

## **August Anthony Gallo**

St. John Fisher College, Rochester, NY- B.S. 1973

Vanderbilt University-Nashville, TN- Ph D. 1978

Postdoctoral Scholar- 1978-1980, Univ. California, San Francisco Medical Center- Organic Pharmaceutical Chemistry/Biochemistry

## **Employment**

2012- present: Professor Chemistry, University of Louisiana, Lafayette

2008-2012: Department Head of Chemistry, University of Louisiana- Lafayette; 4.5 years

1986-2012: Associate Professor, Dept. of Chem., University of Louisiana-Lafayette

1980-1986: Assistant Professor, Dept. of Chem., University of Louisiana-Lafayette

1997-2000: Boudreaux Regents Professor Lafayette, LA. 70504-4370

1981-2000: UL Graduate faculty

## **Organizations:**

American Chemical Society

Organic Division and Medicinal Chemistry Division of the American Chemical Society

Sigma Xi- President of the local chapter, 1996-2008

American Men and Women of Science

Outstanding Young Men of America-1984

Louisiana Academy of Sciences- Chemistry Division Chair, 1992- present

Louisiana Academy of Sciences- Treasurer, 2007-2008

Graduate Coordinator for the Chemistry Department 1993-1995

## **Publications (Selected)**

1) **Yuemin Liu**, Yucheng Liu, **August A. Gallo**, **Kathleen Knierim**, **Eric Taylor** and Nianfeng Tzeng. Performances of DFT methods implemented in G09 for simulations of dispersion-dominated CH- $\pi$  in ligand-protein complex: A case study with glycerol-GDH. *Journal of Molecular Science*, 1084 (2015) 223-228.

2) Hashim Raza Rizvi, Mohammad Jamal Khattak and **August A. Gallo**. Rheological and mechanistic characteristics of Bone Glue modified asphalt binders. *Construction and Building Materials*, **88** (2015) 64-73.

3) S.S. Massoud, A.A. Gallo, M.J. Dartz, J.G. Gautreaux, R. Vicente, J. Albering, and F.A. Mautner. Dinuclear copper (II) complexes bridged by imidazole-4,5-dicarboxylate. *Inorganic Chem. Comm.*, 2014, 43, 35-38.

4) H. R. Rizvi, M.J. Khattak, & A.A. Gallo. Bone Glue Modified Asphalt: A Step towards energy conservation and environment friendly modified asphalts. *International Conference on Civil, Offshore & Environmental Engineering Proceedings*, Hindawi Publishing Corp. 2014, <http://dx.doi.org/10.1155/2014/807043>.

5) S. Ayalasomayajula, R. Subramaniam, A.Gallo, S.Dufreche, M. Zappi, and R. Bajpai. Potential of alligator fat as a source of lipids for biodiesel production *Research.*, 2012 (51), 2166-2169.

