9TH ANNUAL CO-OP HALL OF FAME

September 18, 2015
11:45 a.m. - 2:00 p.m.
Purdue Memorial Union
North Ballroom

Hosted by the Office of Professional Practice
OPENING REMARKS
Eckhard A. Groll
Reilly Professor of Mechanical Engineering
Director, Office of Professional Practice

STUDENT WELCOME
Pushkaran Palani
President, Professional Practice Ambassadors

PURDUE WELCOME
Suresh Garimella
Executive Vice President for Research & Partnerships
Goodson Distinguished Professor of Mechanical Engineering

INDUCTION CEREMONY
Mike Piggott
Director of Community Relations

CLOSING REMARKS
Pushkaran Palani
President, Professional Practice Ambassadors

Letter from President Daniels _________________________ 2
Message from the Director __________________________ 3
Inductee Biographies
Mary Lee Gambone ___________________________ 4
Jim Karl ________________________________ 5
Cande Krautkramer ___________________________ 6
Steven Perry ___________________________ 7
Janice Voss ________________________________ 8
Co-Op Hall of Fame Members__________________________ 9
Co-Op History_________________________________________ 10-11
OPP IMPACT Fund ________________________________ 12
Office of Professional Practice ________________________ 13
Greetings! Thank you for your support of Purdue’s Office of Professional Practice. Our programs have a storied past that transcends generations of faculty, staff, and especially, students. What started as a pilot program in the School of Mechanical Engineering, founded by Professor Fredrick B. Morse in 1954 with eight students and seven industry partners, has evolved into the Office of Professional Practice: a cross-campus entity that serves more than 1,200 students and collaborates with more than 500 industry partners. Without those partnerships, we could not offer the most rigorous and rewarding programs of their kind in the country.

While Professor Morse established our foundation in Cooperative Education programs long ago, the Office of Professional Practice is committed to providing increasingly relevant programs that answer the unique challenges of the 21st century. As such, it is with great pride that I report increasing interest in our 3-session Co-Op and award-winning GEARE programs. GEARE (Global Engineering Alliance for Research and Education), integrates language training, domestic and international work sessions, study abroad, and a capstone global design team project into a 4-year curriculum.

Excitingly, 2014-2015 saw continued growth in interest from non-engineering disciplines, with a 32% increase in Co-Op applications from Purdue Polytechnic Institute students. We aim to facilitate Cooperative education in all corners of campus. Co-Op programs help students integrate theory and practice, confirm career choices, and become better graduates. This is affirmed by the Gallup-Purdue Index, which found that 71% of recent graduates who participated in academically relevant work experience were employed upon graduation. The study also found that those same graduates were twice as likely to be engaged in the workplace. Our programs directly influence those outcomes! Furthermore, Professional Practice Programs align with Purdue Moves, a set of initiatives aiming to broaden global impact and enhance learning opportunities— that underscore the importance of international experience and experiential learning. Co-Op and GEARE address those goals through their focus on holistic education.

It is an exciting time to be a stakeholder in the Office of Professional Practice. Today, as we honor those who availed themselves of Cooperative education, we look towards another year of exciting partnership and discovery.

Eckhard A. Groll
Reilly Professor of Mechanical Engineering
Director of the Office of Professional Practice
EDUCATION
• B.S. ’82, Metallurgical Engineering, Purdue University
• M.S. ’84, Materials Engineering, MIT
• Ph.D. ’95, Materials Science, University of Virginia

PROFESSIONAL CAREER
Dr. Mary Lee Gambone has garnered over 30 years of distinguished experience in the aerospace materials field. Since joining Rolls-Royce in 1998, she has had several roles, including Chief of Research and Technology Strategy and Manager of Critical Part Lifting. Her early career as a materials engineer was with Allison Gas Turbine Division of General Motors and she enjoyed several years with the US Air Force as team lead for metal matrix composites research in the Air Force Research Laboratory, Materials Directorate.

In addition to her professional career, Mary Lee also serves on the Alumni Advisory Committee for Purdue’s School of Materials Engineering, as well as the SAE Aerospace Committee and the AFRL Metals Affordability Initiative Executive Steering Committee.

