Lisa McElwee-White
Colonel Allen R. and Margaret G. Crow Professor of Chemistry
Department of Chemistry – University of Florida – Gainesville, FL 32611-7200
Phone: 352-392-8768 – lmwhite@chem.ufl.edu – http://lmwhite.chem.ufl.edu

Professional Preparation

1979	B.S., Chemistry, with Highest Distinction and Honors in Chemistry, University of Kansas
1983	Ph.D., Chemistry, California Institute of Technology
1983-1985	Postdoctoral Research Affiliate, Stanford University

Academic Appointments

2017-2024	Chair, Department of Chemistry
2016-present	Affiliate Professor of Chemical Engineering
2015-present	Colonel Allen R. and Margaret G. Crow Professor of Chemistry
2014	TUBITAK Visiting Professor (Turkey)
2012-2013	Colonel Allen R. and Margaret G. Crow Term Professor
2007-2009	University of Florida Research Foundation Professor
1998-2002	Associate Dean for Administrative Affairs, College of Liberal Arts and Sciences, University of Florida
1997-2015	Professor, University of Florida
1993-1997	Associate Professor, University of Florida
1985-1993	Assistant Professor, Stanford University

Leadership of Programs and Centers

2007-2017	Director, UF Beckman Scholars Program
2010-2014	Director, NSF-CCI Center for Nanostructured Electronic Materials

Awards and Recognition (Selected)

2024	Southern Chemist Award (Memphis Section, ACS)
2024	Paul G. Gassman Distinguished Service Award (ACS Organic Division)
2021	Plenary Lecture, Royal Society of Chemistry-UK Department for International Development Chemistry to Functional Materials Conference
2019	Francis P. Garvan-John M. Olin Medal (ACS)
2019	Charles H. Herty Medal (Georgia Section, ACS)
2019	Castle Lecture, University of South Florida
2018	Plenary Lecture, 6th Int'l Conference on Chemistry and Chemical Engineering (Mongolia)
2017	Plenary Lecture, ANCON-Int'l Congress on Chemistry and Materials Science (Turkey)
2016	Fellow, International Union of Pure and Applied Chemistry
2016-2017	UF Technology Innovator Award
2016	Frost Lecture, Queens University
2015	Florida Award (Florida Section, ACS)
2015	Keynote Lecture, Advanced Materials & Nanotechnology 7 (New Zealand)
2013	Frontiers in Science Lecture, Florida Atlantic University
2012	Charles H. Stone Award (Carolina-Piedmont Section, ACS)
2011	Melbourne University Chemical Society Lecture (Australia)
2010	Fellow, American Chemical Society
2009	UF Doctoral Dissertation Mentoring Award
2007	HHMI Distinguished Mentor Award
2005	Frontiers in Chemistry Lecture, Wayne State University
1999	Plenary Lecture, 4th Int'l Symp. on Organo-Metals, Metal Complexes and Catalysis (China)
1996-2014	Anderson Scholar Faculty Honoree, University of Florida (honored nine times)
1996	Teaching Improvement Program Award, University of Florida
1989	DuPont Young Faculty Award
1980-1983	National Science Foundation Predoctoral Fellowship
1979-1980	Institute Fellowship, California Institute of Technology
1975-1976	National Merit Scholarship

Professional Service/Synergistic Activities (Selected)

2024-2026	Member, ACS Committee on Publications
2018-2024	Editorial Advisory Board, *ACS Applied Materials and Interfaces*
2015	Search committee for NSF Chemistry Division Director
2015-2022	Steering Committee, NIH Mentoring Workshop for Young Faculty
2014-2023	Member, ACS Committee on Professional Training
2010	Member, ACS Task Force on Electronic Dissemination of Meeting Content
2009-2019	Mentor, NIH Mentoring Workshop for Junior Faculty
2009-2012	Member at Large, Executive Committee, ACS Division of Inorganic Chemistry
2008-2010	Chair, ACS Division of Organic Chemistry
2006-2024	Organizer, Academic Young Investigators Symposium (annual at ACS meetings)
2006-2007	Committee of Visitors, NSF Chemistry Division
2006-2014	Editorial Advisory Board, *Letters in Organic Chemistry*
2004-2007	Editorial Advisory Board, *Journal of Organic Chemistry*
2004-2006	Member at Large, Executive Committee, ACS Division of Organic Chemistry
2002-2005	Titular Member, IUPAC Organic and Biomolecular Chemistry Division Committee
2000-2003	National Program Chair, ACS Division of Organic Chemistry
2000-2002	Editorial Advisory Board, *Organometallics*
1995-1999	Member, Medicinal Chemistry Study Section, National Institutes of Health
1995-1998	Executive Guest Editor, *Current Organic Chemistry*

