

Christy Wheeler West

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Education

University of Minnesota, Minneapolis
x Postdoctoral research association 20012003
x

Honors and awards

- x 2023 Corcoran Award (Chemical Engineering Division of ASEE)
- x 2022 Gary Leach Recognition Award (American Institute of Chemical Engineers)
- x Mortar Board Honor Society "Top Prof", 2013, 2014, 2016, 2022
- x 2020 Andy and Carol Denny National Alumni Association Excellence in Teaching Award
- x Poster Award, ASEE Chemical Engineering Summer School, 2017
- x College of Engineering Excellence in Teaching Award, 2014,
- x Gulf Coast Advance Spotlight Scientist, March 2014
- x Georgia Tech School of Chemical Engineering Teamwork Award, 2000
- x Georgia Institute of Technology President's Fellow, 2006-
- x Tau Beta Pi, The Engineering Honor Society, 1994
- x Omega Chi Epsilon Chemical Engineering Honor Society, 1994
- x Alpha Chi Epsilon Chemistry Honor Society, 1994
- x Pi Mu Epsilon Mathematics Honor Society, 1994

Active professional memberships and service

- x American Institute of Chemical Engineers
 - o Education Division Chair
- x American Society of Engineering Education
 - o 2027 ASEE/AIChE Summer School for Engineering Faculty, Chair
- x ABET
 - o Chemical Engineering program evaluator
- x Tau Beta Pi Engineering Honor Society
 - o Faculty advisor
- x Omega Chi Epsilon Chemical Engineering Honor Society
 - o Faculty advisor
- x Council on Undergraduate Research

Current research topics

Transfer student success initiatives

Developing interventions for both students and community college faculty and staff to promote success and shorten time to degree

Persistence in STEM for students placing in pre-calculus courses
Creating pathways and support to calculus intensive degrees for students who are at risk because their pre-college preparation does not prepare them to begin in calculus

Faculty perspectives on undergraduate research
Understanding motivating and detracting factors for faculty to engage in the practice of including undergraduate students in their research programs

PeerReviewed

In Situ Formation of Alkylcarbonic Acids with CO₂ K.N. West, C. Wheeler, J.P. McCarney, K.N. Griffith, D.M. Bush, C.L. Liotta, C.A. Eckert Phys. Chem 2001, 105, 3947-3948.

Phase Transfer Catalysis in Supercritical Carbon Dioxide: Kinetic and Mechanistic

Laying a Foundation with Outcome Assessment in Material and Energy ~~BAW~~
West, AIChE Annual Meeting Orlando, FL, 2019.

Integrating VBA~~Excel~~ into the Curriculum across Seven ~~Year~~ Courses~~K.N.~~
West,C.W.West,B.D.Rabideau, AIChE Annual Meeting, Orlando, 2019

Starting Early and Small with Technical Communications: Sophomores, P
CaptionsC.W. West, AIChE Annual Meeting, Pittsburgh, 2018.

Functionalization of Cellulose Surfaces using Dye Anchors and Click ~~Chemistry~~
West, A Brown, C Moran, M.Bozman, T.GGlover and ~~K.N.~~ West AIChE Annual
Meeting, Pittsburgh, 2018.

Versatile Surface Modifications for Functionalization of Fibers, C.W. West, K.N. West,
T.G. Glover, M. Bozman, C. Moran, AIChE Annual Meeting, Minneapolis, 2017.

Improving Student Writing Using Word Clouds, C.W. West, ASEE Chemical Engineering
Summer School, Raleigh, 2017.

Developing Professional Skills through a Service Learning Project on Al
RecyclingC.W. West, AIChE Annual Meeting, San Francisco, 2016.

Highly Dispersed Metals on Metal Oxide Supports Via Reactive Depositic
Supercritical ~~CQ~~J.W. Deal, K.N. West, C.W. West, AIChE Annual Meeting, A
2016.

Integrating Technical Content and Soft~~Skills~~ Development in an Engineering Course
through a Project Promoting Aluminum Recy~~cling~~,C.W. West, Conference on Teaching
and Learning, Mobile, 2016.

Impact of Sulfur Heteroatoms on the Activity of Quaternary Ammonium Salts as Phase
Transfer Catalysts, C.W. West, R.A. O'Brien, E.A. Salter, T. Huynh, A. Wierzbicki, and
J.H. Davis, Jr., AIChE Annual Meeting, Salt Lake City, 2015.

Water~~Gas~~ Shift Reaction on Catalysts Prepared using Supercritical Fluid De
C.W. West, J.W. Deal, C.B. Corey, and P. Le, AIChE Annual Meeting, Atlanta, 2014.

Catalyst Preparation by Addition of Metal Ions During the Synthesis of Silica, ~~Aerogels~~
Youngpeter and C.W. West, AIChE Annual Meeting, Atlanta, 2014.

