Abbreviated Curriculum Vita

Felecia McInnis Nave, Ph.D.

CONTACT INFORMATION

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WEBSITES:

1. GiftedBlackSTEM – www.giftedblackstem.org
2. ADVANCEPAID – www.AdvanceHbcuWomenFaculty.org
3. Personal – www.FeleciaMNave.com

ACADEMIC BACKGROUND

2005 **Ph. D. in Engineering**, Department of Chemical and Environmental Engineering**,** University of Toledo, Toledo, Ohio
Advisor: Dr. Maria R. Coleman, Professor
Dissertation Research: *Impact of Mobile Phase Parameters on the Transport Properties of Proteins in Immobilized Metal Affinity Hydrogel Membranes.*

2001 **M.S. in Chemical and Environmental Engineering,** Department of Chemical & Environmental Engineering University of Toledo, Toledo, Ohio

1997 **B.S. in Chemistry,** Alcorn State University, Lorman, Mississippi

RESEARCH INTEREST

- Modification of surface chemistry to achieve selective separation using functionally specified membranes and thin films. Modeling the behavior of these systems is area of interest also.
- Design, development and characterization of new materials for biological applications including: (a) targeted drug delivery and (b) biosensors.
- Issues impacting the Recruitment, Retention, and Persistence of African-American and women Students in STEM disciplines.
- Issues impacting the Professional Development, Advancement and Persistence of Women Faculty and Students in Engineering
- Curriculum Development in the areas of bioengineering and nanotechnology.

APPOINTMENTS AND POSITIONS

2010 – present	**Associate Provost & Associate Vice President for Academic Affairs,** Prairie View A&M University
2009 – 2010	**Interim Assistant Dean, College of Engineering,** Prairie View A&M University
2009 – *present*	**Associate Professor Chemical Engineering**, Prairie View A&M University

2008 – *present* **Texas A&M University System Graduate Faculty,** Texas A & M University System, Texas

2008 – *present* **Summer Programs Coordinator College of Engineering,** Prairie View A & M University

2006 – 2008 **Program Coordinator**, STEM-Prep Enrichment Camp, Prairie View A&M University

2003 – *2009* **Assistant Professor Chemical Engineering**, Prairie View A&M University,

PUBLICATIONS - sample

Journal Publications

1. Lewis, C., Bonner, F., Rice, D., Alfred, M., **Nave, F.,** & Frizell, S. (2010). *African American, academically gifted, millennial students in METS disciplines at Historically Black Colleges & Universitieis (HBCUs): Factors that impact successful degree completion.* (**Manuscript submitted for publication**)
2. Lewis, C., Bonner, F., Rice, D., Alfred, M., **Nave, F.,** & Frizell, S. (2010). *Reversing the tide of underachievement in science, technology, engineering and mathematics (STEM): Academically gifted students' African American students in historically Black colleges and universities.* (**Manuscript submitted for publication**)
3. Nafukho, F., Bonner, F., & **Nave, F.** (2009). Career Behavior Enhancement Strategies for Minority Students in Adult Education, Career and Technical Education, Human Resource Development and STEM Disciplines. *Definitive Readings in the History, Philosophy, Practice and Theories of Career and Technical Education.* Zhejiang University Press. (**book chapter under review)**
4. Bonner, F., Alfred, A., **Nave, F.**, Lewis, C., & Frizell, S. (2009). Historically Black Colleges and Universities (HBCUs) and Academically Gifted Black Students in Science, Technology, Engineering and Mathematics (STEM) disciplines at Historically Black Colleges and Universities. *Proceedings of the Excellence in Education 2008: Future Minds and Creativity Conference (pp. 749-761)* – **International Conference Ulm, Germany**
5. Frizell, S. & **Nave, F.** (2009). Increasing the Retention of Females of Color in Engineering and Technology Degree Programs through Professional Development Activities *Journal of Systemics, Cybernetics and Informatics, Vol. 7 (2009).*
6. Bonner, F., Alfred, A., **Nave, F.**, Lewis, C., & Frizell, S. (2009). Historically Black Colleges and Universities (HBCUs) and Academically Gifted Black Students in Science, Technology, Engineering and Mathematics (STEM): Discovering the Alchemy for Success. *Journal of Urban Education: Focus on Enrichment, 6(1), 122-136.*
7. **Nave, F.M**., Y.Z. Luo, and M. R. Coleman,. (2008). "Impact of Mobile Phase Parameters on Transport Properties of Metal Affinity Hydrogel Membranes, "Sep. Scie. And Technology, 43, Issue 16, 4075-4098.
8. **Nave, F**., Frizell. S, Cui, S., Obiomon, P., & Perkins, J. (2008). Charting the Course: The Impact and Implications of the Mentoring Experiences of Female Faculty in the College of Engineering at a HBCU. *Faculty Resource Network Online Journal: Advancing Women and Minorities in the Academy*.
9. Jennings, M., Bonner, F., Lewis, C., & **Nave, F.** (2007). The historically black college and university: A question of relevance for the African American millennial college student? *National Association of Student Affairs Professionals (NASAP) Journal, 10(1)*.

