

Derry Connolly Ph.D.
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Education:

2003	New Product Development Management	UCSD Extension – Executive Ed.
1983	Ph.D. (Applied Mechanics)	California Institute of Technology
1976	M.Sc. (Mathematical Science)	University College, Cork, Ireland
1975	B.Sc. (Mathematical Science)	University College, Cork, Ireland

Career History

John Paul the Great Catholic University, San Diego (09/2003 - Present)

John Paul the Great Catholic University is a visionary teaching institution focused on and dedicated to molding students into future innovators and creators, leaders and entrepreneurs. Students have the opportunity to acquire a deep and personal knowledge of Jesus Christ. Catholic ethical, moral, and social values provide a lifelong guiding compass.

President and Co-Founder

Responsibilities include bringing the university from idea to reality. Now in its 3rd year of operations, it has 77 students from across the US, 6 full-time and 9 adjunct faculty. It currently offer BS degrees in Business and Communications Media, and will begin its graduate program in Fall 2009 with an MBA in Biblical Theology and an MBA. Funding has come from the extraordinary generosity of many individual benefactors and foundations.

Consulting clients include UCSD Extension and SDSU Research Foundation.

University of California, San Diego Extension (09/1997 – Oct 2008)

University of California, San Diego (UCSD) is a leading public research university. UCSD Extension is a self-funded, entrepreneurial division charged with community outreach. Continuing Education is the largest unit within the division, includes 125 full time academic & administrative staff, 2000+ part-time Instructors, almost 3,000 courses annually, and generated \$18M in revenue during the 02/03 Academic Year from 40,000 student enrollments.

Director; CCAT Programs: <http://www.CCATSanDiego.org/> (07/2004 – Oct 2008)

CCAT (Center for the Commercialization of Advanced Technology) is a public-private collaborative partnership between academia, industry and government, dedicated to bridging the gap that exists between the generators of technology, the department of defense and the marketplace. The Director assists in promoting the commercialization of new technologies and facilitates the start-up of new business ventures using the CONNECT Springboard and Financial Forum models. The Director is a member of the CCAT Executive Board.

Associate Dean of Continuing Education: (<http://Extension.ucsd.edu>) (05/2001 - 06/2004)

Critical Responsibilities of the Associate Dean of Continuing Education: Provide vision and leadership to: (1) an innovative cadre of 10 Academic Directors (Computer & Network Technologies; Digital Media & Web Technologies; Engineering; Bioscience; Healthcare & Behavioral Science; Business & Professional Practice; Occupational Safety & Environmental Studies; Arts, Humanities & Languages; English Language Programs;

Education) that manage the creation and delivery of cutting edge technology curriculum and personal enrichment programs for post-baccalaureate professionals working locally and globally; (2) the 7 Operations Directors and managers of students and career services, regional and international marketing, corporate contract sales, distance learning and operations; (3) align new program development and foster collaboration among academic departments and the support operations.

Accomplishments:

- Crafted and implemented the strategy of being the “Harvard of Extensions”, aligning new curriculum development to compliment the superior UCSD brand, emphasizing higher end professional advancement and life enrichment programs.
- Built a reengineered organizational structure creating a premier continuing education unit that maintained overall enrollment and revenue despite plummeting information technology demand and a general economic malaise.
- Forged a strong collaborative esprit de corps among a larger and considerably new and highly motivated management team within a flattened organizational structure.
- Realigned all key operational groups - regional and international marketing, student and career services, corporate sales, distance learning, and classroom management.

Director: Science, Engineering & Environmental Studies (09/1997-04/2001)

As Director of the Science, Engineering, and Environmental Studies (annual revenue of \$2.7MM, 12 full time administrative staff and over 250 part-time Instructors, revenue and margin growth rate 30% per year for 4-years), responsibilities included the creation and delivery of cutting edge technology curriculum for graduate professionals working in the burgeoning Telecommunications and Biotechnology industry sectors in the San Diego region.

Accomplishments:

- Maintained 30% annual revenue growth over 3 years, while overhauling the entire curriculum portfolio, business processes, management and staff.
- Diversified curriculum portfolio, tapping into new markets for high end Professional Continuing Education locally and globally, and maximizing fixed facility use.
- Increased focus on sales and marketing – now 25% of administrative staff.
- Forged strategic relationships with leading global Telecommunications and Biotechnology companies, to quickly add leading edge curriculum.
- Managed the creation of UCSD Extension Online (<http://onlinex.ucsd.edu/>) - allowing professionals worldwide participate in UCSD Extension's premier programs.
- Created 10 new academic certificate programs in multiple technical disciplines to meet regional industrial needs, and increased flexibility in many existing programs.
- Solicited corporate support for 220 scholarships for adult students valued at ~ \$200K.

Eastman Kodak, San Diego Research Labs
Member of Senior Staff & Group Leader

(12/1988 - 09/1997)

The San Diego Research Lab was Kodak's Center of Excellence for Magnetic Recording technology. Responsibilities included managing and contributing to the group's dominant capabilities in understanding the physical interfaces in magnetic recording systems.

