



– *Curriculum Vitae Paul Wright* –

EDUCATION

Ph.D. Metallurgy, University of Birmingham, England (1971)

B.Sc. Metallurgy, University of Birmingham, England (1968)

PROFESSIONAL EXPERIENCE

The University of California, Berkeley, Berkeley, CA

Director of the Berkeley Energy and Climate Institute (2013 – present)

- The A. Martin Berlin Chaired Professor, Mechanical Engineering (joined Berkeley in 1991)
- Institute Director and Chaired Professor, Center for Information Technology Research in the Interest of Society (CITRIS), University of California at Berkeley, U.C. Davis, (including its Medical Center campus in Sacramento), U.C. Santa Cruz, and U.C. Merced (2007-2014)
- Affiliated Faculty Member, Energy Resources Group (since 2006)
- Founder and Co-Director, Berkeley Manufacturing Institute (since 2001)
- Co-Director, Berkeley Wireless Research Center (since 1999)
- Associate Dean, College of Engineering (1999–2005)
- Co-Chair, Management of Technology program (1995–2005)

The Courant Institute of Mathematical Sciences, New York University, New York, NY

- Professor, Computer Science (1987–1991)
- Director, Robotics & Manufacturing Research Laboratory (1987–1991)

Carnegie-Mellon University, Pittsburgh, PA

- Professor, Mechanical Engineering (1979–1987)
- Co-Founder, Robotics Institute (1979–1987)
- Founder and Director, Flexible Manufacturing Laboratory (1979–1987)

The Cavendish Laboratory, University of Cambridge, England, Research Associate in Physics (1978–1979)

Department of Mechanical Engineering, the University of Auckland, New Zealand, Senior Lecturer (1975–1978)

Department of Scientific and Industrial Research, New Zealand Government, Auckland, New Zealand, Research Engineer (1972–1975)



HONORS

- Member, National Academy of Inventors, 2016
- Visiting Professor, Imperial College, London, England, 2015 - present
- SAGE Best Paper of the Year, in the Journal of Mechanical Engineering Science, 2013
- Member, National Academy of Engineering, 2007
- Life Time Achievement Award, American Society of Mechanical Engineers, 2008
- NAMRI/SME S. M. Wu Research Implementation Award, 2007
- Visiting Professor, Loughborough University, England, 2005 - present
- ISLEPD Best Paper Award, 2003
- Best Paper Award, Computers and Information in Engineering Conference, 2002
- Eugene M. Merchant Book of the Year Award, Society of Manufacturing Engineers, 2001
- The A. Martin Berlin Chair, 1998 - present
- Fellow, American Society of Mechanical Engineers, 1994
- Fellow, Society of Manufacturing Engineers, 1992
- Blackall Machine Tool and Gauge Award, American Society of Mechanical Engineers, 1984
- Ralph J. Teetor Award, Society of Automotive Engineers, 1982
- Outstanding Young Manufacturing Engineering Award, Society of Manufacturing Engineers, 1981
- George Tallman Ladd Award for Young Faculty, Carnegie-Mellon University, 1980
- Royal Society Commonwealth Bursary, Cambridge University, England, 1978

PROFESSIONAL and PUBLIC SERVICE

Memberships

- National Academy of Engineering
- National Academy of Inventors
- Fellow of the American Society of Mechanical Engineers (ASME)
 - North American Editor of the International Journal of Computer Integrated Manufacturing
 - Associate Editor, ASME Journal of Computing and Information Science in Engineering
 - Member, Materials Division
 - Member, Manufacturing Engineering Division
 - Member, Blackall Awards Selection Committee
 - Member, E.M. Merchant Award Selection Committee
- Fellow of the Society of Manufacturing Engineers
 - Member, Publications Committee
 - Member, Best Paper Selection Committee, NAMRI awards
 - Member, Selection Committee for F.W. Taylor medal

Professional activities

- Imperial College, London, England

- Visiting Professor in the Energy Futures Laboratory of the Faculty of Engineering at Imperial College, London, 2015 - present
- External Advisory Board of the *Digital City Exchange Research Project* funded by the UK Engineering and Physical Sciences Research Council, 2012 - present
- Cambridge University, England
 - External International Advisory Board (IAB) of CSIC, the *Cambridge Center for Smart Infrastructure and Construction*, 2011 - present
- Loughborough University, England, 2005 - present
 - Visiting Professor of Manufacturing and Design
- United Nations Industrial Development Organization (UNIDO)
 - Advisory Panel on *21st Century Manufacturing*.
- National Academy of Engineering Committees and Membership
 - Member, Manufacturing Studies Board, National Research Council
 - Committee on the *Review of NIST's Manufacturing Extension Program*.
 - National Research Council. *21st Century Manufacturing: The Role of the Manufacturing Extension Partnership Program*. Washington, DC: The National Academies Press, 2013.
 - Committee on *Space Based Additive Manufacturing*.
 - National Research Council, *3-D Printing in Space*. Washington, DC: The National Academies Press, 2014.
- Advisor to Lawrence Berkeley National Laboratory (LBNL)
- National Science Foundation
 - Panel reviews of proposals for the Division of Design and Manufacturing
- Advisor to California Energy Commission
 - Special Report for the California Energy Commission.
 - Report title "*Evaluation of the Consultant report: Assessment of piezoelectric materials for roadway energy harvesting, cost of energy and demonstration roadmap*"

Journal activities

Editorial Boards

- Editorial Board, Journal of Energy Harvesting Systems
- Editorial Board, Journal of Manufacturing Systems
- Editorial Board, International Journal of Manufacturing Engineering
- Editorial Board, Journal of Robotics and Computer Integrated Manufacturing
- Editorial Board, Journal of Mechanical Engineering Science
- Editorial Board, International Journal of Business Innovation and Research (IJBIR)
- Editorial Board, International Journal of Manufacturing Research
- Editorial Board, ASME Journal of Computing and Information Science in Engineering

1. BOOKS

1. N. Ota and P.K. Wright, “Residential Energy Management for a Carbon-Constrained World,” Published by VDM Verlag in 2008, ISBN 978-3-639-02050-2.
2. E. Reilly and P.K. Wright, “Modeling and Fabrication of a Thin Film Piezoelectric Energy Scavenging Device”, Published by VDM Verlag in 2008, ISBN 978-3-639-01152-4.
3. S. Roundy, P.K. Wright and J. Rabaey, *Energy Scavenging for Wireless Sensor Networks with Special Focus on Vibrations*, Kluwer Academic Publishers, published in 2004, 1- 212 pages, ISBN Number 1-4020-7663-0.
4. J. C. Wilson and P.K. Wright, “Safety, Rescue, and Emergency Response in a Post 9/11 World: Design and Experiment of Head-mounted Displays and New Technologies for Urban/Industrial Firefighting and Emergency First Response”, Published by VDM Verlag in 2008, ISBN 978-3-639-00474-8.
5. P.K. Wright, *21st Century Manufacturing*, Prentice Hall, Upper Saddle River, NJ. Published August 2001, 1-510 pages. ISBN Number 0-13-095601-5.

Also printed in Chinese – ISBN Number 986-412-004-2 -- Chinese Translation of *21st Century Manufacturing*, translated by J. Feng. Chinese translation also published by Tsinghua University Press (TUP) in Beijing.

Also printed in Korean – ISBN Number 978-89-5832-634-2 -- Korean Translation of *21st Century Manufacturing*, translated by Professor Sung Ahn, Seoul National University.

