



## **Quarterly Board Meeting**

**September 26, 2024  
Roaden University Center, Room 282  
1:30 p.m.**

### **AGENDA**

- I. Call to Order
- II. Recognition of Students
- III. Approval of Minutes of June 20, 2024
- IV. Student Trustee Report
- V. President's Report
- VI. Certification of President's Responsibilities Related to Athletics
- VII. Executive Committee Recommendation
  - President's Compensation
- VIII. Audit & Business Committee Recommendations
  - A. Capital Budget Update
  - B. Disclosed Project
  - C. Tenure Upon Appointment Recommendations
- IX. Board Secretary Report

X. Board of Trustees' meeting dates:

Next Meeting: December 5, 2024

Calendar Year 2025:

March 6

June 26

September 25

December 4

XI. Other Business

XII. Adjournment



## Agenda Item Summary

**Date:** September 26, 2024

**Agenda Item:** Recognition of Students

Review

Action

No action required

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**PRESENTER(S):** Chair Harper

**PURPOSE & KEY POINTS:** Three of the students from the course trip will share their experiences at spending four days at Walt Disney World in Orlando, FL as a culminating activity for their “Leadership the Disney Way” course, taught by instructor Sherrie Cannon and lecturer Chelsea Dowell.

The students are:

Baylee Dalton

Abbie Maffett

Emma Parson



## **BOARD OF TRUSTEES**

**June 20, 2024**

**Roaden University Center, Room 282**

### **MINUTES**

**Meeting streamed live via link found on this web page:**

<https://www.tntech.edu/board/board-and-board-committee-meetings.php>

#### **AGENDA ITEM I – CALL TO ORDER**

The Tennessee Tech Board of Trustees met on Thursday, June 20, 2024, in Roaden University Center Room 282. Chair Trudy Harper called the meeting to order at 1:32 p.m.

Chair Harper asked Mr. Lee Wray, Secretary, to call the roll. The following members were present:

- Addison Dorris
- Jeannette Luna
- Thomas Lynn
- Rhedona Rose
- Camron Rudd
- Johnny Stites
- Trudy Harper
  
- Fred Lowery joined electronically.

A quorum was physically present. Tennessee Tech faculty, staff and members of the public were also in attendance. Mr. Lowery confirmed that he could simultaneously hear and speak to the Board members, that he was by himself, and that he received the Board materials in advance of the meeting. Mr. Tom Jones and Captain Barry Wilmore were absent.

A video clip of Captain Wilmore and other astronauts in their purple and gold suits at the International Space Station was playing. Chair Harper stated that she just wanted to remind everyone that it was amazing to be part of Tennessee Tech and for the university to be promoted from space. Also provided by Captain Wilmore was a time lapse of Starliner as they flew over the southern Aurora.

**AGENDA ITEM II – SPOTLIGHT ON STUDENTS**

Three successful student-athletes – Tim Coutras, Reghan Grimes and Grant Slatten -- shared their experiences while at Tennessee Tech, why they chose to attend Tech, how they manage their time commitment, and what they plan to do after graduation.

Winners of the Eagle Works competition were also recognized. Eagle Works is Tennessee Tech's version of Shark Tank and is based on student creativity, ideas, viability and business plans for marketing the products. Addison Dorris and Vivekanand Naikwadi were members of the winning teams where the students presented their ideas and prototypes or inventions, and faculty and staff and local industry members voted to select the winners.

**AGENDA ITEM III – RECOGNITION OF RETIRING FACULTY**

Dr. Graham Kash, professor of speech and communication and longtime speech and debate team coach, was unable to join the meeting but was recognized for 58 years of distinguished service to Tennessee Tech. Dr. Kash began employment at Tech in 1966 and will be retiring from the university on July 31. A scholarship has been set up in his and his wife's names. A plaque will be awarded to him at a later date.

**AGENDA ITEM IV – APPROVAL OF MINUTES**

Chair Harper asked for approval of the minutes of the March 7, 2024, Tennessee Tech Board of Trustees meeting. There being no questions nor comments, Ms. Rose moved to recommend approval of the March 7, 2024, Board of Trustees minutes. Mr. Stites seconded the motion. Mr. Wray called a roll call vote. The motion carried unanimously.

**AGENDA ITEM V – STUDENT TRUSTEE REPORT**

Ms. Dorris reported that the final weeks of school and the early weeks of summer semester included students' spring break trips, spring break service projects through the university, final exams, the annual SOLO event, student leadership awards ceremony, student worship award ceremony, a campus safety walk to identify unaddressed problems that students face on their daily commutes around campus, (Student Government Association) SGA student elections, student orientation and recruitment sessions (SOAR), new student family programs, adding student members to the Week of Welcome Steering Committee, and the division of Student Affairs partnering with the City of Cookeville, Chamber of Commerce, Cityscape and others preparing for this year's College Town Kickoff.

**AGENDA ITEM VI – PRESIDENT'S REPORT**

President Oldham stated that 2023-24, the 109<sup>th</sup> year of history at Tennessee Tech University, has been another great year and he wanted to take a quick look at what has been accomplished collectively this year.

- Enrollment kicked off fall semester with the fourth largest freshman class in University history. The large class size will help us reach our short-term enrollment goal of 12,000 students.
- Tennessee Tech is ranked as a top national university in the country for the ninth straight year by *U.S. News and World Report* and moved up 35 rankings this year. Tech continues to be ranked the second highest public university in the state of Tennessee.
- Tech continues to have the highest return on investment by pay scale of any Tennessee public university and is one of the top 250 graduate schools as ranked by *Abound*.
- Faculty continue to excel and lead the state in research and teaching. Evidence of this is the perfect score received this past year from Tennessee Higher Education Commission on the Quality Assurance Funding Review.
- Tech established a new Machine Intelligence and Data Science Center (MInDS) that will bring the power of AI in solving real-world problems and will prepare our students for careers in the digital age.
- Tennessee Tech will end this fiscal year in about a week at roughly \$45 million in externally funded research activations. About four years ago, we stated we were going to double research funding and get to \$40 million by 2025. We are now at \$45 million and we achieved the goal a year early. He thanked Vice President Liu for all his efforts.
- Dr. Oldham thanked the Provost, Dean Slater, engineering faculty, members of the Board of Trustees and university federal partners, Congressman John Rose and Congressman Chuck Fleischmann, for helping Tech secure the final Tennessee Higher Education Commission (THEC) approval to launch the new nuclear engineering degree program this fall, only the second nuclear engineering program in the state of Tennessee.
- Tech continues to deepen roots within the community and solidify Cookeville as Tennessee's college town. This was accomplished with the first-ever College Town Kickoff last fall, an event that went extremely well and it is anticipated to become an annual event. The Kickoff is a block party style, high-energy event in downtown Cookeville for students and the public that includes a ferris wheel, a zip line, giveaways, food trucks and a free concert in Dogwood Park.
- Tennessee Tech also welcomed the largest marching band in Tennessee history, with more than 211 members and 32 different undergraduate majors represented in the band, and a return of a color guard for the first time in more than a decade.
- We continue to invest heavily in new and approved spaces for our students to learn, connect and grow. Including our state-of-the-art Ashraf Islam engineering building, now augmented by a small lake and a 70-foot outdoor sculpture by world-renowned artist John Henry, entitled "Wings." The artwork was a gift to the University by the Oakley family.
- By the end of the summer, Tech will also unveil a new pedestrian walkway and plaza. It is an attractive new bricked thoroughfare across the heart of campus that will improve safety and beauty, giving the campus a parklike feel.

- Major renovations are ongoing at Johnson Hall and design is in the final detail stage. As part of that project, Foster Hall is beginning demolition and the area will be converted into greenspace for the foreseeable future.
- The JJ Oakley Innovation Residence Hall and the ACME building are progressing well now. We expect the Oakley Residence Hall to be completed for the Fall '27 semester and the ACME building design is being finalized now.
- The overall quality of campus landscaping is outstanding. The grounds crew that plans and maintains the campus landscape does an outstanding job.
- The new west side of Tucker Stadium is finishing up design and will accommodate a new home dressing room, new press box and all premium seating. Demolition on the old west side will begin in the next few weeks. The new west side is scheduled to open fall 2026.
- Dr. Oldham stated that he especially wanted to thank all our partners for making these projects possible, including the Putnam County Commission, the Cookeville City Council, Averitt Express, members of the Board of Trustees and community supporters who have given generously to help support all these efforts and many more.
- The most high-energy and enthusiastic football coach available, Bobby Wilder, was recently hired. Coach Wilder is a proven winner and fundraiser, and a new day for football is beginning at Tennessee Tech.
- Tennessee Tech's women's soccer team and men's golf team won conference championships this year. Overall, Athletics finished fourth out of 11 schools in the Conference Commissioners Cup, which is a good showing. And more importantly, our student athletes just recorded their 31<sup>st</sup> consecutive semester with an average GPA of 3.0 or better.
- Dr. Braswell and his team have worked extremely hard and are knocking on the door of close to \$16 million this year in annual fundraising. In the past four years, Tech has exceeded more than we raised in the previous five-year campaign that we thought was ambitious at the time.
- The market study was just completed, and the compensation study is being implemented. We have progressed through the first phase of implementation and are looking forward to the second phase to begin in the next couple of weeks to make certain we remain competitive for the best talent possible.
- 2023-24 has been a year of continuing and adding partnerships with the City of Cookeville, Putnam County, Chamber of Commerce, other Upper Cumberland counties and counties across the state through Rural Reimagined, school systems statewide, Averitt Express, Whisper Aero, Tennessee Valley Corridor, Oak Ridge National Labs, TVA, UCOR and many, many more. Dr. Oldham thanked each of these partners, and he stated he wanted to thank faculty and staff for giving students an excellent learning experience – second to none.
- He stated that it is important to note that we must continue to partner and be a good partner with so many great companies, like Averitt Express and Nissan, and with emerging companies like Whisper Aero. We must continue to partner with TVA, Oak Ridge National Lab, Y-12 complex, and so many other technical entities. We partnered

with other universities, community colleges and K-12 entities around the state. Most of all, we must continue to always put students first and be relevant and responsive to the expectations of our ownership group, which is quite simply, the citizens of the great state of Tennessee.

**AGENDA ITEM VII – CONSENT AGENDA – A. LEASE AGREEMENT B. EMERITUS PRESIDENT CONTRACT C. TENURE RECOMMENDATIONS**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the consent agenda. Mr. Rudd seconded the motion. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.A. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – MAINTENANCE AND MANDATORY FEES**

**1<sup>st</sup> MOTION: FY25 Increase**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the recommended FY2024-25 5.05% undergraduate maintenance; 4.99% graduate maintenance and 5% mandatory fees increase. Because the recommendation came from committee, a second was not needed. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.A. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – MAINTENANCE AND MANDATORY FEE**

**2<sup>nd</sup> MOTION: ELIMINATION**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the elimination of the pre-2020 tuition model and move all undergraduate students to the flat-rate tuition model effective fall 2025. Because the recommendation came from committee, a second was not needed. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.B. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – NON-MANDATORY FEE**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the parking fines effective fall 2024. Because the recommendation came from committee, a second was not needed. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.C. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – DUAL ENROLLMENT TUITION**



Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the dual enrollment tuition rate of \$184.80 per credit hour. Because the recommendation came from committee, a second was not needed. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.D. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – FY2023-24 ESTIMATED AND FY2024-25 PROPOSED BUDGET**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the FY2023-24 estimated and FY2024-25 proposed budgets and organizational chart. Because the recommendation came from committee, a second was not needed. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.E. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – CAPITAL BUDGET FY2025-26**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the FY2025-26 Capital Budget request. Because the recommendation came from committee, a second was not needed. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.F. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – DISCLOSED PROJECT MODIFICATION**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the disclosed project modification. Because the recommendation came from committee, a second was not needed. Mr. Rudd stated that due to the significant budget increase in the disclosed project modification, it is important to keep this project within this budget as closely as possible because the increased expense does affect the overall budget of the university. Mr. Wray called a roll call vote. The motion passed unanimously.

**AGENDA ITEM VIII.G. – AUDIT & BUSINESS COMMITTEE RECOMMENDATIONS – MASTER PLAN AMENDMENT**

Following discussion at the morning committee meeting and upon the committee's recommendation, Mr. Stites moved the Board approve the master plan amendment. Because the recommendation came from committee, a second was not needed. Dr. Luna stated that she wanted to express a safety concern about the pedestrian walkway. The route into campus to reach two of the largest parking lots crosses the pedestrian walkway. Dr. Oldham replied that the longer-range master plan calls for the parking to go away with parking to be moved to other areas but we will continue to monitor the situation and work on it. Mr. Wray called a roll call

vote. The motion passed unanimously.

#### **AGENDA ITEM IX – ELECTION OF STUDENT TRUSTEE**

Chair Harper stated that the FOCUS Act requires the Board to select a student as a non-voting member. Tennessee Tech’s Student Government Association (SGA) developed a process for selecting a candidate to present to the Board for consideration. The nominee selected by the SGA was Claire Myers.

Dr. Luna moved to approve Claire Myers to serve as the student trustee for fiscal year 2024-25. Mr. Stites seconded the motion. Mr. Wray called a roll call vote. The motion passed unanimously.

#### **AGENDA ITEM X – BOARD SECRETARY REPORT**

Mr. Wray stated that Vice-Chair Rose will coordinate the President’s evaluation and Deb Combs will communicate to Trustees when the evaluation is available in Diligent.

Mr. Wray will continue to send training materials, podcasts, FAQs, general topic points, etc. about Boards around the country to Trustees. He also stated that the Diligent Resource Center includes a wealth of good information for Trustees and others.

#### **AGENDA ITEM XI – OTHER BUSINESS – RECOGNITION OF ADDISON DORRIS AND DEANNA METTS**

Chair Harper stated that the Board had two additional items of business before adjournment. The first item was recognition of outgoing student Trustee, Addison Dorris. Addison was asked to come forward and receive a plaque recognizing her service.

The second item was recognition of Deanna Metts who is retiring after 41 years of service as the university’s Director of Internal Audit, starting her service at Tech in 1983. Deanna was asked to come forward and receive a plaque honoring her dedication and commitment.

Chair Harper also stated that Tony Nelson, University Policy Chief, recently retired and the Board wanted to thank him for his service.

#### **AGENDA ITEM XII – ADJOURNMENT**

There being no further business, the Tennessee Tech Board of Trustees meeting adjourned at 3:03 p.m.

Approved,

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Lee Wray, Secretary

DRAFT



## Agenda Item Summary

**Date:** September 26, 2024

**Agenda Item:** Student Trustee Report

Review

Action

No action required

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**PRESENTER(S):** Trustee Claire Myers

**PURPOSE & KEY POINTS:** Student Trustee Claire Myers will provide a report from the student body and reflect on the beginning of the 2024-2025 academic year as a member of the Tennessee Tech Board of Trustees.



## Agenda Item Summary

**Date:** September 26, 2024

**Agenda Item:** Certification of President's Responsibilities Related to Athletics

**Review**

**Action**

**No action required**

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**PRESENTERS:** Chair Harper

**PURPOSE & KEY POINTS:** The Ohio Valley Conference requires the Chair of the Board to attest that the President is responsible for the administration of the athletics program, he has the support of the Board in operating a program of integrity, and he may vote on behalf of the institution on NCAA and OVC matters. The Chair's attestation must also be presented to the Board.



## OHIO VALLEY CONFERENCE

### *Governing Board Certification Form Academic Year 2024-25*

As Chairman of the Governing Board at \_\_\_\_\_, I attest that:

- 1) Responsibility for the administration of the athletics program has been delegated to the Chief Executive Officer of the institution.
- 2) The Chief Executive Officer has the mandate and support of the board to operate a program of integrity in full compliance with NCAA, OVC, and all other relevant rules and regulations.
- 3) The Chief Executive Officer, in conjunction with the Director of Athletics and Faculty Athletic Representative, determines how the institutional vote shall be cast on issues of athletics policy presented to the NCAA and the Ohio Valley Conference.

Date Presented to the Governing Board: \_\_\_\_\_

Signed: \_\_\_\_\_  
(Chair of the Governing Board)

*Please return completed form to:*

*Beth DeBauche  
Commissioner  
Ohio Valley Conference  
215 Centerview Drive, Suite 115  
Brentwood, TN 37027  
bdebauche@ovc.org*



## Agenda Item Summary

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**Date:** September 26, 2024

**Agenda Item:** President's Compensation

**Review**

**Action**

**No action required**

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**PRESENTERS:** Chair Harper

**PURPOSE & KEY POINTS:** At the conclusion of the President's evaluation, the Executive Committee is responsible for making a recommendation to the Board on the President's compensation.



## Agenda Item Summary

8.1

**Date:** September 26, 2024

**Agenda Item:** Capital Budget Update

Review

Action

No action required

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**PRESENTER(S):** Dr. Claire Stinson, Vice President for Planning & Finance

**PURPOSE & KEY POINTS:**

Capital maintenance projects request for FY2025-26 was submitted to THEC on August 2, 2024. No changes were made to the capital maintenance projects approved by the Board of Trustees at their meeting in June 2024.

After many meetings with campus presidents and others from higher education campuses, THEC has decided to keep the first 5 project priorities from FY2024-25 as the top 5 priorities for the FY2025-26 budget cycle since none of these were funded in the FY2024-25 budget cycle. Our Social Sciences Building was number 5 on THEC's priority list submitted to the Governor last year and will remain number 5 on the priority list for FY2025-26.

Our second requested project is for additional funding for our Advanced Construction & Manufacturing Engineering (ACME) building to address the inflationary costs we have encountered during design of the building.



CAPITAL OUTLAY REQUEST													
FY 2025-26 thru 2029-30													
FY	Priority	Weighting Points	Institution	Project Name	Project Description**	Project Type	New Square Footage	Reno. Or Replaced SF	Project Cost	Committed External Funds	Percent Match	State Funds Request	
2025-26	1		TTU	Social Sciences Building	Demolish Matthews Daniel and Crawford Halls. Construct a new building that will provide classrooms, faculty offices and support spaces for the Colleges of Education and Arts & Sciences. The project will provide additional flexible academic space to address campus-wide space shortages for classrooms and faculty offices. Provide administrative offices for Communications & Marketing and Research & Development.	New Construction	91,000		\$100,030,000	\$8,002,400	8%	\$92,027,600	
2025-26	2		TTU	Incremental Funding for Advanced Construction & Manufacturing Engineering	The project was funded at \$62,400,000 in FY 22/23. State funding was \$57,408,000 with institutional matching of \$4,992,000. This request is for additional funding to cover inflationary costs.	New Construction	80,000		\$27,200,000	\$2,176,000	8%	\$25,024,000	
Out-Years													
FY	Priority		Institution	Project Name	Project Description	Project Type	New Square Footage	Reno. Or Replaced SF	Project Cost	Committed External Funds	Percent Match	State Funds Request	
2026-27	1			Life Sciences Building	Construct a new facility for the Life Sciences programs.	New Construction	100,000		\$103,520,000	\$8,281,600	8%	\$95,238,400	
2027-28	1			Renovate Prescott and Brown Halls	Complete renovation of Prescott and Brown Halls including, but not limited to, building systems, equipment, finishes, furnishings.	Major Renovation		166,956	\$77,310,000	\$3,092,400	4%	\$74,217,600	
2028-29	1			Memorial Gym Renovation	Renovate Memorial Gym to include building systems, equipment, finishes, furnishings, gym seating, and all related work.	Major Renovation		87,181	\$59,260,000	\$2,370,400	4%	\$56,889,600	
2029-30	1			New Engineering Building	Construct an Engineering Building to combine certain aspects of the engineering and interdisciplinary studies programs to develop an emphasis on Environmental Engineering. The project will include the demolition of the existing Southwest Hall on the building site as well as the relocation of the university's Child Development Lab.	New Construction		80,000	\$89,990,000	\$6,791,200	8%	\$83,198,800	

8.1



## Agenda Item Summary

8.2

**Date:** September 26, 2024

**Agenda Item:** Disclosed Project

**Review**

**Action**

**No action required**

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**PRESENTER(S):** Dr. Claire Stinson, Vice President for Planning & Finance

**PURPOSE & KEY POINTS:** Review and approval of disclosed project for Academic Wellness Center Renovation for Athletics.



## Agenda Item Summary

**Date:** September 26, 2024

**Division:** Planning and Finance

**Agenda Item:** Tenure Upon Appointment Recommendations

**Review**                       **Action**                       **No action required**

8.3

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**PRESENTER:** Dr. Lori Bruce, Provost

**PURPOSE & KEY POINTS:**

This tenure recommendation is being presented at the September 2024 Board meeting, as Dr. Jeffrey King, Kelly McCallister, Dr. Daren Snider, Dr. Kevin West and Dr. Jinfa Zhang were hired after the June 2024 Board meeting. Dr. King was hired as Director of Nuclear Engineering. Dean McCallister was hired as Dean of Volpe Library. Dr. Snider was hired as Dean of College of Arts and Sciences. Dr. West was hired as Chair of the Department of Chemical Engineering. Dr. Zhang was hired as Director of the School of Agriculture. All supporting documents are included.

Recommendation for tenure for each of these individuals is supported by their respective department faculty, college dean, and the provost.

Dr. Jeffrey Charles King  
Nuclear Science and Engineering Program  
Metallurgical and Material Engineering Department  
Colorado School of Mines

*a. Personal Information*

- Address and citizenship information available on request
- Education (Name and location of schools; degrees and dates)

✓ *University of New Mexico, Nuclear Engineering, Ph.D., 2006*

✓ *University of New Mexico, Nuclear Engineering, M.S., 2000*

✓ *New Mexico Institute of Mining and Technology, Environmental Engineering, B.S., 1994*

- Employment History (Date, title and major responsibilities)

Professor, *Metallurgical and Materials Engineering Dept.*, Colorado School of Mines,  
August 2021-present

Director, *Nuclear Science and Engineering Center*, Colorado School of Mines, August 2016-  
August 2022

Associate Professor, *Metallurgical and Materials Engineering Dept.*, Colorado School of  
Mines, August 2014-August 2021

Interim Director, *Nuclear Science and Engineering Program*, Colorado School of Mines,  
August 2010-August 2015

Assistant Professor, *Metallurgical and Materials Engineering Dept.*, Colorado School of  
*Mines*, August 2009-August 2014

Assistant Professor, *Mining and Nuclear Engineering Dept.*, Missouri University of Science  
*and Technology*, 2006-2009

Graduate Research Assistant, *Institute for Space and Nuclear Power Studies*, University of  
*New Mexico*, 1998-2006

Facility Representative, *In-Tank Precipitation Facility*, Savannah River Operations Office,  
1996-1998

Engineer, *Mixed/Hazardous Waste Team*, Savannah River Operations Office, 1994-1996

*b. Instructional Activities*

Course Summary @ Mines							
Course Number	Course Title	Term (F, S, SI, SII) & Year	Type (Lab, Lect, Rec, Ind Study)	Credit Hours	Percent Responsible	Number of Students	Student Survey Response
ENGY 498	Introduction to Space Nuclear Technology	S 2024	Lect	3	100	1	
NUGN 598	Space Nuclear Technology	S 2024	Lect	3	100	11	
NUGN 586	Nuclear Reactor Design II	S 2024	Lect	2	100	7	
ENGY 475	Introduction to Nuclear Engineering	F 2023	Lect	3	100	32	4.77/5.0
NUGN 585	Nuclear Reactor Design I	F 2023	Lect	2	100	8	4.33/5.0
NUGN 586	Nuclear Reactor Design II	S 2023	Lect	2	100	6	3.0/5.0
NUGN 585	Nuclear Reactor Design I	F 2022	Lect	2	100	6	5.0/5.0
MTGN 467	Materials Design and Synthesis	F 2022	Lab	2	100	69	2.8/5.0
ENGY 475	Introduction to Nuclear Engineering	F 2022	Lect	3	15	26	4.89/5.0
NUGN 599	Nuclear Material Science and Engineering	Su 2022	Ind Study	3	100	1	
NUGN 586	Nuclear Reactor Design II	S 2022	Lect	1	100	11	3.6/5.0
MTGN 300L	Foundry Metallurgy Lab	S 2022	Lab	1	50	29	
MTGN 300	Foundry Metallurgy	S 2022	Lect	2	100	29	3.93/5.0
NUGN 585	Nuclear Reactor Design I	F 2021	Lect	2	100	12	4.67/5.0
MTGN 598	Nuclear Materials Politics and Policy	F 2021	Lect	3	100	11	4.25/5.0
SPRS 598	Space Nuclear Reactor Power Systems	Su 2021	Online	3	100	23	2.46/5.0
NUGN 586	Nuclear Reactor Design II	S 2021	Lect	2	100	3	5.0/5.0
MTGN 300	Foundry Metallurgy	S 2021	Lect	2	100	18	4.5/5.0
NUGN 585	Nuclear Reactor Design I	F 2020	Lect	2	100	3	5.0/5.0
MTGN 499	Desktop Die Casting System	F 2020	Ind Study	3	100	1	

MTGN 498	Introduction to Nuclear Materials	F 2020	Lect	3	100	9	3.8/5.0
MTGN 593	Nuclear Materials Science and Engineering	F 2020	Lect	3	100	19	4.5/5.0
NUGN 586	Nuclear Reactor Design II	S 2020	Lect	2	100	7	
MTGN 499	Nuclear Materials Practicum	S 2020	Ind Study	3	100	1	
MTGN 300	Foundry Metallurgy	S 2020	Lect	2	100	18	4.7/5.0
MTGN 300L	Foundry Metallurgy Lab	S 2020	Lab	1	100	17	4.40/5.0
NUGN 599	Current Policy Topics in Nuclear Energy	F 2019	Ind Study	3	100	1	
NUGN 585	Nuclear Reactor Design I	F 2019	Lect	2	100	7	3.0/5.0
MTGN 599	Nuclear Materials and Technology in Popular Culture	F 2019	Ind Study	3	100	2	
PHGN 492	Honors Senior Design Practice	S 2019	Lab	1	100	1	
NUGN 599	Nuclear Materials Policy	S 2019	Ind Study	3	100	1	
NUGN 599	Nuclear Materials Policy	S 2019	Ind Study	2	100	1	
NUGN 586	Nuclear Reactor Design II	S 2019	Lect	2	100	8	4.0/5.0
MTGN 300	Foundry Metallurgy	S 2019	Lect	2	100	15	4.3/5.0
MTGN 300L	Foundry Metallurgy Lab	S 2019	Lab	1	100	15	4.2/5.0
PHGN 491	Honors Senior Design Practice	F 2018				1	
NUGN 585	Nuclear Reactor Design I	F 2018	Lect	2	100	8	4.0/5.0
MTGN 593	Nuclear Materials Science and Engineering	F 2018	Lect	3	100	6	4.2/5.0
NUGN 586	Nuclear Reactor Design II	S 2018	Lect	2	100	7	3.67/5.0
MTGN 300	Foundry Metallurgy	S 2018	Lect	2	100	20	4.56/5.0
MTGN 300L	Foundry Metallurgy Lab	S 2018	Lab	1	100	20	4.56/5.0
NUGN 599	Neutron Activation Analysis	F 2017	Ind Study	2	100	1	
NUGN 585	Nuclear Reactor Design I	F 2017	Lect	2	100	7	4.0/5.0

