

ANNE GAQUERE-PARKER, Ph. D.

Assistant Vice President for Education Abroad and Grants

Professor of Chemistry

University of West Georgia

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EDUCATION

Ph.D. in Organic Chemistry, with Highest Honors, University of Rouen, France, 2000

Ph. D. Thesis Subject : Synthesis and Reactivity of Organometallic Compounds (Li, Zn, Mg, Cu) in π -Deficient Series (Diazines, Pyridine). Optimisation under Sonication.

Advisors: G. Queguiner, A. Turck, N. Ple.

Diploma of Advanced Studies in Organic Chemistry, University of Rouen, France, 1996

D.E.A. Thesis Subject: Study of the formation of organozinc compounds in the diazine series.

Advisors: G. Queguiner, A. Turck, N. Ple.

M.S. in Organic Chemistry, University of Rouen, France, 1995

Master Thesis Subject: Synthesis of nitrogen-containing fused heterocycles.

Advisors: G. Queguiner and N. Ple.

B.S. in Chemistry, Technology Institute, University of Rouen, France, 1994

Internship #2: Optimization of anodic oxidation of aluminum

Internship #1: Chemical analysis in a leather-treatment factory

ADMINISTRATIVE APPOINTMENTS

Assistant Vice President, Strategic Enrollment Management, Education Abroad and Grants

University of West Georgia, 2023–present

- Overseeing the development and implementation of education abroad programs, ensuring alignment with institutional goals.
- Managing grant applications and funding opportunities to support student and faculty international scholarly activities.
- Maintaining partnerships with international institutions, organizations, and governmental agencies to support collaborative research, academic exchange, and other initiatives.

Director, Office of Education Abroad
University of West Georgia, 2021–2023

- Oversaw international study programs, enhancing student global engagement and intercultural competencies.
- Collaborated with academic departments to integrate international experiences into the curriculum.
- Managed program budgets and logistical arrangements for student international travel.

FACULTY APPOINTMENTS

Department of Chemistry, *University of West Georgia*

Professor of Chemistry, 2018–present

Associate Professor of Chemistry, 2012–2018

Assistant Professor of Chemistry, 2009–2012

Lecturer of Chemistry, 2006–2009

Visiting Assistant Professor of Chemistry, 2002–2006

- Developed and taught courses in chemistry with a focus on contextualizing chemistry with interdisciplinary topics such as medicine, nursing, forensics, history, and the fine arts.
- Published research in peer-reviewed journals and presented at academic conferences.
- Initiated research projects and secured funding through external and internal grants.
- Conducted sonochemistry research and chemical education research.
- Collaborated on physics research projects.
- Supervised and mentored undergraduate research projects in chemistry and physics.
- Supported departmental and college-wide student success initiatives.

CONCURRENT APPOINTMENTS

College of Science and Mathematics Dean Fellow
University of West Georgia, 2019

- Assisted the Dean with strategic initiatives and projects within the College of Science and Mathematics.
- Completed and led the analysis, visualization, and presentation of data related to student success and enrollment for the College of Science and Mathematics.

Center for Diversity and Inclusion Scholar

University of West Georgia, 2018–2019

- Promoted diversity and inclusion within the university community.
- Developed programs and workshops to support the success underrepresented student groups on campus.

STEM Teacher Preparation Program Co-Director

University of West Georgia, 2015–2019

- Oversaw STEM Teacher Preparation program in regards to STEM content.
- Developed and implemented program goals, objectives, policies, and priorities.
- Collaborated with academic and education departments to enhance the program.
- Monitored and evaluated the efficiency and effectiveness of the program, implementing academic support programs for student success.
- Provided leadership and advisement to stakeholders.

Provost Fellow

University of West Georgia, 2015–2016

- Analyzed university-wide enrollment data and trends to inform strategies for academic program offerings.
- Collaborated with academic departments to develop innovative summer course offerings.

