

Collaborative Innovation: selecting and executing academia/Industry/government partnership strategies for efficiency and effectiveness



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for the Xerox Corporation

Thursday, March 10, 2022
10:30 AM • WANG 1004

Zoom info: <https://purdue-edu.zoom.us/j/97885659783> ~ Meeting ID: 978 8565 9783

Abstract

In this presentation, Dr. Santokh Badesha will share insights regarding robust innovation ecosystems and the characteristics required for success in these environments. He will discuss Open Innovation ecosystems, including the value proposition and examples of critical subsystems developed for integration into printing systems based on powder and inks marking technologies. The bulk of the presentation will include examples from his experience of connecting Industry/University/Government research for innovation. Collaborative examples of interactions will include NY State science (NYSTAR) and energy (NYSERDA) agencies, the National Academy of Engineering (NAE), the National Academy of Science (NAS), the National Academy of Inventors (NAI), the National Science Foundation (NSF), and the Government-University-Industry Research Roundtable (GUIRR). He will also highlight his interactions as technical and executive liaison with academic institutions of higher education and lessons learned including lesson related to intellectual property.

Bio

Dr. Santokh Badesha is a corporate fellow and manager of open innovation at Xerox, where he currently is the record holder for U.S patents. He has generated patented technology that is used in nearly all major Xerox printing system families. Badesha is internationally recognized for inventing technologies that have ushered in the era of digital printing on demand. He holds 260 issued U.S. Patents and an additional 55 at different stages of the patenting process. Dr. Badesha was elected Member of the National Academy of Engineering (NAE) in 2021 “for developing materials enabling the broad use of laser printing and the creation of color laser printing.” That same year he was elected to the National Academy of Inventors (NAI) and named Honorary Member of the Society for Imaging Science and Technology “for long and outstanding contributions to the science and the development of digital printing systems.”

Badesha joined Xerox in 1980 as a senior research scientist in the Xerox Research Center Webster. He conducts independent research programs to design novel materials for image generation devices, provides direction and strategies for materials research, and leads cross-functional development efforts in high performance materials for component design for marking subsystems. Prior to joining Xerox Badesha was a Teaching Fellow at Rensselaer Polytechnic Institute, Troy NY. Badesha holds Bachelor and Master of Science degrees with honors in chemistry from Punjab University, India. He received his first Ph.D. from the Punjab Agricultural University and then received a second Ph.D. from the University of East Anglia, Norwich, U.K. He received an Honorary Doctor of Science (DSc) from Clarkson University in 2007 for his contributions to science, technology, and intellectual property, building academic and industrial partnerships, and his help in shaping research programs.

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