Mary Lee is currently the head of the Rolls-Royce Materials Engineering organization in Indianapolis. She resides in Zionsville, Indiana, with her husband Doug Brooks, who is also a materials engineer and a manager for Nucor Steel. They have two daughters: Evie, who is studying architecture at Syracuse University, and Peggy, who is in the 8th grade.

CO-OP ALUMNA
While at Purdue, Mary Lee was a co-op for Armco Steel (now AK Steel) in Middletown, Ohio. Working in the Research Center, she evaluated a broad diversity of products ranging from cast iron grinding balls to composite casket liners. “What I remember most vividly is the helpful encouragement and instruction I received from the technicians and engineers I worked with. I learned so much about working in a laboratory and how to get along with people in a team from my co-op experience; I know I would not have been as good an engineer without it!”

EDUCATION
• B.S. ’81, Materials Engineering, Purdue University
• M.S. ’85, Material Science, University of Vermont

PROFESSIONAL CAREER
Immediately following graduation from Purdue, Jim joined IBM at their Essex Junction, Vermont facility and continued to work out of that location until his retirement in June of 2011. During his 30-year career with IBM, Jim held numerous engineering and management positions throughout the Microelectronics Division’s development and manufacturing organizations. Jim dedicated much of his career to working with the US Aerospace, Defense, and Intelligence communities related to secure development and manufacturing of semiconductor components.

Throughout his professional career, Jim maintained an active relationship with Purdue. For many years Jim was IBM Microelectronics’ technical recruiting lead at Purdue. He and a fellow alumnus started the Purdue Alumni Club of Vermont. Jim was named Purdue’s Outstanding Materials Science Engineering in 1998 and has served on the Materials Science Engineering Advisory Board.

Currently, Jim serves as interim president and CEO of the Purdue Alumni Association, where he oversees all engagement, communication, membership, marketing & sales, and data management activities for the association. Jim and his wife, Barb, reside in West Lafayette. Their daughter, Christina, is a proud Purdue Chemical Engineering grad and ‘second-generation’ co-op participant!

CO-OP ALUMNUS
While at Purdue, Jim completed a 5-term co-op with General Electric’s Lighting Division and credits that experience with teaching the value of basic problem solving and communication skills. “I learned that spending a few hours a day talking to the folks actually fighting the battle every day on the manufacturing line was much more valuable than just sitting in room theorizing solutions with the engineering team. Respecting and understanding the value of everyone’s knowledge base was an important lesson to learn.”
CANDEE KRAUTKRAMER (ChE)

EDUCATION
• B.S. ’90, Chemical Engineering, Purdue University
• M.S. ’00, Engineering Management, Milwaukee School of Engineering

PROFESSIONAL CAREER
Candee Krautkramer began her career with Kimberly-Clark after earning her bachelor’s degree in 1990 and has been with the company ever since. Candee has worked across all development phases, beginning her career in Life Cycle Maximization and moving through Development and Commercialization, Front End Innovation into early explore research within CR&E. Candee’s product improvements have helped consumers of all ages around the world stay clean, fresh, and dry.

Throughout her career, Candee has been active in college recruiting at Kimberly-Clark. She has had a role in hiring many exceptional students from Purdue and has served on advisory boards in Chemical Engineering and Engineering Education. In the last several years, Candee and her team have more than doubled the number of Purdue engineering co-op students at Kimberly-Clark.

Candee is now a Research Technical Leader in Corporate Research & Engineering on the Materials Science Structures team for Kimberly-Clark. She resides in Neenah, Wisconsin with her husband, Pete, and two sons, Owen and Jack.

CO-OP ALUMNA
While at Purdue, Candee was a co-op with Kimberly-Clark, completing six work sessions in Infant Care in Neenah, WI. One memorable session was supporting the startup of a new machine that made elastomeric waistband material and the commercialization into HUGGIES® Diapers. This material enabled the initial launch of PULL UP® Training pants and DEPEND® Underwear. Experiencing that machine start up and the results in market ignited a passion in Candee for delivering improved products that help to change lives.

