

Kramer CV
Curriculum Vitae

Dr. Wolfgang H. Kramer

Professor of Chemistry and Biochemistry
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EMPLOYMENT

2018- Department Chair, Department of Chemistry and Biochemistry, Millsaps College, USA
2014- Professor of Chemistry and Biochemistry – Millsaps College, USA
2014- Affiliate Faculty, University of Mississippi, Medical Center, Department of Cell and Molecular Biology, USA
2009 Associate Professor of Chemistry and Biochemistry – Millsaps College, USA
2003 Assistant Professor of Chemistry and Biochemistry – Millsaps College, USA
2003 Faculty and Research Associate – Arizona State University, USA
2001 Research Associate – Arizona State University, USA
1996 Teaching Assistant – University of Cologne, Germany

EDUCATION

Doctorate in Organic Chemistry (Dr. rer. nat.), University of Cologne (Köln), Germany, 2000 ("summa cum laude")
Dissertation: Memory of Chirality via Triplet-1,7-biradicals: Diastereo- and enantioselective Synthesis of Pyrrolo[1,4]-benzodiazepines through Decarboxylative Photocyclization of Anthranilic Acid Building Blocks
Advisor: Prof. Axel G. Griesbeck (Committee Members: Prof. Schmalz, Prof. Wesemann)
Dipl. Chemist (M.S.), University of Cologne (Köln), Germany, 1996
Diplom Thesis: Synthesis and Photochemistry of N-protected, C-activated α -Amino Acids
Advisor: Prof. Axel G. Griesbeck
cand. Chemist, University of Cologne (Köln), Germany, 1993

TEACHING EXPERIENCE

Millsaps College (Since 2003)

General Chemistry I and II, General Chemistry Laboratory I and II
Organic Chemistry I and II, Organic Chemistry Laboratory I and II
Biochemistry I and II, Biochemistry Laboratory
Advanced Organic Chemistry
Organic Spectral Analysis
Environmental Chemistry and Laboratory
Pharmacology/Medicinal Chemistry
SuperScience (Science for Non-Majors)
Special Topics in Chemistry
Literature in Chemistry (Senior Seminar)

Arizona State University (Spring 2003)

CHM 231 in Spring 2003, Organic Chemistry for non-majors
Review Sessions and Office Hours for CHEM 331, Organization of Weekly Quizzes
Supervising undergraduates

University of Cologne (1998-2000)

Semester course `Elementary Organic Chemistry` for Medicine and Biology students, 3 hours a week
Semester Laboratory course `Organic Chemistry` for Medicine and Biology students
Supervising undergraduates

RESEARCH EXPERIENCE

Postdoctoral Studies at Arizona State University, Irreversible Photooxidants, Synthesis, Spectroscopy and Applications of DNA cleaving compounds, 2001-2003 (Mentor: Ian R. Gould)
Ph.D. thesis research, Synthesis of photochemically active compounds, Amino Acid Chemistry, Photochemistry of Donor-Acceptor Pairs, Electron Transfer (Mentor: Axel G. Griesbeck)
Diploma Thesis, Amino Acid Coupling Reactions, Photochemistry (Mentor: Axel G. Griesbeck)
Research Laboratory Course, Synthesis of Precursors of Corrophycen

ACADEMIC ACTIVITIES

Researcher DFG-Project `Photochemie: Aminosäuren` 1995-1999
Lab Assistant: Training of Biology and Medicine Students 1998-1999, University of Cologne
Education Supervisor, Coordination of the Training of Biology and Medicine Students, 3 Hours per Week Class Teaching 1999-2000, University of Cologne
Director of the Honors Program, Millsaps College, 2012-15
Committee Service at Millsaps College: All College Council, Student Affairs, International Studies, Faculty Development (Chair), Faculty Council, Recruitment, Environmental issues, Strategic Planning and Recruitment, Modern Language Task Force, Grievance

PROFESSIONAL SERVICE

Organization of Professional Conferences

Member of Local Organizing Committee: 15. Vortragstagung der GDCh-Fachgruppe Photochemie, Köln (Germany), 19.-21. November 1997
Member of Local Organizing Committee: 13th Winter Conference of the Inter-American Photochemical Society, Tempe, AZ, USA, Jan 2nd-5th 2002
Member of the Organizing Committee: 19th International Symposium on Chirality (Chirality 2007), San Diego, Ca (USA), July 8-11, 2007
Member of the Organizing Committee: 40th Annual Southeastern Regional American Chemical Society Undergraduate Research Conference (SURC), Clinton, MS, Mississippi College, April 4, 2008.
Member of the Organizing Committee (Vice Chair) of the Chemistry and Chemical Engineering section 76nd Annual Mississippi Academy of Sciences Meeting, Hattiesburg, MS (USA) February 22-23, 2012
Organizer (Division Chair) of the Chemistry and Chemical Engineering section of the 77nd Annual Mississippi Academy of Sciences Meeting, Hattiesburg, February 21-22, 2013
Organizer (Co-Chair) of the Annual Mississippi Biophysical Consortium Meeting at Millsaps College, June 5-6 2014
Organizer (Co-Chair) of the Annual Mississippi Biophysical Consortium Meeting at Millsaps College, May 25-26 2017

Manuscript Reviewer

Served as a peer-reviewer of manuscripts for the following professional journals:
Journal of Organic Chemistry, Journal of Chemical Education, Journal of Physical Organic Chemistry, Journal of Photochemistry and Photobiology B: Biology, Croatia Chemica Acta