6. E.M. Trent and P.K. Wright, *Metal Cutting, 4th Edition*, Butterworth Heinemann, Newton MA, published January 2000, 1- 446 pages. ISBN Number 0-7506-7069-X.
7. P.K. Wright and D.A. Bourne, *Manufacturing Intelligence*, Addison-Wesley, Reading, MA. July 1988, 1-352 pages. ISBN Number 0-201-13576-0

2. REFEREED PUBLICATIONS

A. ARCHIVAL JOURNALS

8. R. Winslow, J. Keist, C. Orme, P.K. Wright and J.W. Evans, “Zinc-manganese dioxide battery systems demonstrating re-chargeability when using an ionic gel as the electrolyte” *Journal of Applied Electrochemistry*, In review.
9. Pit Pillatsch, E. M. Yeatman, A. S. Holmes and P. K. Wright, “Wireless Power Transfer System for a Human Motion Energy Harvester, *Sensors and Actuators A*, In review.
10. Q. Xu, L. Li, I. Paprotny, R. M. White, A. Fannjiang and P. K. Wright, “Reconstruction of Electric Currents from Distributed Magnetic Field Measurements: Theory and Applications,” *Journal of IEEE Transaction on Signal Processing*, In review.
11. C.T. Sherman, R. White and P.K. Wright, “Validation and Testing of a MEMS Piezoelectric Permanent Magnet Current Sensor with Vibration Canceling,” *Sensors & Actuators: A. Physical*, August 2016, to appear...
12. B. P. Lechene, M. Cowell, A. Pierre, J.W. Evans, P.K. Wright and A.C. Arias, “Organic solar cells and fully printed super-capacitors optimized for indoor light energy harvesting,” *Nano Energy*, Volume 26, August 2016, pp. 631–640
13. L.M. Miller, A.D. Elliott, P.D. Mitcheson, E. Halvorsen, I. Paprotny and P.K. Wright, “Maximum Effectiveness of Piezoelectric Energy Harvesters When Coupled to Interface Circuits,” *IEEE Sensors Journal*, Volume 16, Number 12, June 2016, pp. 4803-4815
14. J. Keist, C. Orme, P.K. Wright and J.W. Evans, “An *in situ* AFM Study of the Evolution of Surface Roughness for Zinc Electrodeposition within an Imidazolium Based Ionic Liquid Electrolyte,” *Electrochimica Acta*, Volume 152, 2015, pp.161 - 171.
15. Z. Wang, R. Winslow, D. Madan, J.W. Evans, P.K. Wright, M. Keif and X. Rong, “Development of MnO₂ Cathode Inks for Flexographically Printed Rechargeable Zinc-based Battery,” *Journal of Power Sources*, Volume 268, 2014, pp. 246 - 254.
16. Paprotny, I., C.G. Levey, P.K. Wright and B.R. Donald, “Turning-rate Selective Control: A New Method for Independent Control of Stress-engineered MEMS Microrobots.” *Robotics: Science and Systems VIII*, P. Newman, N. Roy, S. Shrinivasa (Eds.), 2014, pp. 321 – 328.
17. P.K. Wright, “Cyber-physical Product Manufacturing,” *Society of Manufacturing Engineers – Manufacturing Letters*, 2014, Volume 2, (2), pp. 49 – 53.
18. D. Madan, Z. Wang, A. Chen, R. Winslow, P. K. Wright and J. W. Evans, “Dispenser Printed Circular Thermoelectric Devices using Bi and Bi_{0.5} Sb_{1.5} Te₃,” *Applied Physics Letters* Volume 104, pp. 013902. (2014).
19. F.L. Burghardt, A.C. Waterbury, I. Paprotny, L.M. Miller, P. Minor, R. Send, Q. Xu, R.M. White, and P.K. Wright, “A Design Methodology for Energy Harvesting: With a Case Study on the

- Structured Development of a System to Power a Condition Monitoring Unit,” *Energy Harvesting and Systems*, 2014, Vol. 1 (1/2), pp. 101 – 112.
20. B. Hartmann and P.K. Wright, “Designing Bespoke Interactive Devices,” *Computer - IEEE Computer Society*, August 2013, Vol.46, (8), pp. 85 – 89.
 21. P.K. Wright, “Manufacturing Metropolises: design, fabrication and service” in “21st Century Manufacturing”, *United Nations Industrial Development Organization (UNIDO)*, 2013, pp. 67 – 85.
 22. D. Madan, Z. Wang, A. Chen, P. K. Wright and J, W. Evans, “High Performance Dispenser Printed MA p-type Bi_{0.5} Sb_{0.5} Te₃ Flexible Thermoelectric Generators for Powering Wireless Sensor Networks,” *ACS Applied Materials and Interfaces* Volume 5, 2013, 11872-11876.
 23. Q. Xu, I. Paprotny, M. Seidel, R.M. White and P.K. Wright, “Stick-on Piezoelectromagnetic Current Sensing AC Current Monitoring of Circuit Breaker Panels,” *IEEE Sensors Journal*, March 2013, Volume 13, No. 3, pp. 1055 - 1064
 24. I. Paprotny, Q. Xu, W.W. Chan, R.M. White and P.K. Wright, “Electromechanical Energy Harvesting from Current-Carrying Conductors,” *IEEE Sensors Journal*, January 2013, Volume 13, No. 1, pp.190 – 201.
 25. L.M. Miller, P. Pillatsch, E. Halvorsen, P.K. Wright, E.M. Yeatman, and A.S. Holmes, “Experimental passive self-tuning behavior of a beam resonator with sliding proof mass,” *Journal of Sound and Vibration*, December 2013, Volume 332, No. 26, pp. 7142 – 7152.
 26. R. Winslow, C.H. Wu, Z. Wang, B. Kim, M. Keif, J.W Evans, and P.K. Wright, “Development and manufacture of printable next-generation gel polymer ionic liquid electrolyte for Zn/MnO₂ batteries,” *Journal of Physics*, 2013, Volume 476, 1, pp. 012085 – 012090.
 27. Xu, Q., Seidel, M., Paprotny, I., R. M. White, and P. K. Wright, “Stick-on Piezoelectromagnetic AC current monitoring of circuit breaker panels,” *IEEE Sensors Journal*, March 2013, Volume 13, (3), pp.1055-1064.
 28. Waterbury, A.C., and Wright. P.K., “Vibration energy harvesting to power condition monitoring sensors for industrial and manufacturing equipment,” *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, June 2013. Volume 227(6): pp.1187-1202 (This paper won the SAGE Best Paper Prize in 2013 from the editorial board of the *Journal of Mechanical Engineering Science*).
 29. Deepa Madan, Zuoqian Wang, Alic Chen, Rei-cheng Juang, Paul K. Wright, James W. Evans, “Enhanced Performance of Dispenser Printed MA n-type Bi₂Te₃ Composite Thermoelectric Generators,” *ACS Applied Materials and Interfaces*, 2012, Volume 4, pp. 6117-6124.
 30. L. A. Weinstein, M. R. Cacan, P. M. So and P. K. Wright, “Vortex shedding induced energy harvesting from piezoelectric materials in heating, ventilation and air conditioning flows,” *IOP Journal of Smart Materials and Structures*, 2012, Volume 21, pp. 045003 – 045013.