MTGN 593	Nuclear Materials Science and Engineering	F 2017	Lect	3	100	11	4.44/5.0
MTGN 298	Practical Foundry	F 2017	Studio	3	100	6	4.75/5.0
NUGN 586	Nuclear Reactor Design II	S 2017	Lect	2	100	3	
MTGN 300	Foundry Metallurgy	S 2017	Lect	2	100	10	4.14/5.0
MTGN 300L	Foundry Metallurgy Lab	S 2017	Lab	1	100	10	
NUGN 585	Nuclear Reactor Design I	F 2016	Lect	2	100	3	4.5/5.0
MTGN 593	Nuclear Materials Science and Engineering	F 2016	Lect	3	100	7	4.5/5.0
MTGN 593	Nuclear Materials Science and Engineering	F 2015	Lect	3	100	7	4.33/5.0
NUGN 586	Nuclear Reactor Design II	S 2015	Lect	2	100	6	5.0/5.0
NUGN 505	Nuclear Science and Engineering Seminar	S 2015	Lect	1	100	22	4.6/5.0
NUGN 585	Nuclear Reactor Design I	F 2014	Lect	2	100	6	3.75/4.0
NUGN 505	Nuclear Science and Engineering Seminar	F 2014	Lect	1	100	20	4.22/5.0
ENGY 340	Introduction to Nuclear Energy	F 2014	Lect	3	100	8	4.13/5.0
NUGN 586	Nuclear Reactor Design II	S 2014	Lect	2	100	5	4.3/5.0
NUGN 505	Nuclear Science and Engineering Seminar	S 2014	Lect	1	100	17	4.0/5.0
NUGN 585	Nuclear Reactor Design I	F 2013	Lect	2	100	6	3.8/4.0
NUGN 505	Nuclear Science and Engineering Seminar	F 2013	Lect	1	100	16	
ENGY 340	Introduction to Nuclear Energy	F 2013	Lect	3	100	10	3.6/4.0
NUGN 520	Introduction to Nuclear Reactor Thermal Hydraulics	S 2013	Lect	3	100	7	3.3/4.0
NUGN 586	Nuclear Reactor Design II	S 2013	Lect	2	100	12	3.3/4.0
NUGN 505	Nuclear Science and Engineering Seminar	S 2013	Lect	1	100	26	
NUGN 585	Nuclear Reactor Design I	F 2012	Lect	2	100	12	3.6/4.0

NUGN 505	Nuclear Science and Engineering Seminar	F 2012	Lect	1	100	27	
NUGN 599	Nuclear Reactor Physics	SII 2012	Ind Stud	3	100	1	
NUGN 599	Nuclear Reactor Thermal Hydraulics	SII 2012	Ind Stud	3	100	3	
NUGN 586	Nuclear Reactor Design II	S 2012	Lect	2	100	7	3.3/4.0
NUGN 505	Nuclear Science and Engineering Seminar	S 2012	Lect	1	100	25	
MTGN 593	Nuclear Materials Science and Engineering	F 2011	Lect	3	33	8	3.9/4.0
NUGN 585	Nuclear Reactor Design I	F 2011	Lect	2	100	7	3.7/4.0
NUGN 505	Nuclear Science and Engineering Seminar	F 2011	Lect	1	100	27	
NUGN 599	Benchmarking the Attila Radiation Transport Code	S 2011	Ind Stud	4	100	1	
NUGN 510	Introduction to Nuclear Reactor Physics	S 2011	Lect	3	100	11	3.5/4.0
NUGN 505	Nuclear Science and Engineering Seminar	S 2011	Lect	1	100	14	
NUGN 599	Beta-Effective Determination at the GSTR	F 2010	Ind Study	2	100	1	
NUGN 599	Monte Carlo Simulation of the Neutron Radiography Reactor	F 2010	Ind Study	2	100	1	
NUGN 505	Nuclear Science and Engineering Seminar	F 2010	Lect	1	100	16	
MTGN 593	Nuclear Materials Science and Engineering	F 2010	Lect	3	33	17	3.7/4.0
NUGN 585	Nuclear Reactor Design	F 2010	Lect	3	100	7	
NUGN 598	Nuclear Science and Engineering Seminar	S 2010	Lect	1	100	13	
NUGN 599	Heat Pipe Design and Analysis	S 2010	Ind Study	4	100	1	



PHGN 590	Introduction to Nuclear Reactor Physics	S 2010	Lect	3	100	13	3.5/4.0
PHGN 598	Nuclear Reactor Design	F 2009	Lect	3	100	8	3.4/4.0

Course Summary @ Missouri S&T							
Course Number	Course Title	Term (F, S, SI, SII) & Year	Type (Lab, Lect, Rec, Ind Study)	Credit Hours	Percent Responsible	Number of Students	Student Survey Response to "Overall Instructor Effectiveness"
NE 323	Nuclear System Design II	S 2009	Lect.	3	100	23	2.5/4.0
NE 303	Reactor Physics I	S 2009	Lect	3	100	28	2.5/4.0*
NE 311	Reactor Physics II	F 2008	Lect	3	100	10	3.3/4.0
NE 307	Nuclear Fuel Cycle	F 2008	Lect.	3	100	22	3.4/4.0*
NE 308	Reactor Laboratory II	S 2008	Lab.	2	100	33	3.2/4.0*
NE 303	Reactor Physics I	S 2008	Lect.	3	100	25	2.5/4.0*
NE 307	Nuclear Fuel Cycle	F 2007	Lect.	3	100	33	3.4/4.0*
NE 105	Introduction to Nuclear Engineering	F 2007	Lect.	2	100	8	
NE 25	Nuclear Technology Applications	F 2007	Lect.	1	100	8	3.7/4.0*
NE 308	Reactor Laboratory II	S 2007	Lab	2	100	24	3.2/4.0*
NE 303	Reactor Physics I	S 2007	Lect.	3	100	37	2.5/4.0*
NE 25	Nuclear Technology Applications	S 2007	Lect.	1	100	9	3.7/4.0*
NE 307	Nuclear Fuel Cycle	F 2006	Lect.	3	100	28	3.4/4.0*

\* course average while at Missouri S&T (individual scores erased by iCloud)

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*c. Scholarly Activities*

Graduate Students Advised\*

Student Name	Faculty Role (Advisor or Coadvisor)	Degree & Year	Funding Source (Self, Faculty Member's Grant, Other Faculty Member)
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2027**	Faculty Member's Grant
[REDACTED]	Primary Advisor	Ph.D. Nuclear Engineering, 2027**	Faculty Member's Grant
[REDACTED]	Advisor	M.S. Nuclear Engineering, 2024**	External Fellowship
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2024**	Faculty Member's Grant
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2024**	Faculty Member's Grant
[REDACTED]	Advisor	Ph.D. Materials Science, 2023	Faculty Member's Grant
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2021	Faculty Member's Grant
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2020	Home Government Support
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2017	Faculty Member's Grant
[REDACTED]	Co-Advisor	Ph.D. Operations Research, 2017	Faculty Member's Grant, Other Faculty Member
[REDACTED]	Advisor	Ph.D. Nuclear Engineering, 2016	Startup Funds, Faculty Member's Grant

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██████████	Advisor	M.S. Nuclear Engineering, 2016	NSA TA Funds, Faculty Member's Grant
██████████	Advisor	Ph.D. Nuclear Engineering, 2015	Home Government Support
██████████	Advisor	Ph.D. Nuclear Engineering, 2015	Home Government Support
██████████	Advisor	M.S. Nuclear Engineering, 2015	Faculty Member's Grant
██████████	Advisor	Ph.D. Nuclear Engineering, 2015	Startup Funds, Faculty Member's Grant
██████████	Advisor	M.S. Nuclear Engineering, 2014	NSE TA Funds, Donated Funds
██████████	Advisor	M.S. Nuclear Engineering, 2013	NSE TA Funds, Donated Funds
██████████	Co-Advisor	Ph.D. Materials Science, 2013	Faculty Member's Grant, National Laboratory Tuition Fellowship
██████████	Advisor	M.S. Nuclear Engineering, 2013	Faculty Member's Grant
██████████	Advisor	Ph.D.. Nuclear Engineering, 2013	External Fellowship
██████████	Advisor	M.S. Nuclear Engineering, 2013	Faculty Member's Grant
██████████	Advisor	M.S. Nuclear Engineering, 2012	Faculty Member's Grant
██████████	Advisor	M.S. Nuclear Engineering, 2009	Startup funds

\* Does not include >50 non-thesis Masters degrees advised

\*\* Expected

\*\*\* While at Missouri S&T

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## Funded Grants and Contracts

Project Title	Sponsor	Project Duration	Total Grant Amount	PI Share of Grant	List of PIs/Notes
Colorado School of Mines Nuclear Science and Engineering Fellowship Program	U.S. Nuclear Regulatory Commission	4/1/2023-3/31/2027	\$400,000	\$400,000	Jeff King (PI)
Development of Hydrogen Transport Models for High Temperature Metal Hydride Moderators	U.S. Department of Energy (Nuclear Energy University Programs)	10/1/2022-9/30/2025	\$800,000	\$640,000	Jeff King (PI)
In Situ Hydrogen Quantification, Migration, and Hydride Studies	Fluor Marine Propulsion, LLC (U.S. Naval Reactors)	9/1/2022-9/30/2024	\$260,236	\$260,236	Jeff King (PI)
Colorado School of Mines Nuclear Science and Engineering Fellowship Program	U.S. Nuclear Regulatory Commission	4/1/2022-3/31/2026	\$400,000	\$400,000	Jeff King (PI)
Big, Deep, and Smart Data to Support VTR Experiment Design and Validation	Pacific Northwest National Laboratory	11/2018-4/2020	\$169,057	\$84,529	Jeff King (PI), Xiaoli Zhang (Co-PI), Michael Wakin (Co-PI)
Mechanical Testing and Characterization Upgrades to Support Nuclear Energy Additive Manufacturing Research	U.S. Department of Energy (Nuclear Energy University Programs)	10/2018-9/2021	\$172,752	\$172,752	Jeff King (PI)
Colorado School of Mines Nuclear Science and Engineering Fellowship Program	U.S. Nuclear Regulatory Commission	7/2018-6/2022	\$400,000	\$400,000	Jeff King (PI)
Experimental and Computational Research to Support Development of Neutron Radiography Capabilities	Idaho National Laboratory	10/2017-9/2020	\$135,259	\$135,259	Jeff King (PI)

Colorado School of Mines Nuclear Science and Engineering Fellowship Program	U.S. Nuclear Regulatory Commission	7/2017-12/2021	\$400,000	\$400,000	Jeff King (PI)
Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques	U.S. Department of Energy (Nuclear Energy University Programs)	10/2016-9/2022	\$2,529,985	\$499,928	Jeff King (PI), project includes \$2,030,057 for access to the Nuclear Science User Facilities
Development of a New Approach for PIE at INL	Idaho National Laboratory	5/2016-7/2016	\$18,396	\$18,396	Jeff King (PI)
Colorado School of Mines Nuclear Science and Engineering Fellowship Program	U.S. Nuclear Regulatory Commission	9/2015-5/2020	\$400,000	\$400,000	Jeff King (PI)
Energy Project Planning for Large-Scale Energy Production at Department of Energy Sites	National Renewable Energy Laboratory	1/2015-3/2015	\$60,046	\$20,015	Cynthia Howell (PI), Jeremy Boak (co-PI), Jeff King (co-PI)
Colorado School of Mines Online Nuclear Reactor Laboratory	U.S. Department of Energy (Nuclear Energy University Programs)	9/2014-9/2016	\$215,372	\$215,372	Jeff King (PI), Mark Jensen (Co-PI), Jenifer Shafer (Co-PI)
Nuclear Reactor Teaching Laboratory Upgrades for the Colorado School of Mines	U.S. Department of Energy (Nuclear Energy University Programs)	12/2013-2/2015	\$38,528	\$38,528	Jeff King (PI)
Development of Automated Image Analysis Capabilities in Support of RERTR Fuel Development	Idaho National Laboratory	10/2012-5/2015	\$210,802	\$210,802	Jeff King (PI)
Fuel Cycle Uncertainty and Perturbation Analysis in Support of Safeguards Decision-Making	National Nuclear Security Administration	8/2012-6/2017	\$689,594	\$689,594	Jeff King (PI), Cory Ahrens (Co-PI), Sean Morrell (INL) (Co-PI), Steve Piet (INL) (Co-PI)

Upgrades to the Colorado School of Mines Neutron Imaging Beamline	U.S. Department of Energy (Nuclear Energy University Programs)	7/2012-7/2015	\$139,611	\$139,611	Jeff King (PI)
Automated Serial Sectioning and Imaging in Support of Nuclear Materials Analysis	U.S. Department of Energy (Nuclear Energy University Programs)	7/2012-7/2014	\$254,052	\$254,052	Jeff King (PI)
Imaging, Visualization, and Detection Upgrades for the Colorado School of Mines Nuclear Science and Engineering Program	U.S. Department of Energy (Nuclear Energy University Programs)	12/2011-3/2014	\$64,738	\$32,369	Jeff King (PI), Brian Gorman (Co-PI)
Safety Analysis Support for the USGS Research Reactor	Idaho National Laboratory	5/2011-8/2012	\$76,586	\$76,586	Jeff King (PI)
A Combined Nuclear and Renewable Solution to Decarbonizing the Electric Sector	Joint Institute for Strategic Energy Analysis	1/2011-9/2011	\$50,000	\$14,375	Paul Denholm (NREL) (PI), Jeff King (PI), Paul Wilson (UW-M) (Co-PI), Charles Kutscher (NREL) (Co-PI)
Neutron Beam Characterization at the Neutron Radiography Reactor	Idaho National Laboratory	1/2011-12/2012	\$176,078	\$176,078	Jeff King (PI)
Colorado School of Mines Faculty Development Program	U.S. Nuclear Regulatory Commission	8/2011-8/2014	\$450,000	\$450,000	Tom Boyd (PI), Jeff King (co-PI)
High Resolution Digital Imaging and Computed Neutron Tomography at the Colorado School of Mines	U.S. Department of Energy (Nuclear Energy University Programs)	9/2010-9/2012	\$142,460	\$142,460	Jeff King (PI), Brian Gorman (Co-PI)
Sub-Micrometer Scale Tomography Examination of Activated Materials at the Colorado School of Mines	U.S. Department of Energy (Nuclear Energy University Programs)	9/2010-8/2012	\$208,550	\$104,275	Jeff King (PI), Brian Gorman (Co-PI)

Preparation of Samples for Offsite Post-Irradiation Examination Using Focused Ion Beam Techniques	Idaho National Laboratory	3/2010-5/2011	\$89,844	\$53,906	Jeff King (PI), Brian Gorman (Co-PI), Michael Kaufman (Co-PI), Ivar Reimanis (Co-PI)
Micro-Structural Finite Element Analysis of the Thermal and Mechanical Properties of Plate-Type U-xMo Dispersion Fuels	Idaho National Laboratory	2/2010-8/2011	\$76,021	\$76,021	Jeff King (PI)
Colorado School of Mines Nuclear Science and Engineering Graduate Fellowship Program	U.S. Nuclear Regulatory Commission	5/2010-12/2014	\$368,425	\$368,425	Jeff King (PI), Linda Figueroa (Co-PI)
Colorado School of Mines Combined BS/MS Nuclear Program Undergraduate Scholarships	U.S. Nuclear Regulatory Commission	8/2009-5/2013	\$86,400	\$86,400	Jeff King (PI), Uwe Greife (Co-PI)
Total Funding			\$9,082,792	\$6,719,969	

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*d. Publications and Presentations*

Author ordering in nuclear engineering publications developed in academia is typically in contribution order. In a paper with student contributors, all of the students will usually be listed before the advisor(s) and laboratory researchers. After the students, the author ordering is usually the advisors and co-advisors first, followed by any laboratory researchers in contribution order; however, this is not a hard and fast rule.

Theses/Dissertations

This section includes my thesis and dissertation and any theses/dissertations where I was the primary or co-primary advisor.

- 21) Graham, M.W., *Effect of neutron irradiation damage on the microstructural and mechanical properties of precipitation hardened Inconel 718 produced by laser-based additive manufacturing techniques*, Ph.D. Thesis, Colorado School of Mines, 2023, <https://hdl.handle.net/11124/178649>.
- 20) Collette, R.A., *Impact of cellular dislocation structures produced by additive manufacturing on neutron damage evolution in stainless steel 316L*, Ph.D. Thesis, Colorado School of Mines, 2021, <https://hdl.handle.net/11124/176434>.
- 19) Mencarini, L.d.H, *Mass and shielding optimization studies for a low enriched uranium fueled kilowatt space nuclear reactor*, Ph.D. Thesis, Colorado School of Mines, 2020, <https://hdl.handle.net/11124/174062>.
- 18) Shugart, N., *Development of a safeguards process simulation for open and closed nuclear fuel cycles*, Ph.D. Thesis, Colorado School of Mines, 2017, <http://hdl.handle.net/11124/170997>.
- 17) Johnson, B.L., *Operations research applications in nuclear energy*, Ph.D. Thesis, Colorado School of Mines, 2017, <http://hdl.handle.net/11124/170687>.
- 16) Washington, J.A., *The optimization of an AP1000 fuel assembly for the transmutation of plutonium and minor actinides*, Ph.D. Thesis, Colorado School of Mines, 2016, <http://hdl.handle.net/11124/170051>.
- 15) Wilson, C.R., *Beamline improvements to the Mines NEutron Radiography (MINER) facility*, M.S. Thesis, Colorado School of Mines, 2016, <http://hdl.handle.net/11124/170599>.
- 14) Alameri, S.A., *A coupled nuclear reactor thermal energy storage system for enhanced load following operation*, Ph.D. Thesis, Colorado School of Mines, 2015, <http://hdl.handle.net/11124/17109>.
- 13) Alkaabi, A.K., *Thermal hydraulics modeling of the US Geological Survey TRIGA reactor*, Ph.D. Thesis, Colorado School of Mines, 2015, <http://hdl.handle.net/11124/20148>.

- 12) Collette, R.A., *Automated characterization of uranium-molybdenum fuel microstructures*, M.S. Thesis, Colorado School of Mines, 2015, <http://hdl.handle.net/11124/17131>.
- 11) Baker, M.P., *Alternative forming fluids for TRISO fuel kernel production*, Ph.D. Thesis, Colorado School of Mines, 2014, <http://hdl.handle.net/11124/473>.
- 10) Labib, S.I., *Design analysis and risk assessment for a single stage to orbit nuclear thermal rocket*, M.S. Thesis, Colorado School of Mines, 2014, <http://hdl.handle.net/11124/80818>.
- 9) Coulson, B., *Two- and three-dimensional thermal analyses of uranium/molybdenum dispersion fuel microstructures*, M.S. Thesis, Colorado School of Mines, 2013, <http://hdl.handle.net/11124/78958>.
- 8) Coulson, R., *Numerical modeling of a lead melting front under the influence of natural convection*, M.S. Thesis, Colorado School of Mines, 2013, <http://hdl.handle.net/11124/79469>.
- 7) Craft, A.E., *Design, construction, and demonstration of a neutron beamline and a neutron imaging facility at a Mark-I TRIGA reactor*, Ph.D. Thesis, Colorado School of Mines, 2013, <http://hdl.handle.net/11124/78115>.
- 6) Shugart, N.E., *Neutronic and thermal hydraulic analysis of the geological survey TRIGA reactor*, M.S. Thesis, Colorado School of Mines, 2013, <http://hdl.handle.net/11124/78955>.
- 5) Teague, M.C., *Characterization and modeling of high burn-up mixed oxide fuel*, Ph.D. Thesis, Colorado School of Mines, 2013, <http://hdl.handle.net/11124/78991>.
- 4) Morgan, S., *Beam characterization at the neutron radiography reactor*, M.S. Thesis, Colorado School of Mines, 2012, <http://hdl.handle.net/11124/76838>.
- 3) Craft, A.E., *Mass optimization studies of reactivity control schemes and radiation shielding options for space nuclear reactors*, M.S. Thesis, Missouri University of Science and Technology, 2009.
- 2) King, J.C., *The effects of spectral shift absorbers on the design and safety of fast spectrum space reactors*, Ph.D. Dissertation, University of New Mexico, 2006.
- 1) King, J.C., *Performance and stress analysis of Nb-1Zr/C-103 multitube, vapor-anode AMTEC cells for space applications*, M.S. Thesis, University of New Mexico, 2000.

#### Journal Articles

Mines student authors are marked with a "\*", student authors at other institutions are marked with a "\*\*\*". The primary advising author is marked with a "#", co-advisors are marked with a "##".

- 48) Collette, R.\*, King, J.#, Cheng, S., Wu, Y., "Post-Irradiation Examination of AM-Induced Cellular Dislocation Structures in Stainless Steel 316L," *Journal of Nuclear Materials*. (in development)

- 47) Collette, R.\*, King, J.#, Amin-Ahmadi, B., "Investigation of the Cellular Dislocation Structures in Additively Manufactured Stainless Steel 316L and their Potential Impact on Radiation Tolerance," *Journal of Nuclear Materials*. (in development)
- 46) Dorville, J.\*, Tellez, J.\*, Glatt, C.\*, Osbourne, A.##, Shafer, J.##, King, J.#, "Design of a Low Enrichment Uranium Reactor to Power a Future Matian Colony," *Nuclear Technology*, 2022, vol. 208 (suppl 1), pp. S26-S51, doi: [10.1080/00295450.2022.2072649](https://doi.org/10.1080/00295450.2022.2072649).
- 45) King, J.C.#, Mencarini, L.d.H.\*, "Shielding Analysis for a Moderated Low-Enriched Uranium Fueled Kilowatt Reactor," *Nuclear Technology*, 2022, vol 208, pp. 1137-1148, doi: [10.1080/00295450.2021.2004870](https://doi.org/10.1080/00295450.2021.2004870).
- 44) King, J.#, Collette, R.\*, Amin-Ahmadi, B., Cheng, S., Wu, Y., "Post-Irradiation Analysis of Additively Manufactured Stainless Steel 316L Specimens," *Microscopy and Microanalysis*, 2021, vol. 27 (suppl 1), paper 2156, doi: [10.1017/S1431927621007777](https://doi.org/10.1017/S1431927621007777).
- 43) Collette, R.\*, King, J.#, "Molecular Dynamics Simulations of Radiation Cascade Evolution Near Cellular Dislocation Structures in Additively Manufactured Stainless Steels," *Journal of Nuclear Materials*, 2021, vol. 549, doi: [10.1016/j.jnucmat.2021.152872](https://doi.org/10.1016/j.jnucmat.2021.152872).
- 42) Graham, M.W.\*, King, J.C.#, Pavlov, T.R., Adkins, C.A., Middlemas, S.C., Guillen, D.P., "Impact of Neutron Irradiation on the Thermophysical Properties of Additively Manufactured Stainless Steel and Inconel," *Journal of Nuclear Materials*, 2021, vol. 549, doi: [10.1016/j.jnucmat.2021.152861](https://doi.org/10.1016/j.jnucmat.2021.152861).
- 41) Alameri, S. A.\*, King, J.C.#, Alkaabi, A.K.\*, Addad, Y., "Prismatic-core advanced high temperature reactor and thermal energy storage coupled system – A preliminary design," *Nuclear Engineering and Technology*, 2020, vol. 52, pp. 248-257, doi: [10.1016/j.net.2019.07.028](https://doi.org/10.1016/j.net.2019.07.028).
- 40) Akyurek, T.\*\*, Vaz, W.\*\*, Alajo, A., King, J., Usman, S., Castano Giraldo, C.H.#, "Neutron reflector analysis for the beam-port of the Missouri S&T Reactor," *Journal of Radioanalytical and Nuclear Chemistry*, 2019, vol. 322, pp. 975–98, doi: [10.1007/s10967-019-06752-x](https://doi.org/10.1007/s10967-019-06752-x).
- 39) Alkaabi, A.K.\*, King, J.C.#, "Benchmarking COMSOL Multiphysics Single-Subchannel Thermal-Hydraulic Analysis of a TRIGA Reactor with RELAP5 Results and Experimental Data," *Science and Technology of Nuclear Installations*, 2019, Article ID 4375782, doi: [10.1155/2019/4375782](https://doi.org/10.1155/2019/4375782).
- 38) Johnson, B.L.\*, Porter, A.T., King, J.C.##, Newman, A.M.#, "Optimally Configuring a Measurement System to Detect Diversions from a Nuclear Fuel Cycle," *Annals of Operations of Research*, 2019, vol. 275, pp. 393-420, doi: [10.1007/s10479-018-2940-x](https://doi.org/10.1007/s10479-018-2940-x).
- 37) Mencarini, L.d.H.\*, King, J.C.#, "Fuel geometry options for a moderated low-enriched uranium kilowatt-class space nuclear reactor," *Nuclear Engineering and Design*, 2018, vol. 340, pp. 122-132, doi: [10.1016/j.nucengdes.2018.09.017](https://doi.org/10.1016/j.nucengdes.2018.09.017).