GRANTS and AWARDS

Kurt Alder Award 2001, outstanding Ph.D. thesis 2000, University of Cologne, Germany
Faculty Development Grants, Millsaps College, 2004/5, 2005/6, 2009/10, 2012/13, 2013/14
Hearin Grant, Millsaps College, Summer 2004
MFGN NIH-INBRE (2006-2009), PUI, 3 years at ~\$176,000 per year, direct and indirect costs
MFGN NIH-INBRE (2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017), PUI, SEED grant 1 year, ~\$63,000, direct and indirect costs
MFGN NIH-INBRE (2018, 2020, 2022), Curriculum Development Grant, 1 year, \$25,000 direct costs
MFGN NIH-INBRE (2023-25), Project Development Grant, 2 years, \$140,000 direct costs
NIH (Major research instrumentation), "Acquisition of X-ray Diffraction Instrumentation" at Mississippi College, Senior Personnel
Mississippi Academy of Science (MAS), outstanding Scientific Division Chair, 2013
Distinguished Professor Award, Millsaps College, 2014

**United Methodist Church, General Board of Higher Education Ministry's Exemplary Teacher Award, 2014
Higher Education Appreciation Day, Working for Academic Excellence (HEADWAE), Outstanding Faculty
Honoree 2014**

Sabbatical Award 2015/16, Millsaps College

Faculty Mentor Award 2019, Mississippi Academy of Sciences

PUBLICATIONS

- 1.) "Synthesis of Medium- and Large-Ring Compounds Initiated by Photochemical Decarboxylation of ω -Phthalimido Alkylcarboxylates"
A. G. Griesbeck, A. Henz, W. Kramer, J. Lex, F. Nerowski, M. Oelgemöller, K. Peters, E.-M. Peters
Helvetica Chim. Acta, **1997**, 80, 912-933.
- 2.) "Selectivity of Primary (Singlet) and Secondary (Triplet) Norrish II Reactions"
A. G. Griesbeck, A. Henz, W. Kramer, P. Wamsler, K. Peters, E.-M. Peters
Tetrahedron Lett. **1998**, 39, 1549-1552.
- 3.) "Photochemistry of N-Phthaloylcysteine, its Methyl Ester, and C-unprotected S-Alkyl Derivatives"
A. G. Griesbeck, J. Hirt, W. Kramer, P. Dallakian
Tetrahedron **1998**, 54, 3169-3180.
- 4.) "Photochemical Macrocyclization: Synthesis of Lactones, Lactames, Ethers and Thioethers"
M. Oelgemöller, A. G. Griesbeck, W. Kramer, F. Nerowski
J. Inf. Rec. **1998**, 24, 87-94.
- 5.) "Synthetic Potential of the PET-Decarboxylation of ω -Phthalimido Carboxylic Acids"
W. Kramer, A. G. Griesbeck, F. Nerowski, M. Oelgemöller
J. Inf. Rec. **1998**, 24, 81-85.
- 6.) "Radical Chemistry in Water: Inter- and Intramolecular Photoinduced Decarboxylations"
A. G. Griesbeck, W. Kramer, M. Oelgemöller
Green Chemistry **1999**, 205-207.
- 7.) "New Tools in Synthesis: Synthetic Applications of Photoinduced Electron Transfer Decarboxylation Reactions"
A. G. Griesbeck, W. Kramer, M. Oelgemöller
Synlett **1999**, 1169-1178.
- 8.) "Photochemical Synthesis of [1,4]-Benzodiazepines and Pyrrolo-[1,4]-benzodiazepines"
W. Kramer, A. G. Griesbeck
J. Inf. Rec. **2000**, 24, 81-85.
- 9.) "Crystal Structure of (S)-3-(3,4-Dimethoxyphenyl)-2-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)-propionic acid methyl ester hydrate"
K. Peters, E.-M. Peters, A. G. Griesbeck, W. Kramer
Z. Kristall **2000**, 215, 227-228.
- 10.) "Crystal Structure of (10bSR, 11RS)-10b-Hydroxy-11-phenyl-10b, 11-dihydro-isoindolo[2,1-a]indol-6-one"
J. Lex, A. G. Griesbeck, W. Kramer
Z. Kristall **2000**, 215, 451-452.
- 11.) "Chiralitätserinnerung ueber Triplett-1,7-Biradikale: Diastereo- und enantioselektive Synthese von Pyrrolo[1,4]-benzodiazepinen durch decarboxylierende Photocyclisierung von Anthranilsäurebausteinen"
W. Kramer
Dissertation **2000**, Universität zu Köln.
- 12.) "Chiralitätserinnerung bei Triplett-1,7-biradikalen: Diastereo- und enantioselektive Synthese von Pyrrolo[1,4]-benzodiazepinen durch decarboxylierende Photocyclisierung von Anthranilsäurebausteinen"
A. G. Griesbeck, W. Kramer, J. Lex
Angew. Chem. **2001**, 113, 585-589.
Angew. Chem. Int. Ed. **2001**, 40, 577-579.
- 13.) "Photocyclization of 2-Azabicyclo[3.3.0]octane-3-carboxylate Derivatives: Induced and Non-Induced Diastereoselectivity"
A. G. Griesbeck, W. Kramer, A. Bartoschek, H. Schmickler
Org. Lett. **2001**, 3, 537-539.
- 14.) "Laser Flash Photolysis Study of Sulfur-and Carboxy-substituted Phthalimides"
H. Goerner, A. G. Griesbeck, T. Heinrich, W. Kramer, M. Oelgemöller
Chemistry: Eur. J. **2001**, 7, 1530-1538.
- 15.) "Synthesis of 1,4-Benzodiazepines via Photoinduced Decarboxylation of N-Phthaloyl-anthranilic acid amides"
Axel G. Griesbeck, Wolfgang Kramer, Johann Lex
Synthesis: Special Issue **2001**, 1159-1166.
- 16.) "Photocyclization of N-Phthaloyl Anthranilic Amides Coupled to ω -Amino Acids With Increasing Chain Lengths"
Axel G. Griesbeck, Wolfgang Kramer, Thomas Heinrich und Johann Lex
Photochem. Photobiol. Sci. **2002**, 1, 237-239.
- 17.) "Kinetics of Reductive N-O Bond Fragmentations. The Role of Conical Intersections."
Edward D. Lorange, Wolfgang H. Kramer, Ian R. Gould
J. Am. Chem. Soc. **2002**, 124, 15225-15238.
- 18.) "A Novel Selective Solid State Photooxidant"
Tracy L. Morkin, Nicholas J. Turro, Mark H. Kleinman, Cheyenne S. Brindle, Wolfgang H. Kramer, Ian R. Gould
J. Am. Chem. Soc. **2003**, 125, 14917-14924. Morkin, T. L.; Turro, N. J.; Kleinman, M. H.; Brindle, C. S.; Griffiths, K.; Kramer, W. H.; Gould, I. R.; *J. Am. Chem. Soc.* **2004**, 126(7), 2257.
- 19.) "Barrierless Electron Transfer Bond Fragmentation Reactions."