- 6) F.A. Mautner, J.H. Albering, R. Vicente, C. Andrepont, J.G. Gautreaux, A.A. Gallo and S.S. Massoud. Synthesis, structure and magnetic investigations of polycarboxylato-copper (II) complexes. *Polyhedron*, 2013, 54, 158-163.
- 7) S. Murru, August A. Gallo, and R.S. Srivastava. Direct Synthesis of Beta-Alkyl N-Aryl Aza Baylis-Hillman Adducts via Nitroso-Ene Reaction. *Journal of Organic Chemistry*, 2012, 77(16), 7119-7123.
- 8) S.S. Massoud, R. Vicente, P.R. Fontenot, A.A. Gallo, M. Mikuriya, J. H. Albering, and F.A. Mautner. Polynuclear croconato-bridged-copper (II) complexes derived from tri- and tetradentate amines. *Polyhedron*, 2012, 46, 66-73.
- 9) S. Murru, A.A.Gallo, and R.S. Srivastava. Gold-Catalyzed Synthesis of 3-Arylindoles via Annulation of Nitrosoarenes and Alkynes. *ACS Catalysis*, 2011,1, 29-31.
- 10) S. Murru, A.A.Gallo, and R.S. Srivastava. Copper-Catalyzed Direct Synthesis of 3-Arylindoles. *Eur. J. Org. Chem.* 2011, 2035-2038.
- 11) R.S. Srivastava, R.Bertrand III, A.A.Gallo, and K.M.Nicholas. Cu(I)/Cu(II)-catalyzed allylic amination of alkenes. *Tetrahedron Letters*, 2011, 52, 3478-3480.
- 12) F.A. Mautner, J.H. Albering, E.V. Harrelson, A.A. Gallo, and S.S. Massoud. N-bonding vs. S-bonding in thiocyanato-copper (II) complexes. *J. Molecular Structure*. 2011, 1006, 570-575.
- 13) Y. Liu, A.A. Gallo, W. Xu, R. Bajpai, and J. Florian. CH... $\pi$  Interactions Do Not Contribute to Hydrogen Transfer Catalysis by Glycerol Dehydratase. *J. Phys. Chem. A*, 2011, 115 (41),11162-11166.
- 14) F.A. Mautner, F.R. Louka, A.A. Gallo, J.H. Albering, M.R. Saber, N.B. Burham, and S.S. Massoud. Thiocyanato-copper (II) complexes derived from a tridentate amine ligand and from alanine. *Transition Metal Chemistry*, 2010, (35), 613-619.
- 15) Y. Liu, A.A. Gallo, J. Florian, Y-S. Liu, S. Mora and W. Xu. QM/MM (ONIOM) Study of Glycerol Binding and Hydrogen Abstraction by the Coenzyme B12-Independent Dehydratase. *J. Phys. Chem. B*, 2010 (114), 5497-5502.
- 16)** Y. Liu, A.A. Gallo, R.K. Bajpai, A. Chistoserdov, A.T. Nelson, L.N. Segura and Wu Xu. The Diversity and Molecular Modelling Analysis of B 12-dependent and B12-independent Glycerol Dehydratase. *Int. J. Bioinformatics Research and Applications*, 2010, (6), 484-507.
- 17) F.A. Mautner, J.B. Soileau, P.K. Bankole, A.A.Gallo, & S.S.Massoud. Synthesis and spectroscopic characterization of dicyanamido-Cu (II) complexes. Part 2. Crystal Structure of the complexes of tris[2-(2-pyridylethyl)]amine, tris(2-pyridylmethyl)amine and 1,4-bis[2-(2-pyridylethyl)]piperazine. *Journal of Molecular Structure*, 2008 (889), 271-278

- 18) Q. Yuan, S. Rana, R.S. Srivastava, A. Gallo, & R.D.K.Misra: Synthesis and physicochemical response of polyethylene glycol encapsulated nickel ferrite nanoparticles. *Material Science and Technology*, 2008 (24), 361-369.
- 19) S. Rana, A. Gallo, R.S. Srivastava, & RDK Misra: On the Suitability of Ni Ferrites as a Magnetic Carrier for Drug Delivery: *Acta Biomaterialia*, 2007, 233-242.
- 20) S.S. Massoud, F. Mautner, R. Vicente, A.A. Gallo, and E. Ducasse: Dinuclear and Polynuclear Bridged Azido- Ni (II) Complexes: Synthesis, structure Determination and Magnetic Properties: *European Journal Inorganic Chem.* 2007, 1091-1102.
- 21) F. Mautner, C. Landry, A.A. Gallo, & S.S. Massoud: Molecular structure of mononuclear azido- and dicyanamido -Cu (II) complexes: *J. of Molecular Structure*, 2007, 837, 72-78.
- 22) S.S. Massoud, R. Jeanbatiste, T. Nguyen, F. Louka, and A.A. Gallo: Co (III) complexes of tripod amines. Kinetics of Aquation of Dichloro- [N-(2-aminoethyl)-N,N-bis (3-aminopropyl)amine] cobalt (III). *J. Coordination Chem.*, 2007, 2409-2419.
- 23) M.M. Sorensson, A.A. Gallo, A. Tudryn, J. Rondeleux and J. Ledet. Identification of compounds of henbit, *Lamium amplexicaule*. *Journal of Undergraduate Chemistry Research*, 2005, 1: 11-14.
- 24) M. M. Sorensson, A.A. Gallo, J. Ranney, and K. Breaux. Effect of uv-B irradiation on *Listeria monocytogenes* and *Salmonella choleraesuis* at 14 °C and at 25 °C. *Applied and Environmental Microbiology* (submitted)-2005.
- 25) M. M. Sorensson, A A. Gallo and C.C. Guillory. N-Acetyltyramine and 3,5,7-Trimethyl-4H-1,2 Diazepine Are Present In The Leaves Of American Holly, *Ilex Opaca*. *Journal of Undergraduate Chemistry Research*, 2004, 3: 157-159.
- 26) M. M. Sorensson, A.A. Gallo, J. Ranney, and K. Breaux. *Analysis of Sambucus canadensis and Achillea millefolium*. *Journal of Ethnopharmacology* (submitted, and under revision)-2008.
- 27) F. Marga, A.A.Gallo, and K.H.Hasenstein, "Cell wall components affect mechanical properties: studies with thistle flowers," *Plant Physiology and Biochemistry*, 2003, 41, 792-797.
- 28) G.A.Hogan, A.A.Gallo, K.M.Nicholas, and R.S.Srivastava, "Cu(I)-catalyzed allylic amination of olefins," *Tetrahedron Letters*, 2002, 43, 9505-9508.
- 29) F.H. Walters, A.A. Gallo, and L.C. Landry, "Discriminant Analysis of Selected Organics Evaluated as Corrosion Inhibitors in 0.5 M HCL ", *Analytical Letters*, 1990, 23, 1959-72.