- 36) Shugart, N.\*, Johnson, B.\*, King, J.#, Newman, A.##, "Optimizing Nuclear Material Control and Accountability Measurement Systems," *Nuclear Technology*, 2018, vol. 204, pp. 260-282, doi: [10.1080/00295450.2018.1478056](https://doi.org/10.1080/00295450.2018.1478056).
- 35) Shugart, N.\*, King, J.#, Jacobson, J., "Examining Fuel-Cycle Scenarios with the Safeguards Analysis Toolbox," *Nuclear Technology*, 2018, vol. 204, pp. 147-161, doi: [10.1080/00295450.2018.1469350](https://doi.org/10.1080/00295450.2018.1469350).
- 34) Wilson, C.\*, King, J.#, "Computational analysis supporting the design of a new beamline for the Mines Neutron Radiography Facility," *Physics Procedia*, 2017, vol. 88, pp. 331-339, doi: [10.1016/j.phpro.2017.06.045](https://doi.org/10.1016/j.phpro.2017.06.045).
- 33) Shugart, N.\*, King, J.#, "A New Modeling Technique to Analyze Safeguards Measurements in Large Systems," *Nuclear Technology*, 2017, vol. 199, pp. 129-150, doi: [10.1080/00295450.2017.1334435](https://doi.org/10.1080/00295450.2017.1334435).
- 32) Richardson, B.\*\*, King, J., Alajo, A., Usman, S., Giraldo, C.H.C.#, "Modeling and Validation of Temperature and Void Coefficients of Reactivity Experiments at the Missouri S&T Research Reactor," *Nuclear Science and Engineering*, 2017, vol. 187, pp. 100-106, doi: [10.1080/00295639.2017.1292089](https://doi.org/10.1080/00295639.2017.1292089).
- 31) Johnson, B.\*, Newman, A.#, King, J.##, "Optimizing high-level nuclear waste disposal within a deep geologic repository," *Annals of Operations Research*, 2017, vol. 253, pp. 733-755, doi: [10.1007/s10479-016-2194-4](https://doi.org/10.1007/s10479-016-2194-4).
- 30) Washington, J.\*, King, J.#, Shayer, Z., "Target fuels for plutonium and minor actinide transmutation in pressurized water reactors," *Nuclear Engineering and Design*, 2017, vol. 313, pp. 53-72, doi: [10.1016/j.nucengdes.2016.11.033](https://doi.org/10.1016/j.nucengdes.2016.11.033).
- 29) Washington, J.\*, King, J.#, "Optimization of plutonium and minor actinide transmutation in an AP100 fuel assembly via a genetic search algorithm," *Nuclear Engineering and Design*, 2017, vol. 311, pp. 199-212, doi: [10.1016/j.nucengdes.2016.11.030](https://doi.org/10.1016/j.nucengdes.2016.11.030).
- 28) Collette, R.\*, King, J.#, Buesch, C., Keiser, D.D., Jr., Williams, W., Miller, B.D., Schulthess, J., "Analysis of Irradiated U-7wt%Mo Dispersion Fuel Microstructures Using Automated Image Processing," *Journal of Nuclear Materials*, 2016, vol. 475, pp. 94-104, doi: [10.1016/j.jnucmat.2016.03.028](https://doi.org/10.1016/j.jnucmat.2016.03.028).
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- 26) Labib, S.\*, King, J.#, "Initial Risk Assessment for a Single Stage to Orbit Nuclear Thermal Rocket," *Nuclear Engineering and Design*, 2015, vol. 287, pp. 19-35, doi: [10.1016/j.nucengdes.2015.02.004](https://doi.org/10.1016/j.nucengdes.2015.02.004).
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### Conference Papers

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#### Conference/Technical Meeting Abstracts

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- 10) Mencarini, L.d.H.\*, King, J.C.#, "Moderator Configuration Options for Low-Enriched Uranium Fueled Kilowatt-Class Space Nuclear Reactors," Nuclear and Emerging Technologies for Space (NETS-2016), Huntsville, AL, February 21-25, 2016.
- 9) Johnson, B.\*, King, J.##, Newman, A.M.#, "Optimizing the Placement of Radioactive Isotope Measurement Devices in a Nuclear Fuel Cycle," 2015 INFORMS Annual Meeting, Philadelphia, PA, November 1-4, 2015.

- 8) Johnson, B.\*, King, J.##, Newman, A.M.#, "Improving the Tractability of a Nuclear Waste Disposal Optimization Problem," 2014 INFORMS Annual Meeting, San Francisco, CA, November 9-12, 2014.
- 7) King, J.C.#, Labib, S.I.\*, "Risk Assessment for the Ground Launch of a Single Stage to Orbit Nuclear Thermal Rocket," Nuclear and Emerging Technologies for Space (NETS-2014), John C. Stennis Space Center, MI, February 24-26, 2014.
- 6) Johnson, B.\*, Newman, A.#, King, J.##, "Nuclear Waste Disposal Optimization: Yucca Mountain Case Study," 2013 INFORMS Annual Meeting, Minneapolis, MN, October 6-9, 2013.
- 5) King, J.C.##, Rister, B.\*, Bahun, G.\*, Medvedev, P.G., "Two- and three-dimensional thermal analyses of uranium-molybdenum dispersion fuel microstructures," Materials Modeling and Simulation for Nuclear Fuels (MMSNF-2011), Aix en Provence, France, September 26-28, 2011.
- 4) Shugart, N.E.\*, King, J.C.#, Farwell, C.L.\*, "Neutronic and Thermal Hydraulic Analyses of the GSTR," Test, Research and Training Reactor Annual Conference (TRTR-2011), Idaho Falls, ID, September 12-14, 2011.
- 3) Craft, A.\*, King, J.C.#, "Neutron Imaging at the Colorado School of Mines," Test, Research and Training Reactor Annual Conference (TRTR-2011), Idaho Falls, ID, September 12-14, 2011.
- 2) Morgan, S.\*, King, J.C.#, "Neutron Beam Characterization at the GSTR and NRAD," Test, Research and Training Reactor Annual Conference (TRTR-2011), Idaho Falls, ID, September 12-14, 2011.
- 1) Gilfillan, G.\*, King, J.C.#, "Determination of Reactor Kinetics Parameters Using Cherenkov Radiation," American Nuclear Society Student Conference, Atlanta, GA, April 14-17, 2011.

#### Poster Sessions

Mines student authors are marked with a "\*", student authors at other institutions are marked with a "\*\*\*". The primary advising author is marked with a "#", co-advisors are marked with a "##".

- 14) Collette, R.\*, King, J.C.#, Keiser, D., Jr., Schulthess, J., "Automated Fission Gas Void Identification in Uranium Molybdenum Fuels," Nuclear Materials 2014, Clearwater, FL, November 27-30, 2014.
- 13) Collette, R.\*, King, J.C.#, Keiser, D., Jr., Schulthess, J., "A Curtaining Removal Technique for Focused Ion Beam Milled U-Mo Fuels," American Nuclear Society Summer Meeting Student Poster Session, Reno, NV, June 15-19, 2014.
- 12) Baker, M.P.\*, King, J.C.#, Gorman, B.P., "Kernel Production Using Straight-Chain Halocarbon Forming Fluids," American Nuclear Society Winter Meeting Student Poster Session, Washington, DC, November 10-14, 2013.

- 11) Fitzwater, S.\*, Shugart, N.\*, King, J.#, Piet, S., Jacobson, J., "Reducing the Uncertainty Surrounding Diversion Scenarios Via Simulated Safeguards Measurements," American Nuclear Society Winter Meeting Student Poster Session, Washington, DC, November 10-14, 2013.
- 10) Washington, J.\*, King, J.C.#, "Maximizing Transmutation by the Optimization of Absorber Selection and Placement in PWR Assemblies," American Nuclear Society Winter Meeting Student Poster Session, Washington, DC, November 10-14, 2013.
- 9) King, J.C.\*, Ahrens, C.A., Piet, S., Morrell, S., "Fuel Cycle Uncertainty and Perturbation Analysis in Support of Safeguards Decision-Making," University and Industry Technical Interchange Review Meeting (UITI-2013), Lansing, MI, June 4-6, 2013.
- 8) Baker, M.P.\*, King, J.C.#, Gorman, B.P., "Testing of Alternative Forming Fluids for TRISO Fuel Kernel Production Using Surrogate Yttria Stabilized Zirconia," Nuclear Materials 2012, Osaka, Japan, October 21-25, 2012.
- 7) Coulson, B.R.\*, Bahun, G.E.\*, King, J.C.#, Medvedev, P.G., "Two- and Three-Dimensional Thermal Analyses of Uranium-Molybdenum Dispersion Fuel Microstructures," American Nuclear Society Winter Meeting Student Poster Session, Washington, DC, October 31, 2011.
- 6) Coulson, R.C.\*, King, J.C.#, "Numerical Modeling of a Lead Melting Front Under the Influence of Natural Convection," American Nuclear Society Winter Meeting Student Poster Session, Washington, DC, October 31, 2011.
- 5) King, J.C.#, Rister, B.\*, Bahun, G.\*, Medvedev, P.G., "Two- and three-dimensional thermal analyses of uranium-molybdenum dispersion fuel microstructures," F-BRIDGE School 2011, Cambridge, UK, September 19-23, 2011.
- 4) Dunlap, M.\*, King, J.#, "Benchmarking the Attila Radiation Transport Code," 2011 American Nuclear Society Student Conference Poster Session, Atlanta, GA, April 15, 2011.
- 3) Khane, V.B.\*\*\*, Craft, A.E.\*, Rister, B.R.\*, Drera, S.S.\*, King, J.C.#, Medvedev, P.G., "Microstructural Finite Element Analyses of Plate-Type Uranium-Molybdenum Dispersion Fuel Microstructures," American Nuclear Society Winter Meeting Student Poster Session, Las Vegas, NV, November 7-11, 2010.
- 2) Morgan, S.\*, Manning, B.\*\*\*, Addanki, N.\*\*\*, Trubilla, M.\*\*\*, Howe, S., King, J.#, "10 kWe Radioisotope Powered Pulsed Brayton Cycle for Space Applications," American Nuclear Society Winter Meeting Student Poster Session, Las Vegas, NV, November 7-11, 2010.
- 1) Khane, V.B.\*\*\*, Craft, A.E.\*, Rister, B.R.\*, Drera, S.S.\*, King, J.C.#, Medvedev, P.G., "Microstructural Finite Element Analyses of Plate-Type Uranium-Molybdenum Dispersion Fuel Microstructures," Nuclear Materials 2010, Karlsruhe, Germany, October 4-7, 2010.

### Technical Reports

Mines student authors are marked with a "\*", student authors at other institutions are marked with a "\*\*". The primary advising author is marked with a "#", co-advisors are marked with a "##".

- 5) Graham, M., Zymbaluk, J., Cartes, A., King, J., "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques - Pre-Irradiation Thermophysical Testing Report," Department of Energy Award DE-NE0008590, Colorado School of Mines, September 30, 2020.
- 4) Graham, M.\*, Cartes, A.\*, Collette, R.\*, Rimroth, T.\*, Ghiglieri, C.\*, King, J.#, "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques - Pre-Irradiation Microstructural Evaluation Report," Department of Energy Award DE-NE0008590, Colorado School of Mines, February 28, 2020.
- 3) Graham, M.\*, Becquet, C.\*, Collette, R.\*, King, J.#, "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques - Pre-Irradiation Mechanical Testing Report," Department of Energy Award DE-NE0008590, Colorado School of Mines, July 19, 2019.
- 2) Collette, R.\*, Rimroth, T.\*, Ghiglieri, C.\*, King, J.#, "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques - Pre-Irradiation Characterization Report," Department of Energy Award DE-NE0008590, Colorado School of Mines, July 3, 2018.
- 1) Kandt, A., Elgqvist, E., Gagne, D., Hillesheim, M., Walker, A., King, J., Boak, J., Washington, J.\*, Sharp, C., "Large-Scale Power Production Potential on U.S. Department of Energy Lands," National Renewable Energy Laboratory Report TP-7A40-70526, November, 2017.

### Popular Press Articles

- 1) King, J.C., "What Happened at Fukushima?," *Electric Energy*, 2011, issue 2, pp. 35-36.

### Presentations/Seminars (given by me)

- 82) King, J.C., panelist, *Infrastructure, Regulation, and Workforce Development Needs*, Universities Space Research Association Space Nuclear Technology Symposium, March 21, 2024.

- 81) King, J.C., Long, A.M, and Luther, E., *Development of Hydrogen Transport Models for High Temperature Metal Hydride Moderators*, Microreactor Program Review, March 5-6, 2023.
- 80) King, J.C., *New Nuclear? Recent Advances in Fission and Fusion Energy Technologies*, Minnesota Rural Electric Association Winter Member Services Conference, January 11, 2024
- 79) King, J.C., moderator, *Nuclear Fusion: Will Ignition Lead to Liftoff?*, Colorado Rural Electric Association Energy Innovations Summit, October 11, 2023.
- 78) King, J.C., *Introduction to Nuclear Energy Technologies*, International School on Materials for Energy and Sustainability, July 2-9, 2023.
- 77) King, J.C., Long, A.M, and Luther, E., *Development of Hydrogen Transport Models for High Temperature Metal Hydride Moderators*, Microreactor Program Review, March 8-9, 2023.
- 76) King, J.C, *Fission vs Fusion – Thoughts, Reflections and History*, Colorado Rural Electric Association Energy Innovations Summit, February 23, 2023.
- 75) King, J.C., moderator, *Small Modular Reactors: The Key to a Carbon Free Future*, Colorado Rural Electric Association Energy Innovations Summit, November 7, 2022.
- 74) King, J.C., “Nukes in Space! The Future of Space Exploration,” New Brunswick Nuclear Science Week Webinar, October 19, 2022.
- 73) King, J.C., moderator, *The New Space Race is Going Nuclear*, American Nuclear Society Webinar, August 4, 2022.
- 72) King, J.C., “Space Nuclear Applications for Plutonium,” *Not all Plutonium is Created Equal?*, Executive Panel, American Nuclear Society Annual Meeting, June 12-15, 2022.
- 71) King, J.C., “Irradiation Testing of Commercially-Produced Additively Manufactured Specimens,” Advanced Methods for Manufacturing Technologies Monthly Meeting, June 2, 2022.
- 70) King, J.C., “University Contributions to the Development of Fission Surface Power Systems,” Fission Surface Power (FSP) Panel, Nuclear and Emerging Technologies for Space (NETS-2022), May 8-12, 2022.
- 69) King, J.C, “Irradiation Performance Testing of Specimens Produces by Commercially Available Additive Manufacturing Techniques,” Alliance for the Development of Additive Processing Technologies (ADAPT) research presentation, January 24, 2022.
- 68) King, J.C, “Irradiation Performance Testing of Specimens Produces by Commercially Available Additive Manufacturing Techniques,” Nuclear Science User Facilities Program Review, November 9-10, 2021.
- 67) King, J.C., “Post-Irradiation Analysis of Additively Manufactured Stainless Steel 316L Specimens,” Microscopy and Microanalysis (M&M 2021), August 1-5, 2021.



- 66) King, J.C., moderator, *Per Nuclear Ad Astra - The Future of Space Nuclear Technologies*, Virtual Executive Panel, American Nuclear Society Virtual Annual Meeting, June 14-16, 2021.
- 65) King, J.C., "Shielding analysis for a moderated low-enriched uranium fueled Kilopower reactor," Nuclear and Emerging Technologies for Space (NETS-2021), Knoxville, TN, April 26-30, 2021.
- 64) King, J.C., "Irradiation Testing of Commercially-Produced Additively Manufactured Specimens," Advanced Methods for Manufacturing Technical Review Webinar, December 2-3, 2020.
- 63) King, J.C., moderator, *ANS Position Statement on the Use of Low Enriched Uranium in Space*, Virtual Panel, American Nuclear Society Virtual Winter Meeting, November 16-19, 2020.
- 62) King, J.C., "Irradiation Testing of Commercially-Produced Additively Manufactured Specimens," ADAPT 2020 Virtual Workshop, September 1-2, 2020.
- 61) King, J.C., moderator, *ANS Position Statement on the Use of Low Enriched Uranium in Space*, Virtual Panel, American Nuclear Society Virtual Annual Meeting, June 8-11, 2020.
- 60) King, J.C., "Irradiation Testing of Commercially-Produced Additively Manufactured Specimens," Advanced Methods for Manufacturing Technical Review Webinar, December 17-18, 2019.
- 59) King, J.C., "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques," Advanced Manufacturing for Nuclear Workshop & Advanced Methods for Manufacturing Annual Program Review, Knoxville, TN, December 4-6, 2019.
- 58) King, J.C., "Space Nuclear Power Systems – LEU vs HEU Tradeoffs," Nuclear Energy in Space: Nonproliferation Risks and Solutions, Washington, DC, October 17, 2019.
- 57) King, J.C., "Space Nuclear Power Systems – The LEU Opportunity?" Nuclear Science and Engineering Seminar Series, Golden, CO, October 8, 2019.
- 56) King, J.C., "Irradiation Testing of Commercially-Produced Additively Manufactured Specimens," Idaho National Laboratory Seminar, Idaho Falls, ID, September 18, 2019.
- 55) King, J.C., "Irradiation Testing of Commercially-Produced Additively Manufactured Specimens," ADAPT Members Meeting, Golden, CO, September 11, 2019.
- 54) King, J., Zhang, X., Wakin, M., "Big, Deep, and Smart Data to Support VTR Experiment Design and Validation," Versatile Test Reactor Quarterly Meeting, Salt Lake City, UT, November 28-29, 2018.

- 53) King, J.C., "Neutron Radiography and Additive Manufacturing Research at the Colorado School of Mines Nuclear Science and Engineering Center," University of New Mexico Nuclear Engineering Seminar, Albuquerque, NM, October 16, 2018.
- 52) King, J.C., "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques," Alliance for the Development of Additive Processing Technologies Members Meeting, Golden, CO, October 11, 2017.
- 51) King, J.C., "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques," Nuclear Energy Enabling Technologies – Advanced Manufacturing Methods Workshop, Idaho Fall, ID, October 4-5, 2017.
- 50) King, J.C., "Neutron Irradiation Damage in Additively Manufactured Alloys – Can We 3-D Print Better Nuclear Materials?" Renewable Energy Research Experience for Undergraduates seminar, Golden, CO, July 6, 2017.
- 49) King, J.C., "Space Nuclear and Nuclear Materials Research at the Colorado School of Mines," invited lecture at the Missouri University of Science and Technology, Rolla, MO, November 11, 2016.
- 48) King, J.C, and Van Bossuyt, D., "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques," Nuclear Science User Facilities Annual Review, Germantown, MD, November 1-2, 2016.
- 47) King, J.C, and Van Bossuyt, D., "Irradiation Performance Testing of Specimens Produced by Commercially Available Additive Manufacturing Techniques," Nuclear Energy Enabling Technologies – Advanced Manufacturing Methods Workshop, Germantown, MD, October 17-18, 2016.
- 46) Wilson, C.\*, and King, J., "Design and Upgrades to the Mines Neutron Radiography Facility," 8th International Topical Meeting on Neutron Radiography, Beijing, China, September 4-8, 2016.
- 45) King, J.C., "Submersion Criticality Analyses and Significance for Space Reactor Design," American Nuclear Society Annual Meeting, New Orleans, LA, June 12-16, 2016.
- 44) Mencarini, L.d.H.\*, and King, J.C., "Moderator Configuration Options for Low-Enriched Uranium Fueled Kilowatt-Class Space Nuclear Reactors," Nuclear and Emerging Technologies for Space (NETS-2016), Huntsville, AL, February 21-25, 2016.
- 43) King, J.C., Newman, A., Ahrens, C., Jacobson, J., Shugart, N.\*, and Johnson, B.\*, "Fuel Cycle Uncertainty and Perturbation Analysis in Support of Safeguards Decision-Making," University and Industry Technical Interchange Review Meeting (UITI-2015), Anne Arbor, MI, June 2-4, 2015.

- 42) King, J., and Washington, J.\*, "Nuclear Resources on U.S. Department of Energy Sites," Second Meeting of the Committee on Energy Resource Potential for DOE Lands, National Renewable Energy Laboratory, Golden, CO, May 20, 2015.
- 41) King, J.C., Ahrens, C.A., Jacobson, J., Sanders, J., Bean, R., Shugart, N.\*, and Fitzwater, S.\*, "Fuel Cycle Uncertainty and Perturbation Analysis in Support of Safeguards Decision-Making," University and Industry Technical Interchange Review Meeting (UITI-2014), Walnut Creek, CA, June 3-5, 2014.
- 40) King, J.C., "Nuclear Thermal Propulsion Options for the 21st Century," invited lecture at the Missouri University of Science and Technology, Rolla, MO, April 25, 2014.
- 39) King, J.C., "The Nuclear Science and Engineering Program and Nuclear Research at the Colorado School of Mines," invited lecture at the University of Utah, Salt Lake City, UT, April 23, 2014.
- 38) King, J.C., and Labib, S.I.\*, "Risk Assessment for the Ground Launch of a Single Stage to Orbit Nuclear Thermal Rocket," Nuclear and Emerging Technologies for Space (NETS-2014), John C. Stennis Space Center, MI, February 24-26, 2014.
- 37) King, J.C. and Labib, S.I.\*, "Evaluation of the Surface Launch of a Single-Stage-to-Orbit Nuclear Thermal Rocket," invited lecture at the 2013 International Nuclear Atlantic Conference (INAC-2013), Associacao Brasileira De Energia Nuclear, Recife, Brazil, November 24-29, 2013.
- 36) Al Ameri, S.\*, and King, J.C., "A Coupled Nuclear Reactor Thermal Energy Storage System for Enhanced Load Following Operation," 2013 International Nuclear Atlantic Conference (INAC-2013), Associacao Brasileira De Energia Nuclear, Recife, Brazil, November 24-29, 2013, Session R14.
- 35) King, J.C., "Nuclear Fuel Cycle," invited seminar for Minergy, Colorado School of Mines, CO, October 23, 2013.
- 34) King, J.C., "Introduction to Nuclear Energy and the Nuclear Fuel Cycle," 2013 Research Experience for Undergraduates Seminar, Colorado School of Mines, CO, June 24, 2013.
- 33) King, J.C., "Nuclear Science and Engineering Research at the U.S. Geologic Survey TRIGA Reactor," 2013 Alumni Symposium, Colorado School of Mines, CO, April 27, 2013.
- 32) King, J.C., "Space Nuclear Reactor Design Challenges," American Nuclear Society Student Conference, Boston, MA, April 5, 2013.
- 31) King, J.C., "Update on Fukushima Daiichi – Consequences and Cleanup," invited lecture for LAIS 589, Colorado School of Mines, CO, November 20, 2012.
- 30) King, J.C., "Colorado School of Mines Research at the U.S. Geologic Survey TRIGA Reactor," invited lecture at Penn State, State College, PA, November 8, 2012.

- 29) King, J.C., "Update on Fukushima Daiichi – Consequences and Cleanup," 18th Annual American Industrial Hygiene Association Rocky Mountain Section Fall Technical Conference, Arvada, CO, September 25, 2012.
- 28) King, J.C., "Constructing and Authoring Research Papers," invited lecture for the Center for Space Nuclear Research, Idaho Falls, ID, July 12, 2012.
- 27) King, J.C., "Reactivity and Kinetics," invited lectures for NUGN 510, Colorado School of Mines, Golden, CO, April 17&19, 2012.
- 26) King, J.C., "Introduction to Nuclear Energy," Renewable Energy Materials Research Center Lunch Meeting, Colorado School of Mines, Golden, CO, April 18, 2012.
- 25) King, J.C., "Introduction to Nuclear Reactor Physics and the Neutron Life Cycle," invited lecture to RSEI5200, University of Colorado, Boulder, CO, March 15, 2012.
- 24) King, J.C., "What Do Nuclear Engineers Do?" Federal Investment in Nuclear Engineering Programs, Foundation for Nuclear Studies, Washington, DC, February 29, 2012.
- 23) King, J.C., "Introduction to Nuclear Energy and Engineering," invited lecture for ENGY 200, Colorado School of Mines, Golden, CO, February 23, 2012.
- 22) King, J.C., "The Fukushima Nuclear Accident – Causes and Consequences," Failure Analysis Seminar, New Mexico Institute of Mining and Technology, Socorro, NM, October 20, 2011.
- 21) King, J.C., "Perspectives of Fukushima," Rocky Mountain Association of Energy Engineers 12th Annual Energy Forum, Denver, CO, October 13, 2011.
- 20) King, J.C., Rister, B.\*, Bahun, G.\*, and Medvedev, P.G., "Two- and three-dimensional thermal analyses of uranium-molybdenum dispersion fuel microstructures," Materials Modeling and Simulation for Nuclear Fuels (MMSNF-2011), Aix en Provence, France, September 26-28, 2011.
- 19) King, J.C., "Constructing and Authoring Research Papers," invited lecture for the Center for Space Nuclear Research, Idaho Falls, ID, July 28, 2011.
- 18) King, J.C., "A Bright Future for Nuclear Power – Visions for 10, 25, and 100 Years From Now," Colorado School of Mines Alumni Symposium, Houston, TX, June 2, 2011.
- 17) King, J.C., "Perspectives on Fukushima," Colorado School of Mines Chapter of the American Nuclear Society Public Forum, Golden, CO, April 20, 2011.
- 16) King, J.C., "Evolution of the Fukushima Daiichi Event and Possible Impacts," Colorado Energy Coalition, Denver, CO, April 20, 2011.
- 15) King, J.C., "Evolution of the Accident at the Fukushima Daiichi Nuclear Power Plant," Colorado Section of the American Nuclear Society, Golden, CO, April 12, 2011.

- 14) King, J.C., "Update on the Accident at the Fukushima Daiichi Nuclear Power Plant," Materials Science Seminar, Colorado School of Mines, Golden, CO, March 23, 2011.
- 13) King, J.C., "A Bright Future for Nuclear Power – Visions for 10, 25, and 100 Years From Now," Colorado School of Mines Alumni Symposium, Washington, DC, March 17, 2011.
- 12) King, J.C., "Nuclear Power – Visions for the Future and the Mines Connection," Materials Science Seminar, Colorado School of Mines, Golden, CO, March 3, 2011.
- 11) King, J.C., "A Bright Future for Nuclear Power – Visions for 10, 25, and 100 Years From Now," Colorado School of Mines Alumni Symposium, Denver, CO, February 17, 2011.
- 10) King, J.C., "A Bright Future for Nuclear Power – Closing the Fuel Cycle and New Reactor Designs," EPA Region 8 Panel on Nuclear Power: Past, Present and Future, Denver, CO, October 19, 2010.
- 9) King, J.C., "Computational Modeling and Post Irradiation Examination Capabilities at the Advanced Test Reactor National Scientific User Facility," Advanced Test Reactor National Scientific User Facility Users Week, Idaho Falls, ID, June 7-10, 2010.
- 8) King, J.C., "The Nuclear Fuel Cycle – Part II," invited lecture for ENGY200, Colorado School of Mines, Golden, CO, April 8, 2010.
- 7) King, J.C., "The Nuclear Fuel Cycle in Brief," invited lecture for ENGY200, Colorado School of Mines, Golden, CO, March 25, 2010.
- 6) King, J.C., "Space Nuclear Power and Propulsion", American Institute of Aeronautics and Astronautics Colorado State University Chapter Meeting, Fort Collins, CO, March 9, 2010.
- 5) King, J.C., "Finite Element Analysis of High-Burnup Uranium/Molybdenum Dispersion Fuel Microstructures," American Society of Materials Rocky Mountain Chapter Meeting, Golden, CO, March 4, 2010.
- 4) King, J.C., "Space Nuclear Opportunities at the Colorado School of Mines," Space Nuclear Systems Forum-2010, Huntsville, AL, February 9-11, 2010.
- 3) King, J.C., "Finite Element Analysis of High-Burnup Uranium/Molybdenum Dispersion Fuel Microstructures," Materials Research Seminar, Colorado School of Mines, Golden, CO, January 28, 2010.
- 2) King, J.C., Invited Panelist, "Night with a Futurist – Small Modular Reactors", sponsored by the DaVinci Institute, Westminster, CO, January 4, 2010.
- 1) King, J.C., "Nuclear Science and Engineering Research at the Colorado School of Mines," invited lecture for ENGY200, Colorado School of Mines, Golden, CO, October 7, 2009.