Edward D. Lorance, Wolfgang H. Kramer, Ian R. Gould
J. Am. Chem. Soc. **2004**, *126*, 14071-14078.

- 20.) "The same and not the same: Chirality, Topicity, and Memory of Chirality"
 Wolfgang H. Kramer, Axel G. Griesbeck
J. Chem. Edu. **2008**, *85* (5), 701-9.
- 21.) "Synthetic Photochemistry of Naphthalimides and related Compounds"
 Michael Oelgemöller, Wolfgang H. Kramer
J. Photochem. Photobiol. C **2010**, *11*(4), 210-244.
- 22.) "Synthesis, structure, and two polymorphs of 4-((1,3-dioxoisindolin-2-yl)methyl)-1-methoxy-pyridinium tetrafluoroborate."
 Edward J. Valente, Emily H. Stewart, James. P. McVaugh, Wolfgang H. Kramer
J. Chem. Cryst. **2011**, *41*(1), 48-52.
- 23.) "Characterization of diadzein-hemoglobin binding using optical spectroscopy and molecular dynamics simulations"
 Bidisha Sengupta, Sandipan Chakraborty, Maurice Crawford, Jasmine M. Taylor, Laura E. Blackmon, Pradip K. Biswas, Wolfgang H. Kramer
Int. J. Biol. Macromol. **2012**, *51*(3), 250-8.
- 24.) "Structural and Hydrodynamic Analysis of a Novel Drug Delivery Vector: ELP[V5G3A2-150]"
 Daniel F. Lyons, Vu Le, Gene L. Bidwell III, Wolfgang H. Kramer, Edwin A. Lewis, Drazen Raucher, John J. Correia
Biophys. J. **2013**, *104*, 1-13.
- 25.) "The effect of basic cell penetrating peptides on the structural, thermodynamic and hydrodynamic properties of a novel drug delivery vector: ELP[V5G3A2-150]"
 Daniel F. Lyons, Vu Le, Wolfgang H. Kramer, Gene Bidwell, Edwin A. Lewis, Drazen Raucher, and John J. Correia
Biochemistry **2014**, *53*(6), 1081-1091.
- 26.) "N-Alkoxyheterocycles As Irreversible Photooxidants"
 Zofia M. Wosinska, Faye L. Stump, Rajeev Ranjan, Edward D. Lorance, GeNita N. Finley, Priya P. Patel, Muzamil A. Khawaja, Katie L. Odom, Wolfgang H. Kramer, Ian R. Gould
Photochem. Photobiol. **2014**, *90*(2), 313-328.
- 27.) "Effects of Doxorubicin on the Liquid-Liquid Phase Change Properties of Elastin-Like Polypeptides"
 Valeria Zai-Rose, Savannah J. West, Wolfgang H. Kramer, G. Reid Bishop, Edwin A. Lewis, John J. Correia
Biophys. J. **2018**, *115*(8), 1431-1444.
- 28.) "Awakening a Molecular Mummy: The Inter- and Intramolecular Photochemistry of Pyromellitic Diimides with Alkyl Carboxylates."
 Wolfgang H. Kramer, Donya Razinoubakht, Gurjit Kaur, Axel Klein, Simon Garbe, Joerg Neudoerfl, Sabrina Molitor, Anne Zimmer, Axel G. Griesbeck
Photochem **2022**, *2*, 717-732.