31. A. Chen and P.K. Wright, "Medical Applications of Thermoelectrics" in *Modules Systems and Applications in Thermoelectrics*, 2012, Ch. 26, Edited by D.M. Rowe, ISBN: 978-1-4398-7472-1, (Boca Raton, CRC Press).
32. Z. Wang, A. Chen, R. Winslow, D. Madan, R.C. Juang, M. Nill, J.W. Evans, and P.K. Wright, "Integration of dispenser-printed ultra-low-voltage thermoelectric and energy storage devices," *Journal of Micromechanics and Microengineering*, 2012, Volume 22 (9), pp. 094001 – 094008 (The Journal chose to publish our device on the cover of Vol. 22).
33. P.K. Wright, D.A. Dornfeld, Z. Wang, A. Chen, R.C. Juang, J.W. Evans, "Printed Energy Storage: From Prototype to Large-scale Manufacturing," *Transactions of North American Manufacturing Research Institution of the SME*, Volume 40, 2012, Notre Dame, IN. pp. 681-688.
34. D. Madan, A. Chen, R.C. Juang, P.K. Wright, and J.W. Evans, "Printed Se-Doped MA *n*-type Bi₂Te₃ Thick-film Thermoelectric Generators," *Journal of Electronic Materials*, 2012, Volume 41, Number 6, pp. 1481 – 1486.
35. L.M. Miller, P. D. Mitcheson, E. Halvorsen and P.K. Wright, "Coulomb-damped resonant generators using piezoelectric transduction," *Applied Physics Letters*, 2012, Volume 100, pp. 233901-233905.
36. Z. Wang, P. Marcolongo, J.A. Lemberg, B. Panganiban, J.W. Evans, R.O. Ritchie, P.K. Wright, "Mechanical Fatigue as a Mechanism of Water Tree Propagation in TR-XLPE," *IEEE DEIS* Volume 19, 2012, pp. 321-330
37. D. Kong, S. Choi, Y. Yasui, S. Pavanaskar, D. Dornfeld, P. Wright, "Software-based tool path evaluation for environmental sustainability," *Journal of Manufacturing Systems*, 2011, Volume 30, (4) pp. 241 - 247.
38. Z. Wang, J.W. Evans and P.K. Wright, "Thermodynamics of Water Treeing," *IEEE Transactions on Dielectrics and Electrical Insulation*, 2011, Volume 18, pp. 840-846.
39. L.M. Miller, E. Halvorsen, T. Dong and P.K. Wright, "Modeling and experimental verification of low-frequency MEMS energy harvesting from ambient vibrations," *Journal of Micromechanics and Microengineering*, 2011, Volume 21, (4), pp. 045029–045041.
40. E. Reilly, F. Burghardt, R. Fain and P.K. Wright, "Powering a wireless sensor node with vibration-driven piezoelectric energy harvester," *Journal of Smart Materials and Structures*, December 2011, Volume 20, pp. 125006 – 125014, doi: 10.1088/0964-1726/20/12/125006
41. A. Chen, D. Madan, P.K. Wright, and J.W. Evans, "Dispenser-printed planar thick-film thermoelectric energy generators," *Journal of Micromechanics and Microengineering*, Sept. 2011, Volume 21 (10), pp. 104006-104014
42. T-T. Yen, T. Hirasawa, P.K. Wright, A.P. Pisano and L. Lin, "Corrugated aluminum nitride energy harvesters for high energy conversion effectiveness," *Journal of Micromechanics and Microengineering*, July 2011, Volume 21, pp. 085037-085046.

43. D. Maden, A.Chen, P.K. Wright and J.W. Evans, “Dispenser printed composite thermoelectric thick films for thermoelectric generator applications,” *Journal of Applied Physics*, 2011 (February), Volume 109, pp. 034904-1 to 034904-6.
44. C. Ho, J.W. Evans, and P.K. Wright “Energy Storage”, in S. Beeby, N. White, eds. *Energy Harvesting for Autonomous Systems*, 2010, Norwood MA, Artech House Publisher, Ch. 7, pp. 211 – 247
45. C.C. Ho, J.W. Evans and P.K. Wright, “Direct Write Dispenser Printing of a Zinc Microbattery with an ionic liquid gel electrolyte,” *Journal of Micromechanics and Microengineering*, October 2010, Volume 20, pp. 104009-104017.
46. P.K. Wright, D.A. Dornfeld, A. Chen, C.C. Ho, J.W. Evans (2010). “Dispenser Printing for Prototyping Microscale Devices” *Transactions of NAMRI/SME*, Volume 38, pp. 555-561.
47. E. K. Reilly and P. K. Wright, “Modeling, fabrication and stress compensation of an epitaxial thin film piezoelectric microscale energy scavenging device,” 2009, *Journal of Micromechanics and Microengineering*, Volume 19, page 095014 to 095024.
48. E. S. Leland, P. K. Wright and R. M. White, “A MEMS AC current sensor for residential and commercial electricity end-use monitoring,” 2009, *Journal of Micromechanics and Microengineering*, Volume 19, page 094018 to 094023.
49. C. C. Ho, K. Murata, D. A. Steingart, J. W. Evans and P. K. Wright, “A super ink jet printed zinc-silver 3D microbattery,” 2009, *Journal of Micromechanics and Microengineering*, Volume 19, page 094013 to 09417.
50. E.S. Leland, R.M. White and P.K.Wright, “Design and Fabrication of a MEMS AC Electric Current Sensor,” *Advances in Science and Technology (Smart Materials and Micro/Nanosystems)*, Volume 54, 2008, pp.350-355.
51. C.C. Ho, D. A. Steingart, J. W. Evans, and P. K. Wright, “Tailoring Electrochemical Capacitor Energy Storage Using Direct Write Dispenser Printing,” *Electrochemical Society Conference, ECS Transactions 16 (1)*, 2008, pp 35-47.
52. G.Q. Huang, P.K.Wright and S.T. Newman, “Wireless Manufacturing: a literature review, recent developments and case studies,” *International Journal of Computer Integrated Manufacturing*, Volume 22, Number 7, pp. 579-594.
53. D. Dornfeld, P.K.Wright, A.Vijayaraghavan, and M. Helu “Enabling Manufacturing Research through Interoperability,” *Transactions of the North American Manufacturing Research Institution (NAMRI)*, Volume 37, pp. 443-450
54. V. Sundararajan and P.K. Wright, “Application of Software Engineering to Manufacturing Process Planning,” 2008, *Journal of Computing and information Science in Engineering*, Volume 8, no. 3, page 034001-1 to 034001-6