*e. Honors, Awards and Recognitions*

The structure of the Mines Nuclear Science and Engineering Program is not terribly conducive to the accumulation of NSE-related awards and honors. As far as I can tell, I am the only active member of the American Nuclear Society in the MME department, and the MME awards committee is not focused on nuclear science and engineering award nominations.

Internal to Mines, I was appointed one of the inaugural class of Mines Public Policy Fellows. The Public Policy Fellows were selected for a year-long program to develop our media outreach and public policy skills, so the Fellows to serve as effective public experts from.

I am particularly proud to have been selected as one of the inaugural “Job/McAuliffe Award for Perseverance at Mines” Most Inspirational Faculty Members in May of 2023. This award was a result of my commitment to helping my students chart a course to succeed despite the challenges life inevitably springs on us.

External to Mines, I was nominated as one of two candidates for President of the American Nuclear Society. Elections were held in the Spring of 2023. While I was not chosen as the next President-Elect, being nominated as one of two candidates this year is a strong indication of my recognition and stature in my professional community.

I continue to serve as a Governor’s appointee on the Colorado Radiation Advisory Committee, which provides expert advice on radiation safety to the state of Colorado.

*f. Service and Mentoring Activities (last six years)*

2023

- Executive Committee, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Program Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Member, *Education, Training and Workforce Development Division*, American Nuclear Society
- Member, *Professional Divisions Committee*, American Nuclear Society
- Executive Committee, *Student Sections Committee*, American Nuclear Society
- Member, *First of a Kind Reactor Startup Standards Working Group*, American Nuclear Society
- Review Team Member, *University of Utah Nuclear Science and Engineer Program Review*
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR) Research & Development* grant program
- Reviewer, *Nuclear Regulatory Commission Research and Development* grant program
- Reviewer for the *American Nuclear Society Summer and Winter Meetings*
- Session Chair, *American Nuclear Society 2023 Annual Meeting*
- Session Chair, *American Nuclear Society 2023 Winter Meeting*
- President, Mines Faculty Senate
- Member, MME Graduate Affairs Committee
- Member, Nuclear Science and Engineering Center
- Director, Colorado School of Mines Nuclear Science and Engineering Fellowship Program
- Member, Alliance for the Development of Additive Processing Technologies
- Founding Advisor, Colorado School of Mines Student Chapter of the American Nuclear Society
- Member, Colorado Radiation Advisory Committee
- Review Team Member, University of Utah CORE Facility Review Team
- Activity Leader, Full STEM Ahead summer camp

2022

- Executive Committee, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Program Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Member, *Education, Training and Workforce Development Division*, American Nuclear Society
- Member, *Professional Divisions Committee*, American Nuclear Society
- Executive Committee, *Student Sections Committee*, American Nuclear Society
- Member, *First of a Kind Reactor Startup Standards Working Group*, American Nuclear Society
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR) Research & Development* grant program
- Reviewer, *Nuclear Regulatory Commission Research and Development* grant program
- Reviewer, *Nuclear Regulatory Commission Scholarship* grant program
- Reviewer for *Nuclear and Emerging Technologies for Space (NETS-2022)* and the *American Nuclear Society Summer and Winter Meetings*
- Session Chair, *American Nuclear Society 2022 Annual Meeting*
- Session Chair, *American Nuclear Society 2022 Winter Meeting*
- Executive Committee Member and President, Mines Faculty Senate
- Chair, Mines Undergraduate Council
- Faculty Representative, Colorado Higher Learning Commission Re-Accreditation Steering Committee
- Member, Academic Standards (grade appeals) Committee
- Member, MME Building and Space Committee
- Member, MME Graduate Affairs Committee
- Director, Nuclear Science and Engineering Center
- Director, Colorado School of Mines Nuclear Science and Engineering Fellowship Program
- Member, Alliance for the Development of Additive Processing Technologies
- Founding Advisor, Colorado School of Mines Student Chapter of the American Nuclear Society
- Member, Colorado Radiation Advisory Committee
- Activity Leader, Full STEM Ahead summer camp



2021

- Ex-Officio Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Program Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Member, *Education, Training and Workforce Development Division*, American Nuclear Society
- Member, *Professional Divisions Committee*, American Nuclear Society
- Executive Committee, *Student Sections Committee*, American Nuclear Society
- Member, *Additive Manufacturing-Testing and Specifications Committee*, American Foundry Society
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR) Research & Development* grant program (2 proposals)
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR) Infrastructure* grant program (30+ proposals)
- Reviewer, *Nuclear Regulatory Commission Research and Development* grant program (8 proposals)
- Reviewer, *Nuclear Regulatory Commission Faculty Development* grant program (8 proposals)
- Reviewer for *Nuclear and Emerging Technologies for Space (NETS-2021)* and the *American Nuclear Society Summer and Winter Meetings*
- Session Chair, *American Nuclear Society 2021 Annual Meeting*
- Session Chair, *American Nuclear Society 2021 Winter Meeting*
- Reviewed Papers for *Progress in Nuclear Energy, Nuclear Technology, Nuclear Engineering and Design, Journal of Nuclear Materials*
- Executive Committee Member, Mines Faculty Senate
- Chair, Mines Undergraduate Council
- Member, Academic Standards (grade appeals) Committee
- Member, Hill Hall Safety Committee
- Member, MME Building and Space Committee
- Member, MME Finance Committee
- Director, Nuclear Science and Engineering Center
- Director, Colorado School of Mines Nuclear Science and Engineering Fellowship Program
- Member, Alliance for the Development of Additive Processing Technologies
- Advisor, Colorado School of Mines Student Chapter of the American Nuclear Society
- Advisor, Students for Creative Anachronism

2020

- Division Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Program Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Member, *Education, Training and Workforce Development Division*, American Nuclear Society
- Member, *Professional Divisions Committee*, American Nuclear Society
- Executive Committee, *Student Sections Committee*, American Nuclear Society
- Member, *Additive Manufacturing-Testing and Specifications Committee*, American Foundry Society
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR)* grant program
- Proposal Reviewer, *Nuclear Regulatory Commission Research and Development* grant program
- Proposal Reviewer, *Nuclear Regulatory Commission Faculty Development* grant program
- Reviewer for *Nuclear and Emerging Technologies for Space (NETS-2021)*
- Session Chair, *American Nuclear Society Summer and Winter Meetings*
- Reviewed Papers for *Progress in Nuclear Energy, Nuclear Technology, Nuclear Engineering and Design*
- Executive Committee Member, Mines Faculty Senate
- Chair, Mines Undergraduate Council
- Member, Academic Standards (grade appeals) Committee
- Member, MME Safety Committee
- Member, MME Building and Space Committee
- Member, MME Finance Committee
- Member, MME Undergraduate Affairs Committee
- Director, Nuclear Science and Engineering Center
- Director, Colorado School of Mines Nuclear Science and Engineering Fellowship Program
- Member, Alliance for the Development of Additive Processing Technologies
- Advisor, Colorado School of Mines Student Chapter of the American Nuclear Society
- Advisor, Students for Creative Anachronism

2019

- Division Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Program Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Member, *Education, Training and Workforce Development Division*, American Nuclear Society
- Member, *OneANS Advisory Committee*, American Nuclear Society
- Member, *Student Sections Committee*, American Nuclear Society
- Member, *Additive Manufacturing-Testing and Specifications Committee*, American Foundry Society
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR)* grant program
- Reviewer for *Nuclear and Emerging Technologies for Space (NETS-2019)* and the *American Nuclear Society Summer and Winter Meetings*
- Session Chair, *Nuclear and Emerging Technologies for Space (NETS-2019)* and the *American Nuclear Society Summer and Winter Meetings*
- Reviewed Papers for *Materials Characterization, Nuclear Technology, Engineering Materials and Technology, and the Journal of the Korean Physical Society*
- Session Chair, *American Nuclear Society Winter and Summer Meetings, NETS-2019*
- Member, Mines Faculty Senate
- Member and Chair, Academic Standards (grade appeals) Committee
- Member, Student Conduct Appeals Committee
- Chair, Faculty Senate Ad-Hoc Committee on Academic Misconduct
- Manager, Hot Shop and Foundry
- Chair, Hill Hall Safety Committee
- Member, MME Building and Space Committee
- Member, MME Finance Committee
- Member, MME Undergraduate Affairs Committee
- Director, Nuclear Science and Engineering Center
- Director, Colorado School of Mines Nuclear Science and Engineering Fellowship Program
- Member, Alliance for the Development of Additive Processing Technologies
- Member, University Research Compliance Officer Search Committee
- Advisor, Colorado School of Mines Student Chapter of the American Nuclear Society
- Advisor, Students for Creative Anachronism

2018

- Division Chair, *Aerospace Nuclear Science and Technology Division*, American Nuclear Society
- Member, *Student Sections Committee*, American Nuclear Society
- Proposal Reviewer, *Consolidated Nuclear Innovative Research (CINR)* grant program
- Reviewer for the *American Nuclear Society Winter Meeting*
- Session Chair, *American Nuclear Society Winter Meeting*
- Reviewed Papers for *Progress in Nuclear Energy, Nuclear Technology, Nuclear Engineering and Design, Annals of Nuclear Energy*, and *Heliyon*
- Member, Mines Faculty Senate
- Member and Chair, Academic Standards (grade appeals) Committee
- Manager, Hot Shop and Foundry
- Chair, Hill Hall Safety Committee
- Director, Nuclear Science and Engineering Center
- Director, Colorado School of Mines Nuclear Science and Engineering Fellowship Program
- Member, Alliance for the Development of Additive Processing Technologies
- Advisor, Colorado School of Mines Student Chapter of the American Nuclear Society
- Advisor, Students for Creative Anachronism

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**KELLY C. MCCALLISTER**



**EDUCATION**

EdD, Educational Leadership	December 2024	Appalachian State University
MLIS, Library & Information Science	2004	University of Southern Mississippi
MA, Anthropology	2004	University Of Southern Mississippi
BA, Anthropology	2001	Mississippi State University

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**PROFESSIONAL LIBRARY EXPERIENCE**

<b>Appalachian State University, Boone, NC</b>	<i>7/2013-present</i>
<i>Associate Professor/ Associate Dean of University Libraries</i>	<i>3/2021-present</i>
<i>Associate Professor/ Interim Associate Dean of University Libraries</i>	<i>12/2019- 02/2021</i>

Assessment-Planning-Budget

- Annual assessment data collection reporting for Institutional Research, Assessment and Planning
- Added Library Annual Reports and other assessment data to Xitracs software.
- Working with the University Strategic Plan and University Academic Assessment Council committees.
- Wrote a Periodic Comprehensive Review of seven years of library resources and services data.
- Served as external review for other campus departments and their reviews.
- SACSCOC assessment reporting, team meetings and external reviews.
- 5 years experience with University Libraries budget.

Communication and Advocacy

- Lead initiative with library supervisors to create portfolio projects and real world experience for library student workers.
- Provided foundational funding for library faculty & staff to find and utilize professional Development resources locally, regionally and nationally.
- Worked with SLC, CAE, AppState Online and Student Services to create an Student Keep Learning Guide to help students <https://studentlearningcenter.appstate.edu/> to help students attend classes online
- Worked with University Sustainability and library donors to create a Food Resources Hub to be housed in the Belk Library & Information Commons and Hickory Campus buildings.

- Served (s) on multiple committees for non-traditional students such as transfer, online and student veterans and diversity and inclusion (both as faculty and an administrator).
- Negotiating with the Office of International Education and Development and the Center for Academic Excellence to provide international and domestic opportunities for library Faculty to further their research and achieve our goals for Global Learning and collaboration.
- Collaborated with several campus departments to help faculty and students make the transition to online teaching during the COVID crisis.
- Served on ALA, ACRL and NCLA committees.

#### Positive Productive Work Culture

- Met monthly and advocated for library leadership, faculty and staff to help achieve their goals and help plan future projects.
- Provided several different means of emotional support and assistance to faculty, staff and student workers during the COVID crisis.
- With guidance from the Dean, revamped the library committee structure and organized it so that library staff and faculty could have the autonomy to create projects and make decisions, and kept up with term limits and library faculty/staff involvement.
- Created partnerships and collaborations with campus departments to provide service, scholarship, event and assessment assistance.
- Provided portfolio opportunities for student workers to improve library online learning objects, events, website and marketing of the collections.

#### Leadership/Faculty and Staff Affairs

- Collected a list of uncompleted projects and requests from Library teams from the previous academic year and provided approval, resources and guidance for the teams to complete.
- Was the interim HR Specialist until a replacement was hired.
- Facilitate with library and staff issues in regards to job performance, concerns and grievances.
- Approver within the hiring process.
- Completed required HR actions and deadlines as requested.
- Chair of Bivens Grant to provide professional development opportunities for employees.
- Represented the Dean in university, state and library committees as needed.

#### *Associate Professor/Information Literacy Librarian for Non Traditional Populations* 7/2019-12/2019

- Serve as a library advocate for nontraditional students and faculty, including working with the distance education student advisory group.
- Serve as the key person for library policy questions related to distance education, transfer services, and the student veterans center.
- Maintain and develop relationships with distance education cohort coordinators, directors, and program managers and monitor new distance education offerings.
- Ensure that the instruction and research needs of nontraditional students are met.
- Teach in the information literacy instruction program and provide research assistance for on-campus and distance education students.
- Train other librarians to teach distance education instruction sessions.

- Maintain the web content for nontraditional student library services.
- Served on ALA, ACRL and NCLA committees.

*Assistant Professor/Distance Education Librarian*

7/2013-6/2019

- Serve as a library advocate for Distance Education students and faculty, including working with the distance education student advisory group.
- Serve as the key person for library policy questions related to distance education, transfer services, and the student veterans center.
- Maintain and develop relationships with distance education cohort coordinators, directors, and program managers and monitor new distance education offerings.
- Ensure that the instruction and research needs of Distance Education students are met.
- Teach in the information literacy instruction program and provide research assistance for on-campus and distance education students.
- Train other librarians to teach distance education instruction sessions.
- Maintain the web content for Distance Education library services.

**Full Sail University, Winter Park, FL**

5/2010-6/2013

*Director of Library Services*

- Supervised over 40 students and four professional staff.
- Wrote the library report for Accrediting Commission of Career Schools and Colleges (ACCSC) (the library was rated in the top three departments in that review)
- Managed electronic resources/online databases.
- Website construction and maintenance.
- Created and implemented strategic plans, library assessment, library policies, and how-to guides.
- Head of Collection Development process.
- Created and implemented library instruction seminars and podcast/video tutorials for over 17,000 online/on campus students, faculty and staff.
- Responsible for training and supervising library staff and work study.
- Evaluated and recommended emerging internet resources.
- Negotiated licensing agreements with vendors and consortia.
- Lead a migration to Koha library software.
- Provided portfolio opportunities for student workers to improve library online learning objects, events, website and marketing of the collections.
- Created and implemented a Food Pantry in the library.

**Bethel University, McKenzie, TN**

*Cataloger/Electronic Services Librarian/Assistant Professor of Library Science*

9/2007 – 5/ 2010

- Supervised staff and students.
- Managed electronic resources/online databases.
- Website construction and maintenance using Site Mason.
- Managed and maintained ILLiad requests and services.
- Assisted in the creation of strategic plans, library assessment, library policies, and how-to guides.

- Participated in the Collection Development process.
- Creation and implementation of Distance Education program until the hiring of a Full-time Distance Education Librarian.
- Primary Cataloger using Library World and OCLC Connexion Client.
- Travel to satellite campuses teaching facilitators and students library services and research techniques.
- Evaluated and recommended emerging internet resources.
- Provided portfolio opportunities for student workers to improve library online learning objects, events, website and marketing of the collections.
- Assisted with accreditation report for SACSCOC.

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**Visible Music College, Lakeland, TN**

*Administrative Librarian/Assistant Professor of General Education*

8/2005 – 9/2007

- Supervised 10+ student workers.
- Primary cataloger using BookWhere Online.
- Wrote collection development policy, library manual, and library assessment plan.
- Developed and maintained relationships with prospective and current grant funders.
- Identified, developed, and maintained grants that fund programs and services.
- Prepared proposals and budgets.
- Organize and order textbook and library supplies.
- Maintained library budget.
- SACSCOC assessment reporting, team meetings and external reviews.
- Provided portfolio opportunities for student workers to improve library online learning objects, events, website and marketing of the collections.
- Created and implemented a Food Pantry and provided cooking classes.

**Edgecombe County Memorial Library, Tarboro, NC**

*Youth Services/Reference Librarian*

8/2003 – 7/2004

- Supervised one staff member.
- Created reference service, readers' advisory service, information, and referral services to children, teens, and adults who care for youth.
- Provided recreational and informational programs for youth and adults associated with them.
- Developed and maintained a collection in a variety of formats, to serve current needs and in anticipation of future needs of youth, parents and other adults who care for youth.
- Planned budgets, directed, coordinated, supervised and trained others at various levels. Integrated collections and services for youth into the library as a whole.
- Assisted in the creation of strategic plans, library assessment, library policies and how-to guides.



**PROFESSIONAL TEACHING AND WRITING EXPERIENCE**

<b>Appalachian State University, Boone, NC</b>	
<i>Associate Professor/Information Literacy Librarian for Non Traditional Populations</i>	7/2019-12/2019
<i>Assistant Professor/Distance Education Librarian</i>	7/2013-6/2019
<b>Bethel University, McKenzie, TN</b>	
<i>Bethel University Facilitator in Anthropology</i>	8/2008 – 5/2017
<b>Kelly Educational Staffing Services, Orlando, FL</b>	3/2011-5/2011
<i>Substitute Teacher</i>	
<b>ESP, Inc., Orlando, FL</b>	1/2011-2/2011
<i>Temporary Proposal Specialist</i>	
<b>Bush Enterprises, Inc., Orlando, FL</b>	6/2010 - 1/2011
<i>Senior Technical Writer</i>	
<b>Visible Music College, Lakeland, TN</b>	8/2005 – 9/2007
<i>Administrative Librarian/Assistant Professor of General Education</i>	

**PROFESSIONAL CONSULTING EXPERIENCE**

<b>Oxford Graduate School, Dayton, TN</b>	2/2007 – 2/2009
<i>Library Consultant</i>	
<b>Visible Music College, Lakeland, TN</b>	9/2007 – 6/2008
<i>Library Consultant</i>	
<b>Watkins College of Art, Design &amp; Film, Nashville, TN</b>	2006
<i>Library Consultant</i>	

**OTHER PROFESSIONAL EXPERIENCE**

<b>University of North Carolina at Chapel Hill, Chapel Hill, NC</b>	9/2004 – 7/2005
<i>Program Assistant V</i>	
<b>Various Cultural Resource Management Firms</b>	2001-2004
<i>Archaeologist/Field Technician</i>	
<b>University of Southern Mississippi, Hattiesburg, MS</b>	7/2002 – 8/2003
<i>Graduate Assistant in Library and Information Science</i>	

University of Southern Mississippi, Hattiesburg, MS  
Graduate Assistant in Anthropology

8/2001 – 8/2003

### PUBLICATIONS

Croxtton, R. A., Price, B., McCallister, K., Dusto, D., McLellan, A., Bourne, B., Collogan, J., and Brown, W. K. (2022). Inter-institutional mobile hotspot lending program handbook.

<http://hdl.handle.net/20.500.13093/work:283>

Morton, K., & McCallister, K. C. (2022). Creating a strategic plan for the transfer student experience. *Strategic Enrollment Management Quarterly*, 10(2), 41-47. Retrieved from <https://login.proxy006.nclive.org/login?url=https://www.proquest.com/scholarly-journals/creating-strategic-plan-transfer-student/docview/2697174600/se-2>

McCallister, K. C., Rhodes, K. C. & Gregor, M. N. (2021) Getting A Return on Your Investment: Librarians and Transfer Students In Transfer Student Success: Advancing Outcomes from the Library. *American Library Association Editions*. (Book, Chapter in Scholarly Book)

Harlow, S. & McCallister, K. (2019) Chapter 2: Clearing a Pathway to Success: Online Graduate Students and Promoting Library Resources. In. C. Renfro & C. Stiles (Eds.), *Transforming Libraries to Serve Graduate Students* (2020). Chicago: ACRL Publishing

Peuler, M. & McCallister, K. (2018). Virtual and Valued: A Review of the Successes (and a Few Failures) of the Creation, Implementation, and Evaluation of an Inaugural Virtual Conference and Monthly Webinars. *Journal of Library & Information Services in Distance Learning*.

<https://doi.org/10.1080/1533290X.2018.1499240>

Rhodes-McBride, K., Gregor, M., & McCallister, K. (2017). Bridging the Gap: Developing Library Services and Instructional Programs for Transfer Students at Appalachian State University. *References Services Review*. 45, (3) 498-510.

McCallister, K.C. & Peuler, M. (September 2016). Beware the Power of the Donut: A successful case study of a DE library, departmental, faculty and student collaborations. *Journal of Library & Information Services in Distance Learning*. 1-9

McBride, K, McCallister, K & Gambrell, K. (2016) Community College & Transfer Student Interviews: Approach to Research and Information Literacy Skills. *EBSCO Information Services User Research Report*. <https://www.ebsco.com/>.

Johnson, K. W., & McCallister, K. C. (November 2015). Assessing the 24/5 Library: a Case Study in Data and Perspectives. *Journal of Access Services*. 12:3-4.

McCallister, K.C. (September 2015). ACRL in San Francisco: ACRL programs at the ALA Annual Conference [Intentional teaching online]. *College & Research Libraries News*, 76, (8) 420.

McCallister, K.C., Gregor, M.N. and Joyner, D.W. (2015), "Librarians collaborate! Working across two- and four-year institutions to teach information literacy skills", in Mueller, D. M. (Ed.), *Creating Sustainable Community: The Proceedings of the Association of College and Research Libraries 2015 Conference*, March 25–28, 2015, Portland, Oregon. Association of College and Research Libraries, Chicago, IL, pp. 436-442.

McClave, Kelly C. (August 2004): A Little Turn-of-the-Century-Town in the Piney Woods: An Ethnohistorical Examination of Howison, Mississippi. Master's thesis in Anthropology. University of Southern Mississippi, Hattiesburg, Mississippi.

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### CHOICE REVIEWS

June 2018. The Archaeology of Utopian and Intentional Communities. *Choice Reviews/Online*, 55, 10.

May 2018. Archaeologies of African American life in the upper Mid-Atlantic. *Choice Reviews/Online*, 55, 9.

October 2017. Historical archaeology through a Western lens. *Choice Reviews/Online*, 55, 2

September 2017. Three stones make a wall: the story of archeology. *Choice Reviews/Online*, 55, 1

December 2015. Slavery behind the wall: an archeology of a Cuban coffee plantation. *Choice Reviews Magazine/Online*, 53, 4.

October 2015. The archeology of race in the northeast. *Choice Reviews Magazine/Online*, 53, 2.

August 2015. Tobacco, pipes, and race in Colonial Virginia: little tubes of mighty power. *Choice Reviews Magazine/Online*, 52, 12.

June 2015. The archeology of smoking and tobacco. *Choice Reviews Magazine/Online*, 52, 10.

January 2015. The archeology of American cities. *Choice Reviews Magazine/Online*, 52, 5.

December 2014. Ruin memories: materiality, aesthetics and the archaeology of the recent past. *Choice Reviews Magazine/Online*, 52, 4.

August 2014. Hidden history: African American cemeteries in central Virginia. *Choice Reviews Magazine/Online*, 51, 12.

### SPEAKING ENGAGEMENTS

Award Presenter for University College & General Education Awards Ceremony: Transfer Champion Award (November 28, 2022). Appalachian State University

Keynote speaker for Tau Sigma Induction Ceremony (October 17, 2021). Appalachian State University.

## PRESENTATIONS & CONFERENCES

### UNIVERSITY

McCallister, K & Peuler, M. (July 2018). Free Learning Conference, “*Virtual Conferences & Webinars 101*” Appalachian State University, Boone, NC.

McCallister, K. & Maiden, E. (July 21, 2017). Free Learning Conference, “*Let's get Digital: A Review of the Successes (and a Few Failures) of the Creation, Implementation, and Evaluation of an Inaugural Virtual Conference and Monthly Webinars.*” Appalachian State University, Boone, NC.

McCallister, K. (February 17, 2017). Tech4Teach Fair 2017, “*Providing Professional Development Opportunities Using Zoom.*” Appalachian State University, Boone, NC.

McCallister, K. C. (July 24, 2015). FreeLearning Conference 2015, “*On Demand, Online Instruction*” Learning Technology Services, Appalachian State University.

McCallister, K. C., (March 20, 2015). Tech4Teach Fair, “*Bridging the Isolation Gap of DE Students and Faculty: How Webinars and ASULearn Are Creating Sustainable Online Communities,*” Appalachian State University, Boone, NC.

McCallister, K. C. Gregor, M. N. & Donovan, G. L.,(October 24, 2014). Transfer Symposium: A Campus Conversation about Transfer Student Success, “*Poster Presentation: Research Put into Action,*” Department of Transfer Students, Appalachian State University.

McCallister, K. C. Rhodes, T., Livas, M., (July 25, 2014). FreeLearning Conference 2014, “*Do you want to build a snowman? : Methods for Library Outreach and Collaboration,*” Learning Technology Services, Appalachian State University.

### REGIONAL

Holman, L., McCallister, K., Hisle, D. & Crowe, S. (November 11, 2022). North Carolina Council of Graduate Schools Annual Meeting, “*Navigating Chartered and Uncharted Waters: Academic Libraries and Graduate Student Success*”, Wilmington, NC.

McCallister, K. & Natale, J. (October, 2017). NCLA 2017 Conference, “*Offering Virtual Conferences: Technology, Management & Assessment*”, Winston-Salem, NC.

McCallister, K. C., Ozan, M, Grigg, K. & Bradley, A. (October, 2015). NCLA 2015 Conference, “*One Size Does Not Fit All: Helping Non-Traditional Students Succeed*”, Greensboro, NC.