CONFERENCE PRESENTATIONS

- 1.) "Photochemical Macrocyclization"
 A. G. Griesbeck, M. Oelgemöller, A. Henz, W. Kramer, F. Nerowski
XVIIth IUPAC Symposium on Photochemistry, Helsinki (Finland), 21.-26. July 1996.
- 2.) "Photochemical Activation of Amino Acids: Synthesis of Macrocyclic Systems"
W. Kramer, M. Oelgemöller, A. G. Griesbeck, J. Hirt, F. Nerowski
Joint Meeting of the French, German and Swiss Sections of EPA, Konstanz (Germany), 30. September-1. Oktober 1996.
- 3.) "Photochemical Macrocyclization: Synthesis of Lactones, Lactames and Macrocyclic Polyethers"
M. Oelgemöller, A. G. Griesbeck, A. Henz, W. Kramer, F. Nerowski
XXIIth International Symposium on Macrocyclic Chemistry, Seoul (Southkorea), 3.-8. August 1997.
- 4.) "Photochemische Macrocyclisierung: Synthese von Lactonen, Lactamen und macrocyclischen Polyethern"
W. Kramer, A. G. Griesbeck, F. Nerowski, M. Oelgemöller
26. GDCh-Hauptversammlung und 100-Jahrfeier der GÖCh, Wien (Austria), 7.-11. September 1997.
- 5.) "Synthesepotential der PET-Decarboxylierung von ω -Aminocarbonsäuren"
W. Kramer, A. G. Griesbeck, F. Nerowski
15. Vortragstagung der GDCh-Fachgruppe Photochemie, Köln (Germany), 19.-21. November 1997.
- 6.) "Photochemistry of N-Phthaloyl ω -Amino Acids and ω -Amino Thioethers"
M. Oelgemöller, A. G. Griesbeck, W. Kramer
Joint Meeting of the German, Austrian and Italian Sections of EPA, Badgastein (Austria), 1.-5. March 1998.
- 7.) "Synthetic Applications of the PET-Decarboxylation of ω -Phthalimido Carboxylic Acids"
W. Kramer, A. G. Griesbeck, F. Nerowski
XVIIth IUPAC Symposium on Photochemistry, Sitges (Barcelona, Spain), 19.-24. July 1998.
- 8.) "PET-Macrocyclization of Phthalimido-Donor-Couples"
W. Kramer, A. G. Griesbeck, M. Oelgemöller
XXIIIth International Symposium on Macrocyclic Chemistry, Bellaterra (Barcelona, Spain), 18.-23. July 1999.
- 9.) "Photochemische Synthese von [1,4]-Benzodiazepinen und Pyrrolo-[1,4]-benzodiazepinen"
W. Kramer, A. G. Griesbeck
16. Vortragstagung der GDCh-Fachgruppe Photochemie, Muenchen (Germany), 11.-13. Oktober 1999.
- 10.) "Photochemical Synthesis of [1,4]-Benzodiazepines and Pyrrolo-[1,4]-benzodiazepines"
W. Kramer, A. G. Griesbeck
EPA Graduate Student Symposium 2000, Fribourg (Switzerland), 24.-26. February 2000.
- 11.) "Photochemical Modification and Transformation of Amino Acids into Conformationally Constrained Derivatives"
A. G. Griesbeck, H. Heckroth, W. Kramer, F. Nerowski, M. Oelgemöller
XVIIIth IUPAC Symposium on Photochemistry, Dresden (Germany), 22.-27. September 2000.

