JAMES GERARD CONLEY

Clinical Professor
Center for Research in Technology & Innovation
Managerial Economics and Decision Sciences
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FORMAL EDUCATION and TRAINING

8/79 to 5/83 **UNIVERSITY OF VIRGINIA** Charlottesville, Virginia
Bachelor of Science Nuclear Engineering, May 1983
U.S. DOE Nuclear Regulatory Commission licensed fission reactor operator, 1981

9/83 to 8/87 **TECHNOLOGICAL INSTITUTE, NORTHWESTERN UNIVERSITY** Evanston, Illinois
Doctor of Philosophy Materials Science and Engineering, August 1987
Research Topic: Precipitation Hardening in Model Engineering Alloy Systems
Dissertation advisors Morris E. Fine and Julia R. Weertman

8/90 to 6/92 **KELLOGG SCHOOL OF MANAGEMENT** Evanston, Illinois
Master of Management, June 1992, EMP Class 24

ACADEMIC POSITIONS

09/00 to present **KELLOGG SCHOOL OF MANAGEMENT** Evanston, Illinois
NORTHWESTERN UNIVERSITY
Clinical Professor, Research/Teaching Emphasis on
Innovation and Intellectual Capital Management
Department of Managerial Economics and Decision Sciences
Kellogg Center for Research in Technology and Innovation
Faculty Member, Kellogg Center for Research in Technology and Innovation
Faculy Member, International Business and Markets Research Center
Faculty Affiliate, Zell Center for Risk Research

11/94 to 08/00 **McCORMICK SCHOOL of ENGINEERING and APPLIED SCIENCE** Evanston, Illinois
NORTHWESTERN UNIVERSITY
Faculty Member (Full time 11/94 - 09/00, Courtesy Appointment since 09/00)
Department of Mechanical Engineering, IDEA Faculty Fellow, NCEER Scholar,
Affiliated Faculty Member, Center for Quality Engineering and Failure Prevention

08/08 to 08/11 **OTTO BEISHEIM GRADUATE SCHOOL of MANAGEMENT, WHU** Germany
Visiting Professor, Chair of Technology and Innovation Mangement

02/01 to present **RECANATI IEMBA/HTMS PROGRAMS, TEL AVIV UNIVERSITY** Tel Aviv, Israel
SCHULICH SCH00L, YORK UNIVERSITY Toronto, Canada
Faculty Member, Kellogg International Executive MBA Programs

Summer 02 & Suumer 03 **KEIO UNIVERSITY** Yokohama, Japan
KEIO BUSINESS SCHOOL
Visiting Professor, Faculty of Management

RECENT HONORS/RECOGNITION

- Invited Author, California Management Review, Special Issue on Intellectual Property Management, Spring 2013.
- Selected as recipient of Kellogg **Certificate of Impact** for teaching Intellectual Capital Mangement course in Winter Quarter 2012.
- Appointed to serve on United States Department of Commerce Patent and Trademark office advisory committee (TPAC), August 11, 2008 to August 2nd 2009 and again September 3rd 2009 to September 3rd 2012.
- Selected as Alexander vonHumboldt Foundation Transcoop Fellow, Alexander vonHumboldt Foundation, Bonn Germany, 2008 to 2011.
- Selected as recipient of Kellogg **Certificate of Impact** for teaching Intellectual Capital Mangement course in Winter Quarter 2011.
- Recognized reviewer, World Patent Information, an Elsevier Journal 2011
- Selected as 2007 Professor of the Year, Master of New Product Development Program, Northwestern University.
- Selected as 2004 Professor of the Year, Master of New Product Development Program, Northwestern University.
- Literati Award Winner 2000, MCB University Press awarded annually to best paper in Rapid Prototyping Journal (see publications)
- Best Paper Award, American Foundry Society, Division 7, 1999 Congress
- Selected as 1998 Recipient of Ralph R. Teetor Educator Award, SAE International
- Selected as Pentair-Nugent Professor of Business Leadership, ’96 to ‘99 NU MMM Program
- General Electric Foundation Professorship, NU McCormick School, ‘94-’95
- Popular Science, “BEST OF WHAT’S NEW”, Grand Award Winner, Fall 1993

KEYNOTES/PUBLIC SPEAKING

- Invited Speaker, European Patent Office and Technical University of Munich, June 5, 2012
- Invited Speaker, Massachusettes Institute of Technology Enterprise Forum, Israel Chapter, Tel Aviv, May 8th, 2012.
- Invited Seminar Speaker, Ajou University, South Korea, November 24th, 2011
- Invited Seminar Speaker, Ajou University, South Korea, December 8, 2010
- Invited Seminar Speaker, Korea Advanced Institute of Science and Technology, South Korea, December 9, 2010

- Invited speaker, Northwestern University Law School conference on Intellectual Property, March 4th, 2011.

- Invited Speaker, Massachusettes Institute of Technology Enterprise Forum, Israel Chapter, Tel Aviv, March 16th, 2010. Invited again for March 2011.

- Invited Seminar Speaker, Northwestern University Segal Design Institute MPD Program, "Design and the Nexus of Semiotics and Intellectual Property", January 22nd 2010.

- Invited Plenary Speaker, United Nations WIPO International Convention on Intellectual Property and Competitiveness of MSME's, Rome ITALY December 11th 2009.

- Invited Faculty Seminar Speaker, W.A. Franke College of Business, Norther Arizona University, Flagstaff, AZ, USA November 13th 2009.

- Invited Speaker, Entrepreneurship and Innovation Chair's seminar, WHU, Vallendar, GERMANY July 8th 2009.

- Invited Speaker, Max Planck Institute for Intellectual Property, Competition and Tax Law & Munich Intellectual Property Law Center joint symposium, May 19th 2009.

- Invited Speaker, The South Centre, Geneva, Switzerland, May 12th 2009.

- Invited Keynote Speaker, European Licensing Executive Society & German Intellectual Property Society symposium, Konigswinter, GERMANY, March 26th 2009.

- Invited Keynote Speaker, Business of Design Week Forum, Hong Kong, Hong Kong Design Center, December 11th, 2008.

- Invited Keynote Speaker, WIPO/IIM Bangalore joint Workshop on Intellectual Property Management Research and Education, Bangalore, INDIA December 8th, 2008.

- Invited Speaker, Symposium on Property Rights, Economics and Innovation, NU Law School Searle Center on Law, Regulation, and Economic Growth, Chicago, IL November 14th , 2008.

- Invited Speaker, Graduate School of Management, St. Petersburg State University, St. Petersburg, RUSSIA, November 11th 2008.

- Invited Keynote Speaker, International Atomic Energy Agency/WIPO/CERN joint Workshop on licensing of technologies, Vienna, AUSTRIA, October 26th, 2008.

- Invited Speaker, Telefonica Annual Customer Conference, Miami, Florida April 9th - 10th 2008.

- Invited Keynote Speaker, SABIC biennial global research meeting, Al Jubayl industrial city, KINGDOM OF SAUDI ARABIA, April 6th, 2008.

- Invited Keynote Speaker, Research Canada Conference on Innovation and Invention, Sault Ste. Marie, Ont. CANADA, December 11, 2007

- Invited Symposium Speaker, School of Business and Economics, Michigan Technological University, November 2nd, 2007

- Invited Keynote Speaker, Arab Licensing Executive Society Meeting, Amman, KINGDOM OF JORDAN, May 28th, 2007.