McCallister, K. C. Rhodes, T. & Livas, M., (October 21, 2015). NCLA 2015 Conference, “*To Listen and to Teach: How Distance Education Librarians are Making it Matter*”, Greensboro, NC.

Johnson, M., & McCallister, K. C., (December, 2014). Academic Libraries: Present and Future, "*Creating a Meta-course for Library Instruction to First Year Students*," College and University Section (CUS) of the North Carolina Library Association (NCLA), UNC Charlotte.

McCallister, K. C. & Williams, E. M., (April, 2014). North Carolina Community College Libraries: The Center of Learning.", "*Information Literacy for Transfer Students: A Collaboration between four- year institutions and Community College libraries*," North Carolina Community College Learning Resources Association, Flat Rock, NC.

McCallister, K. C., Rhodes, T. & Livas, M., (April, 2014). UNC Online Learning Technologies Week, "*Our Time, Our Future: How Libraries can help with expected learning outcomes*," North Carolina Library Association, Online Webinar.

McClave, Kelly C. (February, 2003): *A Search for the Lost: An Archaeological Analysis of Turkey Creek Cemetery*. Presented at the Mississippi Academy of Sciences Conference, Hattiesburg, Mississippi.

McClave, Kelly C.(2002): *The Historic John Ford Home: Life on The Mississippi Frontier*. Presented to the Marion County Historical Society, Columbia, Mississippi.

McClave, Kelly C.(2001): *An Effort to Determine Wealth Distribution by Analyzing Surface Collections of Suspected House Sites Within the Black Prairie and Flatwoods Counties*. Presented at the Mississippi Archaeological Association Conference, Vicksburg, Mississippi.

## NATIONAL

Morton, K & McCallister, K. (2023) NISTS Conference, "Creating a Strategic Plan for the Transfer Experience". Portland, OR.

McCallister, K & Morton, K. (July 8, 2021). AACRAO Transfer Summit Virtual, "*Creating a Strategic Plan for the Transfer Student Experience*". Virtual Summit

McCallister, K., Johnson, K, Morton, K, Gormly, E & Ramirez J. (March 2, 2018). The Collective Conference, "*Swimming in the Weeds with Non-Traditional Students*". Knoxville, TN.

Robinson, M., Ivins, T., Bishop, C., McCallister, K., & Griggs, K. (February 16, 2017). National Institute for the Study of Transfer Students 2017 Conference, "*The Library can do that? Library Services for Transfer Students*." Atlanta, GA.

McCallister, K.C. & Peuler, M. (April 2016). 17th Annual Distance Library Services Conference, "*Beware the Power of the Donut: A successful case study of a DE library, departmental, faculty and student collaborations*", Pittsburgh, PA.

McCallister, K.C., Gregor, M. & McBride, K. (February 2016). National Institute for the Study of Transfer Students, Poster Session: “*Transfer Students and Libraries: The Missing Piece,*” Atlanta, GA.

McCallister, K. C., Gregor, M. N., Joyner, D., (July 22, 2015). ACRL 2015, “*Librarians Collaborate! Working across Two- and Four-Year Institutions to Teach Transfer Students Information Literacy Skills,*” Association of Colleges and Research Libraries, Online Webcast

McCallister, K. C., Gregor, M. N., Joyner, D., (March 26, 2015). ACRL 2015, “*Librarians Collaborate! Working across Two- and Four-Year Institutions to Teach Transfer Students Information Literacy Skills,*” Association of Colleges and Research Libraries Annual Conference, Portland, OR.

Rex, J., McCallister, K. C., & McBride, K. R., (February 5, 2015). National Institute for the Study of Transfer Students 2015 Conference, “*Creating a Campus Conversation about Transfer Student Success: The Transfer Symposium,*” Atlanta, GA.

Johnson, K. W. & McCallister, K. C., (November 13, 2014). Access Services Conference 2014, “*Assessing the 24/5 Library: does data matter?,*” Georgia Institute of Technology, Atlanta, GA.

McClave, Kelly C.(2001): *Analysis of Surface Collections to Determine Socioeconomic Distribution.* Presented at the South Central Historical Archeology Conference, Little Rock, Arkansas.

**PROFESSIONAL AFFILIATIONS**

American Library Association	2013-present
Association of College and Research Libraries	2013-present
North Carolina Library Association	2013-2019
National Institute for the Study of Transfer Students	2015-present

**PROFESSIONAL SERVICE**

ACRL Chapters Council <i>Chair</i>	2022-2023
ACRL Chapters Council <i>Vice Chair</i>	2021-2022
University Library Advisory Council (ULAC)	2019-2021
Reviewer for <i>CHOICE</i> Magazine	2013-2019
ACRL Virtual Conference Committee 2019	2017-2019
DLS Conference Advisory Board	2016-2019
ACRL Chapters Council	2016-2018
ACRL/DLS Conference Program Planning Committee Member	
2018 New Orleans	2017-2018
CUS Webinar Wednesday Professional Development Series	2016-2017
<i>Creator and monitor</i>	
NCLA-CUS Section	

<i>Past Chair</i>	2017-2018
<i>Chair</i>	2016-2017
<i>Vice Chair</i>	2015-2016
NCLA Program Planning Committee	2016-2017
ACRL Virtual Conference Committee 2017	2015-2017
CUS Virtual Conference Planning Committee	2016-2017
<i>Chair</i>	
NCLA-CUS 2014 Conference Planning Committee	2014-2014
ACRL/DLS Conference Program Planning Committee Member 2015 San Francisco	2014-2015

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**UNIVERSITY SERVICE**

2022 Research & Creativity Activity Event Planning Committee	2022
Host Family for Mandela Fellows Program	2022
University Planning and Priority Council	2020-present
Council of Regional Accrediting Commissions Committee	2020-present
University Academic Assessment Council	2020-present
Associate Deans Committee	2019-present
Council of Chairs	2019-present
Council of Chairs Executive Board	2019-present
Transfer Services Team	2016-present
FreeLearning Conference Planning Committee	2017-2019
Distance Education Advisory Board	2016-2019
Transfer RLC	2016-2018
Distance Education Director Search Committee	2017-2018
Strategic Planning Advisory Council	2015-2016
Web & Mobile Governance Committee	2014-2016
Distance Education Director Search Committee	2014-2015
Liberal Studies Experience Working Group	2014-2016
Distance Education Student Advisory Committee	2013-2015
Faculty Workload Task Force	2013-2015

**LIBRARY SERVICE**

Hickory Campus Librarian Search Committee: Chair	2022
Hickory Library Task Force	2022-2023
Dean’s Student Advisory Board	2022
Executive Assistant to the Dean Search: Chair	2022
Office of International Education and Development Search Committee	2022
Electronic Resources Librarian Search Committee	2021-2022
Library Council	2019-present

Planning & Assessment Committee - Chair	2019-2022
Bivens Grant Committee- Chair	2017-present
Library Scholarship Selection Committee	2019-present
Confluence Implementation Task Force	2019-2020
FYS Librarian Search Committee	2018-2019
Employee Appreciation Task Force	2016-2017
Tech4Teach Fair Planning Committee	2016-2017
Liaison Librarian Search Committee	2015-2016
<i>Chair</i>	
Strategic Planning Committee	2014-2016
APPSearch Development & Evaluation Group	2013-2015
E-Learning Workforce Committee	2013-2016
Public Relations Committee	2013-2015
<i>Co-Chair</i>	
Humanities Librarian Search Committee	2013-2014
eBook Task Force	2013-2014
Transfer Students & the Library Workshop Committee	2014-2015

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**HONORS & AWARDS**

Transfer Champion Award- <i>Appalachian State University</i>	2021
Most Helpful Faculty & Staff- <i>Appalachian State University</i>	2020
Outstanding Graduate Student Service Award- <i>Appalachian State University</i>	2019
Transfer Star Award- <i>Appalachian State University</i>	
• Honorary induction into Tau Sigma Honor Society	2017
Lambda Alpha- Anthropology Chapter, <i>University of Southern Mississippi</i>	2004

**GRANTS & STIPENDS AWARDED**

McCallister, K. “University Academic Council Assessment Grant”, Sponsored by the Institutional Research, Assessment and Planning Department (App State). \$3000. (Funded: November 18, 2022).

Croxton, B., McCallister, K., McLennan, A., Price, B., Bourne, B.,Duston, D., Collagen, J. & Brown, W. “LSTA Hotspot Lending Grant”, Sponsored by UNC Systems. \$53,075. (Funded: July 25, 2021).

McCallister, Kelly & Abbott, John, "Martha and Nancy Lee Bivens University Library Fund for Excellence", Sponsored by Belk Library and Information Commons, Appalachian State University, \$1800.00. (Funded: March 14, 2019).



McCallister, Kelly & Johnson, Ken, "Martha and Nancy Lee Bivens University Library Fund for Excellence", Sponsored by Belk Library and Information Commons, Appalachian State University, \$1767.00. (Funded: February 28, 2018).

McCallister, Kelly C, McBride, Kelly Rhodes, "Transfer Symposium Request for Travel Grant," Sponsored by Transfer Symposium, Appalachian State University, \$954.00. (Funded: January 29-February 6, 2015).

McCallister, Kelly C, "Martha and Nancy Lee Bivens University Library Fund for Excellence", Sponsored by Belk Library and Information Commons, Appalachian State University, \$1,800.00. (Funded: February 22, 2014 - April 23, 2014).

Gregor, Margaret N., Donovan, Georgie Lynn , McCallister, Kelly C , Williams, Elizabeth M, "Transfer Students and the Library", Sponsored by Appalachian State University, \$1,650.00. (Funded: April 8, 2014).

McClave, Kelly, "Desoto National Forest Service Grant", Sponsored by the United States Forest Service, Desoto, MS. (Funded 2003)

McClave, Kelly, "Committee on Services and Resources for Women Research Stipend " Sponsored by the Department of Anthropology, University of Southern Mississippi. (Funded 2003)

McClave, Kelly, "Desoto National Forest Service Grant", Sponsored by the United States Forest Service, Desoto, MS. (Funded 2002)

**Daren Snider, PhD**



**ADMINISTRATIVE EXPERIENCE**

**Dean, School of Humanities & Social Sciences, *Indiana University East*, 2018-present**  
**and**

**Dean *interim*, School of Natural Science & Mathematics, *Indiana University East*, 2019-2021**

- ◆ Administer two academic units of combined 220 faculty (70 FT, 150+ PT) in liberal arts and sciences. Responsibilities include:
  - Faculty recruitment, development, and evaluation;
  - Program development, assessment, and improvement;
  - Student retention, recruitment, and success;
  - Management of budgets of approximately \$10M;
  - Developing collaborations within the university's service region and beyond.

**Associate Dean, College of Fine Arts & Humanities, *University of Nebraska-Kearney*, 2014-2018. (110+ faculty in humanities, communications, visual and performing arts)**

- ◆ Co-organizer of annual *Nebraska Unity Conference* for 500+ multicultural high school students (2014-present).
- ◆ Led successful curriculum renewal to save two academic programs (2014-2015) and a teacher endorsement program from elimination (2013).
- ◆ Redesigned and implemented online faculty accountability/productivity system (2013-present) now required for all annual reviews, tenure and promotion.
- ◆ Created a yearlong workshop series for tenure-track faculty (2014) resulting in increased faculty retention.
- ◆ Created minor in film studies (2018).
- ◆ Created humanities course track for inclusion in general education and future minor (2016).

**Chair, Modern Languages Department, *University of Nebraska-Kearney*, 2015-2017.**  
**(Oversee department with 15+ direct reports)**

- ◆ Responsible for all aspects of undergraduate and graduate programs including hiring, faculty evaluation, course scheduling, curriculum and assessment, and facilities (2015-2018).
- ◆ Created new dual credit agreements (2015) resulting in 43% and 200% increase in enrollments in two academic programs, respectively.
- ◆ Led curriculum renewal (2014-2016) that streamlined 11 academic programs into 5, including creating the state's only teacher endorsement track in more than one language.
- ◆ Led the creation (2012) and renewal (2016) of department comprehensive strategic plan, including key initiatives in recruitment and retention.
- ◆ Successfully defended low enrollment programs before the state higher education coordinating commission (2008, 2012, 2016) resulting in saving the majors in French and German.

- ◆ Successfully negotiated scholarship funds with University of Rostock, Germany (2014) enabling multiple students to study abroad each year.
- ◆ Coordinated annual study abroad programs to Spain, Dominican Republic, Peru and France.
- ◆ Led creation of online placement exams for all incoming students (2015) to align with national standards.
- ◆ Facilitated transition of high school students into college language studies by outreach to statewide teachers/students (2014-2017), creation of statewide news letter.
- ◆ Responsible for developing and managing a budget of \$120k.

**Director of Assessment, University of Nebraska-Kearney, 2014-2015.**

**(Preside over a council of 17 faculty and staff; 1-3 direct reports)**

- ◆ Responsible for campus assessment protocols of 70+ academic departments and programs encompassing approximately 7,000 students.
- ◆ Contracted and instituted campus wide adoption of online accountability database *WeaveOnline*.
- ◆ Facilitated the work of the university assessment steering committee.
- ◆ Reviewed and approved annual assessment reports from all academic departments.
- ◆ Supervised budget of \$162k.

**Director, General Studies Program. University of Nebraska at Kearney, 2006-2013.**

**(Preside over a council of 20 faculty and staff; up to 3 direct reports – varied by semester)**

- ◆ Responsible for general education program for approximately 5,500 undergraduates.
- ◆ Led complete revision of general education curriculum (2009-10).
- ◆ Facilitated comprehensive review of 200+ new course offerings, and ongoing review of existing courses.
- ◆ Implemented three-year assessment plan for 33 academic departments and interdisciplinary programs, including implementing university wide online assessment system.
- ◆ Implemented multi-year faculty development program on teaching critical thinking skills.
- ◆ Created new institution wide academic standards for general education courses.
- ◆ Coordinate course offerings of four undergraduate colleges with academic deans and offices of the Registrar and Academic Advising.
- ◆ Developed strategic plan for General Studies program.
- ◆ Administered the bachelor arts degree program, 2006-08.
- ◆ Supervised administration team for national CAAP test (2007, 2010).
- ◆ Prepared general education sections of the self-study for the North Central Association of Colleges and Schools, 2008 (focused visit) and 2011 (follow up report).
- ◆ Oversaw successful external review of general education, including writing self-study (2007, 2012).
- ◆ Provide consistent campus wide communication about general education: supervise dedicated website; oversee publications (brochures, pamphlets, bookmarks) and make over 30 campus presentations annually.
- ◆ Adjudicate student petitions and waivers regarding general education.
- ◆ Address issues of diversity within the general education curriculum.
- ◆ Reorganized the governance structure of the general education faculty/staff council.
- ◆ Responsible for developing and managing a budget of \$70K.

**Section Head (German), Department of Modern Languages, University of Nebraska at Kearney, 2000-2018. (Direct 1-2 adjunct instructors, and student workers)**

- ◆ Created cooperative online course delivery with the University of Nebraska-Omaha (2002).
- ◆ Transitioned ESL graduate teaching endorsement program to online (2002-2005).
- ◆ Implemented the first introductory language courses at UNK in blended format (2008).
- ◆ Implemented online placement test for all students in language courses.
- ◆ Administer student scholarship funds (2000-2018).

**President, Faculty Senate, University of Nebraska at Kearney, 2008-09. (Presided over Senate of 35 faculty)**

- ◆ Presided over 13 institution wide committees.
- ◆ Coordinated successful efforts to:
  - create a workable model for summer school budget;
  - reallocate funds for annual guest artist/lecture series;
  - revise university Promotion and Tenure Guidelines;
  - standardize software available in smart classrooms across campus.
- ◆ Oversaw several key changes to Senate constitutional governance.
- ◆ Revised/expanded website presence of Faculty Senate.
- ◆ Created and maintained email communication listserv for faculty.

**ACADEMIC BACKGROUND**

- ◆ Professor, Department of World Languages, *Indiana University East*, 2018-present.
- ◆ Associate Professor, Department of Modern Languages, *University of Nebraska at Kearney*, 2000-2018 (associate professor from 2006).
- ◆ Visiting faculty, *Skidmore College* (1999-2000) and *Brigham Young University* (1997-98).
- ◆ PhD in Languages and Literature from University of Utah (2000)  
MA in German from University of Wisconsin-Madison (1991)  
BA in history from University of California-Riverside (1990)

**SELECTED PROFESSIONAL SERVICE**

**National / International**

- ◆ National Consultant-Evaluator, Higher Learning Commission, 2009-present.
- ◆ National Program Reviewer, National Council for the Accreditation of Teacher Education, 2007-2009.
- ◆ Consultant, International Baccalaureate, The Hague, Netherlands, 2019-2020.
- ◆ Facilitator, German Online Distance Education Network, American Association of Teachers of German, 2004-05.

**State and Regional**

- ◆ Curriculum Committee *ad hoc*, Kearney Public School District, 2012.
- ◆ Nebraska Department of Education *ad hoc* committee on foreign language endorsement, 2005.
- ◆ Nebraska Department of Education World Languages PreK-16 Initiative Task Force, 2004.
- ◆ Nebraska Department of Education World Languages PreK-16 Postsecondary Symposium, 2003.
- ◆ Division Chair (linguistics), Midwest Modern Language Association, 1999-2002.

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### **Indiana University System**

- ◆ IU Regional Campus Research Task Force, 2023.
- ◆ IU Online Collaborative Degree Committee, 2018-present.

### **University of Nebraska System**

- ◆ Board of Regents' Performance Review Committee for University of Nebraska system president James B. Milliken, 2009.
- ◆ Board of Regents' Taskforce, University Bookstore Vendor Recommendation, 2009.

### **University of Nebraska at Kearney**

- ◆ Co-chair, Constitution and Bylaw Committee, 2017-2018.
- ◆ Chair, Search Committee (national) for Assistant Vice Chancellor of International Affairs, 2014.
- ◆ Chair, Search Committee (national) for Director of Assessment, 2012.
- ◆ Search Committee (national) for Director of International Education, 2007-2009.
- ◆ Search Committee (national) for Senior Vice Chancellor of Academic Affairs & Student Life, 2008-09.
- ◆ President of Faculty Senate, 2008-09.
- ◆ University First Year Experience Taskforce, 2008.
- ◆ Search Committees (national, several faculty positions), and Tenure and Promotion Committees (various departments), 2007-present.
- ◆ Professional Conduct Committee, University of Nebraska-Kearney, 2007-2008.
- ◆ Pratt-Heinz Award Selection Committee, University of Nebraska-Kearney, 2007-2008.
- ◆ Co-Chair, University Retention and Student Success Enhancement Team, University of Nebraska-Kearney, 2006-2007.
- ◆ Search Committee (national) for Faculty Assistant to the Senior Vice Chancellor, 2006
- ◆ Search Committee (national) for new Vice Chancellor of University Relations, 2006.
- ◆ Oversight Committee, Faculty Senate, 2005-2006.
- ◆ Faculty Advisor, *Alpha Mu Gamma*, UNK, 2000-04, 2011-2015.
- ◆ Faculty Advisor, *German Society*, Brigham Young University, 1997-98.

### **Related Professional**

- ◆ Organized and led Study Abroad trips to UK, Germany, France, Austria, Switzerland, Czech Republic, Poland, and Italy for University of Nebraska in 2001, 2004, 2008, 2011, 2015, 2017.
- ◆ Numerous invited presentations on foreign language, culture, and learning styles given to school classes and civic groups.

### **Community**

- ◆ Board of Directors, Richmond Symphony Orchestra, 2019-present.
- ◆ Chair, Governance Committee, Richmond Symphony Orchestra, 2020-present.
- ◆ Purdue University Extension Master Gardener intern 2022-2023.
- ◆ Board of Directors, Kearney Area Habitat for Humanity, 2012.
- ◆ Superintendent's Advisory Committee, Kearney Public Schools, 2005 and 2009.
- ◆ Chair, Scout Committee, Troop 132, Boy Scouts of America, 2006-2009.

**AWARDS AND HONORS**

- ◆ Indiana University Bicentennial Medal for distinguished service to the university and community, 2020.
- ◆ Assessment Achievement Award, University of Nebraska at Kearney, 2011.
- ◆ David R. Stevenson Distinguished Service Award, University of Nebraska at Kearney, 2010.
- ◆ Star Award, Nebraska Department of Education and Nebraska International Languages Association, 2005.
- ◆ Phi Kappa Phi – national honor society
- ◆ Alpha Mu Gamma – national foreign language honor society
- ◆ Delta Phi Alpha – national German honor society

8.3

**PUBLICATIONS AND PRESENTATIONS (peer reviewed)**

- ◆ Snider, D., Khurana, P., Evans, M.T. “Let’s Be Fair: Achieving Gender Equity in Faculty Service” Higher Learning Commission (HLC) Annual Conference, Online, April 2021.
- ◆ Khurana, P., Evans, M.T. Snider, D. “Gender Equity: Who is Doing the Institutional Service at a Small Regional Campus?” Conference of the Council of Colleges of Arts and Sciences (CCAS), Online, November 2020.
- ◆ Snider, D. “Critical Thinking in the Foreign Language and Culture Curriculum.” *The Journal of General Education* 66.1-2 (2017).
- ◆ Snider, D. “Approaching the Foreign Language Standards through Critical Thinking” (in submission).
- ◆ Snider, D. “Critical Thinking and Student Engagement in Language Instruction” (in preparation)
- ◆ Snider, D. “Critical Thinking and the 5 C’s.” Conference of the American Council on the Teaching of Foreign Language (ACTFL), San Diego, CA. November 2015.
- ◆ Snider, D. “Strategic Planning in Foreign Language Departments.” *ADFL Bulletin* 43.2 (2014).
- ◆ “Second Language and Culture in Foreign Film: Using Bloom’s Taxonomy to Improve Writing.” Hawaii International Conference on Arts & Humanities, Honolulu, HI. January 2011.
- ◆ “Integrating Assessment in Portal Freshman Seminar Courses.” Invited presentation, Center for Teaching Excellence, University of Nebraska at Kearney, March 2010.
- ◆ “Incorporating Globalization in Portal Courses.” Invited presentation, Center for Teaching Excellence, University of Nebraska at Kearney, February 2010.
- ◆ “Helping Struggling Distance Learners.” Conference of the American Council on the Teaching of Foreign Language (ACTFL), Orlando, FL. November 2008.
- ◆ Hilton, Laurence M., J. Rhode, D. Snider, L. Pearson. “Testing Receptive English Vocabulary in University ESL Students.” *Journal of Research Methodology* 19.3 (2006).
- ◆ “Paradigm Shift: How the National Discourse on Assessment Presupposes the Need for Standards.” Conference of the American Council on the Teaching of Foreign Language (ACTFL), Baltimore, MD. November 2005.
- ◆ “An Interactive Writing Model for Use of Film in L2 Instruction.” ACTFL conference, Baltimore, MD. November 2005.
- ◆ “World Languages Articulation from Pre-K to College.” Southern Conference on Language Teaching, Charlotte, NC, February 2005.

- ◆ “Communicative and Non-Communicative Activities in First-Year College German Textbooks.” *Die Unterrichtspraxis / Teaching German* 38.2 (2005).
- ◆ “Neue Horizonte: A First Course in German Language and Culture,” (review) by David B. Dollenmeyer and Thomas S. Hansen. *Die Unterrichtspraxis* 36.2 (2004).
- ◆ “Teaching in Changing Times: The Courage to Lead,” (review) by Linda M. Wallinger, Ed. *Review for the Study of College Teaching* 2 (2003).
- ◆ “Distance Education in German at the University of Nebraska – an Update.” Conference of the American Council on the Teaching of Foreign Language (ACTFL), Philadelphia, November 2003.
- ◆ “A Collaborative Experiment in Distance Education at the University of Nebraska.” Conference of the American Council on the Teaching of Foreign Language (ACTFL), Salt Lake City, UT. November 2002.
- ◆ “Sensible Test Design: Assessment Instruments that Reflect Teaching Strategy.” Annual Conference of the Midwest Modern Language Association, Minneapolis, November 2002. (cancelled due to budget cuts)
- ◆ “Facilitating Language and Culture Acquisition through Distance Education.” Midwest MLA, Cleveland, OH. November 1-3, 2001.
- ◆ “Non-Traditional Approaches to Language Teaching and Learning.” Midwest MLA, Kansas City, MO. November 2-4, 2000.
- ◆ “Multiple Intelligences and L2 Acquisition Theory.” Midwest MLA. St. Louis, MO. November 5-7, 1998.
- ◆ “Classroom Procedures Using MI Theory.” Youngstown State University Conference on the Teaching of Languages. Youngstown, OH. October 23-24, 1998.
- ◆ “Kafka’s Secular Religion in *The Trial*.” Association for the Interdisciplinary Study of the Arts. Atlanta, GA. October 16-17, 1996.
- ◆ “Goethe’s *Faust* and German Unity.” South Central Society for Eighteenth-Century Studies. Salt Lake City, UT. January, 1995.
- ◆ “The Parable ‘*Im Dom*’ in Kafka’s *Der Prozeß*.” Invited lecture at Brigham Young University. April, 1995.
- ◆ *Utah Foreign Language Review of Poetry and Literature* (editor), University of Utah, 1994.
- ◆ “Defining the Subject in E.T.A. Hoffman’s *The Golden Pot*.” *Utah Foreign Language Review*, 2 (1992): 14-21.

## **GRANTS AND FUNDRAISING**

- ◆ Fostered legacy gift, Indiana University East, 2022, \$875,000.
- ◆ Facilitated donation funding for extensive upgrades to art gallery space, metalworking studio and piano lab, Indiana University East, 2023, \$60,000.
- ◆ Program Development Grant to encourage faculty to develop online courses for the general education program. From the Division of Continuing Education, 2010, \$12,500.
- ◆ Technology grants to convert graduate ESL teacher training program to online. From the Center for Distance Learning, 2001-2007, \$5,500.
- ◆ Research Grant for a study of the effects of sedentary behaviors on learning success in ESL students. From the Office of Graduate Study and Research, 2005, \$3,745.
- ◆ University Research and Creative Activity Award to research cognitive learning theory at Harvard University, 2001, \$1,570.

**PROFESSIONAL AFFILIATIONS**

- ◆ Association of American Colleges and Universities (since 2006)
- ◆ Council of Colleges of Arts and Sciences (since 2014)
- ◆ American Council on the Teaching of Foreign Languages (since 2000)
- ◆ American Association of Teachers of German (since 1994)

**REFERENCES**

Available upon request.