STEVEN PERRY (ChE)

EDUCATION
• B.S., ’84, Chemical Engineering, Purdue University
• M.S., ’87, Chemical Engineering, MIT
• MBA, ’03, Kellogg School of Management, Northwestern University

PROFESSIONAL CAREER
Upon completion of his M.S. degree, Steve began work for Ortho Biotech, a recently-established division of Johnson and Johnson. As a young engineer trained in biotech unit operations, Steve played a key role in the design, startup, and operation of the first biotechnology plant in Puerto Rico. Subsequent assignments included overseeing a year-long production campaign in the United Kingdom and managing a major facility expansion.

Steve went on to become Senior Director of Commercial Manufacturing for ImClone Systems (now part of Eli Lilly) during FDA approval and launch of a major cancer therapy. Later, he directed startup operations at a biopharmaceutical contract manufacturer and oversaw worldwide operations at a diagnostics company.

In 2010, Steve joined Cook Pharmica, the pharmaceutical contract manufacturing subsidiary of Cook Medical, and currently serves as Vice President of Drug Substance Technical Operations. A native of West Lafayette, Steve is delighted at the opportunity to return to Indiana and to help drive growth of the life science industry in the state. In 2014, Steve completed a 3-year term on the Purdue Technical Assistance Program Advisory Council.

CO-OP ALUMNUS
At Purdue, Steve was a co-op for DuPont. “The co-op experience showed me how engineering problems are tackled in industry,” he said. “I drew on that knowledge during my first assignment for Johnson and Johnson, and my success in that job really set the stage for my entire career.” Steve is a strong believer in co-op education and has established a successful Purdue co-op program at Cook Pharmica.
EDUCATION
• B.S., '75, Aeronautical and Astronautical Engineering, Purdue University
• M.S., '77, Electrical Engineering and Computer Science, MIT
• Ph.D., '87, Aeronautics and Astronautics, MIT

PROFESSIONAL CAREER
Dr. Janice Voss was an American Engineer and a NASA astronaut. Before becoming an astronaut, Janice worked at the Orbital Sciences Corporation, supporting mission integration and flight operations for the Transfer Orbit Stage that launched, among other things, the Advanced Communications Technology Satellite from a space shuttle in 1993.

Janice was selected as an astronaut candidate in 1990 and flew as a mission specialist on missions STS-57 (1993), STS-63 (1995), STS-83 (1995), STS-94 (1997), and STS-99 (2000). During her career as an astronaut, she participated in the first shuttle rendezvous with the Mir space station, helped produce what was at the time the most accurate digital topographical map of the Earth, and was the recipient of four NASA Space Flight Medals. From October 2004 to November 2007, she was Science Director for NASA's Kepler Space Observatory, an Earth-orbiting satellite designed to find Earth-like extrasolar planets in nearby solar systems.

Janice passed away in 2012 at age 55 from breast cancer. In July 2014, Orbital Sciences launched the SS Janice Voss, which traveled to the International Space Station to resupply the food, equipment, and experiments aboard the station, named in recognition of her and her work with Orbital Sciences and NASA. Janice is survived by her parents, James and Louise Hinds Voss, and three sisters: Linda, Karen, and Victoria.

CO-OP ALUMNA
Janice was a co-op at NASA Johnson Space Center while earning her bachelor’s degree at Purdue. She worked on computer simulations in the engineering and development directorate in the years leading up to the start of the shuttle era.

2014
Bob Davis
Rebecca Kopp-Levine
Lt. Gov. Sue Ellspermann
Janet Goings
Cindy Farrer

2013
William Nelson
Winthrop A. Gustafson
Hannis Thompson
John Grutzner
Keith Hawks
Rick Bried

2012
Lawrence Cargnino
(posthumous)
Robert Squires
(posthumous)
John Storm
Kathy Kilmer

2011
James Mason
James Barany
(posthumous)
Renee Fieldhouse
Ron Haddock
Not pictured:
Norman Gilsdorf

2010
Frederick Morse
(posthumous)
Neal Houze
Leonard Wood
(posthumous)
Thomas Malott
1928: Earliest recorded attempt to establish a formal Cooperative Engineering Education Program. The proposal did not meet with much enthusiasm on the part of the department head at the Board of Trustees meeting. Also, the “catastrophic economic conditions” made the program impossible.

