane dicarboxylic acid formation, Grace Beggs and C. Valdez Gauthier, 245<sup>th</sup> ACS National Meeting, New Orleans, LA, April 2013.
- Solid state synthesis of imide ligands, Sarah Grossman, and C. Valdez Gauthier, 44<sup>th</sup> Biennial Conference of Gamma Sigma Epsilon – Chemistry Honor Society, Pembroke, NC, March 2011.
- Synthesis of metal-organic frameworks using copper (II) and dicarboxylic acids, Patricia Gomez, and C. Valdez Gauthier, 239<sup>th</sup> ACS National Meeting, San Francisco, CA, March 2010.
- Complexation studies of cobalt II and teraphenylporphyrins, Madelane Teran, and C. Valdez Gauthier, 238<sup>th</sup> ACS National Meeting, Washington, DC, August 2009.
- Synthesis of coordination polymers using the imide ligand [N-(4-carboxyphenyl)-5-carboxyphthalimide] and other novel imide ligands, A. Tamasi, L. Wolfe, and C. Valdez Gauthier, 237<sup>th</sup> ACS National Meeting, Salt Lake City, UT, March 2009.
- Synthesis and coordination of novel imide ligands from 1,2,4-benzenetricarboxylic anhydride and aminobenzoic acid derivatives: A green chemistry approach, J. Massing, K. Yerton and C. Valdez Gauthier; 235<sup>th</sup> ACS National Meeting, New Orleans, LA, April 2008.
- Synthesis and Characterization of {[Co<sub>2</sub>(1,3-ADC)<sub>2</sub>(4,4'-BPY)<sub>4</sub>(NO<sub>3</sub>)<sub>2</sub>]•MeOH}<sub>n</sub>. Courtney Baker and C. Valdez Gauthier; 233<sup>rd</sup> ACS National Meeting, Chicago, IL, March 2007.
- Synthesis and Characterization of 1-D coordination polymers of [Cu(NO<sub>3</sub>)<sub>2</sub>(4,4'-BPY)<sub>2</sub>]<sub>n</sub> and [Cu(NO<sub>3</sub>)<sub>2</sub>(4,4'-BPY)<sub>2</sub>]<sub>n</sub>. E. Garcia Cardona and C. Valdez Gauthier; 231<sup>st</sup> ACS National Meeting, Atlanta, GA, March 2006.
- Design and synthesis of supramolecular compounds using copper (II) ion, 1,3-adamantanedicarboxylic acid and 1,4-cyclohexanedicarboxylic acid and pyridine derivatives. C. Cherenfant, B. West and C. Valdez Gauthier; 231<sup>st</sup> ACS National Meeting, Atlanta, GA, March 2006.
- Design of Supramolecular compounds using copper (II) ion, 1,3-cyclohexanedicarboxylic acid, 1,3-adamantanedicarboxylic acid, and ammonia derivatives. A. Vedenko, B. West, and C. Valdez Gauthier; 229<sup>th</sup> ACS National Meeting, San Diego, CA, March 2005.
- Self-assembly of coordination polymers using zinc(II), glutaric acid and 4,4'-bipyridine. H. Darwiche, and C. Valdez Gauthier; ACS 55<sup>th</sup> Southeast Regional Meeting, Atlanta, GA, November 2003.
- Crystal engineering: self-assembly of supramolecular arrays using copper carboxylates and amine derivatives. S. Bronson; and C. Valdez Gauthier; ACS 55<sup>th</sup> Southeast Regional Meeting, Atlanta, GA, November 2003.

### C. Valdez Gauthier – Curriculum Vitae

- Self-assembly of one-dimensional supramolecular arrays using transition metal salts and hexamethylenetetramine. H. Darwiche; D. Nyalani, and C. Valdez Gauthier; 225<sup>th</sup> ACS National Meeting, New Orleans, LA, March 2003.
- Community takes off with chemistry: A contribution by the Florida Southern College Student Affiliates of the American Chemical Society. D. Nyalani, J. Woerner, and C. Valdez Gauthier; 223<sup>rd</sup> ACS National Meeting, Orlando, FL, April 2002.