Book Chapter

1. Nafukho, F., Bonner, F., & **Nave, F.** (2009). Career Behavior Enhancement Strategies for Minority Students in Adult Education, Career and Technical Education, Human Resource Development and STEM Disciplines. *Definitive Readings in the History, Philosophy, Practice and Theories of Career and Technical Education.* Zhejiang University Press. (**under review)**

ACTIVE GRANT PROJECTS:

1. **Felecia M. Nave (PI)**, Karen Butler-Purry, Pamela Barber-Freeman, & Chandra Elbert (Co-PIs). National Science Foundation, *ADVANCE-PAID: Successfully Navigating Your Career: Advancing Women Faculty in Engineering & Technology at Historically Black Colleges and Universities (HBCUs),* ***$850,000,*** September 2009 through August 2012.
2. **Felecia M. Nave (PI),** Department of Education Title III (administered by Prairie View A&M University Office of Research & Development)**,** *Developing a Membrane and Thin Film Synthesis and Characterization Laboratory***, $136,000,** October 2009 – December 2010**.**
3. Z. Zhou (PI), **Felecia M. Nave** (Co-PI), Xia Peng, Huajun Fan, Richard Wilkins, Alice Pendleton (Co-PIs). Department of Education, MSEIP: Integrating Nanotechnology, **$424,000**, August 2009 – July 2012.
4. **Felecia M. Nave (PI)**, Fred Bonner, Sherri Frizell, Mary Alfred & Chance Lewis (Co-PIs). National Science Foundation, *Education Research Project: Empirical Investigation of the Success Factors Impacting African-American Students in Engineering and Technology at Historically Black Universities*, **$1,007,146**, September 2007 through August 2011.

GRANT FUNDING:

5. **Felecia M. Nave (PI)** & Sherri Frizell (Co-PI), Lockhead Martin, *PVAMU Society of Women Engineers: Leadership Series for Women of Color in the College of Engineering*, **$2000**, Spring 2008.
6. **Felecia M. Nave (PI)** & Sherri Frizell, Society of Women Engineers –National, *Sisters Speak: Professional Development Program for Women of Color in the College of Engineering at Prairie View A&M University*, **$4,150**, June 2006 through May 2007.
7. Irvin Osborne-Lee (PI), **Felecia M. Nave**, & Michael Gyamerah (Co-PI). National Science Foundation-Supplement, FAST Team, **$46,500**, May through August 2007 and May through August 2008.
8. Sherri Frizell (PI) & **Felecia M. Nave (Co-PI)**, Engineering Information Foundation, *The Identification of Factors Affecting the Retention and Attrition of African-American Female Students in Computer Science and Engineering*, **$24,032**, January through December 2007.
9. Irvin Osborne-Lee (PI), **Felecia M. Nave (Co-PI, primary author)**, & Michael Gyamerah (Co-PI), National Science Foundation, *Targeted Infusion Project: Development of Bioengineering Concentration in the Department of Chemical Engineering at Prairie View A&M University*, **$149, 718**, September 2006 through August 2008.

10. **Felecia M. Nave (PI)**, United Negro College Special Programs- Department of Defense, *Synthesis and Characterization of Nanostructured Hybrids for Separation of Bioactive Compounds*, **$22,529**, September 2006 through August 2007.
11. Michael Gyamerah (PI), **Felecia M. Nave**, Remi Oki, Gloria Regisford, Jorge Gabitto (Co-PIs), National Science Foundation, *Major Research Instrumentation Grant: Acquisition of research instrumentation for applied research and training in biotechnology and bioprocess engineering*, **$201,116**, September 2004 through January 2006.
12. **Felecia M. Nave (PI),** Prairie View A&M University Mini-Grant Research & Development, *Development of supported metal affinity hydrogel membranes for protein separation and purification*, **$3,053**, January through May 2004.

RESEARCH FACILITIES

- Approximately 850 square feet of Laboratory Space
- Shimadzu GC Mass Spectrophotometer
- Shimadzu UV-Vis
- Laurel Technologies Wet Station – Spin Coating
- Shimadzu FTIR
- Permegear Side-bi-Side Diffusion Cells
- Shimadzu Atomic Adsorption Spectrophotometer