- Invited Keynote Speaker, United Nations World Intellectual Property Organization Conference on IP Management, GOA, India, March 11 - 13, 2007

- Invited Keynote Speaker, United Nations World Intellectual Property Organization Seminar on Executive Education, Geneva, Switzerland, Sept. 2006, 2007, 2008.

- Invited Keynote Speaker, United Nations World Intellectual Property Organization Conference on IP Research and Education, Rio de Janiero, Brazil, May 10, 2006

- Keynote Plenary Speaker, PATENTE Conference, October 5, 2005, Frankfurt, Germany, organized by Management Circle

- Invited, keynote author presenting paper entitled "Scaling from Prototype to Production: A Managed Process" at the NSF/Dept. of Ed. sponsored conference addressing" Conceptualizing Scale-up: Multidisciplinary Perspectives" held November 3rd and 4th, 2003 in Washington D.C. This conference was organized by the Data Research and Development Center at the University of Chicago.

- Invited Plenary Speaker, Annual Meeting of German Academic Society for Innovation Management, Vallendar, Germany, 10/25/01

- Keynote Speaker, 9th Engineering Foundation Conference on the Modeling of Casting, Welding, Solidification Process, Aachen Germany, August 2000

- Invited Author, Special issue of ASME Journal of Manufacturing Sci. and Engr., November 1997 (see publication #15)

- Invited Speaker, Stanford University Center for Turbulence Research, June 1997

INDUSTRIAL AND PROFESSIONAL EXPERIENCE

03/08 to present — **GLOBAL ECONOMICS GROUP** (http://www.globaleconomicsgroup.com) Chicago, London
Principal

01/11 present — **MARKET PLATFORM DYNAMICS** (http://www.marketplatforms.com) Boston, San Francisco
Principal

10/95 to 2/08 — **CHICAGO PARTNERS** (http://www.chipar.com/) Chicago
Intellectual Capital Management and Litigation consulting firm.
Principal

3/94 to 3/2010 — **SYNDIA CORPORATION** (http://www.syndiacorp.com/) Chicago
Product development and intellectual property licensing firm specializing in synthetic diamond
Founder

- Innovated, invented and supervised development of synthetic diamond technologies with wide spread commercial application (see patents under publications).
- Acquired complimentary patented technologies to create an IP portfolio of assets with strong licensing revenue.
- Developed strategy for extracting licensing revenues from the portfolio.
- Licensed this portfolio to 40+ firms.
- Enforced rights where appropriate to achieve $10,000,000+ in final court rulings.

9/87 to 9/94 — **RYOBI LIMITED GROUP OF COMPANIES** Tokyo, Hiroshima, Chicago, Phoenix
Global manufacturer of light metal castings and finished consumer and industrial products

- **Program General Manager** for development of world's smallest displacement OHV 4-cycle engine to enter volume production. Directed basic component design and materials assessment, laboratory and field testing, production tooling planning and cost optimization, physical plant expansion and all related capital budgeting processes (US$ 7.0 million investment). Technological breakthroughs achieved during this program include:
  - ⇒ First 4-cycle engine of any kind to comply w/ strict 1999 CARB emission standards.
  - ⇒ First 4-cycle engine package adaptable to *hand held* power equipment applications.
  - ⇒ First use of 422 stainless steel in cold headed valve application.
  - ⇒ First successful application of polymeric materials in production engine valve train (keeper).
  - ⇒ First successful application of PM processes to produce net shape and finish cam and timing gears (AGMA 10!), cam lobe, lifters, and rocker pivots in 4-cycle engine.

- Developed new diecasting alloys for high fatigue resistance and tribological applications. Assisted with the development of several new Al alloy casting processes for volume production of diecastings w/ complex internal cavities (engine blocks, heads etc.). Each of these new process innovations has generated intellectual property and been successfully commercialized.

- Guided efforts between sales, manufacturing, and R&D functions to expand product markets for advanced cast component manufacturing technologies. Developed and implemented new casting process marketing plans aimed at transferring Japan based manufacturing methods to overseas production facilities. Successfully led new technology marketing efforts directed towards GM, Chrysler, Ford Europe Renault and other large casting customers.

- Principal Ryobi participant in transnational automotive component R&D programs involving Japan based auto makers, off shore materials suppliers and local Ryobi casting facilities.

PUBLICATIONS

Archival Journals

1. H. Ernst, J. G. Conley & N. Omland, *How to Create Commercial Value from Patents: The Role of Patent Management*, Accepted for publication in Research Policy, 2012

2. D. Orozco and J. G. Conley, *Friends of the Court: Using Amicus Briefs to Identify Corporate Advocacy Positions Is Supreme Court Patent Litigation*, published in Journal of Law, Technology & Policy, v. 2011, no. 2

3. J. G. Conley et al, *Inventing Brand: Opportunities at the Nexus of Semiotics and Intellectual Property*, Design Management Review, Design Management Institute, Boston, MA, V19, no. 2, Spring 2008

4. D. Orozco and J. G. Conley, *The "Longer Walk" after eBay v. MercExchange*, published in Les Nouvelles, Journal of the Licensing Executives Society, Summer 2007.

5. S. Bordas, J. G. Conley, B. Moran, J. Gray and E. Nichols, *A Simulation-based design paradigm for complex cast components*, accepted for publication in Engineering with Computers, Fall 2006, available online at http://www.springerlink.com/content/820536351w516858/?p=c17145cd93164b7d9e0e4b26c8a99136&pi=0

6. J. G. Conley, *Using Brand Identity to Reinforce Market Value*, IDSA Innovation Journal, Winter 2005, available online at http://www.idsa.org/webmodules/articles/articlefiles/Conley_winter05.pdf

7. J.G. Conley, E.Andros, P. Chinai, E. Lipkowitz, D. Perez, *Game Over: Emulation and the Video Game Industry*, **Journal of Technology and Intellectual Property,** volume 2, Spring 2004

8. J. T. Scarry, W.Wang, and J. G. Conley, *A Catalyst Model for Business to Business eCommerce in the Foundry Industry*, **Transactions of the American Foundry Society,** volume 109, (2001).

9. V. Demas, J. G. Conley, and K. F. Packer, *Experimental Design of a Microgravity Solidification Facility to Assist with Casting Simulation Verification*, **Transactions of the American Foundry Society,** volume 109, (2001).

10. V. Demas, K. F. Packer, J. Shah and J. G. Conley, *Experimental Results to Assist in Validation of Casting Process Simulation in a Variable-Gravity Environment*, **Transactions of the American Foundry Society**, volume 111 Paper No 03-091 P 29-39, (2003).

11. J.G. Conley, J. Huang, Jo Asada and Kenji Akiba, *Modeling the effects of cooling rate, hydrogen content, grain refiner and modifier on microporosity formation in Al A356 alloys*, **Materials Science and Engineering: A** 285 (1-2) (2000) pp. 49 – 55.

12. M. E. Seniw, J. G. Conley, and M. E. Fine, *The effect of microscopic inclusion locations and silicon segregation on fatigue lifetimes of aluminum alloy A356 castings*, **Materials Science and Engineering: A** 285 (1-2) (2000) pp. 43 - 48.

13. V. Demas, T. Kulic, K. Diehl and J. G. Conley, *Validation of Casting Process Simulation Using Analogue Materials in a Microgravity Environment*, **Transactions of the American Foundry Society,** volume 108, (2000).