Dispersed Pt/Ceria Catalysts for ~~Water~~ Gas Shift Prepared Using Supercritical F
Deposition,J.W. Deal, P.T. Le, C.B. Corey, and C.W. West, AIChE Annual M
Atlanta, 2014.

Separations Using Supercritical ~~Deposited~~ Adsorbents, S. Woodard, K.N. West, J.W.
Deal, C.W. West, and, AIChE Annual Meeting, Atlanta, 2014.

Supercritical Fluid Deposition of Dispersed Platinum on Supported ~~Ceria~~, J.
W. Deal, C.B. Corey, AIChE Annual Meeting, San Francisco, 2013.

Novel Quaternary Ammonium Salts as Phase

Environmentally Benign Solvent Systems for Chemical Reactions and Processes, C.L. Liotta, J.S. Brown, K.N. West, J.P. Hallett, J.P. McCarney, S.A. Nolen, C.W. Culp (Wheeler), K.N. Griffith, C.A. Eckert, R. Gläser, ACS Joint Southwest Regional Meeting, New Orleans 2000.

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

CO₂-Alcohol Systems for Novel in situ Acid Generation, C.W. Culp (Wheeler), K.N. West, J.P. McCarney, K.N. Griffith, C.L. Liotta, C.A. Eckert, AIChE Annual Meeting, Los Angeles 2000.

CO₂-Soluble Phase Transfer Catalysts for the Synthesis of Polyketones
5 K Asea[(N,5 (s)-U-1 (o i1 (s)-1ng)-2 (e)d E2 (s)n-3

23rd Annual Summer Undergraduate Research Fellowship Program, West Alabama Space Grant Consortium (NASA), \$20,000. 2021.

BASF Teens' Lab 2020, C.W. West (PI), A. Stenson, BASF Corporation, \$15,000. 2020.

22^d Annual Summer Undergraduate Research Fellowship Program, West Alabama Space Grant Consortium (NASA), \$20,000. 2020.

BASF Teens' Lab 2019, C.W. West (PI), J.W. Coym, J.W. Steadman, BASF Corporation,

EG390H – Energy and Sustainability
 EG 501 – Research Integrity Seminar
 HON 301 – Introduction to Senior Honors Project

Student Research Direction

<u>Thesis committee chair</u>		<u>Thesis committee member</u>	
Doctoral students	1	Master's degree students	11
Master's degree students	4	University honors students	9
University honors students	8		
Departmental honors students	11		

Service

Professional Service

ASEE/AIChE Summer School for Chemical Engineering Faculty, 2023-present
 Chair of 2027 Summer School

AIChE Education Division

x Division Chair	2022-present
x Division 1 st Vice Chair	2021-2023
x Division 2 nd Vice Chair	2019-2021
x Annual Meeting Education Division programming chair	2019-2023
x Awards committee	2020-2022
x Survey/Curriculum committee	2018-2023
x Reactor design/Process Control/Computing Virtual Community of Practice leader	2021
x Material and Energy Balances/Thermodynamics Virtual Community of Practice leader	2020
x Annual Meeting session chair	2017, 2018, 2019, 2020, 2021, 2023
x Annual Meeting student poster competition judge	2014, 2015, 2017, 2018
x Annual Meeting student paper competition judge	2013

ABET

x Program evaluator for AIChE member society

2021-present

Proposal review activities

x NSF –

- o Promotion and Tenure committee 20172018
- o Excellence in Teaching Award committee 20152019
- o Academic Standards committee, Chair 20142018
- o Scholarship committee 20122020
- x Search committees
 - o Chemical Engineering department chair 2023
 - o College of Engineering assistant/associate professor of instruction 2023
 - o Chemical engineering instructor, committee chair 2021
 - o Professor of practice, committee chair 2021
 - o College of Engineering dean 2019
 - o College of Engineering instructor/assistant professor 2016
 - o Chemical Engineering department chair 2016
 - o Chemical Engineering visiting assistant professor 2016
 - o Chemical Engineering assistant professor 2011, 2016
 - o Systems Engineering program chair 2015
 - o College of Engineering laboratory instructor 2015
 - o Systems Engineering assistant/associate professor 2013, 2014
 - o Electrical and Computer Engineering assistant/associate professors 2015, 2018

Departmental Service

- x Undergraduate Program Chair 2016-present
- x Promotion and Tenure Committee, Chair 2022
- x Acting Department Chair (summers) 2015, 2016
- x Summer advising – first years and transfers 20132016
- x AIChE student chapter faculty adviser 20112017
- x Omega Chi Epsilon faculty adviser 2014-present

Community Service and Outreach

- x BASF Teens' Lab 2017, 2018, 2019, 2021, 2022
- x Scouts BSA Merit Badge Jubilee coordinating committee 20192020
- x Alabama Academy of Sciences Gorgas Scholarship reader/judge 20162019, 2020, 2022
- x Mobile County Elementary School Student Leadership Conference presenter 2019
- x Girls Enjoying Math and Science (GEMS) planning committee 20152017
- x GEMS workshop presenter 2014, 2015, 2016