55. J. Wilson, and P.K. Wright, "Head-mounted display efficacy study to aid first responder indoor navigation," *Proceedings of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science*, Volume 223, 2009, pp. 675-688.
56. D. Steingart, S. Roundy, P.K. Wright, and J.W. Evans, "Micropower Materials Development for Wireless Sensor Networks", *MRS Bulletin*, April 2008, Volume 33, No. 4, pp.408-409.
57. J. Wilson, and P.K. Wright, "Design of Monocular Head-mounted Displays, with a Case Study on Fire-fighting", *Proceedings of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science*, Volume 221, Number 12, 2007, pp. 1729-1743.
58. P.K. Wright N. Ota, and D. Dornfeld, "Condition Monitoring in End-Milling Using Wireless Sensor Networks (WSNs)", *Transactions of the North American Manufacturing Research Institution (NAMRI)*, Volume 36, 2008, pp. 177-183
59. B. Otis, S. Gambini, R. Shah, D. Steingart, E. Quevy, J. Rabaey, A. Sangiovanni-Vincentelli, and P. Wright, "Modeling and Simulation Techniques for Highly Integrated, Low Power Wireless Sensor Networks", *IEEE Journal of Computers and Digital Techniques*, Volume 1, Number 5, 2007, pp. 528-536.
60. P.D. Mitcheson, E.K. Reilly, T. Toh, P.K. Wright and E. Yeatman, "Performance limits of three MEMS inertial energy generator transduction types," *Journal of Micromechanics and Microengineering (Institute of Physics)*, Volume 17, (2007), pp. S211-S216. (Later in the year this was re-reported in the *highlights* of the *Journal of Micromechanics and Microengineering*. According to the note from the Journal's editors these are a showcase of the top contributions published in 2007 based on number of citations.)
61. R. Delgado, A. Molina, I. Mezgar, and P.K. Wright, "Wireless Technology and its Application to Next Generation of Manufacturing Systems", *EngineerIT*, November-December 2007, pp.28-31. (This paper was originally published in the 16th IFAC World Congress, Edited by P. Horacek, M. Simandl, P. Zitek, Prague, Czech Republic, July 4-8, 2005).
62. T.H.C. Childs, K. Sekiya, R. Tezuka, Y. Yamane, D. Dornfeld, D-E. Lee, S. Min, and P.K. Wright, "Surface Finishes from Turning and Facing with Round Nosed Tools," *CIRP Annals*, 57, 1, 2008, pp. 89-92.
63. V. Sundararajan and P.K Wright, "Applications of Software Engineering to Manufacturing Process Planning," *Process Planning and Scheduling for Distributed Manufacturing*, Chapter 4, ISBN 1-84628-751-0 Springer-Verlag, 2007, pages 91-109.
64. D.A. Dornfeld and P.K. Wright, "Technology Wedges for Implementing Green Manufacturing," *Transactions of the North American Manufacturing Research Institution*, May 2007, Volume 35, pp. 193-200
65. G. Sun and P.K. Wright, "Simulation-Based Cutting Parameter Selection for Ball End Milling," *Journal of Manufacturing Systems*, Volume 24, Number 4, 2006, pp. 352-365.

66. E.S. Leland and P.K. Wright, "Resonance Tuning of Piezoelectric Vibration Energy Scavenging Generators using Compressive Axial Preload," *Smart Materials and Structures*, Institute of Physics Publishing, Volume 15, 2006, pp. 1413-1420
67. M.H. Schneider, J.W. Evans, P.K. Wright and D. Ziegler, "Designing a thermoelectrically powered wireless sensor network for monitoring aluminum smelters," *Proceedings of the Institute of Mechanical Engineers, Part E: Process Mechanical Engineering*, Volume 220, Number 3, 2006, JPME67, pp. 181-190
68. N. Ota and P.K. Wright, "Trends in Wireless Sensor Networks for Manufacturing," *International Journal of Manufacturing Research*, Volume 1, Number 1, 2006, pp. 3-17.
69. S. Roundy, V. Sundararajan, J. Baker, E. Carleton, E. Reilly, B. Otis, J. Rabaey and P.K. Wright, "Energy Scavenging in Support of Ambient Intelligence: Techniques, Challenges and Future Directions," in *AmIware Hardware Technology Drivers of Ambient Intelligence*, Edited by S Mukherjee, E. Aarts, R. Roovers, F. Widdershoven and M. Ouwkerk, Published by Springer Press Dordrecht, Netherlands, ISBN-10 1-4020-4197-7, 2006 pp. 265-284.
70. D. Steingart, C. Ho, A. Redfern, J. Evans, P. Wright, "A Wireless Low Cost Nanoamp Resolution Galvanostat," *Transactions of the Electro Chemical Society*, Volume 1, Number 21, 2006, pp.17-22.
71. H-J. Kim, D-M. Chun, S-H. Ahn, D-S. Kim, C-S. Jun, P.K. Wright, "Web-Based Design and Manufacturing System for Micro Machining," *Transactions of the North American Manufacturing Research Institution*, 2006, Volume 34, pp. 349-355.
72. P.K. Wright, D.A. Dornfeld, R. Hillaire, and N. Ota, "A Wireless Sensor for Tool Temperature Measurement and its Integration within a Manufacturing System." *Transactions of the North American Manufacturing Research Institution*, 2006, Volume 34, pp. 63-70.
73. M. Montero, N. Vargas, P. Wright, and J. Shah, "CrossTalk: A Collaborative Framework for Electro-Mechanical Product Design," in *Advances in Design*, Edited by H.A. ElMaraghy, Published by Springer Verlag, ISBN 1-84628-004-4, 2006, pp. 229-242.
74. F. Zavaliche, H. Zheng, L. Mohaddes-Ardabili, S.Y. Yang, Q. Zhan, P. Shafer, E. Reilly, R. Chopdekar, Y. Jia, P.K. Wright, D.G. Schlom, Y. Suzuki, and R. Ramesh, "Electric Field-Induced Magnetization Switching in Epitaxial Columnar Nanostructures," *Nano Letters*, Volume 5, Number 9, 2005, pp. 1793-1796.
75. A. Molina, J. Aca, and P.K. Wright, "Global Collaborative Engineering Environment for Integrated Product Development," *International Journal of Computer Integrated Manufacturing*, Volume 18, Number 8, December 2005, pp.635-651.
76. R. Hillaire and P.K. Wright, "A Process Monitoring System for Process-Based Product Validation," *Journal of Manufacturing Processes*, Volume 7, Number 1, 2005, pp. 69-74.
77. J. Corney, C. Hayes, V. Sundararajan, and P.K. Wright, "The CAD/CAM Interface" *American Society of Mechanical Engineers, Journal of Computing and Information Science in Engineering*, Volume 5, Number 3, 2005, pp. 188-197.

78. P.K. Wright, "Rapid Prototyping in Consumer Product Design," *Communications of The Association for Computing Machinery (ACM)*, June 2005, Volume 48, Number 6, pp. 36-41.
79. M.E. Merchant, D.A. Dornfeld and P.K. Wright, "Manufacturing: It's Evolution and Future," *Transactions of the North American Manufacturing Research Institution*, May 2005, Volume 33, pp. 211-218.
80. S. Roundy, E. Leland, J. Baker, E. Carleton, E. Reilly, E. Lai, B. Otis, J. Rabaey, V. Sundararajan and P.K. Wright "Improving Power Output for Vibration-Based Energy Scavengers" *IEEE Pervasive Computing Journal on Mobile and Ubiquitous Computing*, Volume 4, Number 1, January – March 2005, pp. 28-36.
81. S. Roundy, M. Strasser and P. K. Wright, "Powering Ambient Intelligent Networks" in "*Ambient Intelligence*" Edited by W. Weber, J.M. Rabaey, and E. Aarts and published by Springer November 2004, paper on pages 271-300.
82. S. Roundy, and P.K. Wright, "A Piezoelectric Vibration based Generator for Wireless Electronics," *Smart Materials and Structures*, Volume 13, 2004, pp. 1131-1142.
83. S. Roundy, D. Steingart, L. Frechette, P.K. Wright and J. Rabaey, "Power Sources for Wireless Sensor Networks," *Lecture Notes in Computer Science*, Springer-Verlag, GmbH, ISSN: 0302-9743, Volume 2920, 2004, pp. 1 – 17.
84. P. Kumesaran and P.K. Wright, "Implementation of Draft Angle, Mold Machining Capabilities in an Automated CAD/CAM Pipeline." *International Journal of Computer Integrated Manufacturing*, Volume 18, Number 1, 2005, pp. 1-14.
85. D. Misra, V. Sundararajan, and P.K. Wright, "Zigzag Tool Path Generation for Sculptured Surface Machining", *American Mathematical Society, Series in Discrete Mathematics and Theoretical Computer Science*, DIMACS Series, Volume 67, 2005, pp. 265-280.
86. V. Sundararajan and P.K. Wright, "Volumetric Feature Recognition for Machining components with Freeform Surfaces", 2004, *Computer Aided Design*, Volume 36, pp 11-25.
87. K. Castelino, V. Sundararajan, R. D'Souza, B. Kannan, and P. Wright, "AMPS-An Automated Modular Process Planning System" *American Society of Mechanical Engineers, Journal of Computing and Information Science in Engineering*, Volume 4, Number 3, September 2004, pp. 235-241.
88. P. K. Wright, D. A. Dornfeld, V. Sundararajan, and D. Misra. "Tool Path Generation for Finish Machining of Freeform Surfaces in the CyberCut Process Planning Pipeline", *Transactions of the North American Manufacturing Research Institution*, May 2004, Volume 32, pp. 159-166.
89. R. M. D'Souza, C. Sequin, and P.K. Wright, "Automated Tool Sequence Selection for 3-axis Machining of Freeform Pockets" *Computer-Aided Design*, Volume 36, 2004, pp. 595-605.
90. J. Aca, R. Mejia, M. Velandia, E. Garcia, N. Galeano, H. Ahuett, A. Molina, and P.K. Wright, "Integrated Product Development in Virtual Enterprises Supported by Web-based Applications",

