



Edwin D. Hirleman Jr.

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Edwin D. (Dan) Hirleman Jr. is a Professor of Mechanical Engineering and serves as Purdue's Executive Director for International Advancement. For the 2022-23 academic year he was posted to the Space Information Sharing and Analysis Center ([S-ISAC](#)) and UCCS in Colorado Springs working on space systems cybersecurity in the ecosystem there that includes the US Space Force, US Space Command, NORAD, etc. From 2014 to 2020 Hirleman was Purdue's inaugural Chief Corporate and Global Partnerships Officer focusing on strategic partnerships. He also served as Purdue's Senior Intellectual Property Officer and its Senior International Officer. Ongoing strategic partnership successes during his tenure include Rolls-Royce in [research](#) and [cybersecurity](#), [Eli Lilly and Co.](#), the [Purdue-Ford Alliance](#), [Infosys](#), and [Cummins](#), and Purdue repeatedly set annual records including: total private-sector funding (\$145.7M); awards from for-profits (\$74.3M); and study abroad (2,409 students).

Hirleman studied mechanical engineering at Purdue University and received a BSME, graduating in 3 years with a 4.0 GPA, followed by a MSME and a Ph.D. He received Howard Hughes Doctoral and NSF Graduate Fellowships, did six industry internships, and was a visiting researcher at the Technical University of Denmark. He joined Arizona State University as faculty where he received teaching and research awards and held multiple administrative positions culminating in associate dean for research.

He then served as William E. and Florence E. Perry Head of Purdue ME, leading that School as it grew to over 500 grad / 1300 undergrad students, developed BS/MS, BS/MBA and direct-to-Ph.D. programs, tripled sponsored research, and completed a \$142M Capital Campaign providing for scholarships/fellowships, endowed professorships, and two new ME buildings. He has received the Hon. George Brown Award for Int'l Scientific Cooperation and the ASME Charles Russ Richards Memorial Award. He is an ASME Fellow and chaired the Advisory Board of Engineers for a Sustainable World. He also served as the dean of Engineering at the University of California, Merced.

Hirleman has about 200 publications, 6 U.S. patents, and presented 80 invited lectures in 14 countries. Recent research involves laser-based sensors for identification of cells in bio-hazards, food safety, high-throughput screening, and stem cell diagnostics. His contributions in flow diagnostics, semiconductor manufacturing, and global engineering and cyber education are also recognized. Ten technologies developed in his lab have been licensed and/or are in commercial products. Support involved more than 70 grants and contracts from 31 companies and 11 government agencies (totaling over \$30M).

He is married to Laura Kennedy Hirleman, M.C., who counsels in private practice. They have 3 children and 3 grandchildren. Hirleman was founding President of Kairos Ministries, which provides worship services, counseling, and tutoring in Phoenix area jails. Racquetball serves as stress relief, and he has won state age-division championships (AZ, CA, and IN) and medaled eight times in his division at National and World Championships.