

DR. FAITH YARBERRY

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EDUCATION

University of North Texas

PhD in Chemistry

2002

Dissertation: “Layered Double Hydroxides: Morphology, Interlayer Anion and the Origins of Life”

University of the Ozarks

B.S. in Chemistry

1992

University of the Ozarks

B.S. in Mathematics

1992

TEACHING EXPERIENCE

University of Central Arkansas

Lecturer I – College Chemistry I, College Chemistry II, General Chemistry for Health Sciences, Introduction to Organic and Biochemistry, Fundamental Chemistry, Research

2010 - Current

Developed syllabus, administered all grades, taught associated laboratories.

Visiting Assistant Professor - College Chemistry I, College Chemistry II, Physiological Chemistry I, Physiological Chemistry II, Research

Developed syllabus, administered all grades, taught associated laboratories,

2006-2010

Upward Bound Instructor - Chemistry

Developed all materials for the Upward Bound Chemistry course

2006, 2008

Stark State College of Technology

Visiting Professor –General Chemistry for Health Sciences, Fundamental Chemistry, Research

2005

Developed syllabus, administered all grades, and taught associated laboratories.

Kent State University

Non-tenure Track Associate Professor - College Chemistry I,

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Chemistry in Society, Quantitative Analysis

2004-2005

Developed syllabus, administered all grades, and taught associated laboratories.

Texas A&M at Commerce

Adjunct Faculty –General Chemistry, Instrumental Analysis, Advanced Analytical Chemistry

2004

Developed syllabus, administered all grades, and taught associated laboratories.

University of North Texas

Adjunct Faculty - Quantitative Analysis

2003

Developed syllabus, administered all grades.

RESEARCH EXPERIENCE

Chemical Education

2010 – Current

- Evaluated the effects of Math ACT scores on student success in CHEM 1450 and CHEM 1402 and submitted a curriculum change proposal related to the findings.
- Developed laboratories currently used in College Chemistry I and College Chemistry II.
- Developed tools to teach students the proper way to write formulas and name ionic compounds.
- Developed a tool to teach stoichiometry that is currently being used in grades 9-12 classrooms.
- Developed a variety of materials for use by teachers in 9th-12th grade classrooms and gave workshops related to these materials as part of the “MSP-Science Lead Teacher Institute” during the summers of 2010 and 2011.
- Developed physical science materials for use by 5th-7th grade teachers as part of a MSP grant during the spring and summer of 2014
- Co-PI on “A Systematic and Integrated Approach to Recruiting, Preparing, and Retaining Highly Qualified Secondary Teachers of Mathematics and Science in Arkansas” will be funded over five years through the NSF’s Robert Noyce Teacher Scholarship program.

ADDITIONAL EXPERIENCE

STEM Residential College at Arkansas Hall

Resident Master

2013 – Current

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As Resident Master, I have continued the long-standing traditions of Kids Club and Science Nights started by my predecessor. Additionally I have worked to add a Research Series of seminars, assisted the staff with MapWorks, offered several types of workshops geared at student success, and participated in CANstruction (an event involving the collection of can goods, the building of a structure with those can goods, and the donation of those can goods to charity). Finally, I have written, evaluated, and revised a Continuous Improvement Plan for the assessment of the STEM Residential College Students as it pertains to their participation in Science Night.

Hughes Residential College in Hughes Hall

Resident Master

2011 – 2013

Established a self-sustaining study hall, assisted in the development of the Hughes Leadership Institute as a strong entity, helped in formation of a cohesive freshman class of Hughesies through the establishment of a Coffee Shoppe, helped coordinate efforts between members of the Hughes Residential College and the community (Big Brothers Big Sisters of Faulkner County, Bethlehem House, Habitat for Humanity, Relay for Life), provided assistance to faculty associates teaching in the Hughes Residential College as needed.

American Chemical Society, University of Central Arkansas Chapter

Faculty Advisor

2010 – Current

Provides demonstrations for student activities (Bear Fairs, Majors Fair, RSO Fair, Science Nights, Girl Scout events, helping STEM at Kid's Club, etc.), assists at events in an advisory capacity, helps with all financial aspects of the organization, supervises students at the National ACS spring meeting.