14. W. Wang, J. G. Conley and H. Stoll, *Rapid Tooling for Sand Casting Using the Laminated Object Manufacturing Process*, in **Rapid Prototyping Journal**, Volume 5, No. 3, pp. 134-140 (1999).

15. J. G. Conley, B. Moran, and J. Gray, *A New Paradigm for the Design of Safety Critical Castings*, ***Journal of Materials and Manufacturing,*** **SAE Transactions**, Volume 107, 1998, in press. Also published in **Aluminum in Automotive Applications,** SP#1350, SAE International Inc., Warrendale PA, 1998, pp. 25-38.

16. J. G. Conley, *The Ryobi "Air-Clean" 4-Cycle Engine: A Case Study in Engineering and Manufacturing Management*, in **ASEM/ASME Journal of Engineering Management**, Vol. 10, no. 2, pp. 23-31 (1998).

17. J. Huang, T. Mori and J. G. Conley, *Simulation of Microporosity Formation in Modified and Unmodified A356 Alloy Castings,* **Metallurgical and Materials Transactions**, 29B, no. 12, pp. 1249-1260 (1998).

18. H. Stoll, J. G. Conley, W. Wang, and R. Gustafson, *Tool Path Selection for Sand Casting*, **Transactions of the American Foundry Society,** volume 107, (1999).

19. J. Huang and J. G. Conley, *Computer Simulation of Pore Size and Shape for Equiaxed Aluminum Alloy Castings,* **Transactions of the American Foundry Society**, volume 106, (1998)

20. J. Huang, J. G. Conley, and P. Callau, *Alternative Methods for Porosity Prediction in Aluminum Alloys,* in ***Journal of Passenger Cars,*** **SAE Transactions**, Volume 107, 1998. Also published in **Developments in CAD/CAM and CAE**, SP#1336, SAE International Inc., Warrendale PA, 1998, pp. 93-103.

21. W. Wang, J.G. Conley and H. Stoll, *Rapid Tooling Error Analysis for Sand Casting,* **Transactions of the American Foundry Society,** *Received 1998 American Foundry Society Best Pape Award*, volume 106, (1998).

22. W. L. Wang, Y. N. Fan, J. Y. H. Fuh, H. W. Stoll and J. G. Conley, *Towards Intelligent Setting of Process Parameters for Layered Manufacturing,* **Journal of Intelligent Manufacturing**, **11**(1): 65-74, February 2000.

23. J. G. Conley and H. L. Marcus, *Rapid Prototyping and Solid Free Form Fabrication***, ASME Journal of Manufacturing Science and Engineering**, Volume 119, 1997, pp. 811-816**.**

24. J. G. Conley et al, *The Development of a Durable, Cost Effective, Overhead Valve Train for Application to Small, 4-cycle Engines,* in ***Journal of Engines,*** **SAE Transactions**, Volume 105, 1996, pp. 1768-1780. This manuscript also published as **SAE Technical Paper #961729** and as part of **SAE Monograph SP-1195, Design, Modeling and Emissions Control for Small Two and Four Stroke Engines** , August 1996.

25. J. G. Conley et al, *The New Ryobi 26.2 cc 4-cycle Engine for Hand Held Power Equipment Applications*, in ***Journal of Engines,*** **SAE Transactions**, Volume 105, 1996, pp. 1756-1766. This manuscript also published **as SAE Technical Paper #961728** and as part of **SAE Monograph SP-1195, Design, Modeling and Emissions Control for Small Two and Four Stroke Engines** , August 1996.

26. T. Yamada, H. Usui, H. Tosa, H. Terauchi, and J. G. Conley, *Experience with the Production of Cast Aluminum Alloy Engine Blocks by Low, Medium, and High Pressure Casting Processes****, Journal of Engines,*** **SAE Transactions**, Volume 101, Section 3, pp. 1015-1028. This manuscript also published as **SAE Technical Paper #920572,** February 1992.

27. M. E. Fine, and J. G. Conley, *On the Free Energy of Formation of TiC and* Al_4C_3, in **Metallurgical Transactions**, 21A, pp. 2609-2610 (1990).

28. J. G. Conley, J. R. Weertman and M. E. Fine, *Effect of Lattice Disregistry Variation on the Late Stage Phase Transformation Behavior of Precipitates in Ni-Al-Mo Alloys*, **Acta Metallurgica**, 37, no. 4, pp. 1251-1263 (1989).

29. M. E. Fine, Y. C. Chen, J. G. Conley and J. A. Caputi, *Interface Adsorption and Ostwald Ripening*, **Scripta Metallurgica**, 20, no. 5, (1986).

United States Patents

30. J. H. Lemelson and J. G. Conley, *Synthetic diamond coatings with intermediate bonding layers and methods of applying such coatings,* **United States Patent #6165616**, December 26, 2000.

31. J. H. Lemelson and J. G. Conley, *Synthetic diamond overlays for gas turbine engine parts having thermal barrier coatings,* **United States Patent #6099976**, August 8, 2000.

32. J. H. Lemelson and J. G. Conley, *Synthetic diamond coatings with intermediate amorphous metal bonding layers and methods of applying such coatings*, , **United States Patent #6083570**, July 4, 2000.

33. J. G. Conley and J. H. Lemelson, *Synthetic Diamond Layers Having Wear Resistant Coatings Formed in situ and Methods of Applying such Coatings*, **United States Patent #5,786,038**, July 28, 1998.

34. J. H. Lemelson and J. G. Conley, *Synthetic Diamond Overlays for Gas Turbine Engine Parts Having Thermal Barrier Coatings*, **United States Patent #5,714,202**, February 3, 1998.

35. J. H. Lemelson and J. G. Conley, *Method of Depositing Synthetic Diamond Coatings with Intermediate Bonding Layers*, **United States Patent #5,688,557**, November 1997.

36. J. G. Conley and J. H. Lemelson, *Method of Applying a Wear Resistant Diamond Coating to a Substrate*, **United States Patent #5,616,372**, April 1997.

Published United States Patent Applications

37. W.Wang, J. T. Scarry and J. G. Conley, *System and Method for Ameliorating Subcontracting Risk*, **United States Patent Application #0087380 A1**, July 4, 2002.

Trade Reviews/Magazine Articles

38. U. Lichtenthaler, H. Ernst & J. G. Conley, *How to Develop a Successful Technology Licensing Program*, MIT Sloan Management Review, v. 52, No. 2, Winter 2011.

39. *Shape of Things to Come*, published in May 12th, 2008 Wall Street Journal Business Insights Section, in collaboration with Sloan Management Review, see http://sloanreview.mit.edu/wsj/insight/innovation/2008/05/12/

40. *Market Innovation and Branded Differentiation*, Custom publication for Microsoft Executive Website, February 2006., see http://www.microsoft.com/business/executivecircle/content/article.aspx?cid=2069&subcatid=300

41. *Market Pricing and the Sandwich Strategy*, Custom publication for Microsoft Executive Website, February 2006, w/ Dipak Jain, see http://www.microsoft.com/business/executivecircle/content/article.aspx?cid=2068&subcatid=402

42. J. G. Conley, *Trademarks, not Patents: The Real Competitive Advantage of the Apple iPod*, Core77 webzine, December 2005.

