

ENGINEERING EDUCATION OUTSTANDING ALUMNI AWARDS

February 22, 2012

EAST-WEST FACULTY LOUNGE ■ PURDUE MEMORIAL UNION
Purdue University



**PURDUE'S SCHOOL *of* ENGINEERING
EDUCATION**

includes the First-Year Engineering Program; the Interdisciplinary Engineering Program, which includes Interdisciplinary Engineering Studies and Multidisciplinary Engineering; the world's first PhD program in engineering education; and INSPIRE, the Institute for P-12 Engineering Research and Learning.

Our Vision ■ A more inclusive, socially connected, and scholarly engineering education

Our Mission ■ Transforming engineering education based on scholarship and research



I'm delighted to present this year's recipients of the Engineering Education Outstanding Alumni Award: Leslie Bottorff and Rick Kosdrosky, both graduates of the former Division of Interdisciplinary Engineering (now part of the School of Engineering Education).

A continuation of the Outstanding Interdisciplinary Engineering Alumni Award bestowed before the School's founding in 2004, the Engineering Education Outstanding Alumni Award is presented to alumni 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 offered by the School.

I invite you to discover at tonight's award ceremony how our honorees have used the springboard of Purdue's Interdisciplinary Engineering program to make a difference in their chosen fields. They are shining examples of just what our students can accomplish when they combine an interdisciplinary outlook with a drive to improve and contribute to the world around them.

A handwritten signature in black ink, reading "D Radcliffe". The signature is fluid and cursive, with a long horizontal stroke at the end.

David Radcliffe
Kamyar Haghighi Head, School of Engineering Education
Epistemology Professor of Engineering Education



Leslie Bottorff

+ BSE IDE, BIOMEDICAL ENGINEERING, 1979

General Partner ■ ONSET Ventures

+ **GROWING UP IN CLARKSVILLE, INDIANA**, Leslie Bottorff loved the TV shows *The Six Million Dollar Man* and *The Bionic Woman*—and spent a good deal of time tending to the (imagined) broken legs of her dolls. Her early interest in the technology of medicine, combined with a strong performance in high school on the JETS (Junior Engineering and Technical Society) test, led her to pursue biomedical engineering through Purdue's Interdisciplinary Engineering program.

At Purdue, Bottorff had the opportunity to conduct research with Drs. Leslie Geddes, Joe Bourland, Willis Tacker, and Charles Babbs—a group of researchers and educators who involved undergraduate students in their work—and she received stellar mentoring from Professor Dick Grace, head of Interdisciplinary Engineering at that time, who helped her fashion a custom course of study and explore a range of career choices. Outside the classroom, she was active in Grand Prix, Alpha Omicron Pi sorority, and Old Masters.

On earning her bachelor's degree from Purdue in 1979, Bottorff joined GE Medical Systems' sales force.

A desire to work in marketing prompted her to earn an MBA (Harvard Business School, 1985). She spent 19 years in sales and marketing roles in both venture-backed start-up companies and large companies, including serving as Vice President of Sales and Marketing for Medtronic's CardioRhythm division.

In 1998, Bottorff joined ONSET Ventures, which invests in early-stage medical technology companies. She has worked closely with entrepreneurs at the seed stage to formulate and validate their companies' business plans, including serving as interim VP of Marketing and Business Development for Embolic Protection. She has served in board or advisory roles for portfolio companies including Spinal Concepts, VisionCare Ophthalmic Technologies, Neuronetics, Sadra Medical, Flexuspine and Relevant.

Bottorff serves on advisory boards or as program faculty at several universities, including Stanford University and Purdue University, and is a member of the board of directors of Purdue's Alfred Mann Institute and the alumni advisory board for Purdue's Weldon School of Biomedical Engineering. ■



Rick Kosdrosky

+ BSE IDE, COMPUTER ENGINEERING, 1976

Program Manager, Special Projects, F-35 Joint Strike Fighter Program ■ Lockheed Martin Aeronautics Company

+ **RICK KOSDROSKY ENROLLED AT PURDUE** on an Air Force ROTC scholarship, combining interests in aviation and electronics that he'd developed during his childhood in Cleveland, Ohio. He had become both a pilot and a ham radio operator during his high school years, and expected to serve as a pilot in the U.S. Air Force after completing his degree in electrical engineering.

Drawn to learn more about software (the School of Electrical Engineering's computer-related curriculum was very hardware-oriented at that time), Kosdrosky met with Professor Dick Grace, then head of Interdisciplinary Engineering, and discovered that he could tailor-make a major in IDE that better suited his interests. He made the switch from electrical engineering, becoming the first student to pursue a computer engineering degree through IDE.

Outside the classroom, Kosdrosky was an oarsman on the Purdue Crew and became president of the Purdue Sports Car Club. (To this day, he says, he's completely consumed with racing cars. He is a multi-time amateur road-racing champion.)

As the Vietnam War wound down, the need for pilots diminished, and on graduating Kosdrosky began a career in the defense industry, specifically developing avionics for military airplanes. After working on the F-18 Hornet fighter aircraft at McDonnell Douglas, he joined General Dynamics as a software design engineer and remained with the organization after it was acquired by Lockheed Martin. In his current role as Program Manager for Special Projects on the F-35 Joint Strike Fighter Program, he directs the incorporation of advanced technologies on the United States' next-generation stealth fighter aircraft for the Navy, Air Force, Marines, and allies.

Kosdrosky serves on the board of directors for Purdue's Engineering Alumni Association and on the industrial advisory council for the School of Engineering Education. As Lockheed Martin's corporate relations liaison to Purdue, he is a familiar face on campus in recruiting and relationship development activities. ■

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

ENGINEERING EDUCATION OUTSTANDING ALUMNI

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

2010

Howard J. Gobstein

+ BS IDE, TECHNOLOGY AND PUBLIC POLICY, 1974

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