# Kevin N. West

Professor of Chemical & Biomolecular Engineering

University of South Alabama



## Academic Appointments

### University of South Alabama, Mobile, AL

2017 – Present	Professor of Chemical & Biomolecular Engineering
2014 – 2017	Associate Professor of Chemical & Biomolecular Engineering
2008 – 2014	Assistant Professor of Chemical & Biomolecular Engineering

### University of St. Thomas, St. Paul, MN

2004 – 2008	Adjunct Professor of Chemistry
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## Education

### 2001 – 2003 University of Minnesota, Minneapolis, MN

- Post-doctoral Research Associate
- Noble metal catalyzed hydrogen and  $\alpha$ -olefin production from alkanes in millisecond reactors  
Advisor: Dr. Lanny D. Schmidt

### 1996 – 2001 Georgia Institute of Technology, Atlanta, GA

- Ph.D. Chemical Engineering, 2001
- Dissertation: “*CO<sub>2</sub>-Expanded Liquids as Environmentally Benign Process Solvents*”  
Advisors: Dr. Charles A. Eckert and Dr. Charles L. Liotta
- Minor: Organic Chemistry

### 1992 – 1996 University of Virginia, Charlottesville, VA

- B.S. Chemical Engineering with High Distinction, 1996
- Thesis: “*Spatiotemporal Variations on an Iron Ring Electrode*”  
Advisor: Dr. John L. Hudson

## Professional Memberships

- |                                            |                |
|--------------------------------------------|----------------|
| • American Institute of Chemical Engineers | 1994 – Present |
| • American Chemical Society                | 1999 – Present |

*Curriculum Vitae – Kevin N. West – I*

**Honors, Awards & Highlights**

- Phi Kappa Phi Scholar of the Year – University of South Alabama – **2023**
- University of South Alabama Top 10 Funded Researchers of the Past 5 Years – **2023**
- Highlighted Inventor – USA Technology Showcase, **2022**
- CO<sub>2</sub> Capture Technology patent suite licensed by Norton Engineering Consultants, Inc., **2021**
- Tau Beta Pi – Alabama Epsilon Chapter “Professor of the Year”, **2012, 2020**
- Russ & Robin Lea Faculty Innovation, Award, USA National Alumni Association, **2017**
- Mortar Board Senior Honor Society – selected as “Top Prof” by Senior USA Chemical Engineering Students:
  - Keira Ross, **2021**
  - Corey Nguyen, **2016**
  - Mack Bozman, **2016**
  - William C. Spikes, **2015**
  - Katlyn A. Bramblett, **2014**
  - Joshua T. Richardson, **2012**
  - Misbahuddin Syed, **2012**
  - K. Aaron Lepre, **2011**
- USA College of Engineering Excellence in Research Award, **2012**

**8.3****Publications****Journal Articles**

1. O’Brien, R.A., Hillesheim, P.C., Soltani, M., Badilla-Nunez, K.J., Siu, B., Musozoda, M., West, K.N., Davis, J.H., Mirjafari, A. Cyclopropane as an Unsaturation “Effect Isostere”: Lowering the Melting Points in Lipid-like Ionic Liquids. *The Journal of Physical Chemistry B*, **2023**, 127 (6), 1429-1442.
2. Soltani, M., Siu, B., Vo, M., West, K.N., Adu, C., Mirjafari, A., Davis, J.H. Ionic Liquids with Benzenesulfonate Anions: Nonfluorinated, Thermally Stable Anion Options. *ACS Applied Engineering Materials*, **2023**, 1 (1), 690-695.
3. Qu, T., West, K.N., Rugar, P.A. Rapid synthesis of functional poly (ester amide) s through thiol–ene chemistry. *RSC Advances*, **2023**, 13(22), 22928-22935.
4. Giri, C., Sisk, S.E., Reisman, L., Kammakakm, I., Bara, J.E., West, K.N., Rabideau, B.D., Rugar, P.A. Anionic Ring-Opening Polymerizations of N-Sulfonylaziridines in Ionic Liquids. *Macromolecules*, **2022**, 55 (2), 623-629.
5. Bandlamudi, S.R.P., McGehee, J.L., Mando, A.D., Soltani, M., Turner, C.H., Davis, J.D., West, K.N., Rabideau, B.D. Understanding liquid–liquid equilibria in binary mixtures of hydrocarbons with a thermally robust perarylphosphonium-based ionic liquid. *RSC Advances*, **2021**, 11, 31328-31338.
6. Rabideau, B.D., Soltani, M., Parker, R.A., Siu, B., Salter, E.A., Wierzbicki, A., West, K.N., Davis, J.H. Tuning the Melting Point of Selected Ionic Liquids Through Adjustment of the Cation's Dipole Moment. *Physical Chemistry Chemical Physics*, **2020**, 22(21), 12301-12311

*Curriculum Vitae – Kevin N. West – 2*

7. Walters, M.G., Mando, A.D., Reichert, W.M., West, C.W., West, K.N., Rabideau, B.D. The Role of Urea in the Solubility of Cellulose in Aqueous Quaternary Ammonium Hydroxide. *RSC Advances*, **2020**, 10(10), 5919-5929.
8. Brown, A.S., Bozman, M.E., Hickman, T.J., Hossian, M.I., Glover, T.G., West, K.N., Wheeler West, C. Superhydrophobic Functionalization of Cotton Fabric via Reactive Dye Chemistry and a Thiol-ene Click Reaction. *Industrial & Engineering Chemistry Research*, **2019**, 58 (50), 22534-22540.
9. Bunge, M.A., Davis, A. B., West, K. N., West, C. W., Glover, T.G. Synthesis and Characterization of UiO-66-NH<sub>2</sub> Metal–Organic Framework Cotton Composite Textiles. *Industrial & Engineering Chemistry Research*, **2018**, 57(28), 9151-9161.
10. Rabideau, B. D., West, K. N., Davis, J. H. Making Good on a Promise: Ionic Liquids with Genuinely High Degrees of Thermal Stability. *Chemical Communications*, **2018**, 54(1), 5019-5031. (Cover Article)
11. Soltani, M., Siu, B., Salter, E. A., Wierzbicki, A., West, K. N., Davis, J. H. Synthesis, thermal stability, and computed bond dissociation energies of tetraarylphosphonium-based mesothermal ionic liquids bearing a quinoline ring system. *Tetrahedron Letters*, **2017**, 58(49), 4628-4631.
12. Cassity, C. A., Siu, B., Soltani, M., McGeeHee, J. L., Strickland, K. J., Vo, M., Salter, E. A., Stenson, A. C., Wierzbicki, A., West, K. N., Rabideau, B. D., Davis, J. H. The effect of structural modifications on the thermal stability, melting points and ion interactions for a series of tetraaryl-phosphonium-based mesothermal ionic liquids. *Physical Chemistry Chemical Physics*, **2017**, 19(47), 31560-31571.
13. Soltani, M., Siu, B., Salter, E. A., Wierzbicki, A., West, K. N., Davis, J. H. Synthesis, thermal stability, and computed bond dissociation energies of tetraarylphosphonium-based mesothermal ionic liquids bearing a quinoline ring system. *Tetrahedron Letters*, **2017**, 58(49), 4628-4631.
14. Benchea, A., Siu, B., McCants, J., Soltani, M., Salter, E. A., Wierzbicki, A., West, K. N., Davis, J. H. An evaluation of anion suitability for use in ionic liquids with long-term, high-temperature thermal stability. *New Journal of Chemistry*, **2017**, 41, 7844-7848.
15. Siu, B., Cassity, C. G., Benchea, A., Strickland, K. J., Wierzbicki, A., Sykora, R. E., Salter, E. A., O'Brien, R. A., West, K. N., Davis, J. H. Thermally Robust: Triarylsulfonium ionic liquids stable in air for 90 days at 300C. *RSC Advances*, **2017**, 7, 7623–7630.
16. Thigpen, A. S., Nestor, S. T., O'Brien, R. A., S. M., Y. S., Davis, J. H., West, K. N., Mirjafari, A. Thioether–Functionalized Picolinium Ionic Liquids: Click Synthesis and Thermophysical Characterizations for use as Lubricants. *New Journal of Chemistry*, **2017**, 41, 1625-1630.
17. Langham, J. V., O'Brien, R. A., Davis, J. H., West, K. N. Solubility of CO<sub>2</sub> and N<sub>2</sub>O in an Imidazolium-Based Lipidic Ionic Liquid. *Journal of Physical Chemistry B*, **2016**, 120(40), 10524-10530.
18. West, C. W., Huynh, T. L.Y., Poiroux, K., O'Brien, R. A., West, K. N., Davis, J. H. Fusion and Thermal Degradation Behavior of Symmetric Sulfur-Containing Quaternary Ammonium Bromides. *Journal of Physical Chemistry B*, **2016**, 120(7), 1330–1335.
19. Green, B. D., Badini, A. J., O'Brien, R. A., Davis, J. H., West, K. N. Liquid-Liquid Equilibria of Binary Mixtures of a Lipidic Ionic Liquid with Hydrocarbons. *Physical Chemistry Chemical Physics*, **2016**, 18, 2459-2467.

20. Thomas, M. J., Bramblett, K. A., Green, B. D., West, K. N. Thermophysical and absorption properties of brominated vegetable oil. *Journal of Molecular Liquids*, **2015**, *211*, 647–655.
21. Stenson, A. C., West, K. N., Reichert, W. M., Klomkaew, P., Cassity, C. G., Dobyns, B. M., Siu, B., Davis, J. H. Multi-ion ionic liquids and a direct, reproducible, diversity-oriented way to make them. *Chemical Communications*, **2015**, *51*(88), 15914–6.
22. Ruckart, K. N., O'Brien, R. A., Woodard, S. M., West, K. N., Glover, T. G. Porous Solids Impregnated with Task-Specific Ionic Liquids as Composite Sorbents. *The Journal of Physical Chemistry C*, **2015**, *119*(35), 20681–20697.
23. Green, B. D., O'Brien, R. A., Davis, J. H., West, K. N. Ethane and Ethylene Solubility in Imidazolium-based Lipidic Ionic Liquid. *Industrial & Engineering Chemistry Research*, **2015**, *54*(18), 5165–5171.
24. Bunge, M. A., Ruckart, K. N., Leavesley, S. J., Peterson, G. W., Nguyen, N., West, K. N., Glover, T. G. Modification of Fibers with Nanostructures Using Reactive Dye Chemistry. *Industrial & Engineering Chemistry Research*, **2015**, *54*(15), 3821–3827.
25. Mirjafari, A., O'Brien, R. A., West, K. N., Davis, J. H. Synthesis of Novel Lipid-Inspired Ionic Liquids via Thiol-ene Chemistry: Profound Solvent Effect on Reaction Pathway. *Chemistry: A European Journal*, **2014**, *20*(25), 7576–7580.
26. O'Brien, R. A., Mirjafari, A., Mattson, K., Murray, S. M., Mobarrez, N., Salter, E. A., Wierzbicki, A., Davis, J. H., West, K. N. The Effect of Sulfur Position on the Melting Points of Lipidic 1-Methyl-3-Thiaalkylimidazolium Ionic Liquids. *Journal of Physical Chemistry B*, **2014**, *118*(34), 10232–10239.
27. Chen, L., Mullen, G. E., Le Roch, M., Cassidy, C. G., Gouault, N., Fadamiro, H. Y., Barletta, R. E., O'Brien, R. A., Sykora, R. E., Stenson, A. C., West, K. N., Horne, H., Davis, J. H. On the Formation of a Protic Ionic Liquid in Nature. *Angewandte Chemie International Edition*, **2014**, *53*(44), 11762–11765.
28. O'Brien, R. A., West, C. W., Hollingsworth, B. E., Stenson, A. C., Henderson, C. B., Mirjafari, A., Mobarrez, N., West, K. N., Mattson, K. M., Salter, E. A., Wierzbicki, A., Davis, J. H. A Simple and Rapid Route to Novel Tetra(4-thiaalkyl)ammonium Bromides. *RSC Advances*, **2013**, *3*, 24612–24617.
29. Mirjafari, A., Pham, L. N., McCabe, J. R., Mobarrez, N., Salter, E. A., Wierzbicki, A., West, K. N., Sykora, R. E., Davis, J. H. Building a bridge between aprotic and protic ionic liquids. *RSC Advances*, **2013**, *3*, 337–340.
30. Murray, S. M., Zimlich, T. K., Mirjafari, A., O'Brien, R. A., Davis, J. H., West, K. N. Thermophysical Properties of Imidazolium-based Lipidic Ionic Liquids. *Journal of Chemical and Engineering Data*, **2013**, *58*(6), 1516–1522.
31. Kwana, M. L., Pham, L. N., McCabe, J. R., O'Brien, R. A., Essi, D. F., Baum, L., West, K. N., Davis, J. H. Synthesis and Thermophysical Properties of Ionic Liquids: Cyclopropyl Moieties versus Olefins as Tm-Reducing Elements in Lipid-inspired Ionic Liquids. *Tetrahedron Letters*, **2013**, *54*(1), 12–14.
32. Mirjafari, A., Murray, S. M., O'Brien, R. A., Stenson, A. C., West, K. N., Davis, J. H. Structure-based tuning of Tm in lipid-like ionic liquids. Insights from Tf2N-salts of gene transfection agents. *Chemical Communications*, **2012**, *48*, 7522–7524.

33. Leavesley, S. J., West, K. N. A Graduate Laboratory Course on Biodiesel Production - Emphasizing Professional, Teamwork and Research Skills. *Chemical Engineering Education*, **2011**, 45(4), 248-256.
34. O'Brien, R. A., Mirjafari, A., Jajam, V., Capley, E. N., Stenson, A. C., West, K. N., Davis, J. H. Functionalized Ionic Liquids with Highly Polar Polyhydroxylated Appendages and their Rapid Synthesis via Thiol-ene Click Chemistry. *Tetrahedron Letters*, **2011**, 52(40), 5173-5175.
35. Alagharu, V., Palanki, S., West, K. N. Analysis of Ammonia Decomposition Reactor to Generate Hydrogen for Fuel Cell Applications. *Journal of Power Sources*, **2010**, 829-833.
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39. Schmidt, L. D., Klein, E. J., Leclerc, C. A., Krummenacher, J. J., West, K. N. Syngas in Millisecond Reactors: Higher Alkanes and Fast Lightoff. *Chemical Engineering Science*, **2003**, 58, 1037-1041.
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41. West, K. N., West, C. W., McCarney, J. P., Griffith, K. N., Bush, D. M., Liotta, C. L., Eckert, C. A. In Situ Formation of Alkylcarbonic Acids with CO<sub>2</sub>. *Journal of Physical Chemistry A*, **2001**, 105, 3947-3948.
42. West, C. W., West, K. N., Liotta, C. L., Eckert, C. A. Ionic Liquids as Catalytic Green Solvents for Nucleophilic Displacement Reactions. *Chemical Communications*, **2001**, 10, 887-888.

Patents (\* while at USA)

1. \*"Functionalized materials and compounds,"; University of South Alabama; T.G. Glover, Kevin N. West. US Patent 11,192,883 (2021).
2. \*"Process for the Separation of Carbon Dioxide from Flue Gas,"; Chevron Energy Technology Corporation; Daniel Chinn, Russell Cooper, Alice He, James H. Davis, Jr., Kevin N. West, Hye Kyung Timken, Michael S. Driver. U.S. Pat. Appl. Publ. (2012), US 20120167766 A1 20120705, WO 2012092176 A2 20120705.
3. \*"Aqueous Solution of Amine Functionalized Ionic Compounds for Carbon Capture Processes,"; Chevron Energy Technology Corporation; Russell Cooper, Daniel Chinn, Alice He, James H. Davis,

Jr., Kevin N. West, Hye Kyung Timken, Michael S. Driver. U.S. Pat. Appl. Publ. (2012), US 20120171094 A1 20120705

4. \*"Method for Improving the Total Energy Demand in a Post-Combustion Carbon Capture Process with Ionic Absorbent,"; Chevron Energy Technology Corporation; Russell Cooper, Daniel Chinn, Alice He, Jim Davis, Kevin N. West, Hye Kyung Timken, Michael S. Driver. PCT Int. Appl. (2012), WO 2012092204 A2 20120705.
5. "Extraction Process Utilizing Liquefied Carbon Dioxide,"; Cool Clean Technologies, Inc.; Jon R. Turner, Kevin N. West, United States Patent #7,915,379, 2011.
6. "Catalytic Partial Oxidation of Hydrocarbons,"; Reagents – University of Minnesota; Lanny D. Schmidt, Jakob J. Krummenacher, Kevin N. West; United States Patent # 7,262,334, 2007.

#### Book Chapter

Mirjafari, A., O'Brien, R. A., Murray, S. M., Mattson, K. M., Mobarrez, N., West, K. N., Davis, J. H. (2012). Lipid-Inspired Ionic Liquids Containing Long-Chain Appendages: Novel Class of Biomaterials with Attractive Properties and Applications. *Ionic Liquids: Science and Applications* (vol. 1117, pp. 199-216). American Chemical Society.

#### Conference Presentations

(Invited) Davis, J.H. (Presenter), West, K.N., "20 Years of CO<sub>2</sub> Capture By Ionic Liquids, Molecular Liquids, and Liquids in-between" – Electrochemical Society Meeting 2023 (Abstracts 242, 2062-2062)

West, K.N. (Presenter), Davis, J.H., Rabideau, B.D, McGehee, J, "Thermophysical and thermodynamic properties of thermally robust ionic liquids and their mixtures." 2021 ACS Spring Meeting – Virtual (April 5, 2021)

Davis, J.H (Presenter), West, K.N., Rabideau, B.D., O'Brien, R.A., Soltani, M., Butt, C. "Like trying to build airplanes with rocks: The challenge of creating ionic liquids with high thermal stability." 2021 ACS Spring Meeting – Virtual (April 5, 2021)

Bandlamudi, S.R.P. (Presenter), McGehee, J., Mando, A.D., Davis, J.H., West, K.N., Rabideau, B.D. Albaraa D. Mando, James H. Davis Jr., Kevin N. West and Brooks Rabideau, "Thermally Stable Ionic Liquid As Media for Separating Aliphatic and Aromatic Compounds." 2020 AIChE Virtual Annual Meeting (November 2020).

West, K.N. (Presenter) Mando, Z., Swanson, R., Glover, T.G., Davis, J.H., Reichert, W.M. "Aqueous Ionic Amines for CO<sub>2</sub> Capture in Air Revitalization." 2020 AIChE Virtual Annual Meeting (November 2020).

Rabideau, B. D. (Presenter), Soltani, M., Salter, E. A., Wierzbicki, A., West, K. N., Davis, J. H. "The Effect of Cation Polarity on the Melting Points of Ionic Liquids: An Experimental and Computational Study." 2019 AIChE Annual Meeting, Orlando, FL (November 2019).

West, K. N. (Presenter), Siu, B., Badini, A., Rabideau, B.D., Davis, J. H., Badilla, K., Soltani, M. "Thermodynamics & Thermophysical Properties of Thermally Robust Ionic Liquids and Their Mixtures." 2018 AIChE Annual Meeting, Pittsburgh, PA (November 2018).

West, K. N. (Presenter), Rabideau, B.D., Salter, E. A., Wierzbicki, A., Davis, J. H. "Pushing the Thermal Limits of Ionic Liquids." Gordon Research Conference on Ionic Liquids, Newry, ME. (August 2018).

Glover, T. G. (Presenter), West, K.N., Chemical and Biological Defense Science & Technology Conference 2017, "A Platform to Modify Textiles for Defense Applications," Long Beach, CA. (November 2017).

West, K. N. (Presenter), Siu, B., Davis, J. H., O'Brien, R. A, Cassity, C. G., Badini, A., Soltani, M., 2017 AIChE Annual Meeting, "Thermally Robust Molten Salts & Ionic Liquids: Thermodynamics Properties and Phase Behavior", American Institute of Chemical Engineers, Minneapolis, Minnesota. (October 31, 2017).

Poster - West, C. W. (Presenter), West, K. N., Glover, T. G., Bozman, M., Moran, C., AIChE Annual Meeting, "Versatile Surface Modification for Functionalization of Fibers," Minneapolis. (November 1, 2017).

Glover, T. G. (Presenter), West, K. N., ECBC/DTRA Surface Science Review, "Functionalization of Fibers with UiO MOFs and Zr(OH)<sub>4</sub>," Raleigh, NC. (September 2017).

Glover, T. G. (Presenter), West, K. N., DoD US Army MOF/Fiber Working Group, "Functionalization of Cotton with UiO-66-NH<sub>2</sub>," Natick, MA. (June 2017).

Glover, T. G. (Presenter), Bunge, M., Ruckart, K. Neil, Leavesley, S. J., Peterson, G., Nguyen, N., West, K. N., MOF 2016, "Attachment of MOFs to Nylon and Cotton Fabrics," Long Beach, CA, (2016).

West, K. N. (Presenter), Davis, J. H., O'Brien, R. A., Siu, B., Cassity, C. G., 2016 AIChE Annual Meeting, "Thermal and Thermodynamic Properties of Ionic Liquids and Molten Salts with High Thermal Stability", American Institute of Chemical Engineers, San Francisco, California. (November 16, 2016).

Siu, B. (Presenter), West, K. N., Cassity, C. G., Davis, J. H., AIChE Southern Regional Conference, "Pure Component & Binary Thermal Behavior of Novel Ionic Compounds with High Thermal Stability", AICHE, Tuscaloosa, AL. (April 2, 2016).

Glover, T. G. (Presenter), West, K. N., PacifiChem, "Modification of Fibers with Nanostructures for Chemical Defense", Honolulu, HI. (December 2015).

West, K. N., Green, B. D., Dobyns, B. M., O'Brien, R. A., Davis, J. H., 2015 AIChE Annual Meeting, "Solubility and Volumetric Behavior of Binary Mixtures of Lipidic Ionic Liquids and Molecular Solutes", American Institute of Chemical Engineers, Salt Lake City, Utah. (November 9, 2015).

Bunge, M. (Presenter), Ruckart, K. N., Leavesley, S. J., Peterson, G. W., Nguyen, N., West, K. N., Glover, T. G., 2015 AIChE Annual Meeting, "The Application of Reactive Dyes to Functionalize Fibers with MOFs, Quantum Dots, and Gold Nanoparticles", AIChE, Salt Lake City, Utah. (November 8, 2015).

West, K. N. (Presenter), Green, B. D., O'Brien, R. A., Davis, J. H., 2014 AIChE Annual Meeting, "Binary Phase Behavior of Lipidic Ionic Liquids", Atlanta, GA. (November 17, 2014).

Woodard, S. M. (Presenter), West, K. N., Deal, J., West, C. W., 2014 AIChE Annual Meeting, "Separations Using Supercritical CO<sub>2</sub> Deposited Adsorbents", Atlanta, GA. (November 17, 2014).

Green, B. D. (Presenter), West, K. N., O'Brien, R. A., Davis, J. H., 2014 AIChE Annual Meeting, "Solvent Properties of Lipidic Ionic Liquids", Atlanta, GA. (November 17, 2014).

Bramblett, K. A. (Presenter), Thomas, M. J., West, K. N., 2014 AIChE Annual Meeting, "Thermal and Thermophysical Properties of Brominated Vegetable Oil", Atlanta, GA. (November 17, 2014).

Davis, J. H. (Presenter), Chen, L., Mullen, G. E., Le Roch, M., Cassity, C. G., Gouault, N., Fadamiro, H. Y., Barletta, R. E., O'Brien, R. A., Sykora, R. E., Stenson, A. C., West, K. N., Horne, H. H., Hendrich, J. M., Rui, K., Ionic Liquids, "On the formation of a protic ionic liquid", Gordon Research Conference, Newry, ME. (August 17, 2014).

Nguyen, N. (Presenter), Glover, T. G., West, K. N., West, C. W., 2013 UCUR Symposium, "Nanoscale Modification of Fibers via Reactive Dye Chemistry", USA UCUR, Mobile, AL. (2013).

West, K. N. (Presenter), Davis, J. H., O'Brien, R. A., Langham, J. V., AIChE Annual Meeting, "VLE of Lipidic Ionic Liquid Systems", AIChE, San Francisco. (2013).

West, K. N. (Presenter), Davis, J. H., O'Brien, R. A., Zimlich, T. K., AL-Hashem, A., Langham, J. V., USA Graduate Research Symposium, "Understanding the Thermophysical & Solvent Properties of Lipidic Ionic Liquids", USA FDC, Mobile, Alabama. (2013).

West, K. N., Zimlich, T. K. (Presenter), Jung, C. A. (Presenter), 2013 UCUR Symposium, "Liquid/Liquid Equilibria of Binary Systems of Lipidic Ionic Liquids with Molecular Species", USA UCUR, Mobile, Alabama. (October 17, 2013).

West, K. N., Langham, J. V. (Presenter), 2013 UCUR Symposium, "Measurement and Modeling of CO<sub>2</sub> and N<sub>2</sub>O Solubility in Lipidic Ionic Liquids", USA UCUR, Mobile, Alabama. (October 17, 2013).

West, K. N. (Presenter), Murray, S. M., Thigpen, A. S., Zimlich, T. K., Mirjafari, A., O'Brien, R. A., Davis, J. H., ACS Spring Meeting, "Tuning the thermophysical properties of lipidic ionic liquids through structural variation", American Chemical Society, San Diego, CA. (2012).

West, K. N., McCabe, J. R., Thigpen, A. S., AL-Hashem, A., Mirjafari, A., Davis, J. H., AIChE Annual Meeting, "Binary SLE of Lipidic Ionic Liquid Systems", AIChE, Pittsburgh, PA. (2012).

West, K. N. (Presenter), Davis, J. H., AL-Hashem, A., Zimlich, T. K., Mirjafari, A., O'Brien, R. A., AIChE Annual Meeting, "Pure and Mixture Thermophysical Properties and Phase Behavior of Lipidic Ionic Liquid", AIChE, Pittsburgh, PA. (2012).

Reichert, W. M. (Presenter), Williams, N. G., Goodie, T., La, M., Mirjafari, A., Davis, J. H., West, K. N., Murray, S. M., 2012 Materials Research Society Spring Meeting, "Application of Ionic Liquids for the Conversion of Biomass to Feedstock Chemicals", San Francisco, CA. (April 12, 2012).

Liotta, C. L. (Presenter), Brown, J. S., West, K. N., Hallett, J. P., McCarney, J. P., Nolen, S. A., West, C. W., Griffith, K. N., Eckert, C. A., Glaser, R., ACS Joint Southeast-Southwest Regional Meeting, "Environmentally Benign Solvent Systems for Chemical Reactions and Processes", American Chemical Society, New Orleans. (2000).

West, C. W. (Presenter), West, K. N., McCarney, J. P., Griffith, K. N., Liotta, C. L., Eckert, C. A., AIChE Annual Meeting, "CO<sub>2</sub>-Alcohol Systems for Novel in situ Acid Generation", AIChE, Los Angeles, CA. (2000).

