

CURRICULUM VITA

1. Name: Ernest Carl McIntyre

Academic Rank: Adjunct Instructor (Part-time)

2. Education & Degree (degree, discipline, institution, year)

B.Sc., Chemical Engineering, Georgia Institute of Technology
University, Atlanta, GA, June 2003.

M.S.E., Macromolecular Science and Engineering, University of
Michigan, Ann Arbor, MI, June 2005.

Ph.D., Macromolecular Science and Engineering, University of
Michigan, Ann Arbor, MI, June 2008.

3. Academic Experience (Period, institution, rank, full-time or part-time)

2020-Present Prairie View A&M University, Adjunct Instructor, Department of
Chemical Engineering, Part-time.

2012-2019 University of Louisiana, Lafayette, Assistant Professor, Department of
Chemical Engineering, Full-time.

2008-2012 University of Michigan, Ann Arbor, NSF-EAPSI Postdoctoral Fellow,
Department of Chemical Engineering, Full-time.

4. Non-academic Experience

5. Certification and professional registrations:

6. Current Membership in Professional Organizations:

(a) Member of ACS, (b) Member of ASEE

7. Honors & Awards

- Research Award for the Louisiana BOR-RCS grant., University of Louisiana 2013
- Michigan Inventor, Tech Transfer Office, University of Michigan, 2011
- Postdoctoral Fellowship Award (NSF) Alliance for Graduate Education, 2008

8. Service Activities (within and outside of the institution)

9. Publications and Presentations from the Last Five Years (title, co-authors if any, where published and/or presented, date of publication or presentation)

1. Omambala, J.; Gallo, A.; McIntyre E.C. "Electrorheological Effects of Synthesized Octa-Cyanopropyl Silsesquioxane Cage Structure" ACS Omega 2019
2. Omambala, J.; Gallo, A.; McIntyre E.C. "Comparing the Electrorheological Effect of Polyhedral Silsesquioxane Cage Structures with Cyanopropyl Functional Groups" ACS Omega 2019
3. Omambala, J.; McIntyre, C. "Rheological Characterization of Tack and Viscoelasticity of Compositions of Crepe Coating Used in The Yankee Dryer", TAPPI Journal (2019)
4. Akinyemi, O.; Jiang, L.; Hernandez, R.; McIntyre, C.; Holmes, W. "Combustion of straight algae oil in a swirl-stabilized burner using a novel twin-fluid injector" Fuel (2019)
5. Zhou, Y.; Damasceno, P. F.; Somashekar, B. S.; Engel, M.; Tian, Falin; Zhu, J.; Huang, R.; Johnson, K.; McIntyre, C.; Sun, K.; Yang, M.; Green, P. F.; Ramamoorthy, A.; Glotzer,

Sharon C.; Kotov, Nicholas A. “Unusual multiscale mechanics of biomimetic nanoparticle hydrogels” *Nature Communications* 9(1) (2018) *Open Access*

10. Brief List of Most Recent Professional Development Activities

- AP Summer Institute, August, 2020, for AP Environmental Science, University of Texas at San Antonio
- “Adjusting the electrorheological effect in silicate cage structures: Changing the number of cyanopropyl functional groups attached to the T8-cages” Omambala, J.; McIntyre E.C. Annual Meeting of the Society of Rheology, February 12-16 2017 Tampa, FL
- “The electrorheological effect for polyhedral silsesquioxane cage structures with cyanopropyl functional groups” 2015 AIChE Annual Meeting Session: Self and Directed Assembly at the Nanoscale November 9-13, 2015 Salt Lake City UT.
- “The electrorheological effect for polyhedral silsesquioxane cage structures with cyanopropyl functional groups” 87th Annual Meeting of the Society of Rheology, October 11-15, 2015, Baltimore MD.
- “The electrorheology of suspensions containing interfacially active constituents” McIntyre, E.C. 85th Annual Meeting of the Society of Rheology, October 13-17, 2013, Montreal, Quebec, Canada