CO-PI BIOGRAPHICAL SKETCH

Sheena M. Reeves, Ph.D.
Assistant Professor, Department of Chemical Engineering
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(a) PROFESSIONAL PREPARATION

Institution	Location	Major/Area	Degree	Year
Mississippi State University (MSU)	Starkville, MS	Chemical Engineering	Ph.D.	2011
Mississippi State University (MSU)	Starkville, MS	Chemical Engineering	B.S.	2006

(b) APPOINTMENTS

Assistant Professor, Chemical Engineering Department, PVAMU, 10/2014 – Present
Adjunct Instructor, Chemical Engineering Department, PVAMU, 01/2012 – 09/2014

(c) PRODUCTS\PUBLICATIONS

(i) Related to the Proposed Project

1. **Reeves, Sheena M.**, and Adewale Lawal, Characterization of Paracetamol Granules Formed by Binder Dropping, *Powder Technology*, ACCEPTED, 2019.
2. **Sheena M. Reeves**, and Adetutu Martins, Characterization of Paracetamol Granules Formed by Binder Dropping, *Proceedings-8th World Congress on Particle Technology*, April 2018.
3. **Reeves, S.M,** and A.K. Thompson, HBCUs and Chemical Engineering: Analysis of Baccalaureate Programs, *Chemical Engineering Education*, 52 (2), 72-78, (2018).
4. Adetutu Martins, Adewale Lawal, and **Sheena Reeves**, Formation and Dissolution Characteristics of Paracetamol Granules, *Proceedings - American Institute of Chemical Engineers (AIChE) 109th Annual Conference*, November 2017.
5. **Reeves, S.M**. and P.J. Hill, Mechanisms Influencing Crystal Breakage Experiments in Stirred Vessels. *Crystal Growth and Design*, 12, 2748-2758 (2012).

(ii) Other Significant Products

1. Priscilla J. Hill and Sheena M. Reeves, Effect of Particle Breakage Conditions on Child Particle Aspect Ratios, *Powder Technology*, SUBMITTED, 2018.
2. Adetutu Martins, Ja'kari Jackson, and Sheena M. Reeves, Effect of Binder Concentration on Paracetamol Granules, *Proceedings – 2017 NOBCChE Annual Conference*, November 2017.
3. Reeves, S.M., Impact of HBCUs on the Number of Minorities Receiving Chemical Engineering Degrees, *Proceedings - American Institute of Chemical Engineers (AIChE) 108th Annual Conference*, November 2016.
4. Reeves, S.M., Why Pursue a STEM Ph.D., 3rd Annual E&S TAMU AGEP Conference, Texas A&M University-Corpus Christi, October 2015.
5. Hill, P.J. and S.M. Reeves, Aspect Ratios and Modeling in Fragmentation and Attrition, *Proceedings - American Institute of Chemical Engineers (AIChE) 103rd Annual Conference*, October 2011.

(d) SYNERGISTIC ACTIVITIES

1. Advisor of 15 undergraduate research/laboratory assistants, 1 REU participant, 1 REH participant, 4 thesis graduate students, 6 project based graduate students, and 6 graduate

laboratory assistants which produced 18 student presentations and 2 student awards; 1 graduate thesis student investigating ***adsorption and reaction rates between membrane and produced water***.

2. Activity leader of a 5 year Title III award for The Enhancement of the Chemical Engineering laboratories. Responsibilities include submitting and maintaining a yearly budget (3 year total of $664,441), overseeing the ordering of new equipment, hiring and overseeing undergraduate and graduate lab assistants, and repair/replacement of old laboratory equipment, and documenting the success of the new laboratory editions in terms of student progress.
3. Serves as a member of the Societal Impact Operating Council (SIOC) of the American Institute of Chemical Engineering (AIChE); will serve as Vice-Chair, Chair, and Past Chair from 2019 – 2021.
4. Developed a Chemical Engineering (CHEG) Seminar Series from 2017 – Present that has introduced 10 topics (including ***wastewater treatment*** and process safety) to engineering students. To date, the series has impacted over 150 engineering students.
5. Taught 6 sections of undergraduate *Separation Processes* (including membranes and filtration) course, 7 sections of undergraduate *Chemical Reactor and Reaction Design* (including catalyst adsorption and membrane reactors), and 4 sections of graduate level *Advance Chemical Reaction Engineering*; created 2 new undergraduate and 3 new graduate level courses such as *Solids Process Engineering* and *Multiphase Flow Processes*.