University of West Georgia Institutional STEM Excellence, co-Coordinator

University of West Georgia, 2012–2014

- Co-coordinated the STEM University of West Georgia Institutional STEM Excellence program, aimed at supporting students majoring in the STEM fields.
- Organized summer bridge program, freshman seminars, mini-grant program to support student success and undergraduate research, events and workshops to increase the retention, progression, and graduation of students majoring in STEM disciplines.

Summer Study Abroad Program, Department of Art, Director

University of West Georgia, 2007–2018

- Designed, organized, and led study abroad programs, fostering cross-cultural understanding and artistic exploration.

Organic Chemistry Laboratory and Safety Coordinator

University of West Georgia, 2006–2014

- Developed organic chemistry laboratory experiments.
- Managed and trained the student assistants.
- Ensured compliance with safety regulations.

OTHER PROFESSIONAL EXPERIENCE

Post-Doctoral Research Associate, Chemistry Department

Clark Atlanta University, 2000–2002

- Conducted research in organic chemistry, focusing on asymmetric synthetic methodologies.
- *Subject:* Salen-Mn(III)-Catalyzed Epoxidation
Research Advisor: X. R. Bu

HONORS, AWARDS, AND RECOGNITION

Fulbright Specialist Roster, 2024-2027

- Selected for the roster in December 2024 with a specialty in Chemistry and Science Education.

First-Year Seminar Faculty of the Year, 2021

- Organized and led engaging seminars for first-year students, fostering critical thinking and academic success, and supporting their transition to university life
- Developed innovative course materials and teaching methods tailored to first-year students' needs that integrate seamlessly chemistry, medicine, and history.

Best of the West Recipient for Strategic Imperatives (Academic Affairs), 2018

- Contributed to strategic planning initiatives within the Academic Affairs division.
- Played a key role in implementing academic policies and programs that enhanced student learning and institutional goals.
- Collaborated with faculty and administrators to align academic objectives with institutional priorities.

University System of Georgia eHero Faculty Award, 2017

- Recognized for outstanding contributions to online and digital learning.
- Developed and implemented effective online teaching strategies and resources.
- Provided mentorship and training to colleagues in digital pedagogy.

College of Arts and Sciences Excellence in Teaching Award, 2010

- Demonstrated exceptional teaching performance and commitment to student success.
- Engaged in curriculum development and course design to enhance the educational experience.
- Participated in departmental and college-wide initiatives to improve teaching quality.

TEACHING

Courses taught most frequently in past decade:

Modern Forensic Science, Drugs and Drug Abuse, Introductory Chemistry (Art emphasis), Survey of Chemistry I and II (pre-nursing chemistry, organic and biochemistry), Principles of Chemistry I (chemistry majors), First-Year Seminar (Molecules that changed the world), STEM Teacher Preparation Seminar: Perspectives in Science & Mathematics, and Environmental Science.

Total number of undergraduate research students supervised: 58 students (11 senior thesis)

Student Presentations at National, Regional, State Meetings: 43 student presentations

Student Presentations at UWG: 24 student presentations

RESEARCH AND SCHOLARSHIP ACTIVITIES

Papers Read and Abstracts Published at International, National, Regional, State Meetings: 31

31. Oral Presentation, Samarkand State University, Invited Guest Speaker, **2025**, “The Silk Road Palette: Chemistry in Art and Cultural Heritage”

30. Oral Presentation, Scholarship of Teaching and Learning Conference, **2024**, “Increasing Student Success Through Career Preparedness: How Can Study Abroad Contribute?”

