

Curriculum Vita (CV): Thomas H. Byers
Department of Management Science and Engineering
Stanford University, Stanford, CA 94305-4121
Phone: 650-725-8271 | Email: tbyers@stanford.edu

Stanford University (1994 – present)

2002-present. Professor (Teaching) *Department of Management Science and Engineering (MS&E)*.

Full professorship rank and Academic Council membership and privileges. Endowed Chair of Entrepreneurship in the School of Engineering. Bass University Fellow in Undergraduate Education. Courses: Technology Entrepreneurship; Leadership of Technology Ventures; Entrepreneurial Management and Finance; Entrepreneurial Thought Leader Seminar Series ; Hacking for Defense: Solving National Security with Lean Startups Methods; Principled Entrepreneurial Decisions.

1995-present. Founder and Faculty Co-Director. *Stanford Technology Ventures Program (STVP)*.

STVP is the innovation and entrepreneurship education center at Stanford's School of Engineering, including its *Mayfield Fellows Program* (an annual work/study program for 12 outstanding Stanford undergraduate students), its *Roundtable for Entrepreneurship Education* (50 international summits of faculty, industry, and policy makers), its *eCorner* website (5,000 video clips and podcasts of thought leaders), and its *PEAK* ethics and entrepreneurship education project.

2018 and 2021. Keohane Distinguished Visiting Professor. *Duke University and UNC-Chapel Hill*.

2017-present. Principal Investigator. Office of Naval Research's Hacking for Defense (H4D) sponsored project.

2011-2017. Lead Principal Investigator and Director. NSF's National Center for Engineering Pathways to Innovation (Epicenter) sponsored project.

2005-2010. Visiting Professor. *London Business School and University College London* in England (2005); *Higher Colleges of Technology in the United Arab Emirates* (2006-2010).

1998-2002. Associate Professor (Teaching). *Department of Management Science and Engineering*.

1995-present. Academic Director. Stanford global professional educational programs: Stanford Executive Institute; UAE National Entrepreneurship Curriculum; Malaysia Ministry; and Saudi Arabia's KAIST.

1994-1998. Adjunct Professor (1995-1998); Lecturer (1994-1995). *Department of Management Science and Engineering*.

Education

1980-1982. Ph.D., Business Administration (concentration in Management Science), Haas School of Business, *University of California, Berkeley*. Regents Scholar. Dissertation: "Optimal and Near-Optimal Policies for Discrete Deterministic Dynamic Programming Models."

1978-1980. M.B.A., Haas School of Business, *University of California, Berkeley*.

1971-1975. B.S., Industrial Engineering and Operations Research, *University of California, Berkeley*. Graduation with Highest Honors, Phi Beta Kappa, and Tau Beta Pi.

Other Teaching Experience

1994-1995. University of California, Berkeley. Lecturer at Haas School of Business. Courses: Entrepreneurship and High-Technology Marketing Management.

1979-1982. University of California, Berkeley. Lecturer in Industrial Engineering and Operations Research (Course: Engineering Economics); Lecturer, Research Assistant, and Teaching Assistant in Haas School of Business (Courses: Information Systems, Computing, and Management Science).

Selected Major Programs and Funding Sources

2020-present. Principled Entrepreneurial Action and Knowledge (PEAK). Founding Director. Nascent project focused on applied ethics, entrepreneurship education, and responsible technology and innovation. We imagine a future where every higher education student around the globe of learning innovation and entrepreneurship is equipped to brave ethical complexity.

2017-present. Office of Naval Research (ONR)'s Hacking for Defense Project. Principal Investigator. Supported by ONR, Hacking for Defense (H4D) is a university-sponsored class that allows students to develop a deep understanding of the problems and needs of government sponsors in the US Department of Defense and the Intelligence Community. In a short time, students rapidly iterate prototypes and produce solutions to sponsors' needs. For universities, it keeps their programs attached to real-world problems and provides students with an experiential opportunity to become more effective in their chosen field, with a body of work to back it up. For government agencies, it allows problem sponsors to increase the speed at which their organization solves specific, mission-critical problems. This project helped spread the curricula to over 40 colleges in the US and its national security allies by 2021.

2015-2018. UAE/Stanford Innovation and Entrepreneurship Project. Academic Director. In partnership and \$10 million from the Prime Minister's Office and the Ministry of Education in the United Arab Emirates, our team at STVP and SCPD at Stanford developed and deployed a one-semester syllabus combining design thinking and entrepreneurial leadership education. This course is now taught by local UAE faculty trained by Stanford and is required of undergraduate students at all UAE colleges and universities.