#### Workshop Presentations:

- Forensic Science: An Introduction to the Analysis of Evidence – Narcotic Analysis, **C. Valdez Gauthier**, L. Kaplan –leader and organizer, 21<sup>st</sup> Biennial Conference on Chemical Education, North Texas, TX, August 2010.
- Forensic Science Workshop: Analysis of suspected powdered drug material, **C. Valdez Gauthier**, L. Kaplan –leader and organizer, 20<sup>th</sup> Biennial Conference on Chemical Education, Indiana University, Bloomington, IN, July 2008.
- Inquiry-Based Chemistry Labs, **C. Valdez Gauthier** and George Sellers, Teachers Workshops in Science Week at Pittcon ® 2006, Orlando, FL, March 2006.
- Juxtaposing High School and College Chemistry through Inquiry-Based Laboratories, **C. Valdez Gauthier** and G. Sellers; 18th Biennial Conference on Chemical Education, Iowa State University, IA, July 2004.
- Why were blue jeans blue? **C. Valdez Gauthier** and Jane Dalton; North Carolina Art Education Association Annual Meeting, Raleigh, NC, March 1999.
- Microscale Laboratory Techniques for Chemistry and Biology; A. Davis, S. K. Swope, and **C. Valdez Gauthier**; NSTA 1992 National Convention, Boston, MA, March 1992.

#### Workshops Attended:

- POGIL National Meeting, Washington University, St. Louis, MO, June 2018
- COACH-the-COACHes, 249<sup>th</sup> American Chemical Society National Meeting, Denver, CO, March 2015. Sponsored by the Committee on the Advancement of Women Chemists.
- VIPER: Bioinorganic Applications of Coordination Chemistry, Northwestern University, Evanston, IL, July 2014. Workshop sponsored by a grant to Online Network of Inorganic Chemistry from NSF.
- Material Science and Nanotechnology, Chemistry Communities for Workshops in the Chemical Sciences, Beloit College, WI, July 2013. NSF funded – week long workshop.
- Facilitating POGIL in an upper level course: analytical chemistry, 21<sup>st</sup> BCCE, University of North Texas, Denton, TX, August, 2010. NSF funded.
- Applications of the Cambridge Structural Database in Undergraduate Education and Research, 21<sup>st</sup> BCCE, University of North Texas, Denton, TX, August, 2010. CSDC funded.
- Engaged Learning Institute, Florida Southern College, Lakeland, FL, July 2010.
- Center for Workshops in Chemical Sciences, Renewable Energy, Beloit College, WI, June 2010. NSF funded – week long workshop.
- Technology Institute, Florida Southern College, Lakeland, FL, July 2009.
- Center for Workshops in Chemical Sciences, Advanced Forensic Chemistry, Williams College, Williamstown, MA, June 2009. NSF funded – week long workshop.
- Standard POGIL Workshop at Washington College, Chestertown, MD, June 2008. NSF funded – week long workshop.
- The Chemistry of Leadership: A Women’s Leadership Program – COACH sponsored workshop, New Orleans, LA, April 5, 2008.
- Coaching Strong Women in the Art of Strategic Persuasion - COACH sponsored workshop, Chicago, IL, March 24, 2007.
- Leading Without Authority – American Chemical Society Leadership Learning System sponsored workshop, Chicago, IL, March 25, 2007.

## C. Valdez Gauthier – Curriculum Vitae

- The Writing Heuristic Approach - National Science Foundation sponsored workshop, Purdue University, IN, August 1, 2006.
- Center for Workshops in Chemical Sciences, Chemistry and Art – National Science Foundation sponsored workshop, Millersville University, PA, May 27-June 1, 2006.
- Leadership - American Chemical Society sponsored workshop, St. Louis, MO, October 8-10, 2004.
- X-Ray Crystallography for Small Molecules and Proteins - National Science Foundation sponsored workshop, California State University-Fullerton, CA, June 16-21, 2003.
- Spartan software in the chemistry curriculum, Rollins College, January 2003.
- Center for Workshops in Chemical Sciences, Forensic Chemistry - NSF sponsored workshop, Williams College, MA, June 6-11, 2002.

