



Edwin D. Hirleman Jr.

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Edwin D. (Dan) Hirleman Jr. is a Professor of Mechanical Engineering and serves as Director for the Data Mine of the Rockies, the first regional hub modeled after The Data Mine at Purdue. For the 2022-23 academic year he was posted to the Space Information Sharing and Analysis Center (S-ISAC) and University of Colorado, Colorado Springs engaging on workforce and R&T for security of space systems in the regional ecosystem. Previously he served as Purdue's inaugural Chief Corporate and Global Partnerships Officer, Executive Director for International Advancement, Senior Intellectual Property Officer, and Senior International Officer.

Hirleman studied mechanical engineering at Purdue University and received a BSME, graduating in 3 years with a 4.0 GPA, followed by MSME and 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 then joined Arizona State University 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's School of ME as it rapidly grew enrollment, developed BS/MS, BS/MBA, and direct-to-Ph.D. programs, tripled sponsored research, and completed a \$142M Capital Campaign providing for scholarships, fellowships, thirteen endowed professorships, and two new ME buildings. He received the Hon. George Brown Award for International Scientific Cooperation and the ASME Charles Russ Richards Memorial Award (given annually for outstanding achievement in mechanical engineering). He is an ASME Fellow and chaired the Advisory Board of Engineers for a Sustainable World. He also served as the 2nd dean of the School of Engineering at the University of California, Merced, and during his tenure he oversaw design and private fundraising for a new building to house the School as well as the inaugural accreditation for the School's degree programs.

Hirleman has over two hundred publications, seven U.S. patents, and presented eighty invited lectures in fourteen countries. Recent research involves cyberphysical security of space systems and light scattering for label-free strain-level bacteria ID. His contributions in flow diagnostics, semiconductor manufacturing, global engineering, and cyber education are recognized. Ten technologies developed in his lab are licensed and/or are in commercial products. Support involved more than seventy grants and contracts from thirty-one companies and thirteen government agencies (totaling over \$30M).

He is married to Laura Kennedy Hirleman, M.C., who counsels in private practice. They have three children and three 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 International Championships.