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- 12.) "Photochemical Synthesis of [1,4]-Benzodiazepines and Pyrrolo-[1,4]-benzodiazepines"
W. Kramer, A. G. Griesbeck
The 2000 International Chemical Congress of Pacific Basin Societies (Pacifichem 2000 Conference), Honolulu, Hawaii (USA), 14.-19. December 2000.
- 13.) "Memory of Chirality: Diastereo- and Enantioselective Photochemical Synthesis of [1,4]-Benzodiazepines and Pyrrolo-[1,4]-benzodiazepines via Triplet-1,7-biradicals"
W. Kramer, A. G. Griesbeck
Photochirogenesis, 1st International Symposium on Asymmetric Photochemistry, Osaka (Japan), 4.-6. September 2001.
- 14.) "Photodecarboxylierung von w-Phthalimidoalkylcarboxylaten: eine effiziente Methode zur Synthese von Pyrrolizidinen, macrocyclischen Lactonen und Lactamen und Benzodiazepinen"
A. G. Griesbeck, T. Heinrich, W. Kramer, F. Nerowski
17. Vortragstagung der GDCh-Fachgruppe Photochemie, Wuerzburg (Germany), 2001.
- 15.) "Green Photochemistry. Radikalchemie in Wasser durch Photodecarboxylierung von ω-Imidoalkylcarboxylaten: eine effiziente Methode zur Synthese von Heterocyclen"
A. G. Griesbeck, M. Oelgemöller, T. Heinrich, W. Kramer, F. Nerowski
17. Vortragstagung der GDCh-Fachgruppe Photochemie, Wuerzburg (Germany), 2001.
- 16.) "Chiralitätserinnerung bei der Photocyclisierung von Triplet-1,7-Biradikalen: Diastereo- und Enantioselective Synthese von 1,4-Benzodiazepinen und Pyrrolo[2,1-c]-1,4-benzodiazepinen durch Photocyclisierung"
A. G. Griesbeck, W. Kramer, J. Lex, A. Bartoscheck
17. Vortragstagung der GDCh-Fachgruppe Photochemie, Wuerzburg (Germany), 2001.
- 17.) "Memory of Chirality: Diastereo- and Enantioselective Photochemical Synthesis of [1,4]-Benzodiazepines and Pyrrolo-[1,4]-benzodiazepines via Triplet-1,7-biradicals"
Wolfgang H. Kramer, A. G. Griesbeck
13th Winter Conference of the Inter-American Photochemical Society, Tempe, AZ (USA), January 2nd-5th 2002.
- 18.) "Irreversible Photochemistry with N-Alkoxy Heteroaromatics"
Wolfgang Kramer, Ian R. Gould
13th Winter Conference of the Inter-American Photochemical Society, Tempe, AZ (USA), January 2nd-5th 2002.
- 19.) "Charge-Transfer Reduction and Fragmentation of N-Methoxy Heteroaromatic Systems"
Edward D. Lorange, Wolfgang H. Kramer, Kristin A. Hendrickson, Ian R. Gould
13th Winter Conference of the Inter-American Photochemical Society, Tempe, AZ (USA), January 2nd-5th 2002.
- 20.) "Photochemistry of N-Alkoxyheteroaromatics: Irreversible Photooxidants"
Wolfgang H. Kramer, Ian R. Gould
15th Winter Conference of the Inter-American Photochemical Society, Tempe, AZ (USA), January 1st-4th 2004.
- 21.) "Irreversible Photooxidation Using N-Substituted Heteroaromatic Systems"
Wolfgang H. Kramer*, Ian R. Gould
68th Annual Meeting, Mississippi Academy of Sciences, Biloxi, MS (USA), February 19th-20th, 2004
- 22.) "Irreversible Photooxidation Using N-Substituted Heteroaromatic Systems"
Wolfgang H. Kramer*, Jason A. Fisher, Ian R. Gould
16th Winter Conference of the Inter-American Photochemical Society, Clearwater Beach, FL (USA), January 6st-9th 2005.
- 23.) "Irreversible Photooxidation Using N-Substituted Heteroaromatic Systems"
 Jason A. Fisher, Wolfgang H. Kramer*, Ian R. Gould
69th Annual Meeting, Mississippi Academy of Sciences, Oxford, MS (USA), February 17th-18th, 2005.
- 24.) "Design of an efficient DNA Cleaving Reagent"
David T. Cutter, B. W. Curry, Tiffany R. Hammond, Derek I. Beausshaw, Amanda C. Mayo, Wolfgang H. Kramer*
The 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005 Conference), Honolulu, Hawaii (USA), 15.-20. December 2005.
- 25.) "Design of a Photoactivated DNA Cleaving Agent"
Wolfgang H. Kramer*, B. W. Curry, David T. Cutter, Tiffany R. Hammond, Derek I. Beausshaw, Amanda C. Mayo
70th Annual Meeting, Mississippi Academy of Sciences, Vicksburg, MS (USA), February 22th-24th, 2006.
- 26.) "Design of a Photoactivated DNA Cleaving Agent using Saccharomyces cerevisiae as an in vivo and in vitro System"
Wolfgang H. Kramer*, B. W. Curry, David T. Cutter, Tiffany R. Hammond, Derek I. Beausshaw, Amanda C. Mayo, Neha S. Solanki, Emily H. Stewart, Andrew S. Olinger
SERYM (Southeastern Regional Yeast Meeting), Hattiesburg, MS (USA), April 1st-2nd 2006.
- 27.) "Synthesis, Photochemistry and Photophysics of Nitrogen Onium Salts and their Photobiological Impact on DNA and Saccharomyces cerevisiae"
Wolfgang H. Kramer*, B. W. Curry, Emily H. Stewart, Andrew S. Olinger
The First Annual MFGN/INBRE Research Symposium, Jackson, MS (USA), Millsaps College, February 3rd, 2007.
- 28.) "Synthesis of Intercalative DNA Cleaving Reagents"
Wolfgang H. Kramer*, B. W. Curry, Andrew S. Olinger, Jonathan P. Giurintano
71st Annual Meeting of the Mississippi Academy of Science, Starkville, MS (USA), February 21.-23. 2007.
- 29.) "Photochemical Synthesis of novel Pyrrolo-[1,4]-benzodiazepines involving a Memory of Chirality Effect via a Triplet 1,7-Biradical"
Wolfgang H. Kramer*, Axel G. Griesbeck
19th International Symposium on Chirality (Chirality 2007), San Diego, CA (USA), July 8-11, 2007.
- 30.) "Synthesis, Photochemistry and Photophysics of Nitrogen Onium Salts and their Photobiological Impact on DNA and Saccharomyces cerevisiae"
Wolfgang H. Kramer*, B. Woods. Curry, Jonathan P. Giurintano, Andrew S. Olinger, Irene S. R. Li, Emily H. Stewart
XXIII International Conference on Photochemistry (ICP), Cologne (Köln), Germany, 29 July - 3 August 2007.