West, K. N. (Presenter), Hallett, J. P., Brown, J. S., West, C. W., Bush, D. M., Liotta, C. L., Eckert, C. A., AIChE Annual Meeting, "Novel Single-Phase Fluorous-Organic Systems for Environmentally Benign Processing", AIChE, Los Angeles, CA. (2000).



**Grant and Contract Awards/Submission**

Total external funding as PI:	\$ 9,166,392
Total external funding as PI or Co-PI:	\$ 11,980,036

**Grants****Funded & Current**

Davis, J. H. (Principal), Reichert, W. M. (Co-Principal), Glover, T. G. (Co-Principal), West, K. N. (Co-Principal), "Development of CO<sub>2</sub>-Capturing Ionic Liquid Solutions for Spacecraft Air Revitalization Systems", Sponsored by NASA – EPSCoR CAN (Administered through State EPSCoR program at UAH) – Federal, \$1,142,414. (August 15, 2019 – December 31, 2023).

**Funded & Completed**

West, K. N. (Principal), Reichert, W. M. (Project Manager), Davis, J. H. (Co-Principal), Wheeler West, C. (Co-Principal), Rabideau, B. D. (Co-Principal), et al., "Understanding the Molecular-level Interactions Between Ionic Liquids and Molecular Species to Design and Develop Novel Solvent Systems for Environmental and Energy Applications," Sponsored by Department of Energy – EPSCoR Implementation Grant, Federal, \$2,710,993. (August 15, 2019 – August 14, 2021).

- Renewal funded at \$999,948 (August 15, 2021 – August 14, 2023)

Glover, T. G. (Principal), Rabideau, B. D. (Co-Principal), West, K.N. (Co-Principal), "Technical Evaluation of Methods to Recover Liquids from Gas in Microgravity", Sponsored by NASA – X-Hab – Federal, \$30,000. (August 1, 2019 – May 31, 2020).

Glover, T. G. (Principal), (Co-Principal), West, K.N. (Co-Principal), Davis, J. H., "Undergraduate Elective Class Evaluating Ionic Liquids for Closed Air Revitalization", Sponsored by NASA – X-Hab – Federal, \$30,000. (July 1, 2018 – June 30, 2019).

Davis, J. H. (Principal), West, K. N. (Co-Principal), "Development of Room-Temperature Ionic Liquids for Reversible Electroplating," Sponsored by Air Force - SBIR - Sub-contract for Faraday Technologies, Federal, \$225,000.00. (July 1, 2017 - June 30, 2019).

Glover, T. G. (Principal), West, K. N. (Co-Principal), "Development of Biocidal Fabrics Using the Reactive Dye Method," Sponsored by Army Research Office (ARO), External to the University, \$598,332.00. (2016 - 2018).

Glover, T. G. (Principal), West, K. N. (Co-Principal), "Modification of Fibers Using Reactive Dye Chemistry," Sponsored by U. South Alabama, Internal to the University, \$25,000.00. (2014 - 2017).

Glover, T. G. (Principal), West, K. N. (Co-Principal), "Application of the Reactive Dye Method to Tailor Fibers with Adsorbent Materials," Sponsored by Army Research Office (ARO), External to the University, \$305,772.00. (September 2015 - 2018).

*Curriculum Vitae – Kevin N. West – 9*

West, K. N. (Co-Principal), Davis, J. H. (Principal), "Development of Room-Temperature Ionic Liquids for Reversible Electroplating," Sponsored by Air Force - SBIR - Sub-contract, Federal, \$45,000.00. (July 1, 2016 - March 31, 2017).

Reichert, W. M. (Principal), Glover, T. G. (Co-Principal), West, K. N. (Co-Principal), Wallace, K. (Co-Principal), "Fluorescent Test Strips for the Detection of Heavy Metals in the Mobile Bay Region," Sponsored by University of South Alabama Center for Environmental Resiliency, Internal to the University, \$20,000.00. (January 2016 - December 2016).

West, C. W. (Principal), West, K. N. (Co-Principal), Glover, T. G. (Co-Principal), "Investigation of a Novel Hybrid Absorbent for Oil Spill Remediation," Sponsored by Center for Environmental Resiliency, \$20,000.00. (December 2015 - November 2016).

West, K. N. (Principal), Davis, J. H. (Co-Principal), Reichert, W. M. (Co-Principal), "MRI: Acquisition of an Intelligent Gravimetric Analyzer to Characterize Gas Absorption Properties of Ionic Liquids for Energy and Environmental Applications," Sponsored by National Science Foundation – MRI-CBET, Federal, \$361,923.00. (August 1, 2011 - July 31, 2015).

West, K. N. (Principal), Davis, J. H. (Co-Principal), "Understanding the Thermophysical and Solvent Properties of Lipid-like Ionic Liquids," Sponsored by National Science Foundation – CBET, Federal, \$248,522.00. (August 1, 2011 - July 31, 2015).

West, K. N. (Principal), "Enhanced Supercritical Fluid Extraction through Solute Partitioning to a Non-Volatile Phase," Sponsored by USA Research Council, Internal to the University, \$5,500.00. (March 15, 2013 - March 14, 2015).

West, K. N. (Principal), "Hamilton Syringe Grant – Gas-tight Syringes for Undergraduate and Graduate Education and Research Use," Sponsored by Hamilton Syringe Company, Private, \$1,000.00. (August 1, 2013 - July 31, 2014).

West, K. N. (Co-Principal), Davis, J. H. (Principal), "USA/Chevron Ionic Liquids Technology Development," Sponsored by Chevron Energy Technology Corporation, Private, \$300,000.00. (July 1, 2010 - June 30, 2014).

West, K. N. (Co-Principal), Glover, T. G. (Principal), West, C. W. (Co-Principal), "Nanoscale Modification of Fibers via Reactive Dye Chemistry," Sponsored by Army Research Office, Federal, \$50,000.00. (September 1, 2013 - March 15, 2014).

West, K. N. (Co-Principal), Russ, S. H. (Principal), "A Conductivity-Based in situ Hydrocarbon Sensor," Sponsored by Alabama's Marine Environmental Science Consortium (MESC): Rapid Response Funds – Small Grants for Exploratory Research (SGER), State, \$9,338.00. (January 1, 2011 - August 31, 2011).

West, K. N. (Co-Principal), Adams, M. (Principal), "Enhanced Detection of Hydrocarbons Through Optical Scattering," Sponsored by Alabama's Marine Environmental Science Consortium (MESC): Rapid Response Funds – Small Grants for Exploratory Research (SGER), State, \$12,788.00. (January 1, 2011 - August 31, 2011).

West, K. N. (Principal), White, K. D. (Co-Principal), "Sustainable Landfill Gas Recovery and Utilization Project," Sponsored by Mobile County Commission/Mobile County Solid Waste Disposal Advisory Board, Local, \$67,000.00. (June 1, 2010 - June 1, 2011).

West, K. N. (Principal), "Thermodynamic Characterization of Novel Ionic Liquids and Energetic Biomolecules," Sponsored by USA Research Council, Internal to the University, \$5,000.00. (April 1, 2010 - March 31, 2011).

## **Contracts**

### **Funded & Current**

West, K. N. (Principal), Reichert, W. M., Davis, J. H., Wheeler West, C., Rabideau, B. D., Rich, T., Stevens, T., "Development of Next Generation CO<sub>2</sub> Capture Processes for Naval Applications," Sponsored by the Office of Naval Research, Department of Defense, \$ 4,766,506 (September 21, 2022 – September 20, 2024)

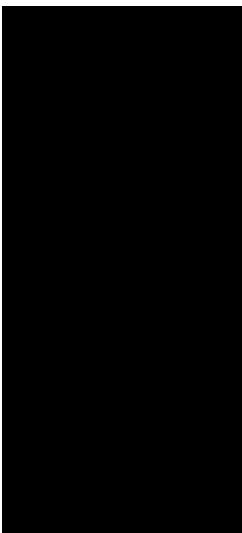
### **Funded & Completed**

West, K. N. (Principal), "Thermal & Thermophysical Property Measurement of Urethane Precursors," Sponsored by Evonik Corporation, Private, \$2,500.00. (August 15, 2016 - October 31, 2016).

West, K. N. (Principal), Glover, T. G. (Co-Principal), "Thermal & Thermophysical Property Measurement of Siloxanes," Sponsored by Evonik Corporation, Private, \$2,500.00. (September 1, 2014 - February 13, 2015).

8.3





May 2017 Departmental Honors  
May 2017 Departmental Honors  
May 2016 Departmental Honors  
May 2016 Departmental Honors  
May 2015 University Honors  
May 2015 Departmental Honors  
May 2015 Departmental Honors  
May 2014 Departmental Honors  
May 2014 Departmental Honors  
May 2014 Departmental Honors  
May 2014 Departmental Honors  
May 2013 Departmental Honors  
May 2013 Departmental Honors  
May 2012 Departmental Honors  
May 2012  
May 2012  
December 2012  
May 2011  
May 2011  
May 2011 Departmental Honors  
August 2010  
May 2010  
May 2010  
May 2010  
May 2010

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**Service & Synergistic Activities**

**University Service**

Faculty Senate:	4/2012 – 4/2018
Past-President	4/2016 – 4/2017
President	4/2015 – 4/2016
Vice-President	4/2014 – 4/2015
Chair – Technology Utilization Committee (as committee chair, member of Executive Committee)	4/2013 – 4/2014
Engineering Caucus Leader	4/2012 – 4/2013 4/2017 – 4/2018

**University Committees:**

Graduate Council	8/2019 – Present
International Student Services & Success Committee	2016 – 2018
Search Committee: VPFA Human Resources	5/2017 – 10/2017
Search Committee: Dean of Graduate School/VP Academic Affairs	4/2016 – 4/2017
University Retention Committee	2016 – 2017
Sexual Harassment & Sexual Violence Resolution Committee	4/2016 – 5/2016
Committee on Standards in Conduct of Research	7/2015 – 7/2016
Search Committee: Vice President for Finance and Administration	2/2015 – 10/2015
EVisions Research Management Software Implementation Committee	2/2015 – 10/2015
University Academic Standards Committee	8/2014 – 8/2016
USA Faculty Development Committee	8/2014 – 8/2015
University Academic Computing Committee	9/2013 – 8/2014
Electronic Learning Committee	9/2013 – 8/2014
Teleconferencing Committee	8/2013 – 7/2014
University Scholarship & Financial Aid Committee	9/2011 – 8/2015
Grants-in-Focus Working Lunch (USA OSP) – Invited Speaker	12/6/2011
SACS Quality Enhancement Program Committee	12/2010 – 8/2011

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First Year Experience (FYE) Development Committee	9/2010 – 11/2010
Freshman Seminar Evaluation Committee (single meeting)	2009

College Service

College Committees:

College of Engineering Tenure & Promotion Committee Chair (2022-2023)	2022 – Present
College of Engineering Computing Committee Chair (2021-2023)	2021 – Present
College of Engineering Representative on University Graduate Council	2019 – Present
College of Engineering Graduate Affairs Committee	2016 – Present 2011 – 2013
College of Engineering Undergraduate Affairs Committee	2013 – 2016
College of Engineering Safety Committee	2012 – 2016
College of Engineering Scholarship Committee	2008 – 2012
College of Engineering Academic Standards Committee (also serves as the Grade Dispute Committee)	2008 – 2012
College of Engineering EG 101 Committee	2009 – 2011
EYE and Engineer’s Week Open House – Organized Demonstrations	2009, 2010
EG 101 – Developed Fermentation Design Lab and 2-Excel Projects Based on Phase Equilibria and Circuit Analysis	2010 – 2011
Fundamentals of Engineering Exam Review Chemistry	2008 –2013
Chemical Engineering Thermodynamics	2009 –2013

Departmental Service

Departmental Graduate Program Coordinator	2016 – 2021 2011 – 2013
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Departmental Safety Committee, Chair Implemented chemical and gas cylinder inventory and tracking system	3/2012 – 3/2016
Faculty Search Committees	2011 – 2012 2015 – 2016
Master's Comprehensive Exam – Selected the journal article and formulated questions for exam	2009 – 2021

### Professional Service

Journal Reviewer: Langmuir, Fluid Phase Equilibria, ChemPhysChem, Energy & Fuels, Environmental Pollution, Industrial & Engineering Chemistry Research, International Journal of Refrigeration, Journal of Chemical & Engineering Data, Journal of Hydrogen Energy, Journal of Lipid Science & Technology, Journal of Molecular Liquids, Korean Journal of Chemical Engineering, Polymer Chemistry, Journal of CO<sub>2</sub> Utilization, European Journal of Lipid Science.

### Grant Reviewer

Department of Energy – Proposal Review, 2020-2021

NSF – CBET – Chemical & Biological Separations/Molecular Thermodynamic – Joint Review Panel, January 2019

Department of Energy – EPSCoR Proposal Review, 2016

NSF – CBET – Chemical & Biological Separations – Review Panel, January 2016

NSF – CREST Center Proposal, 2015

### Community Engagement

Mobile Area Council of Boy Scouts of America – Leader	2011 – Present
Silver Beaver Awardee	2023
District Committee Chair	2022 – Present
Organizer – Jaguar Merit Badge Jubilee @ USA	2020 – Present
Assistant Scoutmaster, Advancement Chair	2018 – Present
Assistant Cub Master	2013 – 2018
Den Leader	2011 – 2013
Dauphin Way United Methodist Church	2010 – Present
Lay Leader	2023 – Present
Church Council Chair	2021 – 2022
Church Council Vice Chair	2020 – 2022

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**Jinfa Zhang, Ph.D., Professor**

Department of Plant and Environmental Sciences  
College of Agricultural, Consumer and Environmental Sciences  
New Mexico State University (NMSU), Las Cruces, NM 88003



**EDUCATIONAL BACKGROUND**

- 1999 Ph. D., Plant Genetics and Molecular Biology, University of Arkansas, Fayetteville, AR, USA  
Dissertation: Mendelian and molecular genetics of cytoplasmic-nuclear interactions in cotton
- 1993 Doctor of Agronomy, Plant Genetics and Breeding, Central China Agricultural University, Wuhan, China  
Dissertation: Transferring and utilization of genes from Pima cotton (*Gossypium barbadense*) to Upland cotton (*G. hirsutum*)
- 1985 Master of Agronomy, Plant Genetics and Breeding, Central China Agricultural University, Wuhan, China  
Thesis: Genetic effects of nectarilessness and frego bract on agronomic traits and pink bollworm resistance in cotton
- 1981 Bachelor of Agronomy, Agronomy, Central China Agricultural College at Jinzhou, China

**EMPLOYMENT HISTORY**

- July 2014 - present Professor, Cotton Breeding, Genetics and Genomics  
New Mexico State University
- July 2007- June 2014 Associate Professor, Cotton Breeding, Genetics and Genomics  
New Mexico State University
- Sept. 2002- June 2007 Assistant Professor, Cotton Breeding, Genetics and Genomics  
New Mexico State University
- Aug. 2001- Sept. 2002 Molecular Cotton Breeder, Molecular Breeding in Cotton  
Monsanto Company
- July 2000- Aug. 2001 Postdoctoral Research Associate, Cloning of a Radish Restorer Gene  
McGill University
- July 1999- July 2000 Postdoctoral Research Associate, Molecular Analysis of Cotton CMS  
University of Arkansas
- July 1995- May 1999 Senior Research Assistant, Molecular Analysis of CMS in Cotton  
University of Arkansas
- Jan. 1992- Dec. 1998 Associate Professor/Program Director/Section Director  
Cotton Breeding and Genetics/National Key Lab in Crop Improvement  
Central China Agricultural University, China
- Jan. 1985- Dec. 1991 Assistant Professor, Cotton Breeding and Genetics  
Central China Agricultural University, China

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## PROFESSIONAL EXPERIENCES

### Teaching

#### Currently at New Mexico State University (2002-present)

AGRO/HORT 100- Introduction to Plant Science, undergraduate level  
AGRO 303V- Genetics and Society, undergraduate level  
GENE 305L- Genetic Techniques, undergraduate level  
GENE 440- Genetics Seminar, undergraduate level  
AGRO 483- Sustainable Crop Production, undergraduate level  
AGRO 516- Molecular Analysis of Complex Traits, graduate level

#### Previously at Central China Agricultural University (1985-1998)

Field Experimental Design and Statistical Analysis, undergraduate level  
Crop Breeding, undergraduate level  
Reproductive Genetics of Plants, undergraduate level  
Biometrical Genetics, graduate level

### Student Advising/Mentoring

Student Advising/Mentoring Undergraduate students: 50 at NMSU since 2002  
Summer students from the New Mexico Alliance for Minority Participation Program: 25  
Major advisor: M.S.- 9, Ph.D.- 12, and postdocs- 7  
Host and advisor: 25 visiting scientists from 10 countries (China, India, Pakistan, Peru, Egypt, Mali, Chad, Benin, Burkina Faso, and Malawi)

## AWARDS AND RECOGNITIONS

Top 2% most-cited scientist worldwide, Stanford University/Elsevier, 2021, 2022, and 2023  
Top 3 most published author worldwide in the plant science category of cotton research,  
Journal of Natural Fibers, 2021  
Top 4 most published author worldwide in the agronomy category of cotton research,  
Journal of Cotton Science, 2021  
Cotton Genetics Research Award, National Cotton Council of America, 2020  
Team Award, College of Agricultural, Consumer and Environmental Sciences, NMSU, 2017  
Award, 2015 CSSA Editor's Citation for Excellence, Crop Science Society of America, 2016  
Outstanding Graduate Student Award in Cotton Research in Arkansas, 1999  
3<sup>rd</sup>-Place Award, Graduate student competition, Poster, Beltwide Cotton Conferences, 1998  
2<sup>nd</sup>-Place Award, Scientific Achievement, Ministry of Agriculture of China, 1994  
3<sup>rd</sup>-Place Award, Scientific Achievement, Ministry of Science & Technology of China, 1994  
Outstanding Teaching Award, Huazhong Agricultural University, 1992  
Outstanding Teaching Award, Huazhong Agricultural University, 1991

**Awards received by graduate students under my advisement**

- 3<sup>rd</sup>-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2021
- 1<sup>st</sup>-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2013
- 3<sup>rd</sup>-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2011
- 2<sup>nd</sup>-Place Award, Graduate Student Competition, Beltwide Cotton Conferences, 2006
- Albert K. Dobrenz Award, Western Society of Crop Science, 2007
- Outstanding Graduate Research Assistant Award, NMSU Molecular Biology Graduate Program, 2015
- Outstanding Graduate Teaching Assistant Award, NMSU Molecular Biology Graduate Program, 2014
- Outstanding Graduate Student Award, NMSU Molecular Biology Graduate Program, 2012
- Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2022
- Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2015
- Best Paper Award, Graduate Students, Department of Plant and Environmental Sciences, 2014

8.3

**CURRENT FUNDED RESEARCH PROJETS**

1. Developing effective adaptation strategies to enhance the resilience of farmers under changing climate. NSF, Co-PI, \$301,203 (total: \$5,995,506), 10/01/2023 - 09/30/2027
2. Enhancing Upland cotton oil content and qualities through introgression genetics and breeding approaches using multi-parent populations. USDA-NIFA, PI, \$300,000, 04/01/2022 - 03/31/2025
3. Introgression breeding to develop super green cotton cultivars for green agriculture. USDA-NIFA, PI, \$500,000, 10/01/2024 - 09/30/2028
4. Evaluating cotton germplasm for environmental influence under extreme climate conditions. USDA-ARS, PI, \$80,000, 10/01/2022 - 09/30/2027.
5. Testing and development of competitive high quality upland cotton through enhanced ginning/textile processing performance. USDA-ARS, PI, \$107,339.00, 07/15/2019 - 06/30/2024
6. Introgression breeding to develop cotton cultivars with desirable seed and fiber quality for sustainable agriculture. USDA-ARS, PI, \$80,000, 07/01/2024 - 06/30/2026
7. Screening cotton for wilt resistance. BASF, PI, \$30,000, 04/01/2022 - 12/31/2025
8. Introduction and testing of exotic glandless cotton germplasm in New Mexico. Cotton Inc., PI, \$671,804, 01/01/2012 - 03/31/2023
9. Breeding cotton for resistance to Fursarium wilt race 4. Cotton Inc., PI, \$113,000, 01/01/2021 - 03/31/2023

**SERVICES**

**Professional**

- Panelist, Plant Genome Research Program, National Science Foundation (NSF), USA, 2011
- Panelist, Plant Breeding Program, United States of Department of Agriculture (USDA), 2013
- Panelist, Plant Breeding Program, United States of Department of Agriculture (USDA), 2022
- Panelist, Plant Breeding Program, United States of Department of Agriculture (USDA), 2023
- Panelist, USDA-ARS Research Programs, 2010, 2014
- Panelist, National Science Foundation of China (NSFC), 2015, 2018
- Expert, Chunhui Plan- Agriculture in Xinjiang, Ministry of Education of China, Aug. 12-25, 2005

Editor, *Molecular Genetics and Genomics* (2023 impact factor= 3.1), 2013-present  
 Editor, *Euphytica* (2023 impact factor= 1.9), 2016-present  
 Editorial Board, *Journal of Cotton Research* (by Springer, 2022 impact factor= 2.6), 2018-present  
 Associate Editor, *BMC Genomics* (2023 impact factor= 4.4), 2012-present  
 Associate Editor, *The Crop Journal* (2023 impact factor= 6.6), 2014-present  
 Associate Editor, *Journal of Cotton Science*, National Cotton Council, USA, 2011-present  
 Editorial Board, *Acta Agronomica Sinica*, China Crop Science Society, 2014-present  
 Editorial Board, *Cotton Science*, China Cotton Society, 2003-present  
 Special Issue Editor, *Plants* (2023 impact factor= 4.5), 2023-2024  
 Editorial Board, *Scientific Reports* (2022 impact factor= 4.6), 2016-2020  
 Editorial Board, *International Journal of Genomics* (2022 impact factor= 2.9), 2011-2020  
 Editorial Board, *Journal of Crop Improvement* (2020 impact factor= 1.39), 2016-2018  
 Associate Editor, *BMC Genetics* (2022 impact factor= 2.9), 2016-2020  
 Associate Editor, *PLoS One* (2022 impact factor= 3.7), 2011-2019  
 Guest Associate Editor, *Frontiers in Plant Science* (2022 impact factor= 5.6), 2020-2022

Chair, Tengtou Agricultural Science Award Committee, Agronomy Society of America, 2022, 2024  
 Member, Tengtou Agricultural Science Award Committee, Agronomy Society of America, 2020, 2021  
 Member, Crop Science Society of America and Agronomy Society of America

Invited Expert to advise the national cotton breeding program in Sudan, FAO-IAEA, 1998  
 Guest Professor, Institute of Cotton Research, Chinese Academy of Agric. Sci., China, 2003  
 Guest Professor, Southwest University, Chongqing, China, 2012  
 Guest Professor, Xinjiang Agricultural University, 2013

Invited Expert to give seminars in the following organizations in China, 2004-2023:

Institute of Crop Science, Chinese Academy of Agricultural Sciences, Beijing  
 China Agricultural University, Beijing  
 Institute of Plant Physiology and Ecology, Chinese Academy of Science, Shanghai  
 Shanghai Jiaotong University, Shanghai  
 Nanjing Agricultural University, Nanjing  
 Zhejiang University, Hangzhou  
 Zhejiang Agricultural Academy of Sciences, Hangzhou  
 Zhejiang A & F University, Hangzhou  
 Central China Agricultural University, Wuhan  
 Institute of Oilseed Research, Chinese Academy of Agricultural Sciences, Wuhan  
 Hubei Agricultural Academy of Sciences, Wuhan  
 Jinzhou Agricultural Academy of Sciences, Jinzhou  
 Southwest University, Chongqing  
 Agricultural University of Hebei, Baoding  
 Hebei Agricultural Academy of Sciences, Shijiazhuang  
 Institute of Cotton Research, Chinese Academy of Agricultural Sciences, Anyang  
 Northwest A & F University, Yangling  
 Xinjiang Agricultural University, Urumoqi  
 Xinjiang Academy of Agricultural Sciences, Urumoqi  
 Xinjiang Academy of Agricultural and Reclamation Sciences, Shihezi  
 Shihezi University, Shihezi

**At New Mexico State University**

- Senator, Faculty Senate, 2012-2015
- Member, Leadership Team, Cotton Task Force, New Mexico, 2009-2012
- Member, Crop Variety Release Committee, 2003- present
- Chair, Department Faculty Promotion and Tenure Committee, 2020-2022
- Chair, Department Scholarship Committee, 2018
- Chair, Department Awards Committee, 2014-2015
- Chair, Department Graduate Studies Committee, 2012-2013
- Chair, Search Committee, Chile Pepper Genetics and Breeding faculty position, 2019-2020
- Chair, Search Committee, Sustainable Crop Production faculty position, 2007-2008
- Member, Search Committee, Crop Physiology faculty position in Clovis, 2005
- Member, Department Faculty Promotion and Tenure Committee, 2015- present
- Member, Department Scholarship Committee, 2019-2021
- Member, Department Awards Committee, 2019-2021
- Member, Department Graduate Studies Committee, 2004-2005
- Member, Department Undergraduate Student Recruitment and Retention Committee, 2008-2011
- Member, Department Curriculum Committee, 2003-2010

**National**

- Member, National Cotton Variety Testing Committee
- Member, West Regional Cotton Variety Testing Subcommittee
- Member, National Pima Variety Testing Subcommittee

**COTTON CULTIVARS AND GERMPLASM LINES RELEASED**

**Cotton cultivars approved by NMAES and released (with registrations in Crop Science Society of America for 9 cultivars)**

1. **Acala 1517-21**: long staple, conventional (Zhang, 2020)
2. **Acala 1517-20**: long staple, conventional, Fusarium wilt race 4 resistant (Zhang, 2020)
3. **NuMex COT 19**: (medium staple, from introgression breeding of Upland × Pima cotton (Zhang, 2019, 2022)
4. **Acala 1517-18 GLS**: long staple, conventional glandless seeds used for food and feed (Zhang et al., 2019)
5. **NuMex COT 17 GLS**: medium staple, conventional glandless seeds used for food and feed (Zhang et al., 2020)
6. **Acala 1517-16 B2RF**: long staple, insect resistant and herbicide tolerant (Zhang et al., 2016)
7. **NuMex COT 15 GLS**: medium staple, conventional glandless seeds used for food and feed (Zhang et al., 2016)
8. **Acala 1517-09R**: long staple, herbicide tolerant (Zhang et al., 2011)
9. **Acala 1517-08**: long staple, conventional (Zhang et al., 2011)
10. **Acala 1517-99W**: long staple, bollworm and pink bollworm resistant (Zhang et al., 2008)
11. **Huamian 101**: medium staple, conventional, pink bollworm resistant (Wu et al., 1994)