Process and Foundations for Virtual Organizations Edited by L.M. Camarinha-Matos and H. Afsarmanesh, Published by Kluwer Academic Press, 2003 pp. 361-368.

91. K. Castelino, R. D'Souza and P. Wright, "Tool-path Optimization for Minimizing Airtime during Machining," *Journal of Manufacturing Systems*, November 2003, Volume 22, Number 3, pp. 173-180.
92. A. Rangarajan, D.A. Dornfeld, and P.K. Wright, "Probabilistic Precision Process Planning", *Transactions of the North American Manufacturing Research Institution*, May 2003, Volume 31, pp. 539-546.
93. C. S. Smith, P.K. Wright, and C. Sequin, "The Manufacturing Advisory Service: Web Based Process and Material Selection," *International Journal of Computer Integrated Manufacturing*, June 2003, Volume 16, Number 6, pp. 373-381.
94. B. Kannan and P. K. Wright, "Efficient Algorithms for Automated Process Planning of 2.5D Machined Parts Considering Fixturing Constraints" *International Journal of Computer Integrated Manufacturing*, 2004, Volume 17, Number 1, January-February, pp. 16-28.
95. S. Roundy, P.K. Wright, and J. Rabaey, "A Study of Low Level Vibrations as a Power Source for Wireless Sensor Nodes", *Computer Communications*, 2003, Volume 26 (11) (2003), pp. 1131-1144.
96. V. Sundararajan and P.K. Wright, "Feature Based Microplanning Including Fixturing," *American Society of Mechanical Engineers, Journal of Computing and Information Science in Engineering*, 2002, Volume 2, Number 3, pp. 179-191.
97. S. H. Ahn, B. Bharadwaj, H. Khalid, S.Y. Liou and P.K. Wright, "Web-based Design and Manufacturing Systems for Automobile Components: Architectures and Usability Studies," *International Journal of Computer Integrated Manufacturing*, 2002, Volume 15, Number 6, pp. 555-563
98. S.H. Ahn, M. Montero, D. Odell, S. Roundy, and P.K. Wright, "Anisotropic Material Properties of Fused Deposition Modeling", *Rapid Prototyping Journal*, 2002, Volume 8, Number 4, pp. 248-257. Note: Awarded a "Highly Commended Paper" citation by the Journal as one of their 'four best papers of the year'.
99. J. M. Brock and P. K. Wright, "Design Tool for Injection Molded Snap Fits in Consumer Products," *Journal of Manufacturing Systems*, 2002, Volume 21, Number 1, pp. 32-39.
100. P.K. Wright, D.A. Dornfeld, M.G. Montero and C.H. Sequin, "Management and Analysis of Design Constraints for Electronic-Mechanical Product Manufacturing," *Transactions of the North American Manufacturing Research Institution*, May 2002, Volume 30, pp.703-710
101. S.H. Ahn and P.K. Wright, "Reference Free Part Encapsulation (RFPE): An Investigation of Material Properties and the Role of RFPE in a Taxonomy of Fixturing Systems", *Journal of Manufacturing Systems*, 2002, Volume 21, Number 2, pp. 101-110.

102. S.M. Lopez and P.K. Wright, "The Role of Rapid Prototyping in the Product Development Process: A Case Study on the Ergonomic Factors of Handheld Video Games," *Rapid Prototyping Journal*, 2002, Volume 8, Number 2, pp.116-125.
103. A. Mohole, P.K Wright and C. Sequin, "WebCAD: A CAD tool constrained with explicit 'Design for Manufacturability' rules for CNC Milling," *Journal of Engineering Manufacture*, 2002, Volume 216, Part B, pp. 879-889.
104. S. H. Ahn, S. McMains, C.H. Sequin and P.K. Wright, "Mechanical Implementation Services for Rapid Prototyping," *Journal of Engineering Manufacture, Proceedings of the Institution of Mechanical Engineers Part B - Short Communications in Manufacture and Design*, 2002, Volume 216, Part B, pp. 1193-1199.
105. R. D'Souza, P.K. Wright and C. Sequin "Automated Microplanning for 2.5-D Pocket Machining," *Journal of Manufacturing Systems*, 2001, Volume 20, Number 4, pp. 288-296.
106. D.A. Dornfeld, P.K. Wright, S. Roundy, A. Rangarajan, and S. H. Ahn, "Agent Interaction in CAD/CAM," *Transactions of the North American Manufacturing Research Institution*, 2001, 29, pp. 569 - 575.
107. S. Ahn, V. Sundararajan, C. Smith, B. Kannan, R. D'Souza, G. Sun, A. Mohole, P. Wright, J. Kim, S. McMains, J. Smith, and C. Sequin, "CyberCut: An Internet-based CAD/CAM system," *American Society of Mechanical Engineers, Journal of Computing and Information Science in Engineering*, Volume 1, March 2001, pp. 52-58.
108. G. Sun, C. Sequin, and P.K. Wright, "Operation Decomposition for Freeform Surface Features in Process Planning", *Computer Aided Design*, Volume 33, 2001, pp. 621-636.
109. P.K. Wright, D.A. Dornfeld, F.C. Wang, and C-H. Chu, "Decision Making in a Multi-Constraint, Agent-Based Process Planning System," *Transactions of the North American Manufacturing Research Institution*, 2000, Volume 28, pp. 191-196, Paper Number MS00-216.
110. J.A. Stori and P. K. Wright "Parameter Space Decomposition for Selection of the Axial and Radial Depth of Cut in End Milling", *Transactions of the ASME, Journal of Manufacturing Science and Engineering*, 2001, Volume 123, Number 4, pp. 654-665.
111. V. Sundararajan and P.K.Wright, "Identification of Multiple Feature Representation by Volume Decomposition for 2.5 D Components", *Transactions of the ASME, Journal of Manufacturing Science and Engineering*, February 2000, Volume 122, Number 1, pp. 280-290.
112. F-C. Wang, P.K. Wright, B.A. Barsky, and D.C.H. Yang, "Optimally Parameterized C³ Quintic Interpolatory Splines," *Transactions of the ASME, Journal of Mechanical Design*, September 1999, Volume 121, Number 3, pp. 430-439.
113. D.A. Dornfeld, P.K. Wright, F.C. Wang, P. Sheng, J. Stori, V. Sundararajan, N. Krishnan, C-H. Chu, "Multi Agent Process Planning for a Networked Manufacturing Service" *Transactions of the North American Manufacturing Research Institution*, 1999, 27, pp. 191-196.