Ten Selected Publications

1. "Roadmap for focused ion beam technologies," Höflich, K.; Hobler, G.; Allen, F.I.; Wirtz, T.; Rius, G.; McElwee-White, L.; et al., *Appl. Phys. Rev.*, **2023**, *10*, 041311.
2. “AACVD of MoS_2 with a Thiourea Sulfur Source: Single-source Precursors vs. Coreactant Mixtures” Germaine, I.M.; Huttel, M.B.; Alderman, M.P.; McElwee-White, L., *ACS Appl. Mater. Interfaces*, **2023**, *15*, 37764-37774.
3. "Photoactivated Ru CVD Using (η^3-Allyl)$Ru(CO)_3X$ (X = Cl, Br, I): From Molecular Adsorption to Ru Thin Film Deposition," Salazar, B.G.; Brewer, C.R.; McElwee-White, L.; Walker, A.V., *J. Vac. Sci. Technol. A*, **2022**, *40*, 02340
4. "Nanoscale Ru-Containing Deposits from $Ru(CO)_4I_2$ via Simultaneous Focused Electron Beam Induced Deposition and Etching in UHV: Mask Repair in EUVL and Beyond," Bilgilisoy, E.; Yu, J.-C.; Preischl, C.; McElwee-White, L.; Steinrück, H.-P.; Marbach, H., *ACS Appl. Nano Mater.*, **2022**, *5,* 3855-3865*.*
5. "Photochemistry of (η^4-diene)$Ru(CO)_3$ Complexes as Precursor Candidates for Photoassisted Chemical Vapor Deposition," Brewer, C.R.; Sheehan, N.C.; Herrera, J.; Walker, A.V.; McElwee-White, L., *Organometallics*, **2022**, *41*, 761-775.
6. "Charged Particle-Induced Surface Reactions of Organometallic Complexes as a Guide to Precursor Design for Electron and Ion Induced Deposition of Nanostructures," Yu, J.-C.; Abdel-Rahman, M.K.; Fairbrother, D.H.; McElwee-White, L., *ACS Appl. Mater. Interfaces*, **2021**, *13*, 48333-48348.
7. "Growth of WO_x from Tungsten (VI) Oxo-Fluoroalkoxide Complexes with Partially Fluorinated β-diketonate/β-ketoesterate Ligands: Comparison of Chemical Vapor Deposition to Aerosol-Assisted CVD," Ou, N.C.; Bock, D.C.; Su, X.; Craciun, D.; Craciun, V.; McElwee-White, L., *ACS Appl. Mater. Interfaces*, **2019**, *11*, 28180-28188.
8. "Electron Induced Surface Reactions of cis-$Pt(CO)_2Cl_2$: a Route to Focused Electron Beam Induced Deposition of Pure Pt Nanostructures," Spencer, J.; Wu, Y.-C.; McElwee-White, L.; Fairbrother, D.H., *J. Am. Chem. Soc.,* **2016**, *138*, 9172–9182.
9. "Effect of Ligand Structure on Chemical Vapor Deposition of WN_xC_y Thin Films from Tungsten Nitrido Complexes of the type $WN(NR_2)_3$," Koley, A.; O’Donohue, C.; Nolan, M.M.; McClain, K.R.; Bonsu, R.O.; Korotkov, R.Y.; Anderson, T.J.; McElwee-White, L., *Chem. Mater.*, **2015**, *27*, 8326−8336.
10. "Tungsten Nitrido Complexes as Precursors for Low Temperature Chemical Vapor Deposition of WN_xC_y Films as Diffusion Barriers for Cu Metallization," McClain, K.R.; O’Donohue, C.; Koley, A.; Bonsu, R.O.; Abboud, K.A.; Revelli, J.C.; Anderson, T.J.; McElwee-White, L., *J. Am. Chem. Soc.* **2014**, *136,* 1650-1662.

Other

233 invited lectures at conferences, universities, national laboratories and companies
74 graduate students and 25 postdoctoral fellows/visiting scholars supervised