43. J. G. Conley, *Patents Come and Go – Trademarks are Forever*, Executive Counsel Magazine, Spring 2005.

44. J. G. Conley, *Manejando la propriedad intellectual en el Mercado global*, Strategy and Negotiations Magazine (in Spanish Language), Spring 2005.

45. J. G. Conley, *Managing Intellectual Property in the Global Marketplace: The Practitioners Perspective.* Kellogg World Magazine, Spring 2004.

46. J. G. Conley and J. Szoboscan, *Snow White Shows the Way.* Managing Intellectual Property Magazine, June 2001.

47. J. Scarry, J. G. Conley, W.Wang and D. D. Kaufman, *A Catalyst Role for an e-Marketplace in the Diecasting Industry.* Linx Magazine April 2001.

48. K. Kurihara, J. G. Conley, and T. Kakuma, *An Experience of Management of International Project Team to Develop Extremely Small 4-cycle Engine*, published in the Japanese language, **Journal of Japanese R&D Consultants Association**, June 1997, pp 38-47.

49. K. Kurihara, J. G. Conley, Y. Imagawa and J. K. Olsen, *Development of a small 4-cycle Engine for Hand Held Trimmers*, Published in Japanese Language, **Japan Land Engine Manufacturers Association**, Paper #446. Jan. 28, 1997.

50. K. Kurihara, J. G. Conley, Y. Imagawa and J. K. Olsen, *Development of Valve Train of Small 4-Cycle Engine for Hand Held Power Equipment Applications*, Published in Japanese Language, **Japan Land Engine Manufacturers Association**, Technical Paper #447, Jan. 28, 1997.

Books

51. W. Wang, J.G.Conley and H.W. Stoll, *Rapid Tooling Guidelines for Sand Casting*, SpringerLink Publications, March 2010. Available on line at http://www.springerlink.com/content/978-1-4419-5730-6

52. *Modeling of Casting, Welding and Advanced Solidification Processes*, edited by Peter R. Sahm, Preben N. Hansen, and James G. Conley, TMS Publications, 2000.

Chapters in Books

53. E. G. Nichols and J. G. Conley, *An Airframe Design Perspective on Casting Process Simulation*, published in proceedings of **Simulation 2000, Ninth Conference on the Modeling of Casting, Welding and Solidification Processes**, August 20-25, Aachen, Germany, P. Sahm, P. Hansen, and J. G. Conley Editors, TMS Publications, 2000**.**

54. J.G. Conley and J. Huang *Benchmarking Experiments for Permanent Mold Aluminum Alloy A356 Castings*, **in Modeling of Casting, Welding, and Solidification Processes, VIII**, B.G. Thomas and C. Beckermann eds., TMS, June, 1998, pp. 1225-1240. **PEER REVIEWED.**

55. J. Huang and J.G. Conley, *Modeling of Microporosity Evolution During Solidification Processes*, in **Modeling of Casting, Welding, and Solidification Processes, VIII**, B.G. Thomas and C. Beckermann eds., TMS June, 1998, pp. 865-872. **PEER REVIEWED**.

55. J. Huang, P. Callau, and J.G. Conley, *A Study of Neural Networks for Porosity Prediction in Aluminum Alloy A356 Castings*, in **Modeling of Casting, Welding, and Solidification Processes, VIII**, B.G. Thomas and C. Beckermann eds., TMS , June,1998, pp. 1111-1118. **PEER REVIEWED.**

56. P. C. Hsing, J. G. Conley and H. S Cheng, *Experimental Analysis of the Long Term Wear Results in a Four Stroke, Single Cylinder, Spark Ignition Engine*, in **New Developments in Engine Design, Aspiration and Lubrication,** ASME-ICE Division 1998 Spring Technical Conference, pp. 59-66. **PEER REVIEWED.**

57. J. Huang and J.G. Conley, *Modeling of Microporosity Evolution During Solidification Processes*, in **Review of Progress in Quantitative Non-Destructive Evaluation**, Volume 17B, pp. 1839-1846. **PEER REVIEWED**

58. J. G. Conley et al, *The Optimization of a 26.2 cc, OHV, 4-cycle Engine Aspiration System to Achieve 1999 CARB Emissions Standards*, published in**, <u>Design, Modeling and Emissions Control for Small Two and Four Stroke Engines</u>**, SAE Monograph SP-1195, August 1996, pp.67-75. **PEER REVIEWED.**

59. H. Omura, T. Miyoshi, Y. Takahashi, J. G. Conley, and M. Yodogawa, *Dispersion of NiAl Intermetallic Compound and Si_3N_4 in Die Castings for Increased Wear Resistance*, in **Dispersion Strengthened Al Alloys**, Y. W. Kim and W. Griffith eds., AIME Publishing: Warrendale, PA. (1988).

60. N. Nishi, S. Kami, Y. Takahashi, H. Komoto, and J. G. Conley, *The Mechanical Properties of Al-Ni-Mg and Al-Mn-Mg Die Casting Alloys*, in **Dispersion Strengthened Al Alloys**, Y. W. Kim and W. Griffith eds., AIME Publishing: Warrendale, PA. (1988).

61. J. G. Conley, P. V. Kelsey and D. V. Miley, *Investigations of the Properties of Iron Enriched Basalt*, in **Advances in Ceramics Volume 8: Nuclear Waste Management**, G. G. Wicks and W. A. Ross eds., American Ceramic Society: Columbus, Ohio (1984), pp. 302-309. **PEER REVIEWED.**

Conference Proceedings and Technical Papers

62. J. G. Conley and R. W. Wolcott, *Scaling from Prototype to Production: A Managed Process* at the NSF/Dept. of Ed. sponsored conference addressing "Conceptualizing Scale-up: Multidisciplinary Perspectives" held November 3rd and 4th, 2003 in Washington D.C. This conference was organized by the Data Research and Development Center at the University of Chicago.

63. W. Wang, J. G. Conley and H. W. Stoll, *Dimensional Variability Analysis in Post-Processing of Rapid Tooling,* **Proceedings of the 9th Solid Freeform Fabrication Symposium**, UT Austin, August 10-12, 1998.

64. K. Kurihara, L. S. Suchdev, and J. G. Conley, *Emissions Reduction of a Small 4-Cycle Engine for Hand Held Trimmers,* **Proceedings of Japan Society of Mechanical Engineers Annual Meeting**, 3/31 - 4/3/98, Tokyo, Japan, pp. 533-534.

65. W. L. Wang, J. G. Conley, *Stochastic Models for Manufacturing Systems*, published in the **Proceedings of the 23rd International Conference for Computers and Industrial Engineering**, Chicago, IL, March 29 ~ April 1, 1998.

66. K. Kurihara and J. G. Conley, *Design Considerations for Overhead Valve Train in Small High Speed 4-Cycle Engines,* published jointly by SAE (Paper #972101) and Japan Society of Automotive Engineers (Paper #9734340) in **Proceedings of Small Engine Technology Conference**, Yokohama, Japan, 1997.

67. J. G. Conley, J. Santner and T. Piwonka, *Engineering Issues in the Use of Premium Quality Airframe Castings in Commercial Aviation.* **Proceedings of NSF Institute of Mechanics and Materials Workshop** held July 19 and 20, 1996, University of California at San Diego.

68. J. G. Conley and D. M. Asher, *Team Management Practices and Development of the AC 4-cycle Engine*, published in **Proceedings of Impro '96**, Juran Institute , Wilton , Connecticut, 1996.

