1. **Name:** Patricia Ann Relue
2. **Education – degrees, discipline, institution, year:**
   Ph.D. in Chemical Engineering, University of Michigan, May 1990 - Feb. 1994
   M.S. in Engineering, University of Michigan, Aug. 1988 - May 1990
   B.S. in Chemical Engineering, Magna Cum Laude, with Honors, Univ. of Toledo, 1984 - 1988.
3. **Academic Experience -** 26 years
   Associate Dean of Research and Graduate Studies, College of Engineering, Feb. 2018 – present
   Associate Dean of Research, College of Engineering, July 2017 – Feb. 2018
   Undergraduate Program Director, Department of Bioengineering, July 2014 – July 2017; Aug 2000 – May 2001; May 1999 – Nov 1999
   Professor, Department of Bioengineering, April 2014 – present
   Graduate Program Director, Bioengineering, 2002-2010.
   Visiting Assoc. Professor, NJIT, Dept. of Elec. & Computer Engineering, 2001 (sabbatical leave).
   Associate Professor, Department of Bioengineering, 1999 – 2014.
   Assistant Professor, Dept of Bioengineering, 1996 – 1999.
   Assistant Professor, Dept of Chemical Engineering, University of Toledo, 1993 – 1999.
   Adjunct Assistant Professor, Dept. of Pathology, Medical College of Ohio, Mar 1995 – 2003
4. **Non-academic experience:**
   Isaac Corporation, Consultant, Defiance, Ohio, June 1995 - Jan. 1996.
   Ford Motor Company, Instructor, Creative Problem Solving, Avon Lake, Ohio, Aug. 1994.
5. **Certifications or professional registrations:** N/A
6.

UT Research Council, 2013- present.
UT Graduate Council, May 2005 – May 2014; Jan 2017 – present;
chair – May 2008-09; executive committee, May 2008 – May 2013;
curriculum committee - May 2006-08, Aug 2010 – Aug 2017;
curriculum committee chair - May 2006-08, Aug 2010 – May 2012, Oct 2015 – Aug 2017.
UT Outstanding Teacher Award selection committee, 2009, 2010, 2011.
UT Faculty Senate, 2007-2008; 2001 – present
Academic Affairs Committee 2007-08; 2013-2015;
Academic Programs Committee, 2013 – present;
Committee on Committees 2009, 2013; 2014
Faculty Affairs Committee, 2012-13;
Student Affairs Committee, 2012-13.
UT Radiation Safety Committee, 1998 – 2003; chair, 1998 – 2001
University Committee on Sabbaticals, 2010 - 2017; Chair 2011-12; 2013-14; 2014-15, 2015-16
Biomedical Engineering PhD Program Administrative Committee, 2007 – present;
Qualifying Examination (QE) Committee 2007-2017
QE Chair, 2008, 2012, 2013, 2014, 2015, 2016
College of Engineering Diversity Committee, 2016-2017
College of Engineering Dean's Advisory Council, 2000 – 2003
BIOE Department Personnel Committee, 1999 – present; Chair 2006-07; 2014-2017.
Phi Sigma Rho Faculty Advisor, 1999 – 2014

9. **Most important publications/patents/presentations:**

Refereed Journal Articles (since 2011)

D. Yuan, K. Rao, **P. Relue**, and S. Varanasi, "Fermentation of biomass sugars to ethanol using native industrial yeast strains," Bioresource Technology, 102 (2011) 3248-3253.

B. Li, S. Varanasi and **P. Relue**. "New strategies based on aldose-ketose transformation for separation and/or chemical conversion of C6 and C5 sugars from lignocellulosic biomass hydrolyzate". US Utility Patent filed, April 2010.

S. Varanasi, K. Rao, and **P. Relue**, "A Novel technique that enables efficient fermentation of xylose and hexose sugars from biomass hydrolysates using native non-GMO yeasts," US Utility Patent filed, January 2, 2009.

K. Rao; S. Chelikani; **P. Relue**; and. S. Varanasi, "A Novel technique for Optimizing the Simultaneous-Isomerization-and-Fermentation (SIF) Approach of Converting Xylose to Ethanol," Applied Biochemistry and Biotechnology, 146(1-3):101-117, 2008.

Y. Yuan and **P. Relue**, "Enzymatic degradation of human skin dermis revealed by fluorescence and reflectance spectroscopy," Optics Express, 16(13):9857-9868, June 20, 2008.

"Using Endogenous Polarization-Sensitive Fluorescence to Monitor Metabolic Changes in Living Cells," Y. Yuan, **P.A. Relue**, and B.D. Cameron,

S. Varanasi, K. Rao, **P. Relue,** and D. Yuan, "System for Simultaneous Isomerization and Fermentation of Sugars," divisional patent, US. Pat. No. **9,856,445 B2** issued January 2, 2018.

S. Alipour, B. Li, S. Varanasi, **P. Relue**, and S. Viamajala, "Methods for high yield production of furans from biomass sugars at mild operating conditions," US Pat No. **9,828,615**, issued November 28, 2017.

S. Alipour, B. Li, S. Varanasi, **P. Relue**, and S. Viamajala, "High yield production of furans from biomass sugars," divisional application, filed November 27, 2017.

S. Varanasi, K. Rao, **P. Relue,** and D. Yuan, "System for Simultaneous Isomerization and

xylulose," ACS 21st Annual Green Chemistry and Engineering Conference, Reston, VA, June 13-

P. Zhang, H. Shao, S. Varanasi, S. Viamajala and **P. Relue**, "Algae Fermentation to 2,3-Butanediol by Enterobacter cloacae", 36th Symposium of Biotechnology for Fuels and Chemicals, Poster, April 28-May 1, 2014, Clearwater Beach, FL.

P. Zhang, B. Li, S. Varanasi, and **P. Relue**, "New route of lignocellulosic biomass sugars fermentation to ethanol by native Saccharomyces cerevisiae", 36th Symposium of Biotechnology for Fuels and Chemicals, Poster, April 28-May 1, 2014, Clearwater Beach, FL.

10. Professional development activities in the last five years:

Attended and/or presented at professional conferences:

March 11-13, 2019 -------ASEE Engineering Research Council, West Arlington, VA

June 4-5, 2018 ----------Advancing University Engineering and Manufacturing Education Workshop, Washington, DC

March 12-14, 2018 -------ASEE Engineering Research Council, West Arlington, VA

Oct. 29 – Nov. 3, 2017 ---AIChE National Meeting, Minneapolis, MN

Oct. 17, 2017----------Ohio Defense Forum, Columbus, OH

Oct 16, 2017----------Chicago Conference for Associate Deans of Research at Small and Mid-Sized Engineering Schools, UI at Chicago, Chicago, IL

Mar 2-6, 2016----------VentureWell OPEN Conference, Portland, OR

July 22-23, 2015----------Midwest Engineering & Entrepreneurship Network, Purdue University, Lafayette, IN

Apr 28-May 1, 2014 ------36th Symposium of Biotechnology for Fuels and Chemicals, Clearwater Beach, FL

Apr 29 – May 2, 2013 ----35th Symposium on Biotechnology for Fuels & Chemicals, Portland, OR