114. J.A. Stori, C.King and P.K. Wright,” Integration of Process Parameter Simulation in Machining Parameter Selection,” *ASME Journal of Manufacturing Science and Engineering*, 1999, Volume 121, Number 1, pp. 134-143.
115. W. H. Chui and P.K. Wright, “A WWW Computer Integrated Manufacturing Environment for Rapid Prototyping and Education,” *International Journal of Computer Integrated Manufacturing*, 1999, Volume 12, Number 1, pp. 54-60.
116. P.K. Wright, S. Schofield and F-C. Wang, “Open Architecture Control for Machine Tools,” in the book *Open Architecture Control Systems- a Summary of Global Activities*, edited by Y. Koren, F. Jovane, and G. Pritschow, Published by Italian National Research Council, pp. 115-133, 1998
117. S. M. Brown and P.K. Wright, “A Progress Report on the Manufacturing Analysis Service, an Internet-Based Reference Tool”, *Journal of Manufacturing Systems*, 1998, Volume 17, Number 5, pp. 389-398.
118. K. Chan, C. King and P.K. Wright, “COMPASS: Computer Oriented Manufacturing Process and Apparatus Selection System,” *Journal of Manufacturing Systems*, 1998, Volume 17, Number 4, pp. 275-286.
119. S.E. Sarma and P.K. Wright, “Using Mechanical Hardware to Simplify Process Planning,” *Computer Integrated Manufacturing Systems*, July 1998, Volume 11, Number 3, pp.147-155.
120. S.E. Sarma and P.K. Wright, “Decision Monotonicity in Incremental Design: A Case Study of Design for Manufacture”, *Research in Engineering Design*, 1997, Volume 9, pp. 235-245.
121. P.K. Wright and D.A. Dornfeld, “CyberCut: A Networked Machining System” *Transactions of the North American Manufacturing Research Institution*, 1998, 26, pp. 35-41.
122. F.C. Wang and P.K. Wright, “Open Architecture Controllers for Machine Tools, Part II: A Real Time Quintic Spline Interpolator,” *ASME Journal of Manufacturing Science and Engineering*, May 1998, Volume 120, pp 425-432.
123. S.M. Schofield and P.K. Wright, “Open Architecture Controllers for Machine Tools, Part I: Design Principles,” *ASME Journal of Manufacturing Science and Engineering*, May 1998, Volume 120, pp. 417-424.
124. D.A. Dornfeld and P.K. Wright “Process Planning for Agent Based Precision Manufacturing,” *Transactions of the 25th North American Manufacturing Research Institution*, 1997, 25, pp. 359-364.
125. M.E. Mueller, R.E. DeVor, and P.K.Wright, “The Physics of End-milling: Comparisons Between Simulations (EMSIM) and New Experimental Results from Touch Probed Features,” *Transactions of the 25th North American Manufacturing Research Institution*, 1997, 25, pp. 123-128.
126. S. E. Sarma and P.K. Wright, “Reference Free Part Encapsulation: A New Universal Fixturing Concept,” *Journal of Manufacturing Systems*, 1997, 16, (1), pp. 35-47.

127. F-C. Wang, B. Richards and P.K. Wright, "A Multidisciplinary Concurrent Design Environment For Consumer Electronic Product Design," *Journal of Concurrent Engineering: Research and Applications*, 1996, 4, (4), pp347-359.
128. C. S. Smith and P.K. Wright, "CyberCut: A World Wide Web Based Design to Fabrication Tool," *Journal of Manufacturing Systems*, 1996, 15, (6), pp. 432-442.
129. S.E. Sarma, S. Schofield, J.A. Stori, P.K. Wright and J. MacFarlane, "Rapid Product Realization from Detail Design," *Journal of Computer Aided Design*, 1996, 23, (5), pp. 383-392.
130. S.E. Sarma and P.K. Wright, "Algorithms for the Minimization of Setups and Tool Changes in "Simply Fixturable" Components in Milling," *Journal of Manufacturing Systems*, 1996, 15, (2), pp. 95-112.
131. P.K. Wright and D.A. Dornfeld, "Agent Based Manufacturing Systems," *Transactions of the North American Manufacturing Research Institution*, 1996, 24, pp. 241-246.
132. P.K. Wright, "Principles of Open Architecture Manufacturing," *Journal of Manufacturing Systems*, 1995, 14, (3), pp. 187-202.
133. D.A. Dornfeld and P.K. Wright, "Intelligent Machining: Global Models, Local Scripts and Validations," *Transactions of the North American Manufacturing Research Institution*, 23, pp. 351-357, 1995.
134. F.B. Hansen, L. Pavlakos, T. Kanade, E. Hoffman, R. Reddy and P.K. Wright, "PARES: A Prototyping and Reverse Engineering System for Mechanical Parts-On-Demand on the National Network" *Journal of Manufacturing Systems*, 1993, 12, (4), pp. 269-281.
135. P.K. Wright, "Robot Selection for Computer Integrated Manufacturing," Springer-Verlag in *CIM Review*, editors J. Ranta et al., 1991, pp. 231-247.
136. P.J. Englert, C.C. Hayes and P.K. Wright, "Applications of Artificial Intelligence to Part Setup and Workholding in Automated Manufacturing," *AI in Design*, editor, D.T. Pham, IFS/Springer-Verlag, 1991, pp. 295-318.
137. I. Greenfeld, C. Hayes and P.K. Wright, "A Prototype of a Next Generation Control Environment," *Transactions of the North American Manufacturing Research Institution*, 1990, 18, pp. 322-328.
138. F.B. Hazen and P.K. Wright, "Workholding Automation: Innovations in Planning, Analysis and Design," *Manufacturing Review*, (American Society of Mechanical Engineers) 3, (4), 1990, pp. 224-237.
139. P.K. Wright, "Transparent Sapphire Tools," *Journal of Manufacturing Systems*, 1990, 9, (4), pp. 292-302.
140. I. Greenfeld, F.B. Hansen and P.K. Wright, "Self-Sustaining Open System Machine Tools," *Transactions of the 17th North American Manufacturing Research Institution*, 1989, pp. 304-310.