2011-2017. National Science Foundation's (NSF) National Center for Engineering Pathways to Innovation (Epicenter). Lead Principal Investigator and Director. Epicenter's funding from NSF began in 2011 with a commitment of \$10 million. Managed by Stanford University and our STVP unit, this national center became a laboratory to explore ways to help engineering and computer science undergraduate students develop the knowledge, skill sets and mindsets to help them be more innovative and entrepreneurial throughout their professional careers. After our exploratory time, we created three initiatives: the Fostering Innovative Generations Studies (FIGS) research activity, the University Innovation Fellows (UIF) program for student leaders, and the Pathways to Innovation Program for faculty and administrators. We then led these three core initiatives until 2017 and engaged a large community of educators and students across the country. Through our core initiatives and partnership activities, we reached 300 US institutions of higher education. We hosted a large number of events including annual gatherings for our program participants and two large summits for HBCU leaders.

1998-2012. Roundtables on Entrepreneurship Education (REE). Founder and Co-Host. Organized and co-hosted a total of 50 annual convenings of educators, business leaders, and policy makers in North America, South America, Europe, Asia, Middle East, and Australia to encourage innovation and entrepreneurship education for all students in higher education.

Industry Experience

1995-Present. Member of Board of Directors of numerous private enterprises.

1994-1998. Interval Research Corporation. Senior Business Advisor. Lab funded by the late Paul Allen.

1990-1993. Slate. President and Co-founder. Managed growth from start-up stage to full supplier of software applications in emerging field of pen and mobile computing. Sold to Compaq in 1993.

1985-1990. Symantec. Executive Vice President and General Manager. As a corporate officer, led product development, marketing, and support for several product divisions including antivirus and security software during its formative years through its IPO (SYMC).

1982-1985. Digital Research. Group Product Manager.

1975-1977. Accenture (previously Andersen Consulting). Management Consultant.

Stanford University Service

2019-2020 Advisory Board, President's Ethics, Society and Technology Hub.

2016-2019 University Committee on Undergraduate Majors (C-RUM).

2016-2019 University Committee on Professional/Executive Education (VPTL/SCPD).

2015-present University Faculty Athletic Fellows (Baseball).

2014-present University Committee on Bing Overseas Studies Program (BOSP).

2014-present Stanford's Distinguished Careers Institute (DCI).

2012-2015 Undergraduate Studies Advisory Council.

2007-2012 University Committee on Undergraduate Standards and Policies (C-USP).

2006-2020 School of Engineering's Undergraduate Council.

2006-2008 Faculty Liaison, Stanford Board of Trustees (Committee on Development).

2006-present Pre-Major Faculty Advisor, Freshmen and Sophomores.

2004-2020 Teaching Committee, MS&E department.

2002-2005 Chairman, University's Committee on Public Events (COPE).

2001-2010 Deputy Department Chair, Department of Management Science and Engineering.

2001-2006 Summer Session Director, Management Science and Engineering.

2001-2002 Host of the Dean's Visiting Committee, Management Science and Engineering.

1998-2001 Committee to create the new Management Science and Engineering department.

Awards and Honors

The Nannerl Keohane Distinguished Visiting Professorship at the University of North Carolina at Chapel Hill and Duke University, 2018 and 2021.

Engineering Entrepreneurship Pioneer Award, ASEE Entrepreneurship Division, which is given for lifetime achievement, 2015.

Undergraduate Teaching Award, MS&E Department, Stanford University, 2015.

Endowed Chair in Entrepreneurship Education, School of Engineering, Stanford University, 2012.

Gordon Prize, National Academy of Engineering (NAE), which is its highest award for teaching, 2009.

Hall of Fame, Haas Alumni Network, University of California Berkeley, 2010.

Olympus Innovation Award (for entrepreneurship education) VentureWell (formerly NCIIA), 2008.

Gores Award at Stanford University (university's highest award for excellence in teaching), 2005.

Kauffman Award (for excellence in engineering and technology entrepreneurship education), American Society of Engineering Education (ASEE), 2005.

Outstanding Entrepreneurship Educator of the Year Award, United States Association for Small Business and Entrepreneurship (USASBE), 2005.

STVP was awarded the *NASDAQ Center for Entrepreneurial Excellence Award* by the National Consortium of Entrepreneurship Centers, 2004.

National Leavey Award for Excellence in Private Enterprise Education, Freedoms Foundation, 2003.