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- 31.) "Novel Naphthalimide based Onium-Salts and their Photobiological Impact on *Saccharomyces cerevisiae*"
Wolfgang H. Kramer*, Jonathan P. Giurintano, B. Woods Curry, Irene S. Corrao, Emily H. Stewart, Andrew S. Olinger
The Second Annual MFGN/INBRE Research Symposium, Columbus, MS (USA), The Mississippi University for Women, October 6, 2007.
- 32.) "Synthesis, Photochemistry and Photophysics of Nitrogen Onium Salts and their Photobiological Impact on *Saccharomyces cerevisiae*"
Jonathan P. Giurintano, B. Woods Curry, Irene S. Corrao, Emily H. Stewart, Andrew S. Olinger, Wolfgang H. Kramer*
18th Winter Conference of the Inter-American Photochemical Society, St. Petersburg, FL (USA), January 3-6, 2008.
- 33.) "Naphthalimide linked onium salts and their photochemistry and photobiological impact on *Saccharomyces cerevisiae*"
Wolfgang H. Kramer*, Jonathan P. Giurintano, B. Woods Curry, Irene S. Corrao, Emily H. Stewart, Andrew S. Olinger
235th American Chemical Society National Meeting & Exposition, New Orleans, La, April 6-10, 2008.
- 34.) "Intramolecular Fluorescence Quenching in Bifunctional 1,8-Naphthalimides"
Wolfgang H. Kramer, Irene S. Corrao, B. Woods Curry
XXII IUPAC Symposium on Photochemistry 2008, Gothenburg, Sweden, July 28- August 1 2008
- 35.) "Intramolecular Fluorescence Quenching in Bifunctional 1,8-Naphthalimides"
Wolfgang H. Kramer, Irene S. Corrao, B. Woods Curry
National IDeA Symposium of Biomedical Research Excellence (NISBRE), Washington, DC, August 6-8, 2008.
- 37.) "Synthesis, Photochemistry and DNA Binding Properties of Naphthalimide linked Nitrogen Onium Salts"
Wolfgang H. Kramer, Emily H. Stewart, Irene S. Corrao, B. Woods Curry
The Third Annual Research Symposium/INBRE EAC Meeting, Vicksburg, MS, January 23, 2009.
- 36.) "Photochemistry and DNA Binding Properties of Novel Imide based Onium Salts"
Wolfgang H. Kramer, Irene S. Corrao, B. Woods Curry
19th Winter Conference of the Inter-American Photochemical Society, St. Pete Beach, FL (USA), January 2nd-5th 2009.
- 37.) "Synthesis, Photochemistry and DNA Binding Properties of Naphthalimide linked Nitrogen Onium Salts"
Wolfgang H. Kramer, Emily H. Stewart, Irene S. Corrao, B. Woods Curry
The Third Annual Research Symposium/INBRE EAC Meeting, Vicksburg, MS, January 23, 2009.
- 38.) "Synthesis, Photochemistry and DNA Binding/Cleaving Properties of Bifunctional Onium Salts"
Wolfgang H. Kramer, Emily H. Stewart, Irene S. Corrao, GeNita N. Finley, B. Woods Curry, Anna K. Allred, Malika S. Shettar, M. Victoria Purvis, Jeral P. Self
20th Winter Conference of the Inter-American Photochemical Society, St. Pete Beach, FL (USA), January 2-5, 2010.
- 39.) "N-Substituted 1,8-Naphthalimides as Fluorescence Probes"
Wolfgang H. Kramer, Emily H. Stewart, Irene S. Corrao, B. Woods Curry
74nd Annual Meeting, Mississippi Academy of Sciences, Hattiesburg, MS (USA) February 11-12, 2010.
- 40.) "Applications of Photoinduced N-O Bond Cleavage in Nitrogen Onium Salts"
Wolfgang H. Kramer, Emily H. Stewart, Irene S. Corrao, GeNita N. Finley, B. Woods Curry, Malika S. Shettar, M. Victoria Purvis
3rd Annual Mississippi Biophysical Consortium Meeting, The University of Mississippi Medical Center, Jackson, MS (USA), June 2-4, 2010.
- 41.) "DNA Interactions of Bifunctional DNA-cleaving Reagents"
Wolfgang H. Kramer, Emily H. Stewart, Irene S. Corrao, GeNita N. Finley, B. Woods Curry, Malika S. Shettar, M. Victoria Purvis
66th SWRM and 62nd SERMACS, New Orleans, LA (USA), December 1-4, 2010.
- 42.) "Applications of Photoinduced N-O Bond Cleavage in Nitrogen Onium Salts "
Wolfgang H. Kramer, Emily H. Stewart, GeNita N. Finley, B. Woods Curry, Malika V. Shettar, Austin C. Baker
75nd Annual Meeting, Mississippi Academy of Sciences, Hattiesburg, MS (USA) February 17-18, 2011.
- 43.) "Applications of Photoinduced N-O Bond Cleavage in Nitrogen Onium Salts "
Wolfgang H. Kramer, Emily H. Stewart, GeNita N. Finley, B. Woods Curry, Malika V. Shettar, Austin C. Baker
Mississippi INBRE Annual Research Symposium, Hattiesburg, MS (USA) April 30, 2011.
- 44.) "Decarboxylative Photocyclization of Cationic Phthalimide and Quinoline/Isoquinoline ω -Carboxylic Acids"
Wolfgang H. Kramer, Eli A. Smith, David S. Sandlin, Andrew S. Olinger
76nd Annual Meeting, Mississippi Academy of Sciences, Hattiesburg, MS (USA) February 23-24, 2012.
- 45.) "Fluorescence Quenching of substituted 1,8-Naphthalimides"
Wolfgang H. Kramer*, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart, B. Woods Curry
68th Southwest Regional Meeting of the American Chemical Society (SWRM), Baton Rouge, LA (USA) November 4-7, 2012.
- 46.) "The Photochemistry of Bifunctional Nitrogen Onium Salts"
Wolfgang H. Kramer*, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart, B. Woods Curry
22th Winter Conference of the Inter-American Photochemical Society, Sarasota, FL (USA), January 2-5, 2013.
- 47.) "Fluorescence Quenching of substituted 1,8-Naphthalimides"
Wolfgang H. Kramer*, Eli A. Smith, David S. Sandlin, Andrew S. Olinger
77th Annual Meeting, Mississippi Academy of Sciences, Hattiesburg, MS (USA) February 21-22, 2013.
- 48.) "Bifunctional Nitrogen Onium Salts as DNAPhotocleavers"
Wolfgang H. Kramer*, Emily H. Stewart, GeNita N. Finley, B. Woods Curry, Malika V. Shettar, Austin C. Baker
Mississippi INBRE Annual Research Symposium, Hattiesburg, MS (USA) March 23, 2013.
- 49.) "Bifunctional Nitrogen Onium Salts as DNAPhotocleavers"
Wolfgang H. Kramer*, Lauren M. Hoth, Priya P. Patel, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart, B. Woods Curry
6th Annual Mississippi Biophysical Consortium Meeting, Mississippi State University, Starkville, MS (USA), May 30-31, 2013.
- 50.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart, B. Woods Curry
23th Winter Conference of the Inter-American Photochemical Society, Sarasota, FL (USA), January 2-5, 2014.

