

# OUTSTANDING ALUMNI AWARDS

AND STUDENT AWARDS OF EXCELLENCE

FEBRUARY 24, 2022 | DAUCH ALUMNI CENTER



School of Engineering Education

**IT IS MY GREAT PLEASURE** to present this year's recipient of the Engineering Education Outstanding Alumni Award, Umesh Patel, PhD, a graduate of the former Division of Interdisciplinary Engineering (now part of the School of Engineering Education).

The Engineering Education Outstanding Alumni Award is presented to alumni/ae who have achieved singular accomplishments in their fields, whose successful careers are role models for our students, and whose achievements set an example for all the School's alumni. In future years, the award will recognize alumni who have interdisciplinary engineering degrees, multidisciplinary engineering degrees, or engineering education doctoral degrees, reflecting all academic degrees the School offers.

Our 2021 honoree, Umesh Patel, is such an inspiration. He has distinguished himself as an innovative global leader in the medical device and regenerative medicine industry. In doing so, he has displayed the ingenuity and pursuit of excellence that epitomizes the Purdue engineer.



Dr. Donna Riley  
KAMYAR HAGHIGHI HEAD

## *PROGRAM AGENDA*

**6:30 PM**

**WELCOME**

**Shepherd Dick**

SENIOR, MDE THEATRE ENGINEERING

**STUDENT AWARDS**

**Mary Pilotte**

PROFESSOR OF ENGINEERING PRACTICE

CO-DIRECTOR, FUSION STUDIO FOR ENTERTAINMENT AND  
ENGINEERING

DIRECTOR, ENGINEERING EDUCATION UNDERGRADUATE DEGREE  
PROGRAMS - MULTIDISCIPLINARY ENGINEERING &  
INTERDISCIPLINARY ENGINEERING STUDIES

*Guests should eat their salad during this portion*

**7:00 PM**

**DINNER**

Mixed Farm Greens, Ruby Red Grapefruit, Candied Pecans,  
Pomegranate Seeds, Juniper Citrus Vinaigrette

Roasted chicken in a creamy lemon garlic sauce  
with spinach and sundried tomatoes.

Saffron Rice with toasted pinenuts, raisins,  
fresh parsley and butter.

Crispy Roasted Brussels Sprouts

Caramel Apple Cheesecake with pepita brittle  
and 5-spice syrup

**7:45 PM**

**OUTSTANDING ALUMNI AWARD**

**Donna Riley**

KAMYAR HAGHIGHI HEAD, SCHOOL OF ENGINEERING EDUCATION

**IMMEDIATELY FOLLOWING**

**PHOTOS OF HONOREES AND GUESTS**

*Meet at the Boilermaker Special in Atrium*

## UMESH PATEL, PHD

1986 INTERDISCIPLINARY ENGINEERING, GENETIC ENGINEERING  
2021 IDE OUTSTANDING ALUMNI AWARD

**AS PRESIDENT OF COOK BIOTECH INCORPORATED**, Umesh provides executive leadership and strategic direction to the organization that has global talent spanning the areas of research, development, marketing, regulatory and manufacturing in the field of regenerative medicine. Cook Biotech is a medical products company that commercializes products that are used to repair and heal tissue defects. These products have been used in treatments for more than 6 million patients worldwide.

Umesh joined Cook Biotech in 1995 as its second employee and was responsible for operations and the development of manufacturing processes to produce extracellular matrix (ECM) medical devices. Prior to becoming president of Cook Biotech, Umesh also served as vice president of product development and engineering.

Umesh holds more than 50 U.S. patents and is author of more than 14 peer-reviewed publications. He has served as a guest faculty lecturer on biomedical engineering topics and leadership at several universities. He serves on several boards and committees including Purdue's Weldon School of Engineering Industrial Advisory Board, Purdue Foundry Investment Fund, Indiana Center for Translational Sciences Institute (CTSI) External Advisory Committee, and Greater Lafayette Commerce. He is also a mentor for the MatchBOX Coworking Studio Spark program for minority-owned businesses.