**Cotton germplasm lines released or co-released with registrations in Crop Science Society of**

**America** (Percy et al., 2009; Ulloa et al., 2009, 2022; Zhang et al., 2019a, b, 2022)

1. NM 010094
2. NM 010113
3. NM 010122
4. NM 010462
5. NM 010460
6. NM 010454
7. NM 010341
8. NM 010311
9. NM 010504
10. NM 990649 (Reg. No. GP-1048, PI 688428)
11. NM 990764 (Reg. No. GP-1049, PI 688427)
12. NM 990815 (Reg. No. GP-1050, PI 688429)
13. NM 990827 (Reg. No. GP-1051, PI 688430)
14. NM 970123 (Reg. No. GP-1045, PI 688432)
15. NM 990813 (Reg. No. GP-1046, PI 678373)
16. NM W1218 (Reg. No. GP-1047, PI 678372)
17. SJ-07P-FR01 (Reg. No. GP-910, PI 654065)
18. SJ-07P-FR02 (Reg. No. GP-911, PI 654066)
19. SJ-07P-FR03 (Reg. No. GP-912, PI 654067)
20. SJ-07P-FR04 (Reg. No. GP-913, PI 654068)
21. PSI 113 (Reg. No. GP-916, PI 655939)
22. PSI 425 (Reg. No. GP-917, PI 655940)
23. FRU01 (PI 699966)
24. FRU02 (PI 699967)
25. FRU03 (PI 699968)
26. FRU04 (PI 699969)
27. FRU05 (PI 699970)
28. FRU06 (PI 699971)
29. FRU07 (PI 699972)
30. FRU08 (PI 699973)
31. FRU09 (PI 699974)
32. FRU10 (PI 699975)
33. FRU11 (PI 699976)
34. FRU12 (PI 699977)
35. FRU13 (PI 699978)
36. FRU14 (PI 699979)
37. FRU15 (PI 699980)
38. FRU16 (PI 699981)
39. FRU17 (PI 699982)

**Cotton genetic and breeding populations developed and/or published (some with registrations in Crop Science Society of America)**

1. TM-1/NM24016: 95 recombinant inbred lines (Gore et al., 2012)
2. SureGrow 747/Pima S-7: 146 backcross inbred lines (Fang et al., 2013)

3. SureGrow 747/Giza 75: 146 backcross inbred lines (Yu et al., 2013)
4. CRI 36/7124: 250 backcross inbred lines (Ma et al., 2019)
5. Acala 1517-99/Pima PHY 76: 1,500 recombinant inbred lines (Zhang, 2022)
6. Pima S-6/89590: 161 recombinant inbred lines (Abdelraheem et al., 2020)
7. Multi-parent advanced generation inter-cross (MAGIC) introgressed line population of Upland cotton: 530 recombinant inbred lines (Martinez et al., 2018)
8. Multi-parent advanced generation inter-cross (MAGIC) population of Upland cotton from 11 parental lines: 650 recombinant inbred lines (Zhang et al., 2020; Zhu et al., 2022)
9. Augmented nested association mapping (aNAM) population of Upland cotton from 3 × 30 cross combinations: 9,000 recombinant inbred lines (Yu et al., 2022)
10. Multi-parent advanced generation inter-cross (MAGIC) line population of Pima cotton from two sets of diallel crosses of 14 parental lines: 4,000 recombinant inbred lines (Zhang, 2022)

## BOOKS AND BOOK CHAPTERS

1. **Zhang Jinfa**, Chittaranjan Kole, and Yuxian Zhu. 2024. Cotton Genome. Springer (In press)
2. **Zhang Jinfa** and Manikanda Boopathi. 2022. Chapter 5. Disease resistance in cotton. P.191-225. In: Kole C. (ed.) Genomic Designing of Stress Resistant Technical Crops. Springer, 616 pp.
3. **Zhang Jinfa**. 2015. Transgenic cotton breeding. In Fang D. D. and R. G. Percy (eds.) Cotton. ASA-CSSA-SSSA Monograph Series. Madison, WI (An invited book chapter). p. 229-253.
4. Meng J. L. and **Jinfa Zhang**. 1995. Chapter 3. Genetic control of gametophyte formation and gene expression in plants. In: Meng J. L. (ed.) Plant Reproductive Genetics. Scientific Press, Beijing, China
5. Liu D., J. X. Han, and **Jinfa Zhang**. 1988. Biometrical Genetics. Scientific Press, Beijing, China

## PUBLICATIONS

### A. Refereed publications

- **JIF: Journal impact factor**
- **Graduate students under my supervision are underlined**
- **\* Postdocs or research specialists under my supervision**
- **\*\* Corresponding author**

### 2024

- A220. **\*\*Zhang Jinfa**, Y. Zhu\*, T. Wheeler, and F. Bourland. 2024. Development of a quick and reliable spraying method to evaluate the US upland cotton germplasm for resistance to bacterial blight race 18 and diagnostic DNA marker analysis. Phytopathology (Accepted upon a major revision)
- A219. \*Zhu Y., H. Elkins-Arce, T. Wheeler, J. Dever, D. Whitelock, K. Hake, and **Jinfa Zhang\*\***. 2024. Pre- and post-emergence damping-off in cotton caused by Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4: Genotypic difference and implications. Phytopathology (Accepted upon a major revision)
- A218. **\*\*Zhang Jinfa**. 2024. Registration of a high-yielding introgression Upland cotton cultivar, 'NuMex COT 19'. J. Plant Reg. (Accepted)
- A217. **\*\*Zhang Jinfa**, Roy G. Cantrell, and R. Flynn. 2024. Registration of nine Acala cotton germplasm lines with improved fiber quality in Upland cotton (*Gossypium hirsutum* L.). J. Plant Reg. (Accepted)

- A216. **\*\*Zhang Jinfu**, A. Abdelraheem\*, Y. Zhu\*, D. Whitelock, K. Hake, and T. Wedegaertner. 2023. Evaluation of cotton cultivars and breeding lines for tolerance to monosodium methanarsonate (MSMA) under field conditions. *J. Cotton Sci.* (In press)
- A215. **\*\*Zhang Jinfu**, H. Ellassbli, Y. Zhu\*, T. Wheeler, and F. Boulrand. 2024. Evaluation methods, resistant germplasm, and breeding for resistance to bacterial blight in cotton: a review, *J. Cotton Sci.* (In press)
- A214. \*Abdelraheem A., Y. Zhu, L. Zeng, S. Stetina, Feng C., Wheeler, T., and **Jinfu Zhang\*\***. Identification of new genetic sources of resistance to bacterial blight race 18 in diploid Asiatic cotton and resistance transfer to tetraploid Upland cotton (*Gossypium hirsutum*). *Euphytica* 220: 85 (JIF: 1.9)
- A213. \*Abdelraheem A., Y. Zhu, L. Zeng, S. Stetina, and **Jinfu Zhang\*\***. 2024. A genome-wide association study for resistance to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in diploid cotton (*Gossypium arboreum*) and resistance transfer to tetraploid *Gossypium hirsutum*. *Mol. Genet. Genom.* 299: 30 (JIF: 3.1)
- A212. Song J., B. Jia, P. Feng, H. Xia, W. Zhao, H. Xia, Y. Dong, W. Pei, J. Ma, B. Zhang, L. Wang, M. Wu, **Jinfu Zhang\*\*** and J. Yu\*\*. 2024. Transcriptome analysis reveals potential of down-regulated genes in cotton fiber improvement. *Ind. Crops Prod.* (In press) (JIF: 5.9)
- A211. Ma J., L. Yang, Y. Dang, K. Shahzad, J. Song, B. Jia, L. Wang, J. Feng, W. Pei, M. Wu, X. Zhang, **J. F. Zhang**, J. Wu, and J. Yu. 2024. Deciphering the dynamic expression network of fiber elongation and the molecular mechanism of the GhTUB5 gene in cotton based on an introgression population of upland cotton. *J. Adv. Res.* (Accepted) (JIF: 10.7)
- A210. Song J., G. Liu, C. Jin, W. Pei, B. Zhang, B. Jia, M. Wu, J. Ma, J. Liu, **J. F. Zhang**, and J. Yu. 2024. Co-localization and analysis of miR477b with fiber length quantitative trait loci in cotton. *Physiol. Plant.* 176: e14303 (JIF: 6.4)
- A209. Ma J., B. Jia, Y. Bian, W. Pei, J. Song, M. Wu, W. Wang, L. Wang, B. Zhang, P. Feng, L. Yang, **Jinfu Zhang\*\***, and J. Yu\*\*. 2024. Genomic and co-expression network analyses reveal candidate genes for oil accumulation based on an introgression population in Upland cotton (*Gossypium hirsutum*). *Theor. Appl. Genet.* 137: 23 (JIF: 5.4)

### 2023 (8 journal articles)

- A208. **\*\*Zhang, J. F.**, Y. Zhu\*, T. Wheeler, and J. K. Dever. 2023. Development and validation of allele-specific PCR-based SNP typing in a gene on chromosome D03 conferring resistance to Fusarium wilt race 4 in Upland cotton (*Gossypium hirsutum*). *Mol. Genet. Genom.* 298: 1579-1589 (JIF: 2.98)
- A207. **\*\*Zhang, J. F.**, Y. Zhu\*, T. Wheeler, J. Dever, and K. Hake. 2023. Targeted development of diagnostic SNP markers for resistance to Fusarium wilt race 4 in Upland cotton (*Gossypium hirsutum*). *Mol. Genet. Genom.* 298: 895-903 (JIF: 2.98)
- A206. \*Zhu Yi, Kathleen Willey, Terry Wheeler, Jane K. Dever, Derek Whitelock, Tom Wedegaertner, Kater Hake, Kaitlyn Bissonnette, and **Jinfu Zhang**. 2023. A rapid and reliable method for evaluating cotton resistance to Fusarium wilt race 4 based on taproot rot at the seed germination stage. *Phytopathology* 113: 904-916 (JIF: 4.01)
- A205. \*Zhu Y., A. Abdelraheem, P. Cooke, T. Wheeler, J. K. Dever, K. Hake, K. Bissonnette, and **J. F. Zhang**. 2023. Comparative analysis of infection process in Upland cottons differing in resistance to Fusarium wilt caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. *Crop Sci.* 63: 1330-1343 (JIF: 2.763)
- A204. \*Zhu Yi, Heather Elkins-Arce, Terry A. Wheeler, Jane Dever, Derek Whitelock, Kater Hake, Tom Wedegaertner, and **Jinfu Zhang\*\***. 2023. Effect of growth stage, cultivar, and root wounding on disease development in cotton caused by Fusarium wilt race 4 (*Fusarium oxysporum* f. sp. *vasinfectum*). *Crop Sci.* 63: 101-114 (JIF: 2.763)
- A203. Zeng, L., L. Hinze, D. D. Fang, C. Delhom, and **J. F. Zhang**. 2023. Analysis of a cotton introgression population derived through multiple generations of random mating in multiple-parents crosses. *Euphytica* 219: 101 (JIF: 2.185)
- A202. Ulloa M., Robert B. Huttmacher, **J. F. Zhang**, TariLee Schramm, Philip A. Roberts, Margaret Ellis, Jane K. Dever, Terry A. Wheeler, Travis W. Witt, Soum Sanogo, Steve Hague, Mark Keely, Joel Arce, Jorge Angeles, Kater Hake, and Paxton Payton. 2023. Registration of 17 upland germplasm lines (PSSJ-FRU01 to PSSJ-FRU17) with improved resistance to Fusarium wilt race 4 and good fiber quality. *J. Plant Reg.* 17: 152-163 (JIF: 0.902)



A201. Mao H., W. Zhang, J. Lv, J. Yang, S. Yang, B. Jia, J. Song, M. Wu, W. Pei, J. Ma, B. Zhang, **J. F. Zhang**, L. Wang, and J. Yu. 2023. Overexpression of cotton Trihelix transcription factor GhGT-3b\_A04 enhances resistance to *Verticillium dahliae* and affects plant growth in *Arabidopsis thaliana*. *J. Plant Physiol.* 283: 153947 (JIF: 3.686)

#### 2022 (16 journal articles)

- A200. **\*\*Zhang Jinfa**, Yi Zhu, Heather D Elkins-Arce, Terry Wheeler, Jane K Dever, Derek Whitelock, Tom Wedegaertner, Kater Hake, and Kaitlyn Bissonnette. 2022. Efficiency of selection for resistance to Fusarium wilt race 4 in cotton when conducted in the field versus greenhouse. *Euphytica* 218: 165 (JIF: 2.185)
- A199. **\*\*Zhang Jinfa**, Abdelraheem Abdelraheem\*, Yi Zhu\*, Heather Elkins-Arce, Jane Dever, Terry A. Wheeler, Derek Whitelock, Kater Hake, and Tom Wedegaertner. 2022. Studies of evaluation methods for resistance to Fusarium wilt race 4 (*Fusarium oxysporum* f. sp. *vasinfectum*) in cotton: effects of cultivar, planting date, and inoculum density on disease progression. *Front. Plant Sci.* 13: 900131 (JIF: 6.627)
- A198. **\*\*Zhang Jinfa**, Yi Zhu\*, Heather Elkins-Arce, Jane Dever, Terry A. Wheeler, Derek Whitelock, Kater Hake, and Tom Wedegaertner. 2022. Studies of evaluation parameters for resistance to Fusarium wilt in cotton caused by Fusarium wilt race 4 (*Fusarium oxysporum* f. sp. *vasinfectum*). *Crop Sci.* 62: 1115-1132 (JIF: 2.763)
- A197. **\*\*Zhang Jinfa**, Abdelraheem Abdelraheem\*, Jianjiang Ma, Yi Zhu\*, Jane Dever, Terry A. Wheeler, Derek Whitelock, Kater Hake, Tom Wedegaertner, and Jiwen Yu. 2022. Mapping of dynamic QTLs for resistance to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in a backcross inbred line population of Upland cotton. *Mol. Genet. Genom.* 297:319-332 (JIF: 2.98)
- A196. **\*\*Zhang Jinfa**, Yi Zhu\*, Abdelraheem Abdelraheem\*, Heather Elkins-Arce, Jane Dever, Terry A. Wheeler, Tom Isakeit, Kater Hake, and Tom Wedegaertner. 2022. Use of a Latin square design to assess experimental errors in field evaluation of cotton for resistance to Fusarium wilt race 4. *Crop Sci.* 62: 575-591 (JIF: 2.763)
- A195. \*Zhu Yi, Abdelraheem Abdelraheem\*, Gregory N. Thyssen, Zonghua Teng, David D. Fang, Johnie N. Jenkins, Jack C. McCarty Jr, Tom Wedegaertner, and **Jinfa Zhang\*\***. 2022. A GWAS identified a major QTL for resistance to Fusarium wilt (*Fusarium oxysporum* f. sp. *vasinfectum*) race 4 in a MAGIC population derived from intermingling of eleven Upland cotton (*Gossypium hirsutum*) parents. *Theor. Appl. Genet.* 135: 2297-2312 (JIF: 5.574)
- A194. \*Zhu Yi, A. Abdelraheem\*, Terry A. Wheeler, Jane K. Dever, Tom Wedegaertner, Kater D. Hake, and **Jinfa Zhang\*\***. 2022. Comparative analysis of infection process in Pima cotton differing in resistance to Fusarium wilt caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. *Phytopathology* 112: 852-861 (JIF: 4.01)
- A193. \*Abdelraheem A., Y. Zhu\*, and **Jinfa Zhang\*\***. 2022. Quantitative trait locus mapping for fusarium wilt race 4 resistance in a recombinant inbred line population of Pima cotton (*Gossypium barbadense*). *Pathogens* 11: 1143
- A192. Zhang Bingbing, Guoyuan Liu, Jikun Song, Bing Jia, Shuxian Yang, Jianjiang Ma, Ji Liu, Kashif Shahzad, Wenkui Wang, Wenfeng Pei, Man Wu, **Jinfa Jinfa**, and Jiwen Yu. 2022. Analysis of the MIR396 gene family and the role of MIR396b in regulating fiber length in cotton. *Physiol. Plant.* 174: e13801 (JIF: 5.081)
- A191. Ma Jianjiang, Yafei Jiang, Wenfeng Pei, Man Wu, Qifeng Ma, Ji Liu, Jikun Song, Bing Jia, Shang Liu, Jianyong Wu, **Jinfa Zhang** and Jiwen Yu. 2022. Gene expression and sequence variants reveal the mechanism underlying improvements in fibre elongation in an introgressed population derived from *Gossypium hirsutum* × *Gossypium barbadense*. *J. Plant Biotechnol.* 20: 1940–1955 (JIF: 13.263)
- A190. Song Jikun, Wenfeng Pei, Nuohan Wang, Jianjiang Ma, Man Wu, Yue Xin, Shuxian Yang, Wei Wang, Quanjia Chen, **Jinfa Zhang**, Jiwen Yu, and Yanying Qu. 2021. Transcriptome analysis and identification of genes associated with oil accumulation in upland cotton. *Physiol. Plant.* 174: e13701 (JIF: 5.081)
- A189. Wu Luyao, Bing Jia, Wenfeng Pei, Li Wang, Jianjiang Ma, Man Wu, Jikun Song, Shuxian Yang, Yue Xin, Li Huang, Pan Feng, **Jinfa Zhang**, and Jiwen Yu. 2021. QTL analysis and identification of candidate genes affecting seed size and shape in an interspecific backcross inbred line population of *Gossypium hirsutum* × *Gossypium barbadense*. *Front. Plant Sci.* 13: 837984 (JIF: 6.627)
- A188. Wu M., W. Pei, T. Wedegaertner, **J. F. Zhang**, and J. Yu. 2022. Genetics, breeding and genetic engineering to improve cottonseed oil and protein: a review. *Front. Plant Sci.* 13: 864850 (JIF: 6.627)

- A187. Feng J., Y. Li, **J. F. Zhang**, M. Zhang, X. Zhang, K. Shahzad, L. Guo, T. Qi, H. Tang, H. Wang, X. Qiao, Z. Lin, C. Xing, and J. Wu. 2022. Transcript complexity and new insights of restorer line in cms-d8 cotton through full-length transcriptomic analysis. *Front. Plant Sci.* 13: 930131 (JIF: 6.627)
- A186. Han W., J. Zhao, X. Deng, A. Gu, D. Li, Y. Wang, X. Lu, Q. Zu, Q. Chen, Q. J. Chen, **J. F. Zhang**, and Y. Qu. 2022. Quantitative trait locus mapping and identification of candidate genes for resistance to Fusarium wilt race 7 using a resequencing-based high density genetic bin map in a recombinant inbred line population of *Gossypium barbadense*. *Front. Plant Sci.* 13: 815643 (JIF: 6.627)
- A185. Liu Y., Y. Zhai, Y. Li, J. Zheng, **Jinfa Zhang**, M. Kumar, F. Li, and M. Ren. 2022. Multiple strategies to detoxify cottonseed as human food source. *Front. Plant Sci.* 13: 1080407 (JIF: 6.627)

### 2021 (16 journal articles)

- A184. **\*\*Zhang Jinfa** and Tom Wedegaertner. 2021. Genetics and breeding for glandless Upland cotton with improved yield potential and disease resistance: a review. *Front. Plant Sci.* 12:753426 (JIF: 6.627)
- A183. **\*\*Zhang Jinfa**, Abdelraheem Abdelraheem, Tom Wedegaertner. 2021. Tolerance of Pima and Upland cotton to trifloxysulfuron (Envoke) herbicide under field conditions. *J. Cotton Res.* 4:26
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**C. Non-refereed publications in proceedings**

**2024**

- C56. Zhu Yi, **Jinfa Zhang**, Heather Elkins-Arce, Joel Arce, Orlando Flores, Terry Wheeler, and Jane Dever. 2023. Marker-assisted selection for resistance to Fusarium wilt race 4 in upland cotton. *Proc. Beltwide Cotton Conf.* p. 433-435.

- C55. **Zhang Jinfa**, Abdelraheem Abdelraheem, Yi Zhu, Linghe Zeng, Sally Stetina, Chunda Feng, Terry Wheeler, and Jane Dever. 2024. Seeking and Utilization of new genetic sources for resistance to Fusarium wilt race 4 and bacterial blight race 18 in upland cotton. *Proc. Beltwide Cotton Conf.* p. 438-439.

**2022**

- C54. **Zhang J. F.**, Y. Zhu, A. Abdelraheem, H. Arce, Jane K Dever, Terry A. Wheeler, K. Hake, and T. Wedegaertner. 2022. Evaluation methods, germplasm evaluation, genetics, and breeding for resistance to Fusarium wilt race 4 in cotton: personal knowledge and experiences. *Proc. Beltwide Cotton Conf.* p. 110-120.

**2020**

C53. **Zhang Jinfa**, Abdelraheem Abdelraheem, Yi Zhu, Terry Wheeler, Robert Nicholas and T. Wedegaertner. 2020. Greenhouse screening of cotton for Fusarium wilt race 4 resistance in New Mexico. Proc. Beltwide Cotton Conf. p85-90

**2019**

C52. Ellassbli Hanan, Abdelraheem Abdelraheem, Soum Sanogo, **Jinfa Zhang**, Vasu Kuraparthi, David M. Stelly, Lori Hinze, Terry A. Wheeler and Tom Wedegaertner. A genome-wide association study of resistance to Fusarium wilt and bacterial blight in US Upland cotton germplasm. Proc. Beltwide Cotton Conf. p16-20

**2018**

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**E. Non-refereed abstracts in proceedings**

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E91. Zhu Yi, Hanan Elassbli, Abdelraheem Abdelraheem, **Jinfa Zhang**, Gregory Thyssen, David Fang, Terry Wheeler, Johnie Jenkins, Jack McCarty, Kater Hake, and Kaitlyn Bissonnette. 2023. High resolution mapping and candidate gene identification for B12 conferring resistance to bacterial blight race 18 in a MAGIC population of upland cotton. Conference Proc. Beltwide Cotton Conf. p. 164.

E90. Zhu Yi, **Jinfa Zhang**, Jane Dever, Terry Wheeler, Kater Hake, and Kaitlyn Bissonnette. 2023. Development of DNA markers for resistance to Fusarium wilt race 4 in cotton based on a reliable greenhouse evaluation method. Proc. Beltwide Cotton Conf. p. 165.

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E89. Zhu Y., K. Willey, Terry A. Wheeler, Jane K. Dever, K. Hake, T. Wedegaertner, and **J. F. Zhang**. 2022. A rapid screening method for evaluating resistance to Fusarium wilt in cotton caused by *Fusarium oxysporum* f. sp. *vasinfectum* race 4. Proc. Beltwide Cotton Conf. p. 254

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E84. Moore K, A. Abdelraheem, Y. Zhi, D. Whitelock, C. Armijo, P., Funk, T. Wedegaertner, and **J. F. Zhang**. 2021. Genetic variation in seed size and fuzz content in commercial cultivars and breeding lines of Upland cotton. Proc. Beltwide Cotton Conf. p.222

## 2020

E83. Abdelraheem Abdelraheem, T. Wedegaertner, and **Jinfa Zhang**. 2020. Genetic analysis and quantitative trait locus mapping for Fusarium wilt race 4 resistance in a recombinant inbred line population of Pima cotton. Proc. Beltwide Cotton Conf. p.92

E82. Abdelraheem Abdelraheem, and **Jinfa Zhang**. 2020. Waterlogging tolerance in six cotton genotypes at the seedling stage. Proc. Beltwide Cotton Conf. p.91

E81. **Zhang Jinfa**, Yi Zhu, Abdelraheem Abdelraheem, Philip Lujan, John Idowu, Robert Nicholas, and T. Wedegaertner. 2020. Field survey, detection and characterization of Fusarium wilt race 4 in cotton in New Mexico. Proc. Beltwide Cotton Conf. p84

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E80. **Zhang Jinfa**, Yi Zhu, Abdelraheem Abdelraheem, Zhonghua Teng, David D. Fang, Gregory N. Thyssen, Johnie N. Jenkins, Jack C. McCarty, and Tom Wedegaertner. 2019. A genome-wide association study of Fusarium wilt resistance in a MAGIC population of Upland cotton. Proc. Beltwide Cotton Conf. p14

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E76. Abdelraheem A., **Jinfa Zhang**, Gregory N. Thyssen, D. D. Fang, J. N. Jenkins, and Jack C. McCarty Jr. 2018. A genome-wide association study of tolerance to biotic and abiotic stresses in a MAGIC population of upland cotton. Proc. Beltwide Cotton Conf. p565

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E74. Martinez G.K. Jr., Z. Larson, A. Abdelraheem, **Jinfa Zhang**, J. McCarty Jr., and J.N. Jenkins. 2017. Evaluation of a magic population derived from rmbup-c4 for Verticillium wilt resistance. Proc. Beltwide Cotton Conf. p519

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**2015**

- E69. Said Joseph, Joseph Knapka, Hantao Wang, Zhongxu Lin, Xianlong Zhang, David Fang, M. Z. Song, and **Jinfa Zhang**. 2015. Comprehensive meta-analysis of QTLs and development of a QTL database in cotton. Proc. Beltwide Cotton Conf. p432
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- E62. Qu Yanying, C. J. Chen. L. Ma and **Jinfa Zhang**. 2013. Proteomic analysis of responses to drought stress in cotton seedlings by two-dimensional gel electrophoresis and spectrometry. Plant and Animal Genome Conferences XXI, Jan. 12-16, 2013 (abstract online)
- E61. Barrick Brain, Zena Archie, April Ulery and **Jinfa Zhang**. 2013. Salt responses of four cotton genotypes grown in two soils. Proc. Beltwide Cotton Conf. p835

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- E59. Fang Hui, Huiping Zhou, S. Sanogo, M. Gore, R. Flynn, R. G. Percy, D. D. Fang, and **Jinfa Zhang**. 2012. Mapping quantitative trait loci for resistance to *Verticillium* wilt (*Verticillium dahliae*) using a recombinant inbred line population. Proc. Beltwide Cotton Conf. p785
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- E54. Adams Nick, Robert Flynn, S. Bajaj, Richard G. Percy, Don. C. Jones, Sidney E. Hughs, and **Jinfa Zhang**. 2011. Identification of cotton germplasm and molecular markers for drought tolerance. Proc. Beltwide Cotton Conf. p708
- E53. Yu Jiwen, Longyun Li, Man Wu, Meizhen Song, Shuli Fan, **Jinfa Zhang**, and Shuxun Yu. 2011. Identification of micronaire-related genes based on comparative oligonucleotide microarray analysis between introgression lines. Proc. Beltwide Cotton Conf. p698

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