BENJAMIN A. WILHITE, Associate Professor of Chemical Engineering,
Artie McFerrin Department of Chemical Engineering
Texas A&M University, College Station TX 77843
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Education:

Massachusetts Institute of Technology,	Microchemical Systems	2002-2005
University of Notre Dame	Ph.D., **Chemical Engineering**	2003
North Carolina State University	B.S., **Chemical Engineering**	1997

Appointments:

Artie McFerrin Department of Chemical Engineering, Texas A&M Univ.
- Associate Professor of Chemical Engineering, w/ tenure 2013-present
- Interim Associate Department Head (*Untenured*), Undergraduate Studies 2011-2013
- Associate Professor of Chemical Engineering, w/o tenure 2010-2013

CMBE Department, University of Connecticut
- Assistant Professor 2005-2010

Connecticut Global Fuel Cell Center (CGFCC), University of Connecticut
- Assistant Professor 2005-2010

Department of Chemical Engineering, M.I.T.
- Research Scientist 2004-2005
- Postdoctoral Research Associate 2002-2004

Department of Chemical Engineering, University of Notre Dame
- Graduate Instructor 2001-2002
- Arthur J .Schmitt Research Fellow 1997-2001

Honors and Recognitions:

- ***George Armistead, Jr. 23' Faculty Excellence Award for Service (TAMU)*** 2018
- ***Linda and James Harris Outstanding Undergraduate Instructor (TAMU)*** 2015
- ***American Chemical Society Doctoral New Investigator (ACS-DNI)*** 2008
- ***National Science Foundation CAREER Award*** 2008
- ***Office of Naval Research Young Investigator Award*** 2007
- ***DuPont Young Faculty Grant*** 2007
- ***Univ. of Conn. Junior Faculty Summer Fellowship***, 2007
- ***Invited Keynote Speaker,***
  - Robert M. Langer Graduate Student Symposium, Yale University 2006
- ***Inductee, Sigma Xi Scientific Research Society,***
  - Massachusetts Institute of Technology Chapter, 2004
- ***Outstanding Graduate Student Teacher Award,***
  - University of Notre Dame, 2002
- ***Arthur J. Schmitt Research Fellowship,***
  - University of Notre Dame 1997-2001

Professional Service:

- **International Conference on Catalysis in Membrane Reactors (ICCMR)**
  - **Lead Organizer,** 13th International Conference on Catalysis in Membrane Reactors (ICCMR-13), Houston, TX 2017.

- **International Symposia on Chemical Engineering (ISCRE)**
  - **Secretary, Board of Directors,** Elected 2014
  - **Member, Board of Directors**, Elected 2010
  - **Co-Organizer,** 3rd Symposium, North America (NASCRE-3), Houston, TX, 2013
  - **Chair, *Computational Transport and Reaction Workshop*,** *NASCRE-3, Houston, TX 2013*
  - **Member, Scientific Committee**, 21st Symposium (ISCRE-21), Philadelphia PA, 2010.

- **American Institute of Chemical Engineers (AIChE)**
  - **Division Director,** CRE Division 20, Fall 2011 – Fall 2014
  - **Planning Chair**, Division 20b, Fall 2008 – Fall 2010.
  - **Planning Vice-Chair,** Division 20b, Fall 2007 – Fall 2008.

- **American Chemical Society (ACS)**
  - ***Organizer***, Symposium on Hydrogen Reforming, *ACS 2007 Fall Meeting, Boston, MA.*
  - ***Co-Chair***, Perspectives on Hydrogen Generation, *ACS 2007 Fall Meeting, Boston, MA.*
  - ***Chair***, Small-Scale Hydrogen Generation: Status and Future Challenges, *ACS 2007 Fall Meeting, Boston, MA.*

- **American Society of Mechanical Engineers (ASME)**
  - ***Track Chair,*** Fuel Cell Systems: Integration and Implementation, 5th International Fuel Cell Science, Engineering and Technology Conference, New York, NY, June 18th-21st, 2007.

- **Indian Institute of Chemical Engineering (IIChE)**
  - ***Chair***, Polymer Materials and Processing, ChemCon 2008, Chandigarh, India.