As a student and post-doc, Umesh conducted research at Purdue University's Biomedical Engineering Center in the areas of cardiac output, impedance cardiography, hyperthermia, telemedicine, and ECM materials. Umesh earned a Doctorate degree in industrial engineering at Purdue University. His Master of Science degree in electrical engineering and Bachelor of Science degree in interdisciplinary engineering are also from Purdue University.



# STUDENT AWARDS OF EXCELLENCE



**SAYA C. UEKI**  
OUTSTANDING SOPHOMORE  
ACADEMIC ACHIEVEMENT

MDE Visual Design Engineering  
Product Lifecycle Management Minor  
Collaborative Leadership Certificate



**ASHLEY M. GROOMS**  
OUTSTANDING SENIOR  
ACADEMIC ACHIEVEMENT

MDE Acoustical Engineering  
Mathematics Minor  
2022 Donald A. Loren Scholarship Recipient



**RACHEL M. GANDER**  
OUTSTANDING JUNIOR  
ACADEMIC ACHIEVEMENT

MDE Engineering Management  
Sustainable Engineering and Organizational  
Leadership Minors  
MDESS Historian Officer 2021-22



**LOGAN K. NOSTER**  
OUTSTANDING SENIOR  
ACADEMIC ACHIEVEMENT

MDE Visual Design Engineering  
Product Lifecycle Management Minor  
2021 Outstanding Junior Achievement Recipient  
MDESS Professional Development Officer 2021-22



**MASON ZHAO**  
OUTSTANDING JUNIOR  
ACADEMIC ACHIEVEMENT

IDES Engineering Science Studies  
Computer Science (Double Major)  
Mathematics Minor



**CHLOE M. OTIS**  
OUTSTANDING SENIOR  
ACADEMIC ACHIEVEMENT

MDE Visual Design Engineering  
Product Lifecycle Management Minor  
2021 Outstanding Junior Achievement Recipient



## SHEPHERD D. DICK

OUTSTANDING SERVICE AWARD

MDE Theatre Engineering  
Theatre Design and Production and  
Philosophy Minors



## CLAUDIA R. JOHNSON

OUTSTANDING SERVICE AWARD

IDES Engineering Science Studies  
Medical Humanities Certificate  
MDESS President 2021-22

MDESS MEMORIES 2021-22  
*Game night, ice skating, homecoming and so much more*



# STUDENT AWARDS OF EXCELLENCE



**ASHLEY M. GROOMS**

DONALD A. LOREN SCHOLARSHIP

MDE Acoustical Engineering  
Mathematics Minor



**RYAN M. ZIHENNI**

DONALD A. LOREN SCHOLARSHIP

MDE Engineering Management  
Business Economics Minor



**ALIYAH AHMAD and  
ELISABETH CASETTI**

GOLDEN GLOBE WINNERS WITH DR. KIRSTEN DAVIS

The Golden Globe award is given to a superior Sophomore two person team in the IDE 30100 Professional Development course, for their work on a global design case. Reviewing the case of a fictitious firm, the teams must carefully consider the World Bank Environmental and Social Standard to analyze a wide range of design implications for an engineered product that needs to be built and sold into a remote global location. This case study aims to aid students in better understanding the complex standards and far reaching human, community, biodiversity, economic and environmental considerations that must motivate and may constrain their design aspirations in the global economy in which we live.



The **Donald A. Loren Scholarship** was established in December 2016 by Jeffery R. Loren and Wendy B. Loren in honor and in memory of their father, Donald A. Loren (BS 1948 Mechanical Engineering). The scholarship supports Multidisciplinary Engineering and Interdisciplinary Engineering Studies students who have demonstrated superior leadership.