- 30) A.A. Gallo, Y. Liang, and F.H. Walters, "Volatile BSTFA Derivatives of Amino Acid Hydroxamates", *Analytical Letters*, 1995, 28, 697-701.
- 31) R.D. Braun, K.J. Wiechelman, and A.A. Gallo, "Electrochemical, Chemical, and Spectrophotometric Investigation of the Cu(II) – Bicinchoninic Acid Reagent Used for Protein Measurements", *Analytica Chimica Acta*, 1989, 221,223-238.
- 32) A.A. Gallo and F.H. Walters, "Indirect Fluorescent Visualization of Amines", *Analytical Letters*, 1986, 19, 979-985.
- 33) R.E. Weiss, L. Field, A. Gorn, C. Williams, S. Dux, R. Ravichandran, A.A. Gallo, V. Eswarakrishnan, and M.E. Nimni, "Influence of Penicillamine and Various Analogues on Skin Collagen and Matrix-Induced Bone Formation in Rats", *Biochem. Medicine*, 1984, 32, 331-336.
- 34) A.A. Gallo and L. Field, "Studies in the Synthesis of a Hexafluoropenicillamine", *J. Fluorine Chemistry*, 1980, 15, 29-34.
- 35) L. Field, A.A. Gallo, F.W.J. Beck, and M.W. Whitehouse, "Lymphocyte Surface Poisons: Disulfides and Thiolsulfonates." *Chem. Biol. Interactions*, 23, 215 (1978).
- 36) G.A. Dilbeck, L. Field, A.A. Gallo and R.J. Gargiulo, "Biologically Oriented Sulfur Chemistry, 19. Synthesis and Properties of 2-amino-5-methylhexanoic Acid, a Bishomolog of Penicillamine. Use of BF<sub>3</sub>-Et<sub>2</sub>O for catalyzing Markovnikov Addition of a Thiol to an Olefin." *J. Org. Chem.*, 43, 4593 (1978).