141. P.K. Wright, "Knowledge Engineering for Small Batch Manufacturing Systems," *Journal of Manufacturing Systems*, 1989, 8, (4), pp. 245-256.
142. R.H. Sturges and P.K. Wright, "A Quantification of Dexterity," *International Journal of Robotics and Computer Integrated Manufacturing*, 1989, 6, (1), pp. 3-14.
143. P. Englert and P.K. Wright, "A Planning Expert System for Part Setup and Workholding," *Advanced Manufacturing Engineering*, 1989, 1, pp. 249-263.
144. C.C. Hayes and P.K. Wright, "Automating Process Planning: Using Feature Interactions to Guide Search," *Journal of Manufacturing Systems*, 1989, 8, (1), pp. 1-15.
145. K. Perlin, J. W. Demmel and P.K. Wright, "Simulation Software for the Utah/MIT Dextrous Hand," *Journal of Computer Integrated Manufacturing*, 1989, 5, (4), pp. 281-292.
146. P.K. Wright and D. Bourne, "Automation and Craftsmanship," *Journal of Computer Integrated Manufacturing Systems*, 1988, 1, (3), pp.131-142.
147. P.J. Englert and P.K. Wright, "Principles for Part Setup and Workholding in Automated Manufacturing," *Journal of Manufacturing Systems*, 1988, 7, pp. 147-163.
148. A. Thangaraj and P.K. Wright, "Drill Wear Sensing and Failure Prediction for Unattended Machining," *International Journal of Robotics and Computer Integrated Manufacturing*, 1988, 4, (3/4), pp.429-435.
149. A. Thangaraj and P.K. Wright, "Computer-Assisted Prediction of Drill-Failure Using In-Process Measurements of Thrust Force," *Trans. ASME, Journal of Engineering for Industry*, 1988, 110, (2), pp. 192-200.
150. S.C.Y. Lu and P.K. Wright, "Finite Element Modeling of Plane Strain Strip Drawing with Interface Friction," *Trans. ASME, Journal of Engineering for Industry*, May, 1988, 110, pp. 101-110.
151. J.G. Chow and P.K. Wright, "On-Line Estimation of Tool/Chip Interface Temperatures for a Turning Operation," *Trans. ASME, Journal of Engineering for Industry*, 1988, 110, (1), pp. 56-64.
152. A. Bagchi and P.K. Wright, "Stress Analysis in Machining Using Sapphire Tools," *Proceedings of the Royal Society of London*, 1987, A409, pp. 99-113.
153. P.K. Wright, "Robots in Manufacturing," in *Encyclopedia of Materials Science and Engineering*, M.B. Bever (Editor-in-Chief), G.E. Dieter (Subject Editor), Pergamon Press, 1986, pp. 4259-4264.
154. P.K. Wright, "Machinability," in *Encyclopedia of Materials Science and Engineering*, M.B. Bever (Editor-in-Chief), G.E. Dieter (Subject Editor), Pergamon Press, 1986, pp. 2607-2610.
155. D.W. Yen and P.K. Wright, "A Remote Temperature Sensing Technique for Estimating the Cutting Interface Temperature Distribution," *Trans. ASME, Journal of Engineering for Industry*, 1986, 108, pp.252-263.

156. M.R. Cutkosky and P.K. Wright, "Friction, Stability and the Design of Robotic Fingers," *International Journal of Robotics Research*, 1986, 5, (4), pp. 20-37.
157. P.K. Wright and P.J. Englert, "A Review of Sensor Based Robotic Manipulation and Computer Vision in Flexible Manufacturing Cells," *Mechanical Engineering*, 1986, 108, (5), pp. 58-65.
158. M.R. Cutkosky and P.K. Wright, "Active Control of a Compliant Wrist in Manufacturing Tasks," *Trans. ASME, Journal of Engineering for Industry*, 1986, 108, (1), pp. 36-43.
159. M.G. Goldstein, D.A. Bourne and P.K. Wright, "A Fast Algorithm for High Accuracy Gauging Using Computer Vision," *International Journal of Robotics and Computer Integrated Manufacturing*, 1985, 2, (2), pp. 105-113.
160. P.K. Wright, "A Manufacturing Hand," *International Journal of Robotics and Computer Integrated Manufacturing*, 1985, 2 (1), pp. 13-23.
161. R.S. Rao, M.L. Devenpeck, P.K. Wright, E.J. Appleby, C.Y. Lu and O. Richmond," New Strip Drawing Experiments Using Transparent Sapphire Dies," *International Journal of Mechanical Sciences*, 1985, 27, (11/12), pp. 725-740.
162. M.R. Cutkosky and P.K. Wright, "Design of Robot Grippers," in *Handbook of Industrial Robotics*, S.Y. Nof (Editor), published by John Wiley and Sons, Inc., 1985, Chapter 2.7, pp. 96-111.
163. P.K. Wright, "Sensor Based Robots and Machine Tools for Flexible Manufacturing Cells," *Machine Tool Design and Research Proceedings*, 1985, 25, pp. 349-356.
164. R.S. Rao and P.K. Wright, "An Upper Bound Solution for Tube Cropping," *Trans. ASME, Journal of Engineering Materials and Technology*, 1985, 107, pp. 365-371.
165. P.S. Fussell, D.A., Bourne and P.K. Wright, "A Design for a Controller as a Component of a Robotic Manufacturing System," *Journal of Manufacturing Systems*, 1984, 3 (1), pp. 1-12
166. A. Thangaraj, P.K. Wright and M. Nissle, "New Experiments on the Temperature Distribution in Drilling," *Trans. ASME, Journal of Engineering Materials and Technology*, 1984, 106, pp. 242-247.
167. P.K. Wright, "Titanium Nitride Coatings on High-Speed Tools," *McGraw-Hill Yearbook of Science and Technology*, 1984.
168. E.J. Appleby, C.Y. Lu, R.S. Rao, M.L. Devenpeck, P.K. Wright and O. Richmond, "Strip Drawing: A Theoretical-Experimental Comparison," *International Journal of Mechanical Sciences*, 1984, 26, (5), pp. 351-362.
169. D.W. Yen and P.K. Wright, "Adaptive Control in Machining: A New Approach Based on the Physical Constraints of Tool Wear Mechanisms," *Trans. ASME, Journal of Engineering for Industry*, 1983, 105, pp. 31-38.

170. J.G. Chow, M.G. Stevenson and P.K. Wright, "Further Developments in Applying the Finite Element Method to the Calculation of Temperature Distribution in Machining and Comparisons with Experiment," *Trans. ASME, Journal of Engineering for Industry*, 1983, 105, pp. 149-154.
171. R.M. Milligan, D.A. Bourne and P.K. Wright, "Fault Detection in a Flexible Manufacturing System," *Machine Tool Design and Research Proceedings*, 1982, 23, pp. 511-520.
172. P.K. Wright, "Robot/CAM Technology," in *Robotics: Applications and Social Implications*, R.U. Ayres and Steve Miller, Ballinger Press, Cambridge, MA, December 1982, pp. 15-63.
173. P.K. Wright, D.A. Bourne, J.A.E. Isasi, G.C. Schatz and J.G. Colyer, "A Flexible Manufacturing Cell for Swaging," *Mechanical Engineering*, October 1982, 104 (10), pp. 76-83.
174. P.S. Jackson and P.K. Wright, "Application of Plastic Boundary Layer Theory to Metal Cutting," *Trans. ASME, Journal of Engineering for Industry*, 1982, 104 (4), pp. 287-295.
175. C.Y. Lu, E.J. Appleby, R.S. Rao, M.L. Devenpeck, P.K. Wright and O. Richmond, "A Numerical Solution of Strip-Drawing Employing Measured Boundary Conditions Obtained with Transparent Sapphire," *Numerical Methods in Industrial Forming Processes*, J.F.T. Pittman et al (eds.), Pineridge Press, July 1982, pp. 735-746.
176. P.K. Wright, "Predicting the Shear Plane Angle in Machining from Workmaterial Strain-Hardening Characteristics," *Trans. ASME, Journal of Engineering for Industry*, 1982, 104 (3), pp. 285-292.
177. J.G. Chow and P.K. Wright, "Deformation Characteristics of Nickel Base Alloys During Machining," *Trans. ASME, Journal of Engineering Materials and Technology*, 1982, 104 (2), pp. 85-93.
178. A. Thangaraj and P.K. Wright, "Correlation of Tool Wear Mechanisms with Some New Slip-Line Fields for Cutting," *Wear*, 1982, 75, pp. 105-122.
179. A.J. Holzer and P.K. Wright, "Dynamic Plasticity: A Comparison Between Results From Mechanical Testing and Machining," *Journal of Materials Science and Engineering*, 1981, 51, p. 81-92.
180. A. Bagchi and P.K. Wright, "Identification of the Dominant Tool Wear Processes in Machining," *American Society of Metals, Journal of Applied Metalworking*, 1, (4), 1981, pp. 15-23.
181. S. Ramalingam and P.K. Wright, "Abrasion Processes in Machining: Experiments with Workmaterials of Controlled Microstructure," *Trans. ASME, Journal of Engineering Materials and Technology*, 1981 (May), 103 (2), pp. 151-156.
182. P.K. Wright, "Frictional Interactions in Machining: Comparisons Between Transparent Sapphire and Steel Cutting Tools," *Journal of Metals Technology, The Metals Society, London*, 1981, 8, pp. 150-160.
183. P.K. Wright, S.P. McCormick and T.R. Miller, "Effect of Rake Face Design on Cutting Tool Temperature Distributions," *Trans. ASME, Journal of Engineering for Industry*, 1980, 102, (May), pp. 123-128.