29. Oral Presentation, Distance Learning Administrator Conference, **2023**, “International Online Activities: A New Way to Engage Students Globally”

28. Poster, Southeastern ACS Regional Meeting, Puerto Rico, **2022**, “Molecules that changed the world: Enhancing chemical literacy through a first-year seminar course for all majors”

27. Panelist, AAC&U Conferences, Transforming STEM Higher Education, **2021**, “Targeted Interventions in Precalculus and Calculus”

26. Oral Presentation, Open Education Conference, **2021**, “Open Access Resources for a College Nursing Chemistry Course”

25. Oral Presentation, co-presenter, Distance Learning Administration Conference, **2021**, “The Continuous Conscientious Growth of Online Faculty Development: Professional Development the eCore Way”

24. Oral Presentation, co-presenter, USG-STEM Summit, **2020**, “Direct Academic Support: Tutoring”
23. Panelist, eCore Annual State Conference, **2019**: “Best Practices for Student Success”
22. Poster, co-presenter, Scholarship of Teaching and Learning Conference, **2019**, “STEM Education Enhancement Plan at UWG”
21. Poster, Scholarship of Teaching and Learning Conference, **2019**, “Honors College Programs: First-Year Seminars”
20. Panelist, Georgia Collegiate Honors Council, Faculty Development Workshop, Milledgeville, GA, **2018**, “LEAP into Honors at UWG”
19. Oral presentation, co-presenter, University System of Georgia, System Office, Atlanta, **2018**, “University of West Georgia, STEM Education Enhancement Plan”
18. Oral presentation, invited speaker, SERMACS, **2017**: “Creating safe mini-laboratory activities to engage non-science majors in a chemistry course: How chemistry of art can help in the context of an experiential learning curriculum”
17. Poster presentation, Southeast Regional Robert Noyce Conference, **2017**: “Enriching University of West Georgia Pre-service Teachers Preparations through School and Community Partnerships”
16. Poster presentation, UTeach Annual Meeting, **2017**: “Developing and sustaining relationships with K-12 school partners: What can UTeach do for you?”
15. Oral presentation, MARM 2016, “Engaging students with chemistry and art hands-on activities in a large enrollment course for non-science majors”, **2016**.
14. Poster presentation, Southeast Regional Robert Noyce Conference, **2016**: “Noyce at UWG”
13. Oral presentation, eCore Annual State Conference, **2016**: “Mentoring tips”
12. Oral presentation, eCore Annual State Conference, **2015**: “Tips for Student Success”
11. Oral presentation, SERMACS, **2013**, “Contextualizing chemistry with art”
10. Oral presentation, invited speaker, ACS **2013**, Indianapolis, “Enhancing undergraduate chemistry education through incorporation of art-based experiments”
9. Poster presentation, invited speaker, ACS **2013**, Indianapolis, “Enhancing undergraduate chemistry education through incorporation of art-based experiments”

8. Poster presentation, NSF-PI meeting, Washington DC, **2013**, “Chemistry and Art”
7. Oral presentation with co-presenters Dr. Harrison and Dr. Mruthinti, STEM conference, Statesboro, GA, March **2013**, “UWise”
6. Oral presentation, SERMACS, **2012**, “Engaging students with art-based activities: an NSF-TUES sponsored endeavor”
5. Poster presentation, invited presenter, Gordon conference, **2011**, “Undergraduate adventures in Art and Chemistry”
4. Oral presentation, invited speaker, ACS **2010** in San Francisco, “Art and Chemistry: A True Connection”
3. Poster presentation, SERMACS **2009**, “Art and Chemistry: A True Connection”.
2. Poster and oral Communication, ANORCQ (Anglo-Norman Organic Chemistry Colloquium), **1999**: “Grignard Reagents in the Diazine Series”
1. Oral Communication, French Society of Chemistry, **1999**: “Organometallics in the Diazine Series”

Papers Read at UWG: 8 (list available upon request)

Book and book chapters: 4

4. A. Gaquere-Parker*, C.D. Parker, Textbook, “Chemistry and Art”, 2nd edition, Kendall Hunt Publisher, **2014** (1st edition in 2013).
3. A. Gaquere-Parker*, C.D. Parker, Book Chapter in “Collaborative Endeavors in the Chemical Analysis of Art and Cultural Heritage Materials”: Bridging the Gap of Art and Chemistry at the Introductory Level, **2012**, American Chemical Society Symposium series.
2. A. Gaquere-Parker*, C.D. Parker, Book Chapter in “Sonochemistry: Theory, Reactions, Syntheses and Applications”: Application of ultrasounds to carbon nanotubes, Editor: Filip Nowak, Novapublishers, **2010**.
1. A. Gaquere-Parker*, C.D. Parker, Book Chapter in “Sonochemistry: Theory, Reactions, Syntheses and Applications”: Use of ultrasonication in the production and reaction of C₆₀ and C₇₀ fullerenes, Editor: Filip Nowak, Novapublishers, **2010**.