Editorial Service:

- Editor, Chemical Engineering Processing: Process Intensification [Elsevier, IF: 2.24], 2018 – present.
- Associate Editor, Chemical Engineering Processing: Process Intensification [Elsevier, IF: 2.24], 2016-2018.
- ***Guest Editor***, "ICCMR-13 – Selected Papers from the 13th International Conference on Catalysis in Membrane Reactors, July 10th-13th, Houston TX, USA," Catalysis Today (2018). *[expected 10 articles]*
- ***Guest Editor***, "Hydrogen Production – Selected Papers from the Hydrogen Production Symposium at the American Chemical Society 234th National Meeting and Exposition, August 19-23, 2007, Boston MA, USA," Catalysis Today, 139 (2009). *[8 articles, 622 total citations]*.

Notable University Service:

Artie McFerrin Department of Chemical Engineering, Texas A&M Univ.

Dean's Research Council	*2015-2016*
EIC Faculty Committee	*2013-2016*
Associate Department Head, Undergraduate Studies, Chemical Eng.	*2011-2013*
Chairman, Undergraduate Committee, Chemical Engineering	*2011-2013*

Member, Graduate Committee, Chemical Engineering	*2010-2011*
Member, Graduate Admissions Sub-Committee, Chemical Eng.	*2010-2011*
Elected Member, Faculty Senator	*2015-present*
Member, Research Committee	*2015-2016*
Member, Honors Council	*2015-present*
CMBE Department, University of Connecticut	
Honors Undergraduate Advisor, Chemical Engineering Program	*2006-2010*
Member, University Scholars Committee	*2006-2010*
Member, Office of Undergraduate Research Advisory Board	*2006-2010*
Member, Undergraduate Committee, Chemical Engineering	*2006-2010*

Teaching Responsibilities:

A. Courses Taught (since first TT appointment, August 2005):

Spring 2006. CHEG 251: Process Kinetics. Enrollment: 38. Average Evaluation Score: **8.6/10**.

- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. Prentice-Hall, 2006.

Fall 2006. CHEG 312: Transport Processes I (Grad). Enrollment: 15. Average Evaluation Score: **8.1/10**.

- Bird, Stewart and Lightfoot. Transport Phenomena, 2nd Edition. (2005).
- Leal. Laminar Flow and Convective Transport Processes. (1992).

Spring 2007. CHEG 251: Process Kinetics. Enrollment: 42. Average Evaluation Score: **8.6/10**.

- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. (2006).

Fall 2007. CHEG 321: Chemical Reaction Engineering (Grad). Enrollment: 10. Average Score: **9.1/10**.

- Lectures primarily based upon instructors notes developed from J.J. Carberry and Arvind Varma.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).
- Carberry, J.J. Chemical and Catalytic Reaction Engineering. (1976).
- Schmidt, L.D. The Engineering of Chemical Reactions (2005).

Spring 2008. CHEG 239W: Unit Operations Laboratory II. Enrollment: 42. Average Score: **8.4/10**.

- Responsible for experiments on PID Control Systems, Reaction Kinetics and Biodiesel Production.
- Aided in development of new Biodiesel Production lab assignment.

Fall 2008. CHEG 321: Chemical Reaction Engineering (Grad). Enrollment: 10. Average Score: **8.5/10**.

- Lectures primarily based upon instructors notes developed from J.J. Carberry and Arvind Varma.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).
- Carberry, J.J. Chemical and Catalytic Reaction Engineering. (1976).
- Schmidt, L.D. The Engineering of Chemical Reactions (2005).

Spring 2009. CHEG 4999: Special Topics in Energy (UG/Grad). Enrollment: 14. Average Score: **8.3/10**.

- Lectures focused on Chemical Engineering aspects of Fuels, Energy Systems and Sustainability
- Students prepared research reports on Biofuels, Solar Energy, Hydrogen Storage and other topics.

Fall 2009. CHEG 5321: Chemical Reaction Engineering (Grad). Enrollment: 20. Average Score: **8.3/10**.

- Lectures primarily based upon instructors notes developed from J.J. Carberry and Arvind Varma.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).

- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).
- Carberry, J.J. Chemical and Catalytic Reaction Engineering. (1976).
- Schmidt, L.D. The Engineering of Chemical Reactions (2005).

Spring 2010. CHEG 4999: Special Topics in Energy (UG/Grad). Enrollment: 8. Average Score: **8.6/10**.
- Lectures focused on Chemical Engineering aspects of Fuels, Energy Systems and Sustainability
- Students prepared research reports on Biofuels, Solar Energy, Hydrogen Storage and other topics.
- Students assigned bi-weekly homework, comprised of engineering calculations and back-of-the-envelope analysis questions.

Spring 2011: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 21. Average Score: **4.5/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).
- Carberry, J.J. Chemical and Catalytic Reaction Engineering. (1976).
- Schmidt, L.D. The Engineering of Chemical Reactions (2005).

Fall 2011: CHEN 464: Chemical Reaction Engineering (Undergrad). Enrollment: 46. Average Score: **4.1/5**
- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. (2006).

Spring 2012: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 29. Average Score: **4.5/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).
- Schmidt, L.D. The Engineering of Chemical Reactions (2005).

Fall 2012: CHEN 464: Chemical Reaction Engineering (Undergrad). Enrollment: 63. Average Score: **4.1/5**
- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. (2006).

Spring 2013: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 30. Average Score: **4.6/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).

Fall 2013: CHEN 485: Chemical Reaction Engineering (Undergrad). Enrollment: 5. Average Score: **4.7/5**
- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. (2006).

Fall 2013: CHEN 424: Chemical Eng. Mass Ops (Undergrad). Enrollment: 41. Average Score: **3.4/5**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Spring 2014: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 30. Average Score: **4.6/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).

Fall 2014: CHEN 485: Chemical Reaction Engineering (Undergrad). Enrollment: 2. Average Score: **N.A.**
- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. (2006).

Fall 2014: CHEN 424: Chemical Eng. Mass Ops (Undergrad). Enrollment: 46. Average Score: **4.5/5**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Spring 2015: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 30. Average Score: **4.6/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).

Fall 2015: CHEN 424: Chemical Eng. Mass Ops (Undergrad). Enrollment: 65. Average Score: **4.3/5.**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Spring 2016: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 38. Average Score: **4.4/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).

Fall 2016: CHEN 424: Chemical Eng. Mass Ops (Undergrad). Enrollment: 68. Average Score: **4.0/5.**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Fall 2016: ICPE617: Gas Separations for Energy. Enrollment: 10. Average Score: **4.3/5**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Spring 2017: CHEN 624: Chemical Reaction Engineering (Grad). Enrollment: 38. Average Score: **4.4/5**
- Lectures based upon instructor-generated notes and distributed online via pencast technology.
- Levenspiel, O. Chemical Reaction Engineering, 3rd Edition (1999).
- Masel, R.I.. Chemical Kinetics and Catalysis. (2001).

Fall 2017: ICPE617: Gas Separations for Energy. Enrollment: 10. Average Score: **4.3/5**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Spring 2018: CHEN 324: Chemical Eng. Mass Ops (Undergrad). Enrollment: 68. Average Score: **4.0/5.**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Fall 2018: CHEN 464: Chemical Reaction Engineering (Undergrad). Enrollment: 63. Average Score: **4.1/5**
- Fogler, H.S. Elements of Chemical Reaction Engineering, 4th Edition. (2006).

Spring 2019: ICPE617: Gas Separations for Energy. Enrollment: 10. Average Score: **4.3/5**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

Spring 2019: CHEN 324: Chemical Eng. Mass Ops (Undergrad). Enrollment: 68. Average Score: **4.0/5.**
- Geankoplis, C. Transport Processes and Unit Operations, 3rd Edition (2007).

***B.* Undergraduate Academic Advising:**
- University of Connecticut: served as primary academic advisor to 32 Honors Students

C. Research Advisor and Postgraduate-Scholar Sponsor

Ph.D. Students: A. Moreno (2010); D. Kim (2011); A. Suresh (2011); B. Kuncharam (2013), H. Zhang (2016), E. Lugo (2016), H. Butcher (2017), X. Cui (2018), PVK

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