69. J. G. Conley, *Experience with the Selection of Prototyping Techniques during the Rapid Development of a Commercial 4-Cycle Engine*, in **Proceedings of The First World Congress on Intelligent Manufacturing Processes & Systems**, University of Puerto Rico at Mayagues, February 13-17, 1995, pp. 1263-1270.

70. H. Omura, T. Miyoshi, Y. Takahashi, J. G. Conley and M. Yodogawa, *The Development of Die Cast Metal Matrix Composites for Tribological Applications*, **in Proceedings of 1988 MRS International Meeting on Advanced Materials**, May 29 to June 2, 1988, Tokyo, JAPAN. MRS Publishing: Pittsburgh, PA (1989).

71. J. G. Conley, J. R. Weertman, and M. E. Fine, *Phase Transformation of Gamma Prime Precipitates in Ni-Al-Mo Alloys*, in **Proceedings of Phase Transformation '87,** July 10 - 14, Cambridge, England. Institute of Metals: London, England (1988**).**

Working Papers

72. H. Ernst, J. G. Conley and N. Omland, *Antecedents of Patent Management Proficiency and its Impact of Firm Performance*, under review.

73. H. Ernst, J. G. Conley and N. Omland, *The Contingent Nature of Firm's Patent Strategies and their Impact on value Creation through Patents*, under review.

WRITINGS/PEDAGOGICAL MATERIALS DEVELOPMENT

Case Studies/Teaching Supplements (Authored, Edited, Supported/Guided)

1. *Intellectual Property: The Ground Rules*, Kellogg Technical Note, distributed through HBS, version 1.0, September 2005, w/ David Orozco. Updating Spring 2012

2. *Rapid Product Realization through Integration: The INCS Path to Market*, Kellogg Technical Note, October 2007, w/ co-authors.

3. *Innovation and Invention: A guide to Patents for Engineers and Managers*, Kellogg Technical Note, distributed through HBS, version 1.0, October 2007, w/ David Orozco. Updating Spring 2012

4. *The Zen Patent: Apple v. Creative* Kellogg Case Series, Version 2.1, 12/2006, distributed through HBS, Case Documents, Teaching Note, Powerpoint slides, J. G. Conley editor.

5. *Ttools A: The Value of a Patent to the Entrepreneur*, Kellogg Case Series, distributed through HBS 12/2006, Case Documents, Teaching Note, Powerpoint slides, J. G. Conley editor.

6. *Ttools B: The Value of a Patent to the Entrepreneur*, Kellogg Case Series, distributed through HBS 12/2006, Case Documents, Teaching Note, Powerpoint slides, J. G. Conley editor.

7. *3M ESPE AG: Intellectual Property Strategy in the Dental Impressions Market*, Kellogg Case Series, distributed through HBS Version 2.1, 9/2006, Powerpoint slides, J. G. Conley editor.

8. *Astrazeneca, Prilose & Nexium*, Kellogg Case Series, Version 4.0, 11/2006, distributed through HBS Case Document, Teaching Supplement below.

9. *Ground Rules are not the Rules of the Game*, Teaching supplement to AZ, Prilosec and Nexium Cases Support, distributed through HBS.

RESEARCH GIFTS/ SPONSORED RESEARCH

Agency: National Science Foundation
Project Title: PIRE Intelligent Structural Health Management
Role: Project Personnel (PI is NU ME Prof. Sridhar Krishnaswamy)
Support Period: Sept. 1, 2007 to Aug 31st, 2012

Agency: Alexander Von Humboldt Foundation
Project Title: Integrated Marketing and Intellectual Property Management
Role: Principal Investigator w/ Holger Ernst application via WHU
Support Period: Sept. 1, 2008 to Aug 31st, 2011

Agency: INCS, Ltd.
Project Title: Rapid Tooling Process Analysis
Role: Principal Investigator
Support Period: September 1, 2006 to June 30, 2007

Agency: Motorola Inc.
Project Title: Motorola Research Scholars Program
Role: Principal Organizer
Support Period: March 1, 2002 to December 31, 2007

Agency: Walter P. Murphy Society, McCormick School of Engineering, Northwestern University
Project Title: Development of a course entitled "Innovation and Invention" for engr. students & tech. professionals
Role: Principal Faculty Investigator
Support Period: January 1, 2004 to December 31, 2008

Agency: Federal Aviation Administration via Iowa State CNDE and NU Center for Quality Engineering and Failure Prevention
Project Title: Design and Quality Assurance of Aerospace Castings
Role: Principal Investigator
Support Period: July 1, 1998 through December 31, 2002

Agency: NASA Marshall Space Flight Center via Packer Engineering/Packer Foundation
Project Title: Experimental Validation of Casting Simulations using a Low Gravity Environment
Role: Principal Investigator
Support Period: July 1, 1999 through September, 2001

Agency: Department of Defense, Logistics Agency via Advanced Technology Institute
Project Title: Short Run Production Tooling for Sand Casting Using Fast Free Form Fabrication
Role: Principal Investigator
Support Period: January 1, 1997 through April 30, 2000

Agency: Chrysler Corporation Challenge Grant
Project Title: Tribology of Piston ring/liner combinations in Internal Combustion Engines
Role: Principal Investigator w/ Herb Cheng, Morris Fine and Tribology Center
Support Period: June 1, 1996 through December 30, 1998

Agency: NIST via IASTATE CNDE and NU Center for Quality Engineering and Failure Prevention
Project Title: Design, NDE and the Manufacturing Sciences
Role: Principal Investigator
Support Period: January 1, 1996 through January 30, 1999, ongoing

Agency: National Science Foundation
Project Title: Design and Microstructural Characterization of Near Net Shape Aluminum Alloys
Role: Principal Investigator
Support Period: April 1, 1997 through March 30, 2000

STUDENTS AND COLLABORATORS:

Research Graduate Students (Management):

