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EDUCATION:

University of the Philippines	B. S. Chemistry	1984
Iowa State University	Ph.D. Inorganic Chemistry	1991
	PhD Advisor: John D. Corbett (deceased)	

EMPLOYMENT HISTORY

University of Houston	Professor of Chemistry	2008 - present
University of Houston	Associate Department Chair	2012 - present
University of Houston	Graduate Chair, Chemistry	2008 - 2012; 2013 - 2017
University of Houston	Associate Professor of Chemistry	2000 - 2008
Max-Planck-Institute-CPFS, Dresden	Visiting Professor-Guest Scientist	2004 - present
University of Houston	Assistant Professor of Chemistry	1994 - 2000
IBM TJ Watson Research Center, NY	TJ Watson Postdoctoral Fellow	1991 - 1994

HONORS & AWARDS

Max Planck Society Fellowship	2018
Visiting Professor, Max Planck Institute CPFS Dresden Germany	2017
University of the Philippines World Expert Lecturer	2017
John and Rebecca Moores Professorship	2015
Distinguished Visiting Professor, Sun Yat-Sen University, Guangzhou, CHINA	2015
University of the Philippines, Alumni Association, A. Clemente Award	2010
UH Award for Excellence in Research and Scholarship (Professor level)	2009
Visiting Scholar Lecturer, Chungnam National University, Daejeon, KOREA	2009
Balik-Scientist Award (Outstanding Visiting Scientist), DOST, PHILIPPINES	2008
Visiting Professor, Institute of Chemistry, University of the Philippines	2008
F. W. Bessel Research Award, A. von Humboldt Foundation, (Germany)	2004
Amando Clemente Memorial Award in Chemistry, (Philippines)	2004
Early Faculty CAREER Award, National Science Foundation, (USA)	1998
Visiting Scientist Award, DOST-ESEP (Philippines)	1997
Excellence in Research and Scholarship Award, University of Houston	1997

RESEARCH INTERESTS / EXPERTISE (see <http://www.uh.edu/~chembi>)

- *Inorganic Solid State Chemistry*: Complex polar intermetallics, alloys and semiconductors; Multifunctional organic-inorganic hybrid materials, and molecular composites.
- *Chemistry of Main Group Elements*: Zintl Phases, Chemistry of Triels, Tetrels and Pnictogens.
- *Developing New Synthetic Routes to New Materials*: Chemical Vapor Transport; Reactions in molten salts and ionic liquids; *soft chemistry*.
- *Superconductivity*: Layered intermetallics (silicides, borides, carborides); layered metal oxides, halides and oxyhalides; Heavy Fermion intermetallics

- Materials Characterization Techniques: X-ray and electron crystallography, Electron microscopy and holography; Optical spectroscopy of solids, Photoelectron Spectroscopy; electron holography.
- Electronic Structures and Chemical Bonding of Solids: Electronic band theory of solids.

5 SELECTED PUBLICATIONS (Total = 145)

1. Z. Tang, A.P. Litvinchuk, M. Gooch, A. M. Guloy, "Narrow Gap Semiconducting Germanium Allotrope from the Oxidation of a Layered Zintl Phase in Ionic Liquids" *Journal of the American Chemical Society* **2018**, 140 (22), 6785-6788.
2. P. Doan, M. Gooch, Z. Tang, B. Lorenz, A. Moller, J. Tapp, P. C.-W. Chu, A. M. Guloy, "Ba_{1-x}Na_xTi₂Sb₂O (0.0 ≤ x ≤ 0.33): A Layered Titanium-Based Pnictide Oxide Superconductor" *Journal of the American Chemical Society*, **2012** 134 (40), 16520 - 16523.
3. A.M. Guloy, R. Ramlau, Z. Tang, W. Schnelle, M. Baitinger, Y. Grin "A guest-free germanium clathrate" *Nature*, **2006**, 443, 320 - 323.
4. K. Sasmal, B. Lv, B.; B. Lorenz, A.M. Guloy, F. Chen, Y. Xue, C.-W. Chu, "Superconductivity up to 37 K in (A_{1-x}Sr_x)Fe₂As₂ with A = K and Cs" *Physical Review Letters*, **2008**, 101(10), 107007/1 - 107007/4.
5. D.B. Mitzi, S. Wang, C.A. Feild, C.A. Chess and A.M. Guloy "Conducting Layered Organic-Inorganic Halides Containing <110>-oriented Perovskite Sheets" *Science*, **1995**, 267, 1473.