Accomplishments:

- Lead Interface Mechanics group, specializing in understanding the critical contact between recording media and recording heads. Spearheaded transition from core Magnetic Recording skills to broaden the group's (1) technical capabilities in thermal printing interfaces, and (2) funding sources within at Kodak's other product divisions.
- Developed technical capability as leading mathematical modeler of interface dynamics.
- Obtained 8 US patents in the areas of magnetic storage and thermal printing.

IBM, General Products, Tucson, AZ
Advisory Engineer

(08/1982 - 11/1988)

IBM is the world's leader in computer technology. The General Products Division supplied magnetic storage peripherals. As an Advisory Engineer responsibilities included developing mathematical models to aid in understanding key component performance in magnetic tape, floppy disk and Optical Disk recording systems.

Accomplishments:

- Developed technical capability as leading mathematical modeler of recording system critical components.

New Certificates & Programs created at UCSD Extension

Drug Discovery & Development:

- Medicinal Chemistry Institute at UCSD Extension
- Summer School in Computer Aided Drug Design
- Drug Discovery & Development
- Regulatory Affairs
- Agricultural Biotechnology
- Quality Assurance/Quality Control
- Biotech Manufacturing Fundamentals

Telecomm:

- Global Program in CDMA Engineering – with hybrid Online delivery
- CDMA Engineering
- Embedded Computer Engineering - Systems-on-a-chip
- Embedded Computer Engineering - Embedded Telecomm
- Embedded Computer Engineering - Embedded Video Engineering

Environmental:

- International Environmental Management
- Field Chemistry

Engineering:

Energy Efficiency

Some Recent Invited Talks & Classes Delivered

- August 2006, "CCAT Technology Commercialization model and UCSD Global CONNECT" at the *Global Game Industry Roundtable*, Daegu, South Korea.
- September 2004, Keynote Speech "UCSD CONNECT Successful Stories & Model" at the *Opportunities for ICT Industry Innovation and Entrepreneur Forum*, Taipei, Taiwan.
- June 2004, "San Diego – A Research University and its role in the incubation of SD Biotech Cluster" at the *BioLink USA-Ireland San Francisco Conference*
- Spring 2003-2008, "Applied Innovation" 11-week, 4-unit class to graduate and undergraduate student in the Jacob School of Engineering at UCSD. The class examines the start-up technology company from the CEO perspective.
- Spring 2002 and 2001, "Globalization Strategies" 3-hour lecture to UCSD Extension EPSE (Executive Program for Scientists and Engineers) students.
- Winter 2002, 2000, and 1999 "Managing Technology Innovation" 9-week class at UCSD Extension to Engineering Management Professional Certificate Students.

Patents

- G. W. Brock and D. Connolly "Thin wear resistant and heat conductive slip layer for a reusable thermal dye donor belt"; U.S. Patent # 5,885,930, 1999.
- G. W. Brock, D. Connolly, and C.D. DeBoer; "Reusable donor layer containing dye wells for thermal printing", U.S. Patent # 5,885,929, 1999.

- G. W. Brock, S. Hower, and D. Connolly, "Horizontal Head Assembly and Suspension Method for Magnetically Coated Film Recording", U.S. Patent # 5,805,942, 1998.
- G. W. Brock, S. Hower, and D. Connolly, "Retractable two track head assembly with Controllable Roll Stiffness" U.S. Patent # 5,802,409, 1998.
- G. W. Brock and D. Connolly, "Print Head with Electrode Temperature Control for Resistive Ribbon Thermal Transfer Printing", U.S. Patent 5,420,612, 1995.
- G. W. Brock, D. Connolly and K. R. Gandola, "Print Head with Electrode Pressure and Pixel Size Control for Resistive Ribbon Thermal Transfer Printing", U.S. Patent # 5,426,451, 1995.
- D. Connolly "Method to Determine the Optimum Thickness of the Insulation Layer in a Thermal Print Head", U.S. Patent # 5,418,553, 1995.
- G. W. Brock, W. S. Czarnecki and D. Connolly, "Bi-Directional Read While Write Magnetic Head having a Wear Avoidance Contour", U.S. Patent #5,034,838, 1991.

Edited Technical Books

- Adams, G. G., Bhushan, B., Connolly, D., and Wickert, J., "Proceedings of the 9th Annual Information Storage and Processing System Symposium" ISPS-Vol. 4, ASME, New York, 1998.
- Adams, G. G., Bhushan, B., Connolly, D., Meisner, W., Schirle, N., and Wickert, J., "Proceedings of the 8th Annual Information Storage and Processing System Symposium" ISPS-Vol. 3, ASME, New York, 1997.
- Adams, G. G., Bhushan, B., Connolly, D., and Wickert, J., "Proceedings of the 7th Annual Information Storage and Processing System Symposium" ISPS-Vol. 2, ASME, New York, 1996.

