

Emmanuel A. Dada, Ph.D.; eadada@pvamu.edu, emmanuel.dada@ymail.com

Department of Chemical Engineering, PVAMU, 936-261-9968 (Tel.)/9414 (Fax)

1. **Academic Rank:** Assistant Professor (Full-time, tenure track))

2. **Education:** B.Sc., Chemical Engineering, Obafemi Awolowo University, Nigeria 1980.
M.S., Chemical Engineering, Lehigh University, 1986.
Ph.D., Chemical Engineering, Lehigh University, 1989.

3. **Academic Experience:**

2018 - Prairie View A & M University, Assistant Professor
2012-2018 PrairieView A&M University, Adjunct Instructor, full-time
1985-1989 Lehigh University, Teaching Assistant in graduate and undergraduate courses in chemical engineering.
1981-1984 University of Port Harcourt, Port Harcourt, Nigeria, Assistant Lecturer in undergraduate courses in chemical engineering.
1980-1981 Rivers State University of Science and Technology, Port Harcourt, Nigeria, National Youth Service (NYSC) instructor in undergraduate chemical engineering courses.

4. **Non-academic Experience**

CHEMPROCESS TECHNOLOGIES (CPT), LLC, League City, TX 2010 – Present
Principal Consultant, Consulting on Reactive Distillation, Energy Efficient Processes, etc.
Co-PI on \$1.1 million 2-year DOE funded research on Heat Integrated Reactive Distillation
PI on \$300K 1-year DOE Funded Grand Challenge FMC Project on Waste Heat Recovery
Consultant to E3TEC Services on \$120K 9-month DOE SBIR Project on Heat Enhancement
FMC CORPORATION, Princeton, NJ/Pasadena, TX 1995- 2009
Associate Research Fellow, FMC Corporation, 2004 – 2009
Senior Research Engineering Associate FMC Corporation, 2001 – 2004
Research Engineering Associate, FMC Corporation, 1998 - 2001
Senior Research Engineer, FMC Corporation, 1995 - 1998
ROHM AND HAAS COMPANY, Bristol, PA 1989 - 1994
Research Engineer, Ag Chemical Process Research 1993 - 1994
Research Engineer, Process Technology Network 1992 - 1993
Research Engineer, Fundamental Chemical Engineering Research 1989 – 1992

5. **Certification and professional registration:**

SACHE-AICHe Risk Assessment 2013
SACHE-AICHe Chemical Process Safety 2013

6. **Current Membership in Professional Organizations:**

Fellow AICHe, Fellow NSChE, Member ACS and Member NOBCCChE.

7. **Honors & Awards**

- AICHe MAC Eminent Engineer Award 2019
- Pioneer Award at MAC@25 AICHe, 2015
- The NOBCCChE- Joseph N. Cannon Award for Excellence in Chemical Engineering 2014
- MAC-AICHe William Grimes Award for Excellence in Chemical Engineering 2012

- MAC-AIChE Black Achiever in Chemical Engineering 2008
- NSChE (Nigeria Society of Chemical Engineers) Presidential Merit Award, 2002 and 2012

8. Service Activities (within and outside of the institution)

- Chairman, MAC-AIChE College Scholarship program from 1999 - present.
- Served as a technical advisor (AIChE representative) to The Global ACET Project, 2007 - 2008.
- Past Chair of SIOC (Societal Impact Operating Council) 2006-2007, and MAC of AIChE 2001-2003
- Member Board of Directors of Community Capital Advisors (CCA), Philadelphia, PA 2006-present
- Faculty Advisor, AIChE Student Chapter, Prairie View A & M University, 2014 – present
- Member, SACS/ABET Accreditation Committee of College of Engineering, PVAMU, 2018- present
- Elected to Senate, PVAMU 2020

9. Sample Publications and Presentations from the Last Five Years :

Matthew N. O. Sadiku, Emmanuel Dada, Sarhan M. Musa, and Kazeem B. Olanrewaju, “Ubiquitous Manufacturing”, *Journal of Scientific and Engineering Research, JSAER*, 2020, 7(5):212-214

Matthew N. O. Sadiku, Emmanuel Dada, Kazeem Olanrewaju, and Sarhan M. Musa, “Big Data in Healthcare”, *International Journal for Research in Applied Science and Engineering Technology, IJRASET*, Volume 7, Issue IX, September, 2019

Kazeem B. Olanrewaju, Liam Thai, and Emmanuel Dada, “Application of Computational Fluid Dynamics (CFD) in Biotransportation of Complex Fluid in the Human System”, *International Journal of Scientific and Engineering Research, IJSER*, **Volume 9, Issue 6, June 2018**

Matthew N. O. Sadiku, Adebowale E. Shadare, Emmanuel Dada, Sarhan M. M., “Digital Divide”, *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*; 2016, 3(10), 5661 - 5663.

Matthew N. O. Sadiku, Adebowale E. Shadare, Emmanuel Dada, Sarhan M. M., “Physics of Failure: An Introduction”, *International Journal of Scientific Engineering and Applied Science (IJSEAS)*, 2016, 2(10), 108 - 111.

Emmanuel A. Dada, Irvin W. Osborne-Lee, Michael Gyamerah, Kazeem Olanrewaju, "Development of Energy Efficient Process for the Capture of CO₂ from Post-Combustion Coal Fired Power Plant Flue Gases Using a Novel Solvent", Carbon Management Technology Conference, Sugar Land, TX , Nov 25, 2015.

Emmanuel A. Dada, Adewale Lawal, Olariche Diala, "Analysis of Green Supply Chain Model for Sustainable Petroleum Refining", Carbon Management Technology Conference, Sugar Land, TX , Nov 25, 2015.

Dada, Emmanuel; Lapham, Donald; Richards, Joseph, “Rapid Dilution of Peracid Solutions to Equilibrated Solutions”, US Patent 8,029, 693 B2, assigned to FMC, Oct 4, 2011

Emmanuel A. Dada, Kazeem Olarenrewaju, Roy A. Drayton, "Efficient Capture of CO₂ from Pulverized Coal Fired Plants", Paper 702f, AIChE Annual Conf., San Francisco, CA Nov 7, 2013

Philip Lutze, Emmanuel Dada, Rafiqul Gani, John M. Woodley, "Heterogeneous Catalytic Distillation- A Patent Review", Recent Patents on Chemical Engineering, 2010, 3, 208-229

10. Recent Professional Development Activities

Attended AIChE Conference, Orlando, FL, November 2019

Attended AIChE Conference, Pittsburgh, PA, October 28 – November 2, 2018

Attended Process Safety Faculty Workshop, Chevron Company, Richmond, CA August 13 – 16, 2017

Attended Southwest Process Technology Conference, Galveston, TX Oct 12 – 13, 2017

Attended AIChE Conference, Minneapolis, MN Oct 29 – Nov 2, 2017

Attended NOBCCChE Conference, Minneapolis, MN Nov 3 – 7, 2017

Attended and presented two papers at the Carbon Management Technology Conference, Sugar Land, TX, Nov 25, 2015

Attended and presented two papers at the AIChE Annual Conference, San Francisco, Nov. 2013

Attended AIChE Annual Conferences Fall 2015

Attended and presented two papers at the Carbon Management Technology Conference, Sugar Land, TX, Nov 25, 2015

Attended and presented two papers at the AIChE Annual Conference, San Francisco, Nov. 2013