## Grants, Fellowships, and Stipends

### Grants and Fellowships:

- Faculty/Student Summer Collaborative Research 2022: Synthesis and applications of Metal-Organic Materials. Funded, \$5641.
- Faculty/Student Summer Collaborative Research 2020: Synthesis and applications of Metal-Organic Materials. Funded, \$5735. **Cancelled due to COVID**
- Virtual Inorganic Pedagogical Electronic Resource (VIPEr) Fellow – as part of the National Science Foundation's Improving Undergraduate Education program (2018-present)
- National Science Foundation, 2014: Chemistry Coalitions Workshops and Communities of Scholars (cCWCS). Not funded, \$36,240.00
- American Chemical Society-International Activities Committee: 2014: Festival de Quimica and Chemical Education Symposium at the 31<sup>st</sup> Latin American Congress of Chemistry. Funded, \$20,000.
- Mosaic (2014, 2015): High School Chemistry Teachers Workshop. Funded, \$1000.00
- Mosaic: (2013): Summer Experiences for High School Students (in collaboration with Deborah Bromfield Lee). Funded, \$3000.
- American Chemical Society-Innovative Activity Grant, Mosaic Foundation and CF Industries: 2012: Fostering Chemistry Collaborations between High Schools, Higher Education and Industries 2012. Funded, \$3730.
- American Chemical Society-Innovative Activity Grant: 2010: Chemistry Odyssey. In collaboration with Edie Banner and Cheryl Pierce (Lakeland High School), 2009. Funded, \$2,900.
- American Chemical Society-Innovative Activity Grant: Career day for high school students. In collaboration with Cheryl Pierce (Lakeland High School), 2007. Funded, \$2,800.
- American Chemical Society-Innovative Activity Grant: Symposium for high school teachers. In collaboration with George Sellers (Florida Local section), 2006. Funded, \$3,000.
- John A. Leighty Fund within the Community Foundation of Greater Lakeland: Undergraduate and High School Research in Chemistry, 2005. Funded, \$13,000.
- Florida Southern College: Undergraduate Summer Research Grant, 2005. Funded, \$3,500.
- ACS-PRF Summer Research Fellowship: Investigation of the electronic structure of macro-molecular thin films and interfaces. In collaboration with Dr. R. Schlaf (University of South Florida), 2004. Funded, \$8,000.
- John A. Leighty Fund within the Community Foundation of Greater Lakeland: Undergraduate Research and Mentoring Program in the Life Sciences and Computer Science. In collaboration with Dr. Gwendolyn Walton (FSC), 2004. Funded, \$15,000.
- Florida Southern College: Undergraduate Summer Research Grant: Crystal Engineering: Crystal Engineering, 2003. Funded, \$13,000.

## C. Valdez Gauthier – Curriculum Vitae

- Florida Southern College: Undergraduate Summer Research Grant: Crystal Engineering: Self-Assembly of Supramolecular Arrays Using Metal-Carboxylates and Amine Derivatives, 2002. Funded, \$12,450.

### **Summer Stipend:**

- Florida Southern College summer stipend to present a paper and to participate in the Global Education Round Table Discussion in the 22<sup>nd</sup> International Conference on Chemistry Education, Rome-Italy (ICCE 2012).
- Florida Southern College summer stipend to participate in the 4<sup>3rd</sup> IUPAC Congress – Chemistry Education for the Future: A Global Perspective, San Juan, Puerto Rico, 2011.
- Florida Southern College summer stipend to participate in the “Jornadas para el Aprendizaje Activo (Active Engagement Meeting),” Madrid, Spain 2007.
- Florida Southern College summer stipend to participate in the 27<sup>th</sup> Latin American Chemistry Congress held in Bahia, Brazil 2004.

### **Sabbatical:**

- Sabbatical spent at the Pontifical Catholic University of Peru, Lima-Peru (January 2015-June 2015)
- Sabbatical spent at the University of Illinois at Urbana-Champaign and University of South Florida. (2006-2007).
- Sabbatical spent at the University of South Florida and Pontifical Catholic University of Peru (January 2015-June 2015)

## **Consulting and Other Professional Experiences**

### **Grant Review:**

- External Reviewer for the State of Florida five-year review for Florida Gulf Coast University – Chemistry and Physics Department.
- 2015 UNCF-Merck Science Initiative (UMSI) Selection Committee – Review and chose finalist for the 2015 cohort of Undergraduate, Graduate and Postdoctoral Fellows.
- Innovative Activity Grants and Community Interaction Service Grants (American Chemical Society – Education Division), 2002, 2009, 2010, and 2012.
- National Science Foundation's Transforming Undergraduate Science, Technology, Engineering and Mathematics Education (TUES) program, Type 1 competition – Panel Review, July 2011.
- National Science Foundation's Course, Curriculum, and Laboratory Improvement (CCLI) program, Type 1 competition – Panel Review, June 2009, July 2013.
- Student Chapter Annual Reports (2010, 2011, 2012, and 2013).
- Bard Research Fund, a fund to support faculty's scholarly and artistic projects with significant potential as a distinguish contribution to the humanities, the social or natural sciences, or the arts, Bard College, 2005-2006.