1. **Joshua Polhans,** MGMT441, TMP Student Independent Study, Spring 2012
2. **Deepak Ponnavolu,** MMM Integration Project, Independent Study Winter 2012
3. **Siddharth Kawoor,** MMM Integration Project, Independent Study Winter 2012
4. **Guillermo Olivera** MMM Integration Project, Independent Study Winter 2012
5. **Jorge Schwoelk**, MMM Integration Project, Independent Study Winter 2012
6. **Jason Chou,** MGMT 499, STMP Student Independent Study, Summer 2011
7. **Christie Shan,** MMM Integration Project, Independent Study Winter 2011
8. **James McMicking,** MMM Integration Project, Independent Study Winter 2011
9. **Julie Baron,** MMM Integration Project, Independent Study Winter 2011
10. **Angela Cheung,** MMM Integration Project, Independent Study Winter 2011
11. **Jacob Bradbury,** Motorola Scholar, TECH499 Independent Study Spring and Fall 2008
12. **Rob Demento,** Motorola Scholar, TECH499 Independent Study Spring and Fall 2008
13. **Steven Frayne,** TECH499 Independent Study Spring 2009 and Summer 2009
14. **Remi Grosjean,** TECH499 Independent Study Fall 2007 and Winter 2008
15. **Brian Boroff,** Motorola Scholar, TECH499 Independent Study Spring and Fall 2007
16. **Sergi Perez Lerin,** Motorola Scholar, TECH499 Independent Study Spring and Fall 2007
17. **Matt Littell,** MMM Entrepreneurship Project, Independent Study Winter 07.
18. **Ben Nimmergut,** MMM Entrepreneurship Project, Independent Study Winter 07.
19. **Jeffrey K. Uhrig,** MMM Entrepreneurship Project, Independent Study Winter 07.
20. **Joni Carswell,** MMM Entrepreneurship Project, Independent Study Winter 07.
21. **Ryan Lisiak,** MMM Entrepreneurship Project, Independent Study Winter 07.
22. **Lisa Nagatoshi,** Motorola Scholar, Independent Study Spring and Fall 2006
23. **Ben Toronto,** Motorola Scholar, Independent Study Spring and Fall 2006
24. **Andrew Levy,** TMP student, Independent Study, TECH499 Spring 2006
25. **Andrew Cromey,** Motorola Scholar, Independent Study Spring and Fall 2005
26. **Inderpal Singh,** Motorola Scholar, Independent Study Spring and Fall 2005
27. **Owen Tatsuta,** Independent Study TECH499, Spring '05.
28. **Andreas Pecher,** MMM Entrepreneurship Project, Spring 05.
29. **Raymond Chen**, MMM Integration Project, Independent Study Winter 2005
30. **Michelle Kong**, MMM Integration Project, Independent Study Winter 2005
31. **Andre Davis**, MMM Integration Project, Independent Study Winter 2005
32. **Manish Mahajan**, MMM Integration Project, Independent Study Winter 2005
33. **Geoffrey Nudd,** Motorola Scholar, Independent Study Spring and Fall 2004
34. **G. "Steve" Wang,** Motorola Scholar, Independent Study Spring and Fall 2004
35. **Vikram Talada**, MMM Integration Project, Independent Study Winter 2004
36. **Vineet Agrawal,** MMM Integration Project, Independent Study Winter 2004
37. **Joonhorng Lee,** MMM Integration Project, Independent Study Winter 2004
38. **Miki Kawahara,** MMM Integration Project, Independent Study Winter 2004
39. **Prakesh Changrasekar,** MMM Integration Project, Independent Study Winter 2004
40. **Ian Vacin**, MMM Entrepreneurship Project, Winter 2004
41. **Willie F. Harbert**, MMM Entrepreneurship Project, Winter 2004
42. **Farrokh Batliwala,** MMM Entrepreneurship Project, Winter 2004
43. **Fang-Kuey Chang,** MMM Entrepreneurship Project and TECH independent study, Winter 2004
44. **Zubair M. Zecarius,** WHU EMBA Thesis on the Three lives of the Aspirin brand, Summer 2003, primary advisor
45. **Kartik Natarajan,** Motorola Scholar, Independent Study Spring and Fall 2003
46. **Prasanna Vinjamuri,** Motorola Scholar, Independent Study Spring and Fall 2003
47. **Carsten Sambraus,** WHU EMBA Thesis on Mass Customization at 3M Europe, Summer 2002, primary advisor
48. **Dr. Frank Gonser,** WHU EMBA Thesis on Marketing and IP Strategy in German Dental Products Industry, Winter 2002, primary advisor
49. **Joachim Schmidt,** WHU EMBA Thesis on Intellectual Capital Management/Knowledge Management in German Firms, Summer 2002, primary advisor
50. **Shantaram Jonalogadda,** Motorola Scholar, Independent Study Spring and Fall 2002
51. **Andrew Bockelman,** Motorola Scholar, Independent Study Spring and Fall 2002
52. **Eric Victory,** MMM Integration Project, Independent Study Winter 2002

53. **Jayanthi Goli,** MMM Integration Project, Independent Study Winter 2002
54. **Matt Courson,** MMM Integration Project, Independent Study Winter 2002
55. **Tiffany Schad (Lt. Commander USN),** MEDS Independent Study, Fall 2001
56. **Eric Wong,** NU Center for BioTechnology, MEDS Independent Study, Spring 2001
57. **Geetha Krishnan,** NU Center for BioTechnology, Independent Study, Spring/Summer 2001
58. **Linda Fitzpatrick,** MMM Integration Project Winter 2001, MEDS Independent Study
59. **Nadeem Ghani,** MMM Integration Project Winter 2001, MEDS Independent Study
60. **Jeri-Beth Richards Ward,** MMM Integration Project Winter 2001, MEDS Independent Study
61. **Stephen Chesna,** MMM Integration Project Winter 2001, MEDS Independent Study
62. **Kenya Takeda,** MMM Integration Project Winter 2001, MEDS Independent Study

Post-Doctoral & Pre-Doctroal Students/Visiting Scholars (Engineering and Management):

1. **Mr. Peter Bican**, Ph.D. student WHU, Visiting pre-doctoral student, Spring-Fall 2011
2. **Dr. Emilia Peuhu,** CRTI Visiting Scholar, Winter Spring 2011
3. **Dr. Anders Bjorkbom,** CRTI Visiting Scholar, Winter Spring 2011
4. **Dr. Alexander Krasnikov,** CRTI Visiting Scholar, 2007-2011, now Asst. Professor at GW University
5. **Mr. Alexander Goetz**, Ph.D. student WHU, Visiting pre-doctoral student, Summer 2009
6. **Mr. Michael Schramm**, Ph.D. student WHU, Visiting pre-doctoral student, Summer-Fall 2009
7. **Dr. Ulrich Lichtenthaler,** CRTI Visiting Scholar, Summer 2008 recently promoted to Full Professor w/ chair @ WHU
8. **David Orozco, esq. Juris Doctor,** CRTI postdoctoral student, 1/2005 to 7/2007, summer 2008 and Summer 2009, now Asst. Professor of Business Law at MTU,
9. **Mr. Tomoaki Nakanishi, Juris Doctor,** now MITI Japan Deputy Director, visiting scholar 9/2006 to 7/2007
10. **Dr. Robert Wolcott,** Innovation Research, 7/2001 to 8/2004
11. **Dr. P. C. Hsing,** IC Engine/Tribology Research, 6/96 to 12/98
12. **Dr. Wanlong Wang,** Layered Manufacturing/Tooling research, 8/97 to 4/01
13. **Dr. Yao Chen,** Aerospace foundry process research, 5/2001 to 5/2002
14. **Professor Dr. Holger Ernst,** WHU Koblenz, CRTI Visiting Scholar, July 2001, August 2002, August 2004, September 2005 to Feb 06, Plans to return for 3 month sabbatical in 2010.
15. **Professor Tsutomu Mori,** of the Tokyo Institute of Technology, 1/98 to 9/98
16. **Professor LIU, Baicheng,** Tsinghua University, 10/98 to 4/99

Past Research Graduate Students (Engineering):

1. **Joe Asada,** Mech. Engr. Ph.D. successfully defended 11/00, sponsored by parent company Ryobi Limited, Ph.D subject, modeling of defects in cast Al alloys, primary advisor
2. **Julie Huang**, Mech Engr. Ph.D. Defended successfully 10/98, MS in Mech. Engr. 12/95. Julie was awarded a Dissertation Year Graham Fellowship by Northwestern University and received an NSF/MITI Japan Research Fellowship in 1997, primary advisor
3. **Xuefeng Bai**, ME MS 2001, primary advisor.
4. **Ayahuda Glenardi,** MS in Mechanical Engineering, 11/2000, primary advisor
5. **Stephane Bordas,** ME Ph.D. December 2002, committee member.
6. **Ali Zulfiqar,** ME Ph.D. December 2001, committee member.
7. **Roberto Mendoza,** Mat. Sci. and Engr. Ph.D. Candidate, March 2002, committee member.
8. **Chris Scherpereel,** IEMS Ph.D. successfully defended 11/01, committee member, recently propoted to Tenured Professor w/ chair).
9. **Rob Wolcott,** IEMS Ph.D. 5/2002, committee member.
10. **Vicki Snyder,** Mat.Sci and Engr. Ph.D. successfully defended 5/01, committee member.