### **Funding/Awards**

1. American Chemical Society/ Petroleum Research Foundation-" The Chemistry of Thionitrites" \$10,000 , 1981-1983.
2. Louisiana Educational Quality Support Fund (Enhancement Component)-"Purchase of a Superconducting NMR Spectrometer" \$85,000 , 1989-1990.
3. Louisiana Educational Quality Support Fund (Enhancement Component)- "Integration of Gas-Chromatography/Mass Spectroscopy into the Chemistry Curriculum" \$47,000, 1992-93.
4. BORSF-"Computer hardware and software upgrade for a JEOL WMA Spectrometer." \$38,500, 1998-1999.
5. BORSF-" Purchase of a FT-IR Spectrometer" \$35,300, 2002-2003
- 6 BOR-"Purchase of a High Performance Liquid Chromatograph" \$54,035, 2004.
7. BORSF- "Biological Screening and Chemical Analysis of Medicinal Plants found in Louisiana"- \$104,803, 2004-not funded.
8. NSF-"Creation of an Undergraduate Research Center in Chemistry at the University of Louisiana at Lafayette-\$2,700,000, 2005-not funded.
9. BORSF-"Purchase of a GC-MS system for Chemistry", co-PI, 2008-2009, \$103,000
- 10.BORSF- "Purchase of a Uv-Vis Spectrometer and Freezer" , co-PI, 2012, \$48,000.
11. UL STEP Grant: " SMART Classroom for Chemistry, Co-PI with Dr. Junk, 2013,\$30,000.

12. BORSF: "Purchase of a FT-IR Spectromete- not funded PI, 2013-14, \$31,940.
13. BORSF: Integration of Fluorescence Spectroscopy into Chemistry-funded- co-PI with Dr. Wu Xu, PI, 2013-14, \$32,000.
14. UL STEP Grant: A second SMART Classroom for Chemistry-funded- PI with W. Xu and D. Wellman, 2014, \$30,000.
15. UL STEP Grant: Acquisition of an Infrared spectrometer, PI; Dec. 2015, funded;\$18,000
16. UL STEP Grant: Purchase of a Polarimeter for Organic Teaching Laboratories,PI,; May 2017 funded; \$550
17. BORSF “ Acquisition of a Bench top NMR Spectrometer for Integration into the Chemistry Curriculum, PI: LEQSF(2017-18)-ENH-TR-30; May 2017; funded, \$60,175.

**Activities:**

President, USL Sigma Xi Club, 1985-1986.

USL Faculty Senator, 1986-1989, 1992-1995, 2002-2005, 2007-2010.

Advisor for the USL Newman Club, 1983-1988. Eucharistic Lay Minister and Parish Trustee at Our Lady of Wisdom Catholic Church and Student Center, 2005-present.

Seminar Chairman – Chem. Dept.

Judge of Annual Science Fair for local high schools. And chemistry Olympiad, 1991-present.

Volunteer for Habitat for Humanity and Project Headstart

I have directed 7 MS theses and >85 undergraduate students.

Mentor McNair Scholars- 5 students: Son Do, Sherry Stringfellow, Jonathan Ledet, Jacquis Davis

Coordinator for the French Internship program from University of Poitiers, FRANCE, 2004-12

Chemistry Advisor and Pre-Pharmacy Advisor (#905) for over 75 students.

Pre-Med Advisor, 1992-present.

**Publications:**

See separate page attached.

Dissertation & Director: “Studies of Penicillamine and Other Compounds of Sulfur in Relation to Rheumatoid Arthritis” under Dr. Lamar Field.

Interests: Domestic and foreign numismatist. Photography, baseball, golf, bowling, and camping. Experience & Military: During the period of May-September 1972, I worked as a laboratory assistant at Sybron and gained useful laboratory experience; I also have had some training in electronics.

Experience in organic sulfur chemistry.

Curator of NMR, GC-MS and FT-IR spectrometers at UL Lafayette  
Spectroscopic Analysis and Organic Structure Determination

**References:**

\*Dr. Lamar Field, Vanderbilt University, Nashville, TN 37235

\*Dr. D. Stanley Tarbell, Vanderbilt University, Nashville, TN 37235

\*Dr. D.E. Pearson, Vanderbilt University, Nashville, TN 37235

\*Dr. Eugene C. Jorgensen, University of California, San Francisco, CA 94143

\*Dr. J.D. Edwards, University of Southwestern Louisiana, Lafayette, LA 70504

Dr. Gerard J. Hatheway, Herrick Hospital and Health Center, Berkeley, CA 94704

Dr. Clarence Heininger, St. John Fisher College, Rochester, NY 14618 \*Deceased-February 1981.