1953: Registrar recommended that the possibility of initiating a program be explored. A committee chaired by Professor G.W. Bergren was created to study the matter.

1954: The first formal Co-Op Program started with the School of Mechanical Engineering with eight students and seven employers.

1955: Civil Engineering joined the Co-Op Program.

1957: Electrical Engineering joined the Co-Op Program.

1959: By April, the program had grown to 50 employers with 161 students. Industrial Engineering joined the Co-Op Program during the summer semester.

1960: Chemical Engineering joined the Co-Op Program.

1964: Aeronautical Engineering joined the Co-Op Program.

1967: Agricultural Engineering joined the Co-Op Program.

1968: Materials Engineering joined the Co-Op Program.

1974: Nuclear Engineering, School of Agriculture, School of Management, and School of Science joined the Co-Op Program.

1975: Interdisciplinary Engineering and School of Technology joined the Co-Op Program.

1977: School of Consumer & Family Sciences joined the Co-Op Program.

1979 Co-Op Coordinators

Front Row (from left): Professors Schalliol, Kay, Houze, LaMothe, Eaton
Back Row (from left): Dean Scott, Dean Bergren, Professors Sandgren, Koh, Cargnino, Liljedahl

1979: Nearly 1,000 students and 400 employers were participating in the Co-Op Program by the 25th anniversary.

1991: School of Education and School of Liberal Arts joined the Co-Op Program.

2013: Colleges of Pharmacy and Nursing joined the Co-Op Program.

2014: Psychological Sciences joined the Co-Op Program.

Now: The Office of Professional Practice serves eight colleges and 48 different disciplines. There are more than 1,000 students and 600 employers participating in the Co-Op Program. OPP offers 3-Session Co-Op, 5-Session Co-Op, Master’s Co-Op, a global program (GEARE), internship programs, and research experiences.
Purdue’s Professional Practice Programs have been growing since 1954 and enrollment over the last five years is up 75%. This great progress is due to the increased effort in developing and maintaining programs that are beneficial to our students.

While students are away from campus on their work assignments, they must also be registered for a course at Purdue, for which they are charged a fee. This Professional Practice Registration Fee covers part of the added cost to the university for administering this special program and maintains the student’s full-time status, a necessity for anyone with financial obligations. Purdue’s Board of Trustees recently approved a proposal to lower this fee from $914 to $400 per student per work session.

Our goal is to grow the participation in Professional Practice Programs from just over 1,000 students to 1,500 students per academic year during the next five years. Even though the registration fee has been lowered, it remains a barrier to some students. The Office of Professional Practice and its students are starting an endowment fundraising campaign called the OPP Impact Fund to ultimately eliminate the Professional Practice Registration Fee and to run the office independent of university resources.

The OPP Impact Fund will enable us to greatly increase the number of students we serve and also generate the necessary funds to develop courses, grow the Co-Op Program in other Colleges and Schools, cover the annual expenses of OPP, and provide critical resources needed for the creation of innovative student development programs and enhanced services.

**For additional information or to make a donation to the OPP Impact Fund, please contact:**

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**Program Secretary:** Rachel Haas  
**Program Assistant:** Aimee Griggs

**ABOUT THE HALL OF FAME**

The Cooperative Education Hall of Fame was created in 2010 to recognize individuals who have had a significant influence on our Professional Practice Programs, as well as alumni of our programs that have demonstrated unparalleled excellence in their field to serve as shining ambassadors of the opportunities that experiential education grants. Individuals are nominated and approved by the Professional Practice Advisory Council, a group of Purdue faculty that aid in the oversight and implementation of our Professional Practice Programs across campus.

**SPECIAL THANKS TO...**

The Office of Professional Practice would like to thank Ron Haddock, Tom Malott, and Bill Nelson for their invaluable and meaningful support of our office and our programs. Your generosity will have a lasting impact on students for years to come.
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