Department of Chemistry / Advising Center

Adviser for Chemistry Majors

Residential College Liaison in the Advising Center

2011 – Current

Provides information to students regarding coursework, etc. that can help them succeed in their endeavors.

COMMITTEES

Hiring Committees

2012- Current

Member

Assisted in the hiring of Administrative Specialist III for the

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Department of Chemistry (2012), Hughes Residential College
Resident Master (2013), HPaW Residential College
Resident Master (2014), Assistant Director for Training
and Development (2014)

Residential College Recruitment Discussion Group

Member

Spring 2013

Identify reasons why students are not registering for Residential College as quickly as in past years and develop plans to improve on this issue.

Residential College Co-curricular Programming Subcommittee

Chair

Spring 2013

Helped in preparing the co-curricular portion of the self-study performed by the Learning Communities in preparation for an external evaluation.

STEM Advisory Committee

Department of Chemistry Representative

2010 – Current

Helped the Resident Master upon request with the development of Kid's Club activities, etc.

Departmental Curriculum Committee

Member (Chair - 2013-2014)

2009 - Current

Helped with all aspects of curriculum in the Department of Chemistry including incorporation of the new Core requirements into the revised PCP's for the department and the revision of the Continuous Improvement Plan

Adhoc Student Research Committee

Member

2012

Assisted in the development of the current method by which students can apply to do research in the Chemistry Department.

CNSM Lecturer Advancement Committee

Chair

2011-2012

Developed guidelines for promotion of a Lecturer I to Lecturer II to Senior Lecturer. These guidelines are awaiting the determination of the University guidelines to verify that they are in-line with University guidelines.

EPIC Minor Committee

Member

2011 - 2012

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Assisted with the initial development of the minor by identifying courses that would be applicable and by determining the credit hour divisions associated with the minor.

EPIC Residential College Committee

Member

2011 - 2012

Assisted with the development of the EPIC Residential College and the hiring of its Resident Master

PUBLICATIONS AND POSTER PRESENTATIONS

“Enriching the K-12 science experience”

Poster Presentation at the American Chemical Society National Meeting

2014

“University of Central Arkansas Student Chapter: Collaborating with Other Science Groups on Campus”

Poster Presentation at the American Chemical Society National Meeting

2013

“Identification markers between ACT scores and passing rates in freshman level chemistry courses”

Poster Presentation at the American Chemical Society National Meeting

2012

“Increasing visibility on campus: Recruiting and maintaining motivated members”

Poster Presentation at the American Chemical Society National Meeting

2012

“Power of the Mole”

Workshop Presentation at a ChemEd meeting

2011

“Promoting Chemistry in Arkansas”

Poster Presentation at the American Chemical Society National Meeting

2011

“Junior Jewels – CSI Diamonds”

CSI Workshop for Junior Girl Scouts of the Diamonds of Arkansas, Oklahoma, and Texas Council

2009

AFFILIATIONS

American Chemical Society

Alpha Chi Sigma

National Society of Collegiate Scholars

Daughters of the American Revolution

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ARKANSAS STATE SERVICE

Arkansas State Science Fair	2013
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“Crime Lab Chemistry” and “Chemical Reactions”	2010
ACMSE Summer Institute	2009
Arkansas State Science Fair	2009
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LOCAL SERVICE

Ecofest (ACS)	2013 - Current
Ecofest (Girl Scouts, ACS, Hughes Residential College)	2012
Ecofest (Girl Scouts, ACS)	2011
Ecofest (Girl Scouts)	2010
Uncovering the Evidence IPP	2010
Ecofest (Girl Scouts)	2009
Girl Scout Troop 6535 Silver Award CSI Event	2009
Conway High School West Science Fair	2008
Conway High School West Science Fair	2007
Science Matters, Girl Scouts of the USA	2006

Please ask if you would like an extensive list of research publications and service.