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Foreword

Marcia A. Shobe

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FOREWORD

I am pleased to present to you Volume 19 of the *Inquiry Undergraduate Research Journal*. *Inquiry* provides a forum for sharing the research and creative endeavors of undergraduate students and their faculty mentors at the University of Arkansas. The *Inquiry Journal* was developed by the Teaching Academy of the University of Arkansas and is supported financially and conceptually by the offices of the Provost and the Vice Provost for Research and Economic Development. The *Inquiry Undergraduate Research Journal* website, online publications, and journal archives are expertly managed by the David W. Mullins Library staff.

Volume 19 of the *Inquiry Undergraduate Research Journal* features the unique contributions of undergraduate student authors and their faculty mentors. The research and creative endeavors that are published in the *Inquiry Undergraduate Research Journal* span diverse fields at the University of Arkansas, including Biological Sciences; Landscape Architecture; Economics; Mechanical Engineering; and English. Turning to the research studies in this issue, Jessica Darby, Economics, explores the ways in which rice future prices respond to news releases by the USDA. Bailey Deloney, Journalism, conducted a content analysis to examine whether television commercials on Nickelodeon that target children favor traditional gender stereotypes. Sarah Plavcan, English, examines Milton's poem, *Paradise Lost*, to keenly investigate the conflict between predestination and free will. Griffin Sonaty, Biological Sciences, examines the use of loop-mediated isothermal amplification (LAMP) to detect single genes from bacteria in blood serum samples to aid in sepsis diagnosis. Scarlett-Marie Acklin, Biological Sciences, examines THz imaging and spectroscopy as an innovative method for detecting breast cancer tissues of patients with tumors 2mm or larger. Clint Paul, Mechanical Engineering, use SMD simulations to study the mechanisms associated with heterotrimeric collagen, when interacting with HAP under shear and peeling loading conditions; findings could have potential applications in engineering and medicine.

I would like to extend a special thank you to the many faculty members who volunteer their time and expertise in order to mentor the student authors and the faculty members who provide comprehensive reviews of student manuscripts. While we are unable to publish all of the submitted manuscripts, we also want to thank the students and faculty mentors for their diligent efforts. Additionally, I would like to thank Dean Carolyn Allen, Beth Juhl and Dylan Hurd, David W. Mullins Library, for their efforts in publishing each volume of the *Inquiry Undergraduate Research Journal* electronically. Please see the next page for a list of faculty and staff who play an integral role in publishing each volume of the *Inquiry Undergraduate Research Journal*.

We plan to publish Volume 20 of the *Inquiry* journal in March 2016. I encourage undergraduate students and faculty mentors to consider submitting their manuscript to the *Inquiry Undergraduate Research Journal* by May 16, 2016 for consideration.

Marcia A. Shobe, Editor