### **Member of Thesis Committee (University of South Florida)**

- Chair of Ph.D. dissertation for Adrian Villalta-Cedras (Chemistry Department – University of South Florida), May 2014.
- Ph.D Committee for Jason Perman (Chemistry Department – University of South Florida, Current).
- Master Thesis for Shissi Liu (Chemistry Department – University of South Florida), April 2009.
- Chair of Ph.D. dissertation for Brenda Held (Chemistry Department – University of South Florida), April 2007.

## C. Valdez Gauthier – Curriculum Vitae

- Chair of Ph.D. Dissertation Committee for Bart Heldreth (Chemistry Department - University of South Florida), November 2004.

### Professional Conferences Organizational Support:

- Co-Organize and Preside Undergraduate Oral Research Symposium with Nicole Snyder and Joshua Ruppel: 249<sup>th</sup> ACS National Meeting, Boulder, CO, March 2015; 250<sup>th</sup> ACS National Meeting, Boston, MA, August 2015; 251<sup>st</sup> ACS National Meeting, San Diego, CA, March 2016; 252<sup>nd</sup> ACS National Meeting, Philadelphia, PA, August 2016; 253<sup>rd</sup> ACS National Meeting, San Francisco, CA, April 2017; 254<sup>th</sup> ACS National Meeting, Washington, DC, August, 2017; 255<sup>th</sup> ACS National Meeting, New Orleans, LA, March 2018; 256<sup>th</sup> ACS National Meeting, Boston, MA, August 2018; 257<sup>th</sup> ACS National Meeting, Orlando, FL, March 2019; 258<sup>th</sup> ACS National Meeting, San Diego, CA, August 2019; 259<sup>th</sup> ACS National Meeting (Virtual), Philadelphia, PA, March 2020, 263<sup>rd</sup> ACS National Meeting, San Diego, CA, March 2022, 265<sup>th</sup> ACS National Meeting, Indianapolis, IN, March 2023.
- Co-organize and Preside Undergraduate Research papers with Nicole Snyder, 247<sup>th</sup> ACS National Meeting, Dallas, TX, March 2014.
- Program Co-Chair (with Nicole Snyder of Hamilton College): Division of Chemical Education - 245<sup>th</sup> ACS National Meeting, New Orleans, LA, August 2013.
- Program Co-Chair (with Nicole Snyder of Hamilton College): Division of Chemical Education - 240<sup>th</sup> ACS National Meeting, Boston, MA, August 2010.
- Co-organizer with Santiago Sandi-Urena (University of South Florida) of the Chemical Education program at the Florida Annual Meeting and Exposition, Palm Harbor, FL, May 2011, 2012 and 2013
- Session Chair, Chemical Education Symposium (with David Brown of Florida Gulf Coast University), Florida Annual Meeting and Exposition, Palm Harbor, FL, May 2009.
- Organizer and Presider of a Presidential Symposium (with George Sellers of Ware Shoals High School of South Carolina): *Bridging the Gap: Building Collaborations with High School Chemistry Clubs*, 238<sup>th</sup> ACS National Meeting, Washington, DC, August 2009.
- Session Chair: ACS Southeastern Regional Meeting, Puerto Rico, October 2009.
- Symposium Organizer and Presider (with Patricia Morales Bueno of the Pontifical Catholic University of Peru): *Student Center Methodologies in First Year chemistry Using a Global Perspective*, 20<sup>th</sup> Biennial Conference in Chemical Education, Indiana University, Bloomington, IN, July 2008.
- Scientific Committee Board (with Dr Paul Kelter of the University of Illinois at Urbana-Champaign, Gabriela Weaver of Purdue University, Gabriel Pinto of the Universidad Politecnica de Madrid), Engaged Learning Meeting, Madrid, Spain, July 2007.
- Symposium Organizer and Presider: *New Ideas and techniques in Teaching Lecture and Laboratory in General Chemistry Courses*, 2<sup>nd</sup> FYI Conference in First Year Chemical Education, University of Colorado, Boulder, CO, May 2007.
- Session Chair – General papers: 234<sup>th</sup> ACS National Meeting, Boston, MA, August 2007.
- Symposium Organizer and Presider: *Chemistry Across Borders*, 19<sup>th</sup> Biennial Conference in Chemical Education, Purdue University, West Lafayette, IN, July 2006.
- Session Chair – General papers: 232<sup>nd</sup> ACS National Meeting, San Francisco, CA, September 2006.
- Symposium Organizer and Presider: *US – Mexico Collaborations in Chemical Education*, 230<sup>th</sup> ACS National Meeting, San Diego, CA, March 2005.
- Program Chair: Florida Annual Meeting and Exposition, Orlando, FL, May 2004.