Journal Articles Published with work done at UWG: 10

10. L. Ajith DeSilva, Madhavi Thakurdesai, T. M. W. J. Bandara, Joshua Preston, Wyatt Johnson, Anne Gaquere-Parker and Smita Survase, *Appl. Phys. A*, **2018**, 124-314: Synthesis of dense TiO₂ nanoparticle multilayers using spin coating technique.
9. Anne Gaquere-Parker*, Tamera Taylor, Raihaanah Hutson, Aubrey Folds, Ciara Sutton, Ashley Rizzo, *Ultrasonics Sonochemistry*, **2018**, 41, 404–409: Low frequency ultrasonic-assisted hydrolysis of starch in the presence of alpha-amylase.
8. L. Ajith DeSilva, J. Harwell, A. Gaquere-Parker, A. G. U. Perera and K. Tennakone, *Physica Status Solidi A*, **2017**, 1700520: Thin Films of Copper (I) Iodide Doped with Iodine and Thiocyanate.
7. L. Ajith DeSilva*, P. K. D. D. P. Pitigala, A. Gaquere-Parker, R. Landry, J. E. Hasbun, V. Martin, T. M. W. J. Bandara, A. G. U. Perera, *J. Mater. Sci.: Mater. Electron.* **2017**, 28, 7724-7729: Broad absorption natural dye (Mondo-Grass berry) for dye sensitized solar cell.
6. Anne C. Gaquere-Parker*, Patricia S. Hill, Michael P. Haaf, Cass D. Parker, N. Allie Doles, Amanda K. Yi, Todd A. Kaminski, *J. Chem. Educ.*, **2017**, 94, 235-239: Pigment Synthesis for the Exploration of Binding Media Using a Lead-Free Alternative to Chrome Yellow.
5. Anne Gaquere-Parker*, N. Allie Doles, Cass D. Parker, *J. Chem. Ed.*, **2016**, 93, 152-153: Chemistry and Art in a Bag: An Easy-To-Implement Outreach Activity Making and Painting with a Copper-Based Pigment.
4. J. Brett Kimbrell, Christopher M. Crittenden, Walter J. Steward, Farooq A. Khan, A.C. Gaquere-Parker and D. A. Stuart*, *Nanoscience Methods*, 3, 1, **2014**, 40-46: Analysis of mixtures of C₆₀ and C₇₀ by Raman Spectrometry.
3. William Livernois, Christopher M. Crittenden, J. Brett Kimbrell, Farooq A. Khan, Anne C. Gaquere-Parker, and Douglas A. Stuart*, *Chem. Educator*, **2014**, 19, 1–6: Raman Spectroscopy of Allotropes of Carbon: An Undergraduate Laboratory.
2. A. Gaquere-Parker*, K. Lawson, M. Logue, K. Sutton, C. Richardson and S. Gant, *Chem. Educator*, **2011**, 16, 1–4: Heat of combustion and GC-MS of regular, regular-plus and premium gasoline: An undergraduate experiment.
1. A. Gaquere-Parker*, A. Ahmed, T. Isola, B. Marong, C. Shacklady, P. Tchoua, *Ultrasonics Sonochemistry*, **2009**, 16, 698-703: Temperature effect on an ultrasound-assisted paper de-inking process.

Published work prior to UWG: Six peer-reviewed journal articles (in the field of Chemistry) are available upon request.

