

Biographical Sketch

Clint P. Aichele

Associate Professor

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A. PROFESSIONAL PREPARATION

Oklahoma State University	Stillwater, OK	Chemical Engineering	B.S.	2004
Rice University	Houston, TX	Chemical Engineering	Ph.D.	2009

B. APPOINTMENTS

2018-present	Associate Professor and Lew Ward Faculty Fellow, School of Chemical Engineering, Oklahoma State University
2012-18	Assistant Professor and Harold Courson Faculty Fellow, School of Chemical Engineering, Oklahoma State University
2011-12	Senior Engineer, Research and Development, ConocoPhillips
2009-11	Associate Engineer, Research and Development, ConocoPhillips

C. PRODUCTS

(i) Most Closely Related to the Proposed Project

1. Liu, R., Yegya Raman, A., Shaik, I., **Aichele, C.**, Kim, S. 2018. Inorganic Microfiltration Membranes Incorporated with Hydrophilic Silica Nanoparticles for Oil-in-Water Emulsion Separation. *Journal of Water Process Engineering*. 26:124-130.
2. Liu, R., **Aichele, C.P.**, Kim, S. 2018. Boron Substituted MFI-Type Zeolite-Coated Mesh for Oil-Water Separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 550:108-114.
3. Liu, R., Dangwal, S., Shaik, I., **Aichele, C.**, Kim, S. 2018. Hydrophilicity-Controlled MFI-Type Zeolite-Coated Mesh for Oil/Water Separation. *Separation and Purification Technology* 195:163-169.
4. Yegya Raman, A., **Aichele, C.P.** 2018. Demulsification of Surfactant Stabilized Water-in-Oil (Cyclohexane) Emulsions using Silica Nanoparticles. *Energy and Fuels*. 32:8121-8130.
5. **Aichele, C.P.**, Chapman, W.G., Rhyne, L.D., Subramani, H.J., and House, W. 2009. Analysis of Formation of Water-in-Oil Emulsions. *Energy and Fuels*. 23:3674-3680.

(ii) Other Significant Products

1. Erfani, A., Khosharay, S., **Aichele, C.P.** 2019. Surface Tension of Different Binary Systems of Glycerol and Alcohol,” *Journal of Chemical Thermodynamics*. 135:241-251.
2. Daniel, A., Miranda, M., Mohammad, S., **Aichele, C.P.** 2019. Absorption and Desorption Mass Transfer Rates as a Function of Pressure and Mixing in a Simple Hydrocarbon System. *Chemical Engineering Research and Design*. 144: 209-215.
3. Manivannan, R.G., Mohammad, S., McCarley, K., Cai, T., **Aichele, C.**, 2019. A New Test System for Distillation Efficiency Experiments at Elevated Liquid Viscosities: Vapor-Liquid Equilibrium and Liquid Viscosity Data for Cyclopentanol+Cyclohexanol. *Journal of Chemical and Engineering Data*, 64:696-705.
4. Briggs, N., Barrett, L., Yegya Raman, A., **Aichele, C.P.**, Crossley, S. 2017. Stable Pickering Emulsions using Multi-Walled Carbon Nanotubes of Varying Wettability. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*. 537:227-235.

5. King, B., Cai, T., Resetarits, M., McCarley, K., Whiteley, R., Tamhankar, Y., **Aichele, C.P.** 2017. Characterization of Liquid Entrainment in a Counter Flowing Gas Using Phase Doppler Interferometry. *Chemical Engineering Research and Design*. 121:295-304.

D. SYNERGISTIC ACTIVITIES

- Member of the WONDERTorium (children's museum) Board of Directors (2014-present), Stillwater, OK. Participate on discussions and contribute to the decision-making process for the museum. Actively promote the museum to the community and help with programming. Volunteer at the museum by developing science activities for visitors, perform experiments with visitors, and mentor undergraduate/graduate student volunteers at the museum.
- Faculty advisor for ChemKidz (2013-present), an undergraduate chemical engineering outreach organization at Oklahoma State University that provides science demonstrations and education at pre-K-5 schools across north central Oklahoma. Help the organization develop curriculum and science experiments for pre-K-5 students and teachers.
- Cross-disciplinary mentorship and faculty sponsor (2012-present) for ten undergraduate research scholars. I recruited these undergraduates and helped them develop proposals that were funded. Three continued on to graduate school at Cambridge; another recently accepted a position in the oil and gas industry. One scholar secured a research project sponsored by an energy company and went on to pursue a Ph.D. in chemical engineering.
- Co-chair of the Emulsions, Bubbles, and Foams session at the American Chemical Society Colloid and Surface Science Symposium (2019). I recruited keynote speakers and helped develop the content for the session.
- Member of the Upstream Engineering and Flow Assurance Forum in AIChE (2014-present). Use my previous experiences as Co-Chair to lead the direction of the forum, provide technical seminars on the topic of flow assurance to undergraduate and graduate students, assist with programming, recruit new members, and chair sessions at conferences.