### Other Professional Experience:

- **Mid-Florida Fulbright Association:** Board member since 2022-present. Serve as secretary of the board and currently appointed as Director of Advocacy to the Fulbright Association.
- **American Chemical Society (ACS) National:**

ACS National Awards Committee: Review nomination for ACS-National Awards (2019-Present).  
ACS Committee on Committees (ConC): Elected by the ACS Council to serve a three-year term (2023-present). Responsible for providing leadership to the International Activities Committee (IAC) and the Committee on Ethics.  
ACS Exam Institute: Board of Trustee for the ACS Exam Institute (2016-present)  
ACS Society Committee on Education (SOCED): Member on the K-12 sub-committee. (2015 – present). Vice-Chair (2018-2020), Chair (2021-2022)  
ACS Education Department: ChemClub Advisory Board, responsible for the implementation and evaluation of the Chemistry Club program launched by ACS in 2005, 2006 –2012.  
Committee on Membership Affairs: Member (2011-2014 and vice-chair from 2012-2014)  
ACS Annual Faculty Peer Review Conference: Review Student Affiliate Annual reports. Elected to the Editorial Board of the *In Chemistry* Magazine, 2002-2003, 2008-2015.  
Committee on Community Activities (2004 – 2009): Elected as chair of the 2008 Chemist’s Celebrate Earth Day Committee, and chair of the Volunteer Engagement sub-committee, 2007-2009.  
Division of Chemical Education: member of the International Activities Committee (2001-2014, chair 2009 - 2014) and Program Committee (2005-2017).  
ACS Division of Chemical Education’s Examination Institute: Member of the Committee Responsible for producing the 2007 General Chemistry Examination, 2004 – 2006. Duties included: writing questions, performing statistical analysis for exam, and selecting final question for final exam.  
Reviewer for the Journal of Chemical Education and Inorganic Chemistry: Reviewer since 2010 to present.

- ***American Chemical Society (ACS) Local Section:***  
Councilor (2007 - present): Represent the local section at the ACS Council meeting and reviews local section annual report.  
National Chemistry Week and Chemistry Celebrate Earth Week Coordinator (2000-present): Responsible for overseeing outreach efforts in Tallahassee, Gainesville and Lakeland.  
Members of the Executive Committee (2004 – present): serve as chair of the local section in 2005, and Career Coordinator (1999- 2003).
- ***All Saints Academy.*** Board of Trustee (August 2012 – August 2018). Responsible for Teachers compensation and curriculum committees.
- ***Chemistry Collaborations, Workshops and Community of Scholars (cCWCS)*** – Member of the Leadership Council for the Forensic Sciences Scholars (2011 - 2017).
- ***Gamma Sigma Epsilon – Chemistry Honor Society:*** Executive President (2007-2009) – responsible for organizing the biennial conference in 2007 and installation of new chapters. Under my leadership, ten new chapters were installed, including the one at the University of North Carolina-Chapel Hill. Presided over 2009 Biennial Conference.
- ***Polk County Industry Community Advisory Panel:*** Responsible for providing scientific advice to industry and community members in Polk County, 2002-2009. Serve on the Education and Newsletter Committees.
- ***International Center for First-Year Undergraduate Chemical Education:*** Board member (2006-2010): Member of the organizing committee for the second biennial conference of FYI Chemistry at the University of Colorado-Boulder, May 2007. Elected to membership in 2004.
- ***Hispanic Business Council of the Lakeland Chamber of Commerce:*** Member of the education committee - responsible for developing educational programs to increase the number of Hispanic students at the post-secondary level, 2002-2008.