Tau Beta Pi Award for Excellence in Undergraduate Teaching, Stanford School of Engineering, 2002.

Bass University Fellow in Undergraduate Education, which is a university-wide endowed chair given by Stanford for major contributions to undergraduate education, 2002.

STVP was awarded the *National Specialty Program Award* by the United States Association for Small Business and Entrepreneurship (USASBE), 2002.

Edwin M. Appel Prize for "bringing entrepreneurial vitality to academia" at the Price-Babson Symposium for Entrepreneurship Education, 1999.

Northern California Entrepreneur of the Year Award in the "supporter/educator" category, Ernst & Young competition, 1998.

Selected Publications

Byers and Seelig, "Empowering Future Engineers with Ethical Thinking" in *The Bridge: 50th Anniversary Issue*, National Academy of Engineering, Volume 50 Number 5, December 2020.

Byers, Dorf, and Nelson, *Technology Ventures: From Idea to Enterprise*, McGraw-Hill, 5th Edition, 2019. For business, engineering, and science students and professionals who demand a comprehensive guide to high-growth entrepreneurship, *Technology Ventures* is the leading resource for analyzing opportunities and building new enterprises. Drawing on the latest academic research and practitioner insights, *Technology Ventures* integrates clear theoretical frameworks with action-oriented examples and exercises. A broad perspective on technology including information technology, clean tech, and life sciences ensures broad appeal to anyone with an interest in high-potential ventures. The 1st edition in 2004 was the first textbook to focus on high-growth entrepreneurship.

Byers and Weilerstein: "Entrepreneurship and Innovation in Engineering Education" in *Advances in Engineering Education*, Volume 5, Issue 1, ASEE, Washington DC, Winter, 2016.

Nelson and Byers, "Challenges in University Technology Transfer and the Promising Role of Entrepreneurship Education" in *Handbook of University Technology Transfer* (Link, Siegel, and Wright, eds.), University of Chicago Press, Chicago, pp. 138-166, ISBN 9780226178349, 2015.

Byers, Seelig, Sheppard, and Weilerstein, "Entrepreneurship: Its Role in Undergraduate Education" in *The Bridge*, National Academy of Engineering, Volume 43 Number 2, Summer 2013.

Byers and Nelson: "Organizational Modularity and Intra-University Relationships Between Entrepreneurship Education and Technology Transfer" in *University Entrepreneurship and Technology Transfer: Process, Design, and Intellectual Property*, Elsevier, pages 275-311, 2005.

Byers, Keeley, Leone, and Parker: "The Impact of a Research University in Silicon Valley: Entrepreneurship in Alumni and Faculty" in *Journal of Private Equity*, Winter 2000.

Byers, Sutton and Kist: "The Characteristics of Entrepreneurs" in *The Handbook of Technology Management*, CRC Press and IEEE Press, 1998.

Byers and Waterman: "A Dynamic Programming Algorithm to Find All Solutions in a Neighborhood of the Optimum" in *Mathematical Biosciences*, 1985.

Byers and Waterman: "Determining All Optimal and Near-Optimal Solutions when Solving Shortest Path Problems in Dynamic Programming" in *Operations Research*, 1984.

Selected Ph.D. Dissertation Committees

Reading

Melissa Graebner, MS&E (UT Austin)
Keith Rollag, MS&E (Babson)
Chris Bingham, MS&E (UNC Chapel Hill)
Victor Seidel, MS&E (Boston College)
Soong Moon Kang, MS&E (Univ. College London)
Nathan Furr, MS&E (INSEAD)
Ben Hallen, MS&E (University of Washington)
Ann Miura-Ko, MS&E (industry, Floodgate Ventures)
Emily Cox, MS&E (University of Washington)
Sam Garg, MS&E (Hong Kong Univ. of Science and Tech.)
Rory McDonald, MS&E (Harvard Business School)
Sruthi Thatchenkery (University College of London)
Henning Piezunka, MS&E (INSEAD)

Oral Defense

Ken Ko, MS&E (chair)
Ted Acworth, ME (chair)
Kenton Yee, Business (chair)
Fermi Ashaboglu, MS&E
John Feland, ME (chair)
John Taylor, CEE (chair)
Ning Jia, Business (chair)

Selected Advisory and Editorial Boards

- Current
 - Menlo College's Board of Trustees.
 - Conservation International's Leadership Council.
 - Harvard Business School's California Research Center.
- Previous
 - American Society of Engineering Education's Entrepreneurship Division.
 - World Economic Forum's Technical Advisory Board (Education) and Tech Pioneers Judge.