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- 51.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart,
 B. Woods Curry
Mississippi INBRE Annual Research Symposium, Hattiesburg, MS (USA) February 15, 2014.
- 52.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart,
 B. Woods Curry
78th Annual Meeting, Mississippi Academy of Sciences, Hattiesburg, MS (USA) March 6-7, **2014**.
- 53.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Melinda K. Solomon, James P. McVaugh, Emily H. Stewart,
 B. Woods Curry
NIH, NIGMS Fifth Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE), Washington, DC, June 16-18,
2014.
- 54.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Emily H.
 Stewart, B. Woods Curry
14th Southern School on Computational Chemistry and Materials Science (SSCC & MS), Jackson, MS, July 24-25, **2014**.
- 55.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Emily H.
 Stewart, B. Woods Curry
24th Winter Conference of the Inter-American Photochemical Society, Sarasota, FL (USA), January 1-4, **2015**.
- 56.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Emily H.
 Stewart, B. Woods Curry
79th Annual Meeting, Mississippi Academy of Sciences, Hattiesburg, MS (USA) February 26-27, **2015**.
- 57.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Emily H.
 Stewart, B. Woods Curry
8th Annual Mississippi Biophysical Consortium Meeting, The University of Mississippi, Oxford, MS (USA), June 3-4, **2015**.
- 58.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
 Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Leon H. Karekezi, Anna K. Allred, Irene S.
 Corrao, Emily H. Stewart, B. Woods Curry
The International Chemical Congress of Pacific Basin Societies 2015 (PacifiChem), Honolulu, Hawaii (USA), December 15-20, **2015**.
- 59.) "Photochemistry of Pyromellitic Diimides"
 Sabrina Molitor, Axel G. Griesbeck, Wolfgang H. Kramer, Donya Razinoubakht, Gurjit Kaur
The International Chemical Congress of Pacific Basin Societies 2015 (PacifiChem), Honolulu, Hawaii (USA), Dcember 15-20, **2015**.
- 60.) "N-Substituted Heteroaromatic Salts as Precursors of Reactive Species"
 Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Emily H.
 Stewart, B. Woods Curry
80th Annual Meeting, Mississippi Academy of Science, Hattiesburg, MS (USA), February 18-19, **2016**.
- 61.) "Pyromellitimide Photochemistry"
 Wolfgang H. Kramer, Donya Razinoubakht, Gurjit Kaur, Sabrina Molitor, Axel G. Griesbeck
80th Annual Meeting, Mississippi Academy of Science, Hattiesburg, MS (USA), February 18-19, **2016**.
- 62.) "Heteroaromatic Salts as Precursors of Reactive Species"
 Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, James P.
 McVaugh, Emily H. Stewart, B. Woods Curry, Ian R. Gould
NIH, NIGMS Sixth Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE), Washington, DC, June 26-29,
2016.
- 63.) "Heteroaromatic Salts as Precursors of Reactive Species"
 Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, James P.
 McVaugh, Emily H. Stewart, B. Woods Curry, Ian R. Gould
81st Annual Meeting, Mississippi Academy of Science, Hattiesburg, MS (USA), February 23-24, **2017**.
- 64.) "Heteroaromatic Salts as Precursors of Reactive Species"
 Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, James P. McVaugh,
 Emily H. Stewart, B. Woods Curry, Ian R. Gould
10th Annual Mississippi Regional Biophysical Consortium Meeting, Millsaps College, Jackson, MS (USA), May 25-26, **2017**.
- 65.) "Photochemistry of Pyromellitdiimides: Stable radical Anions in Aqueous Solution"
Wolfgang H. Kramer, Donya Razinoubakht, Gurjit Kaur, Sabrina Molitor, Axel G. Griesbeck
20th European Symposium on Organic Chemistry (ESOC), Cologne, Germany, July 2-6, **2017**.
- 66.) "Photochemistry of Pyromellitdiimides: Stable radical Anions in Aqueous Solution"
Wolfgang H. Kramer, Donya Razinoubakht, Gurjit Kaur, Sabrina Molitor, Anne Zimmer, Axel G. Griesbeck
28th International Conference on Photochemistry (ICP), Strasbourg, France, July 16-21, **2017**.
- 67.) "Photochemistry of Bifunctional Heteroaromatic Salts: Analysis of Transient Species and DNA Interactions"
Wolfgang H. Kramer*, Courtney B. Mullins, Melinda K. Solomon, Lauren M. Hoth, Anna K. Allred, Irene S. Corrao, Emily H. Stewart,
 B. Woods Curry, Ian R. Gould
82nd Annual Meeting, Mississippi Academy of Science, Hattiesburg, MS (USA), February 22-23, **2018**.
- 68.) "Overview of Projects in Group"
Wolfgang H. Kramer*
11th Annual Southeast Regional Biophysical Consortium Meeting (SRBC), Starkville, MS (USA), June 4-5, **2018**.