### C. Valdez Gauthier – Curriculum Vitae

- ***Gulf Coast World of Science Museum:*** Chair, Education Committee, 1996-2000, Sarasota, FL.
- ***University of South Florida:*** Courtesy appointment in the Chemistry department, 2001-2014.
- ***Marie Selby Botanical Gardens:*** Advisory Board for Children’s Garden, 1995-1996, Sarasota, F.
- ***New England Board of Higher Education-Science and Engineering Division:*** College representative and academic leader, 1992-1994.

### Service to Florida Southern College:

- Chair and member of several tenure and promotion peer evaluation committees (2013-present)
- Graduate Council Committee (2019 -present)
- Distinguish Scholarship Committee (2017 – 2020).
- Diversity, Equity, and Inclusion curriculum subcommittee (August 2020 – Present)
- Tenure Committee and Peer Teaching Evaluation committees in the Arts and Sciences, Education, and Physical Therapy schools (2019-Present).
- Institutional Review Board Committee (2016 – 2019)
- Candidate Interview Committee (2012 - 2016).
- Advisory Board for the Teaching and Learning Center (April 2009-2011).
- Curriculum Committee (1999-2001, 2009-Present) -- Committee Chair (2009-2012).
- Natural Science and Mathematics Division Faculty Search Committees (2008-2012).
- Transformation Curriculum (2008-2009).
- Tenure Committee (2007-2009).
- Vice-President for Academic Affairs Search Committee, 2007-2008.
- Honors Committee (1999-2001, 2007-2009).
- Wellness Task Force (2007-present)
- General Education Committee (2004-2006).
- President of the FSC Women’s Association Board (2005-2006). Board member since 2002.
- Supervised students in scholarly research (2001-present).
- Faculty Senate (2001-2004). Worked with a sub-committee of the Senate on peer evaluation (2004 – 2006).
- Faculty advisor to the FSC - Student Affiliate Chapter of the American Chemical Society and to the Gamma Sigma Epsilon-Chemistry Honors Society (2000-2014).
- Member of the Advisory Board for the Florida Center for Science and Religion. (May 2004- 2014)).
- FSC Anti-Harassment Policy Facilitator Committee (2004-2008).
- Co-coordinator of the Active Learning Task Force for the faculty forum (January –April, 2005).
- Campus Safety Advisory Board (2003 –2005).
- Departmental Search Committees (chair: 2000, 2001; and 2002): successful hire of two chemistry faculty and 1 physics faculty; Spanish (2010).
- Core Curriculum Working Group (2000-2001).

### Salem State College

- Coordinator of the Charlotte Forten Scholars Program, an honors program for minority students. Responsibilities included: recruitment, admission, and advising (1993 - 1994).
- Advisor to McNair scholars (1993 -1994).
- Affirmative Action Committee (1993-1994).
- Chemistry and Physics Curriculum (1990-1994).
- Graduate School Research Seminar (1992-1994).

## C. Valdez Gauthier – Curriculum Vitae

- Project PALMS (Partnership Advancing the Learning of Mathematics and Science).
- White House Conference on Education (1994).
- Writing Across the Curriculum (1991-1994).
- Women in Science and Engineering (WISE) (1990-1994).
- Student Life (1992-1994).
- Academic Policies (1990-1992).

### **Awards and Recognition**

- 2018 American Chemical Society Fellow
- 2018 VIPEr Fellow (NSF funded program)
- 2016-2017 Fulbright Core Scholar in Peru
- The Jesse Ball DuPont Chair in The Natural Sciences (2013-present)
- Salutes to Excellence (2008) – award presented by the Florida Local Section of the American Chemical Society.
- ODK Teacher of the Year (2006).
- Who's Who Among America's Teachers (2003, 2004).
- Dissertation Fellowship for Outstanding Ph.D. Candidate, University of New Hampshire, 1987-1988.

### **Professional Membership:**

- American Chemical Society (ACS)
- American Association of Chemistry Teachers
- American Association for the Advancement of Science
- Council on Undergraduate Research
- Society of the Sigma Xi
- Gamma Sigma Epsilon, Chemistry Honors Society
- Phi Kappa Phi
- Phi Eta Sigma, Freshman Honorary Society
- Delta Kappa Gamma Society International – Gamma Upsilon, Florida