

CURRICULUM VITAE

Jack L. Zable

1. Education

Ph.D. Mechanical Engineering, Purdue University, W. Lafayette, IN., 1969.

M.S. Mechanical Engineering, Purdue University, W. Lafayette, IN., 1965.

B.S. Mechanical Engineering, City College of New York, N.Y., 1963.

2. Academic and Industrial Experience (See Appendices A, B, C & D)

Endowed Chair Professor- Industry Professor of Mechanical Engineering Design, Department of Mechanical Engineering, University of Colorado, Boulder, CO, 1997-present.

Senior Technical Staff Member, IBM, Boulder, CO, 1995-1997.

Senior Technical Staff Member, IBM, Endicott, NY, 1987-1995.

Senior Engineer, IBM, Endicott, NY, 1981-1987.

Joined IBM 1964.

Adjunct Professor, Department of Engineering, SUNY-Binghamton, Binghamton, NY., 1970-1990.

3. Professional Recognition

Elected Fellow of the American Society of Mechanical Engineers, 1998.

Elected into IBM's Academy of Technology, 1990.

Recipient of 16 Corporate Awards from IBM (total > \$60,000), 1971-2002.

IBM adopted his corporate study to reduce product development cycle time. 1994

Recipient of IBM's Ph.D. Resident Study Award, 1967-1969.

Organizer and chair of first National Capstone Design Conference. 2007

4. Administrative and Leadership Positions Held

Director of I/UCPC (Industry Sponsored Senior Design Projects Program) in Mechanical Engineering Department, 2000-2007.

Member of the Executive Committee Mechanical Engineering Department, 1999-2009

Chairman of Industry Relations Committee for the Mechanical Engineering Department, 1999-2009

Manager/Technical Lead for IBM's color printing and imaging activities in printer division, 1994-1997.

Managed new product development for IBM Printers (1980-1994). Responsible for creating over 2 billion dollars in revenue for IBM.

5. Summary of Grant History

Approximately \$2,500,000 for Industry/University Cooperative Projects Center (1999-present)

Approximately \$200,000 for CCIS Research Project (CO-PI) (1997-1999)

Approximately \$500,000 in equipment donations from corporations and EEF awards(1997-present)

6. Representative Patents

Inventor/Co-Inventor for 26 patents issued by the US Patent Office; 61 invention disclosures published in IBM Technical Disclosure Bulletin.

H.C. Lee, Larry Teklitz and J. Zable, "Gray Scale Calibration Tool for Setting the Density of a Printer," U.S. 6,268,932 B1, July 31, 2001.

Jack Zable, Carroll Francis Hamill, "Non-Integer Scaling of Raster Images with Image Quality Enhancement," U.S. 6,195,473 B1, Feb. 27, 2001.

Dennis C. Estabrooks, Jack Zable, "PQE for Font Vs. Large Dark Patch," U.S. 6,177,978 B1, Jan. 23, 2001.

7. Representative Publications

Two chapters in textbook; 11 articles in technical journals; 20 papers presented at technical conferences.

Mark Rentschler and Jack Zable, " Design Beyond Capstone Design – Developing a New Graduate Design Pedagogy and Program", National Capstone Design Conference, 2010.

Paul Miller, Jack Zable et al, "Development of a Prototype that Measures the Coefficient of Friction between Skis and Snow", Engineering of Sport 6, Volume 1, PP 305-310, 2006

Mark Buzek and Jack Zable, "Versatile Disk Drive Shock Tester", *Journal of Information Storage and Processing Systems*, vol. 2, pp. 169-177, 2000.

J.L. Zable and Y.C. Lee, An Overview of Impact Printing," *IBM Journal of Research and Development*, vol. 41, No. 6, pp. 651-668, Nov. 1997.

Two chapters in Text book "Output Hardcopy Devices", Chapters 5 and 6, pp. 117-168, *Academic Press*, 1988.