INTERNATIONAL R&D COLLABORATIONS:

- Formal collaboration between WHU and Kellogg on subject of innovation and intellectual property began in 2001 w/ WHU Chair of Innovation Management, Prof. Dr. Holger Ernst. This collaboration is seeking the support of the Volkswagen Foundation.

- Informal case writing collaboration between Keio Business School in Japan (Professors Okumura and Obayashi) and the Kellogg Center for Research on Technology and Innovation.
- Formal collaboration with MAGMAsoft, the global leader in commercial casting software development and sales. My group is developing the defect models that they may write into the code. This collaboration dates back to 1994 and is supported by MAGMAsoft.

TEACHING

New **Kellogg School of Management** MM/TMP/MMM Courses Developed since 01/2000

- MKTG 464 A&B, ***Product Design and Marketing*** MM/TMP Course that explores convergence of design methods and marketing research to realize "Design thinking". Case studies explore packaging and product configuration challenges for marketers in contexts such as retail, pharmaceuticals and beverage markets. Lecture, Case Studies, Final exam. Alpha offering Fall 2009.

- MGMT 441, formally TECH441, ***Intellectual Capital Management***. MM/TMP Course designed to explore how innovation intangibles asset byproducts such as intellectual properties can be strategically managed in both local and global markets . TECH 441 counts towards following majors: Entrepreneurship & Innovation, Health Enterprise Management, International Business (affiliate) , MMM/MEM design track, Managerial Economics, Technology Industry Management and Biotechnology. Lecture, Case Studies, Midterm, Final project. Alpha offering winter 2001. Note that variants of this course are taught in the Kellogg/WHU and Kellogg/Recanati HTMS and Kellogg /York Univ. Schulich Intl. Executive MBA Programs and in the EMP program.

- TECH919, ***Innovation Process Management***. MM/TMP Course examines the process of product/service design and development with some emphasis on how traditional approaches to product development are impacted by the growth of information technology. Lecture, Case Studies, Guest Speakers, Midterm, Final project. Alpha offering Fall 2000, Beta Fall 2001. A variant of this course was taught at KEIO university in summer of 2002.

Kellogg Continuing Education (Allen Center and other Kellogg Center Programs)

- ***Managing New Products and Services for Strategic Competitive Advantage.*** all offerings (3-4/year) since Fall 1999, JGC Co-Academic Director.
- ***Kellogg Executive Development Program,*** November 2010
- ***Kellogg Management Institute (KMI),*** Spring 2007 and Spring 2008, Winter 2011
- ***Kellogg Allen Center Renaissance Program,*** Spring 2007 and Spring 2008
- ***Kellogg Biotech Center offering "University Leadership" to NU Faculty (non-Kellogg),*** February 2009, 2010, 2011
- ***Kellogg Biotech Center offering "Business for Scientists" to NU Faculty (non-Kellogg),*** February 2008.
- ***Kellogg Biotech Center offering "Business for Scientists" to Johns Hopkins University Medical Faculty,*** May 2007.
- ***Kellogg Biotech Center offering "Business for Scientists" open enrollment,*** April 2011, 2012.
- ***WHU international MBA module at Kellogg,*** November 2006-2012
- ***Sasin Executive MBA international module at Kellogg,*** Spring, 2007 & Spring 2008
- ***Sasin international MBA module at Kellogg,*** August 2006, 2007
- ***Nyerode international MBA module at Kellogg,*** July 2006, 2007
- ***FDC/STC Brazil Kellogg Summer Program,*** all offerings since 2004
- ***Kellogg Healthcare Management program,*** Fall 2005 to present
- ***Managing Product Design and Development,*** McCormick MPD Program CE offering, March, October 2006 to present

- ***Management of Intellectual Property,*** Kellogg Center for BioTechnology Program/WIPO program, 2005 to present
- ***Kellogg Information Systems 2002 Academic Retreat.*** J. G. Conley designed a custom offering on innovations and NPD for the KIS staff.
- ***Institute of Finance Executives Program .*** May 2001
- ***National Minority Suppliers Development Council Executive Development Program,*** all offerings here and elsewhere since June 2000.
- ***Winning Strategies for eBusiness.*** 1999 to 2002.
- ***Nokia/Beijing University Executive Development Program.*** J. G. Conley faculty, July 2000
- ***NU Transportation Center Management Development Program,*** J. G. Conley faculty, June 2000
- ***Sasin Chulalongkorn Visiting MBA Class,*** J. G. Conley faculty, June 2000
- ***Honeywell Executive Development Program.*** J. G. Conley faculty, June, August 2000

McCormick School of Engineering Courses Developed

- DSGN 350, ***Innovation and Invention***: 10 week course on how the patent system and other forms of intellectual property enable, inform and empower inventors such as engineers, designers and scientists. This is an educational offering to engineering students that is unique to the NU learning experience. Alpha offering 2004, Beta 2006, Gamma 2007. Delta Winter 2009

- MPD 458, ***Intellectual Capital Strategy for Product Development:*** Graduate Course for NU MPD Program designed to build fundamental understanding of how the intellectual property systems maybe used to build sustainable competitive advantage in markets for discrete products. Lecture, Case Studies, exam Offered each Winter Q since 2004 to all MPD graduate students classes. This course voted best of curriculum in initial year of MPD program, 2004 and again in 2007.

- IEMS497-05, ***Rapid Product Innovation for Manufacturing Managers***. Five week course on the role of rapid product realization technologies in sustaining innovation and developing strategic competencies in a manufacturing enterprise. This course developed specifically for McCormick/Kellogg MMM Program. JGC also developed and published first MMM program specific case study for this course.

- IEMS497-15, ***Intellectual Property Strategy for Manufacturing Managers***. Five week course on product design strategy and the role of Patents, Trademarks, Trade Names, Trade Secrets, Copyrights and other forms of Intellectual Capital for the manufacturing enterprise. This course developed specifically for McCormick/Kellogg MMM Program.

Other Mechanical Engineering Courses Taught

- ME D40, ***Product Design***. MMM graduate program course team taught w/ H. W. Stoll and D. Frey
- MEB40, ***Introduction to Design and Manufacturing***, taught w/ W.R.D.Wilson
- *Design for Manufacturability,* C480 Team taught w/ Henry Stoll.
- *Prototyping and Tooling for Rapid Product Development,* C490
- *Product Design***,** part of NU McCormick Executive Briefings for Managers of Technology series.