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- 69.) "The Photochemistry of Pyromellitimides: Stable Radical Anions In Aqueous Solution "
Wolfgang H. Kramer*, Donya Razinoubakht, Gurjit Kaur, Sabrina Molitor, Anne Zimmer, Axel G. Griesbeck
83rd Annual Meeting, Mississippi Academy of Science, Hattiesburg, MS (USA), February 21-22, 2019.
- 70.) "Photoinduced DNA-damage by Bifunctional Heteroaromatic Salts"
Wolfgang H. Kramer*, Reagan M. McGuffee, Courtney B. Mullins, Shizhe (CJ) Zhang, Lauren M. Hoth, Emily H. Stewart, Melinda K. Solomon
35th Annual Southern Biomedical Engineering Conference (SBEC), Hattiesburg, MS (USA), February 22-24, 2019.
- 71.) "Synthesis of Maleimide-linked Drugs for ELP-conjugation"
Wolfgang H. Kramer*
12th Annual Southeast Regional Biophysical Consortium Meeting (SERBC), Baton Rouge, LA (USA), June 3-4, 2019.
- 72.) "Spectroscopy of Heteroaromatic Salts: Evidence of a Powerful Photooxidant"
Wolfgang H. Kramer*, Courtney B. Mullins, Lauren M. Hoth, Melinda K. Solomon, B. Woods Curry, Ian R. Gould
84th Annual Meeting, Mississippi Academy of Science, Biloxi, MS (USA), February 20-21, 2020.
- 73.) "Spectroscopy of Heteroaromatic Salts: Evidence of a Powerful Photooxidant"
Wolfgang H. Kramer*, Courtney B. Mullins, Lauren M. Hoth, Melinda K. Solomon, B. Woods Curry, Ian R. Gould
85th Annual Meeting, Mississippi Academy of Science, Biloxi, MS (USA), August 5-6, 2021.
- 74.) "The Photochemistry of Pyromellitimides: Stable Radical Anions In Aqueous Solution "
Wolfgang H. Kramer*, Donya Razinoubakht, Gurjit Kaur, Sabrina Molitor, Anne Zimmer, Axel G. Griesbeck
86th Annual Meeting, Mississippi Academy of Science, Biloxi, MS (USA), March 31 - April 1, 2022.
- 75.) "The Photochemistry of Pyromellitimides: Stable Radical Anions In Aqueous Solution "
Wolfgang H. Kramer*, Donya Razinoubakht, Gurjit Kaur, Sabrina Molitor, Anne Zimmer, Axel G. Griesbeck
87th Annual Meeting, Mississippi Academy of Science, Biloxi, MS (USA), February 23-24, 2023.

UNDERGRADUATE STUDENT CONFERENCE PRESENTATIONS

284 presentations (90 talks and 192 posters) at local, regional, national and international conferences

For more information, please visit my webpage: <https://sites.google.com/view/wolfgangkramerresearchgroup/home>

INVITED TALKS and SEMINARS

- 1.) "Enantioselective Synthese von Pyrrolo-[1,4]-benzodiazepinen"
Degussa-Huels, Hanau (Germany), February 25th 1999.
- 2.) "Design of Novel DNA-Cleaving Agents"
December 1, 2006, The University of Southern Mississippi, Department of Chemistry and Biochemistry
Fall 2006 Seminar Series
- 3.) "Let the Wild Research Rumpus Start"
November 3, 2009, St. Andrew's Episcopal School, Ridgeland, MS
- 4.) "Potential Photodynamic Therapy Agents: Synthesis, Photophysical Properties and DNA Interactions of Nitrogen Onium Salts"
November 30, 2009, Mississippi College, Clinton, MS, Fall 2009 Seminar
- 5.) "Potential Photodynamic Therapy Agents: Synthesis, Photophysical Properties and DNA Interactions of Nitrogen Onium Salts"
December 3, 2009, University of Mississippi Medical Center, Jackson, MS, Fall 2009 Seminar
- 6.) "Potential Photodynamic Therapy Agents: Synthesis, Photophysical Properties and DNA Interactions of Nitrogen Onium Salts"
February 26, 2010, Jackson State University, Jackson, MS, Spring 2010 Seminar
- 7.) "Applications of Photoinduced N-O Bond Cleavage in Nitrogen Onium Salts"
February 11, 2011, University of Memphis, Memphis, TN, Spring 2011 Seminar
- 8.) "The Photochemistry of N-Substituted Heteroaromatic Salts"
14th Southern School on Computational Chemistry and Materials Science (SSCC&MS), Jackson, MS, July 24-5, 2014.
- 9.) "The Photochemistry of Bifunctional N-Substituted Heteroaromatic Salts"
November 9, 2015, The University of Cologne, Köln, Germany
- 10.) "Photochemistry of Bifunctional Heteroaromatic Salts: Analysis of Transient Species and DNA Interactions"
February 27th, 2018, Louisiana State University, Department of Chemistry
- 11.) "Photochemistry of Bifunctional Heteroaromatic Salts: Analysis of Transient Species and DNA Interactions"
November 2, 2018, The University of Southern Mississippi, Department of Chemistry and Biochemistry

FURTHER ACTIVITIES

ACS Workshop: Chocolate Covered Teaching: An innovative approach to using commodity-based goods to foster cross-disciplinary critical thinking skills in undergraduates, Southwestern University, Georgetown, TX, June 1 - 3, 2023.

"Photochemical Synthesis and Reaction Mechanisms at Millsaps College in Jackson, MS, USA"

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Wolfgang H. Kramer*, C. Taylor Sledge, Reagan M. McGuffee, Shizhe Zhang, Leon H. Karekezi, Deandrea C. Hawkins, Saihou Ceesay

European Photochemistry Association (EPA) Newsletter, 2017, 93, 47-49.

The National Academies Gulf Coast Summer Institute,
Louisiana State University, Baton Rouge, LA, July 22-26, 2013

Summerschool "Solare Chemie und Solare Materialforschung" (Schwerpunkt 5 der AG Solar NRW)
Köln-Porz (Gelaende der DLR, Germany) 13.-14. Oktober 1997.

Military Service, October 1989 - September 1990 as a tank driver in Koblenz, Germany

PROFESSIONAL MEMBERSHIPS and AFFILIATIONS

GDCh - German Chemist Association

Fachgruppe Photochemie - Photochemistry Group of GDCh

American Chemical Society (ACS)

Inter-American Photochemical Society (I-APS)

European Photochemist Association (EPA)

Mississippi Functional Genomics Network (MFGN)

Southeast Regional Biophysical Consortium (SRBC) – Board of Directors

Mississippi Academy of Science (MAS) – Lifetime Member

Jackson, Mississippi, USA, November 2023