Publications

- G. W. Brock and D. Connolly, "The Tribology of the Interface for Magnetic Data Recording on the Image Area of Photographic Film" J. Inf. Storage & Proc. Sys. Vol. 1, No. 1, 1999, pp. 67-74
- D. Connolly, J. DeMarco, G. W. Brock, O. Oleson and M. Robinson "A Thermal Printing Interferometer" J. Imaging Science & Tech, Nov/Dec 1998
- D. Connolly and B. Jadrich, "The Stiffness and Damping Characteristics of a Pocket Slider Bearing", Adv. Info. Storage Sys., Vol. 7, 1996.
- D. Connolly and G. W. Brock, "The Design of an In-Contact, Bi-directional, Magnetic Tape Recording Head with Beveled Transverse Slots", ISPS -Vol. 1, Adv. Info. Storage & Proc. Sys., ASME 1995, pp 313-318.
- G. W. Brock, D. Connolly, and S. C. Czarnecki, "Contact Recording on Bi-directional, Thin-Film Tape Head Structures", Adv. Info. Storage Sys., Vol. 6, 1995, pp 373-384.
- D. Connolly, " Optimization of the Thermal Performance of a Print head Structure for Pulse-Count-Modulated Dye Diffusion Thermal Printing", J. Imaging Science & Tech, Vol. 38, No. 4, July/Aug. 1994, pp 365-371.
- D. Connolly, "A Thermal-Electric Model of the Current and Heat Flow in Resistive Ribbon Printing Technology", J. Imaging Science & Tech, Vol. 38, No. 4, July/Aug. 1994, pp 371-377.
- D. Connolly, M.J. Brannigan and G. W. Brock, "The Design of a Triple Bump, Mixed Radius, Low Flying Recording Head for a High Density Magnetic Recording Head," A.S.M.E Adv. Info. Storage Sys., Vol 4, pp. 41-50.
- J. C. Heinrich, and D. Connolly, "Three Dimensional Finite Element Analysis of Self-Acting Foil Bearings," Comp. Meth. Appl. Mech. Eng. Vol. 100 (1992), pp31-43.
- D. Connolly, "Fracture Analysis of Chemically Strengthened Glass Disks," Journal of the American Ceramic Society, 72[7], pp 1162-66, 1989.

- D. Connolly, A. C. Stockton and T. C. O'Sullivan, "Large Deformation Strength Analysis of Chemically Strengthened Glass Disks," Journal of the American Ceramic Society, 72[5], pp 863-67, 1989.
- B. Bhushan and D. Connolly, "Viscoelastic Properties of Polyethylene Terephthalate," ASLE Transactions, 29, (4), pp 489-499, 1986.
- J. C. Heinrich, D. Connolly and B. Bhushan, "Axisymmetric Finite Element Analysis of Stress Relaxation in Wound Magnetic Tape", ASLE Transactions, 29(1), pp 75-84, 1986.
- B. Bhushan, J. C. Heinrich and D. Connolly, "Orthotopic Viscoelastic Behavior of Polyethylene Terephthalate Film under Plane Stress Conditions," Tribology & Mechanics of Magnetic Storage Systems, ASLE Special Pub. SP-16, 1984.
- D. Connolly and D. J. Winarski, "Stress Analysis of Wound Magnetic Tape" Tribology and Mechanics of Magnetic Storage Systems, ASLE Special Publication SP-16, pp 172-182, 1984.
- B. Bhushan, F. W. Hahn, B. Sharma and D. Connolly, "Long-Term Reliability of Magnetic Tapes for Digital Recording," Tribology and Mechanics of Magnetic Storage Systems, ASLE Special Publication SP-16, pp 132-147, 1984.
- J. F. Connolly, "Finite Plane Deformation of an Elastic Half-Space Due to a Concentrated Surface Load," Cal-Tech Technical Report No. 50, Contract No. N00014-75-C-0196, Office of Naval Research, 1983.
- J. F. Connolly, "Two Problems in Plane Finite Elastostatics," Ph.D. Thesis, California Institute of Technology, Pasadena, CA, 1983.

Journal Editorial Boards

On the Editorial Board for the "Journal of Information Storage & Processing Systems" (JISPS) - a journal for the data storage industry formerly published by Birkhauser Boston.

Professional Societies

Founding member, Past-Chair and Webmaster of ASME's Information Storage and Processing Systems Division's. ISPS was ASME fastest growing Division.

Some Recent Awards

March 2003: Outstanding Service Award from the San Diego Engineering Coalition—a collection of the leading Engineering professional societies, given in grateful recognition of outstanding contribution and service to the field of Engineering Continuing Education, the Engineering profession, and the community.

Board memberships

- Member, CCAT Executive Board (<http://www.ccatsandiego.org/>)
 - Board of Directors, Irish Outreach, San Diego (<http://www.irishoutreachsd.org/>)
 - Academic Advisor, VentureForth at UCSD (<http://ventureforth.org>)
 - PDMA, 2005 International Conference Advisory Planning Group (www.pdma.org/2005)
 - Past Chair, ISPS Division of ASME (<http://divisions.asme.org/isps/committees>)
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