ACADEMIC COMMUNITY/PROFESSIONAL SERVICE ACTIVITIES

Kellogg School of Management

- Kellogg Faculty Advisor JDMBA program, January 2012 – present
- Speaker, Chicago Innonvation Awards Practical Innovator Day at Kellogg, 2009-2011
- Host Faculty, Kellogg Admissions Office class visitors program, TMP and FT, every year, every quarter that I teach.
- Day at Kellogg course speaker, 3/31 – 4/1/06, 07, 09, 2010
- Guest Speaker, GIM Trip Japan Clases winter Q 2009-12, 2008, 2003- 2006 also assisted students in defining and developing their field research objectives.
- Guest Speaker, GIM Trip China Clases Summer Q 2009, Winter Q 2008 and Winter Q 2009 also assisted students in defining and developing their field research objectives.
- Featured Faculty speaker, Kellogg/WHU alumni event, December 3rd, 2009 Hamburg, GERMANY
- Panel organizer and Moderator, Kellogg Centennial Conference, Miami, January 12, 09
- Luncheon Speaker for Kellogg biotech Faculty lunch series, Winter 08
- Panel Moderator for Kellogg Fall 07 Leadership Conference
- Panel Moderator for Kellogg Spring 07 Tech Conference
- Panel Moderator for NU Law School Student Conference, January 06
- Panel Moderator for Kellogg 05 Private Equity Conference
- Panel Moderator for Kellogg 05 Asian Business Conference
- Panel Moderator for Kellogg 05 MMM Manufacturing Conference Spring 2005 (and Spring 2004)
- Faculty Judge, MMM Design Fair, SpringQ 2002 through 2007
- Featured Faculty speaker, Kellogg Alumni Club of Zurich, January 2005,
- Featured Faculty speaker, Kellogg Alumni Club of Tel Aviv, June 2004,
- Featured Faculty speaker, Faculty speaker, Kellogg Alumni Club of Brussels, October 2003,
- Featured Faculty speaker, Kellogg Alumni Club of Japan, July 2002
- At request of CMC, I meet with recruiters from various companies who would like to "chat with faculty about course content"
- Faculty Judge, IBM Case Competition, High Tech Club, Fall Quarter 2003
- Panel Moderator, Kellogg Marketing Conference Spring 2003.
- Primary research sponsor/advisor to US Navy e-Business Operations Office Summer 2001 intern Lt. Cmdr. Tiffany Schad (KSM class of 2002). This recent graduate career Naval Officer was in a position of considerable importance inside the USN, trying to integrate and or stream line a number disparate legacy information systems/databases used to supply the extended Navy/Marine fleet and air operations. Sensing an opportunity, I agreed to guide her research. This initial inquiry led to serious questions about ERP solutions etc. for a globally extended enterprise and spawned a USN sponsored research program for Kellogg faculty member Mark Jeffery.
- Advisor to MMM CY 2001 Entrepreneurship project team that sought intellectual property protection for their innovations.
- Advisor to numerous other Kellogg students and staff seeking to understand more about using intellectual property to protect/leverage their investment in knowledge offerings.
- Advised Kellogg academic visitors and or entrepreneurs who were seeking advice on Intellectual Capital/ curriculum issues and or business strategy matters in general.

Selected Service to Northwestern University Community

- Kellogg School representative on Northwestern University Intellectual Policy Committee, AY 08
- Chair's Advisory Board, Northwestern University McCormick School Materials Science and Engineering Department, 2003 to present.
- Manufacturing and Design Engineering Advisory Board, McCormick School, 2002-present.
- ITEC/NU Incubator Panel Moderator, Fall 2002

Selected Service beyond Northwestern University Community

- Trademark Public Advisory Committee (TPAC) member, United States Department of Commerce Patent and Trademark Office, August 2008 to August 2009; reappointed to serve September 2009 to September 2012
- Principal Organizeer, United Nations World Intellectual Property Organization Academy Summer 2008 workshop on Intellectual Property Management Education and Research, Geneva.

- Session Chair and Discussant, Academy of Management Meeting Summer 2007
- FAA-Industry Workshop Series Organizer, Design of Safety Critical Components in Commercial Aircraft, July 1999 Chicago, February 2000 Long Beach, CA, October 2000 Seattle WA, November 2001 Chicago, October 2002 Wichita, KS.
- Co-Organizer, and member of Steering Committee, Ninth International Engineering Foundation Conference on the Modeling of Casting, Welding and Solidification Processes, August, 2000, Aachen, GERMANY
- Member, Casting Design Reviews Committee, DOE USAMP LMD Design Optimization Program.
- Organizer, 1999 IMECE Symposium on Advances in the Engineering of Castings
- Session Chairman, NSF-IMM Symposium on Micromechanical Modeling of Industrial Materials, July 1998, Seattle, Washington.
- Session Chairman, Eighth International Engineering Foundation Conference on the Modeling of Casting, Welding and Solidification Processes, June 1998, San Diego, CA.
- Invited Panelist, American Foundrymen's Society 105th Congress, April 1997
- Outside Reviewer, US Department of Education FIPSE sponsored "Invention Center" at Illinois Institute of Technology, Professor Francisco Ruiz, PI., 1996 to 1999.
- National Science Foundation Panel Review participant, 1995, 1996, 1998, 1999; Mail reviewer 1998, 1999
- Principal Organizer, NSF/Institute of Mechanics and Materials Workshop on Aerospace Castings, July 1996

Selected Professional Society Membership/Service Activities

- **The Strategic Management Society (SMS)**, 2004 to present
- **Academy of Management**, 2005 to present
- **American Society for Engineering Education,** 1997 to present
- **Society of Automotive Engineers (SAE)**, 1984 to present
- **The Metallurgical Society (TMS) of AIME**, 1986 to 1999
- **Rapid Prototyping Association** of Society of Manufacturing Engineers 1994 to 1999
- **American Alpine Club (AAC)** 1990 to present (nominated to membership by John Ebert)

Academic Journal Review Service Activities

- Independent Reviewer, World Patent Information Journal, October 2009 to present
- Independent Reviewer, NANO Journal, Inaugural Issue, July 2006
- Independent Reviewer, ASEM/ASME Journal of Engineering Management
- Member, International Scientific Review Committee, Ninth International Engineering Foundation Conference on the Modeling of Casting, Welding and Solidification Processes, October, 2000, Aachen, GERMANY
- Independent Reviewer, Transactions of the American Foundry Society
- Independent Reviewer, Materials Science and Engineering A
- Served as Principal organizer and Editor, Proceedings of IMM/NSF Workshop on Engineering Issues in the use of Castings in Commercial Aviation, #96-13. This proceedings has become one of the most popular publications in history of the Institute of Mechanics and Materials

CONSULTING:

Consultant and trainor in a number of Innovation and or Intellectual Property contexts. Clients include Elevance Renweable Sciences, Caterpillar, SABIC, SONY Corporation, Samsung Electronics, E. I. du Pont de Nemours and Company, American Dairy Council, Honda Motors, Briggs and Stratton, Black and Decker Consumer Products Division, University of Wisconsin Alumni Research Foundation (WARF), Amsted Industries, Polaris Industries, OpenText, Inc., Eaton Corporation, NASA, US Defense Logistics Agency, The Federal Aviation Administration, Donnelley Corporation, MOTOROLA, Peabody Western Coal, Mercury Marine, Hawthorne Partners, Bar Technologies Inc., Walbro Engine Management Systems, Stihl Inc., Raychem, and the Ryobi Group of Companies.

OTHER DATA Conversational in Japanese language and business practices, Black belt in Kodokan JUDO, Member Japan National JUDO Academy, Accomplished mountaineer/alpinist.

ADDITIONAL DATA AVAILABLE UPON REQUEST **March 30, 2012**