GRANTS (Total External Funds: ~\$4,240,000)

External Grants Funded as Principal Investigator: 11 (total: ~\$793,000)

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| 11. | Public Diplomacy Section, U.S. Embassy Tashkent | \$188,000 | 2024-2025 |
| | Connecting Georgia and Uzbekistan: A Distinctive Leadership Development and Engagement Experience at the University of West Georgia. Awarded but rescinded. | | |
| 10. | Public Diplomacy Section, U.S. Embassy Tashkent | \$250,000 | 2022-2023 |
| | Connecting Atlanta And Uzbekistan: Youth Leadership Development Program | | |
| 7-9: | University System of Georgia Textbook Mini grants (3 of them) | \$14,000 | 2020-2022 |
| 6. | University System of Georgia Textbook grant | \$20,800 | 2019-2020 |
| | Transforming Survey of Chemistry I, co-PIs: V. Geisler, F. Khan, D. Stuart | | |
| 2-5. | Teacher's Quality grant (3 of them) | \$157,000 | 2013- 2016 |
| | Professional Development for STEM Teachers: Chemistry and Art | | |
| 1. | NSF-TUES, PI: Anne Gaquere | \$162,938 | 2011-2013 |
| | Enhancing Undergraduate Chemistry Education through Incorporation of Art-based Experiments | | |

Sub-Awards: Three subaward grants from NSF to design and lead Chemistry and Art training workshops for University Chemistry Professors recruited nationally (2014 – 2016)

External Grants Funded as co-PI/collaborator: 6 (TOTAL: > ~\$3,400,000)

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| 6. | University System of Georgia, STEM Initiative IV, PI: S. Gordon, co-PIs: S. Carmack, K. Carter, A. Gaquere-Parker, R. Johnson, C. Leach, K. Shin, S. Sykes
Targeted Interventions in Pre-Calculus and Calculus I, Complementary Mathematical Instruction (CMI) | \$150,000 | 2019-2022 |
| 5. | NSF- Noyce, PI: Dianne Hoff , co-PI: Anne Gaquere-Parker and Jennifer Edelman
A Post Baccalaureate STEM Teacher Preparation Program for High-Needs Schools in the West Georgia Region and Beyond | \$927,308 | 2019-2025 |
| 4. | University System of Georgia, STEM Initiative III, PI: S. Gordon, co-PIs: S. Sykes, A. Gaquere-Parker, D. Stuart, J. Hasbun, J.H. Kang, C. Berg, M. Orsega, N. Pencoe
UWG STEM Education Enhancement Plan (SEEP) | \$120,000/year | 2016-2019 |

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| 3. | NSF-WIDER, PI: F. Khan
Wider Implementation of STEM Educational Reforms: Practices Planning Grant: Setting the Stage for Institutional Commitment to Evidence-Based Teaching and Learning | \$250,000 | 2013 |
| 2. | UTeach Implementation Grant, Collaborator,
STEM Teacher Preparation Program, PI: Dianne Hoff, Co-PIs: C. Tabit, M. Hooper | \$1,400,000 | 2011-2015 |
| 1. | BOR STEM II initiative, Collaborator
University of West Georgia Institutional STEM Excellence (UWISE), PI: Myrna Gantner, Co-PI: S. Swamy Mruthinti | \$344,058 | 2011-2012 |

External Grants, submitted but not funded: 30, Internal Grants, funded: > 40

SELECTED EXAMPLES OF COMMITTEE SERVICE

Committee and sub-committees: >40, listing the most relevant ones to this application below:

10. High Impact Practice Committee, **2021-present**
9. Global Studies Committee, **2020-2021**
9. Master of Interdisciplinary Studies Committee, **2019**
8. International Programs Sub-Committee of the Enrollment Management Committee (co-chair with Paul Sargent), **2016**
7. International Program Director Search Committee, **2016**
6. Study Abroad Committee, **2015-2021**
5. Enrollment Management Committee, **2015-2017**
4. University Budget Committee, **2015-2019**
3. Provost Faculty Advisory Committee, **2014-2016**
2. International Programs and Services Taskforce Committee, **2011**
1. Big Night Committee (Annual Student Research Award Event), **2011-2013**