# HONORING OUR ALUMNI

## Division of Interdisciplinary Engineering Studies

### OUTSTANDING INTERDISCIPLINARY ENGINEERING ALUMNI

1999-2003

- 1999 **Gregory M. Ayers\*** BSE IDE, PRE-MED/PRE-LAW, 1985  
2001 **Paul C. Cloyd** BSE IDE, ARCHITECTURAL ENGINEERING, 1976  
**Sue Hudson-Abreu\*** BSE IDE, BIOMEDICAL ENGINEERING, 1978  
2002 **Michael J. Cave\*** BSE IDE, ENGINEERING MANAGEMENT, 1982  
**David R. Schwind\*** BSE IDE, INVENTIVE DESIGN, 1974  
2003 **Geoffrey T. Crowley\*** BSE IDE, TRANSPORTATION ENGINEERING, 1974

*\*Also Distinguished Engineering Alumni*

## 2020 IDE OUTSTANDING ALUMNI



LEFT TO RIGHT | Donna Rliey, Arnold Young, Judy Cleland, Jennifer Kerr, Pedro Pires de Miranda, and Mary Pilotte

## School of Engineering Education

### ENGINEERING EDUCATION OUTSTANDING ALUMNI

2009-2021

- 2021 **Umesh Patel** BSE IDE, GENETIC ENGINEERING, 1986  
2020 **Judith Cleland** BS IDE, ENVIRONMENTAL ENGINEERING, 1974  
**Pedro Pires de Miranda** BSE IDE, PRODUCTION ENGINEERING, 1980  
**Jennifer Kerr** BSE IDE, BIOENGINEERING, 1993  
**Arnold Young** BSE ID, ENVIRONMENTAL ENGINEERING, 1973  
2019 *Celebrating 50 Years*  
2018 **Russell P. Troyer** BS IDE, ENGINEERING MANAGEMENT, 1972  
2017 **Brian C. Bosma** BSE IDE, PRE-PROFESSIONAL, CIVIL AND ENVIRONMENTAL ENGINEERING STUDIES, 1981  
**Thomas A. Gray** BSE IDE, ENGINEERING MANAGEMENT, 1974  
2016 **Holly Simmons** BSE IDE, ENGINEERING MANAGEMENT, 1998  
2015 **Henry A. "Hank" Frissora** BSE IDE, BIOMEDICAL ENGINEERING, 1979  
2014 **Rex Carter** BSE IDE, URBAN SYSTEMS AND TRANSPORTATION, 1974  
2013 **Stan Jones** BSE IDE, ENGINEERING MANAGEMENT, 1973  
**Eric J. Schmidt** BSE IDE, ENVIRONMENTAL ENGINEERING, 1976  
**Michael W. Wells** BSE IDE, PRE-LAW, 1975  
2012 **Leslie Bottorff** BSE IDE, BIOMEDICAL ENGINEERING, 1979  
**Rick Kosdrosky** BSE IDE, COMPUTER ENGINEERING, 1976  
2011 **Debra S. Echt** BSE IDE, BIOMEDICAL ENGINEERING, 1973  
**Raymond Michael Klein** BSE IDE, BIOMEDICAL ENGINEERING, 1977  
**Richard H. Le Sesne** BSE IDE, NUCLEAR ENGINEERING, 1975  
2010 **Howard J. Gobstein** BS IDE, TECHNOLOGY AND PUBLIC POLICY, 1974  
2009 **Harold M. Aberman** BSE IDE, BIOENGINEERING, 1985  
**Brian E. Farley** BSE IDE, BIOMEDICAL ENGINEERING, 1979  
**Gary C. Horlacher** BSE IDE, SYSTEMS ENGINEERING, 1989  
**Robert F. Sharpe, Jr.** BSE IDE, PRE-LAW, 1974  
**Mary Spiess Smith** BSE IDE, ARCHITECTURAL ENGINEERING, 1974



**PURDUE**  
**UNIVERSITY®**

School of Engineering Education

Neil Armstrong Hall of Engineering  
701 West Stadium Avenue, Suite 1300  
West Lafayette, Indiana 47907  
[purdue.edu/ene](http://purdue.edu/ene)