184. A.W. Wolfenden and P.K. Wright, "The Role of Lead in Free-Machining Brass," *Journal of Metals Technology, The Metals Society, London*, 1979, 6, (8), pp. 297-302.
185. P.K. Wright, J.G. Horne and D. Tabor, "Boundary Conditions at the Chip-Tool Interface in Machining: Comparisons Between Seizure and Sliding Friction," *Wear*, 1979, 54, (6), pp. 371-390.
186. M.G. Kirkham, P.D. Smith and P.K. Wright, "Machine Design and Thermal Aspects of the Friction Welding Process," *Machine Tool Design and Research Proceedings*, 1978, 19, pp. 585-590.
187. P.K. Wright, "Correlation of Tempering Effects with Temperature Distribution in Steel Cutting Tools," *Trans. ASME, Journal of Engineering for Industry*, 1978, 100, (2), pp. 131-137.
188. K.F. Sullivan, P.K. Wright and P.D. Smith, "Metallurgical Appraisal of the Instabilities that Arise in Machining," *Journal of Metals Technology, The Metals Society, London*, 1978, 5, (6), pp. 181-189.
189. P.K. Wright, D.A. Snow and C.K. Tay, "Interfacial Conditions in Cold Pressure Welding by Rolling," *Journal of Metals Technology, The Metals Society, London*, 1978, 5, (1), pp. 24-31.
190. P.K. Wright and J.L. Robinson, "Material Behavior in the Deformation Zones of Machining," *Journal of Metals Technology, The Metals Society, London*, 1977, 4, (5), pp. 240-248.
191. P.K. Wright, "Diffusion and Segregation Effects at the Chip-Tool Interface in Machining," *Journal of the Australasian Institute of Metals (now Metals Forum)*, 1976, 21, (1), pp. 34-40.
192. P.K. Wright and E.M. Trent, "Metallurgical Appraisal of Wear Mechanisms and Processes on High-Speed Steel Tools," *Journal of Metals Technology, The Metals Society, London*, 1974, 1, (3), pp. 13-25.
193. P.K. Wright, "Metallurgical Effects in the Secondary Shear Zone of the Machining Operation," *Metallurgical Effects at High Strain Rates*, 1973, Plenum Press, New York, pp. 547-558.
194. P.K. Wright and E.M. Trent, "Metallographic Methods for Determining Temperature Gradients in Cutting Tools," *Journal of the Iron and Steel Institute*, 1973, 211, (5), pp. 364-368.

B. REFEREED NRC REPORTS

195. Day, D.A., *et al.*, National Research Council. *3 D Printing in Space*, Washington, DC: The National Academies Press, 2014. (This is a multiple author NRC report, heavily reviewed prior to publication).
196. Wessner, C.W. *et al.*, National Research Council. *21st Century Manufacturing: The Role of the Manufacturing Extension Partnership Program*. Washington, DC: The National Academies Press, 2013. (This is a multiple author NRC report, heavily reviewed prior to publication).

C. REFEREED CONFERENCE AND SYMPOSIUM PROCEEDINGS

197. O. Mahdavi-pour, J. Sabino, T. Mueller-Sim, M. R. Shahan, C. E. Seaman, P. A. Solomon, P.K. Wright, R. White, L. Gundel, L. D. Patts, I. Paprotny. "Opto-Dielectrometric Sensors for Automated Control of Total Incombustible Content in Underground Coal Mines." *Proc. of the 35th Annual Conference for the American Association of Aerosol Research (AAAR 2016)*, Portland, OR.
198. R. Winslow, K. Kim, J. Evans and P. Wright, "Dispenser Printed Zinc-Manganese Systems for Powering Sensor Nodes," *Proceedings of PowerMEMS 2015*, Boston 2015.
199. O. Mahdavi-pour, T. Mueller-Sim, D. Fahimi, S. Croshere, V. Zegna, J. Sabino, P. Pillatsch, J. Merukh, P. A. Solomon, P. K. Wright, R. M. White, L. Gundel, and I. Paprotny. "Distributed Sensors for Automated Control of Total Incombustible Content (TIC) of Dust Deposited in Underground Coal Mines" *Proceedings of the 14th Annual IEEE Conference on Sensors (IEEE SENSORS 2015)*, November 1-4 2015, Busan, South Korea.
200. J. Trager, P.K. Wright and D. Johnson, "Tightening the Constraints Faster: A Statistical Process Control Approach to Commissioning in Buildings," *2014 ACEEE Summer Study on Energy Efficiency in Buildings* pp. 11-321 – 11-331
201. P. Pillatsch, N. Shashoua, A.S. Holmes, E.M., Yeatman, P.K. Wright, "Degradation of Piezoelectric Materials for Energy Harvesting Applications," *Proceedings of PowerMEMS 2014*, Japan 2014.
202. C.E. Gregg, P. Pillatsch, and P.K. Wright, "Passively Self-Tuning Piezoelectric Energy Harvesting Systems," *Proceedings of PowerMEMS 2014*, Japan 2014.
203. P. Magpantay, I. Paprotny, R. Send, Q. Xu, C. Sherman, L. Alarcon, J. Rabaey, R. White, and P. Wright, "Energy Monitoring in Smart Buildings using Wireless Sensor Networks," *The Third International Conference on Smart Systems, Devices and Technologies* July 20 -24th Paris, France.
204. S.D. Nguyen, I. Paprotny, P. Wright, and R. White, "In-plane capacitive MEMS flow sensor for low-cost metering of flow velocity in natural gas pipelines," *27th IEEE International Conference on Micro Electro Mechanical Systems (MEMS 2014)* - San Francisco, USA, Jan 25-30, 2014, pp. 971-974.
205. Winslow, R., Wu, C. H., Wang, Z., Kim, B., Evans, J., & Wright, P. K., "Development and manufacture of printable next-generation gel polymer ionic liquid electrolyte for Zn/MnO₂ batteries," *J. Phys.: Conf. Ser.* 476, (*PowerMEMS 2013 (Dec 3-6), London, UK*), page 012085 – 012089.
206. Pillatsch P, Miller L M, Halvorsen E, Wright P K, Yeatman E M, Holmes A S, 2013 Self-tuning behavior of a clamped-clamped beam with sliding proof mass for broadband energy harvesting *Journal of Physics: Conference Series* 476, (*PowerMEMS 2013 (Dec 3-6), London, UK*), pp. 012068 – 012072.
207. Jayme Keist, Christine Orme, Frances Ross, Dan Steingart, Paul Wright, and James Evans, "Coupling In-Situ Techniques to Analyze Zinc Deposition and Dissolution for Energy Storage Applications," *Materials Research Society Symposium Proceedings*, 2013, Vol. 1491, DOI: 10.1557/opl.2012.1734

208. R. Winslow, C.H. Wu, Z. Wang, B. Kim, J.W. Evans, and P.K. Wright, "Effect of Moisture Content in Ionic Liquid Gel Electrolyte for Printable Zinc/MnO₂ Battery," *Electrical Energy Storage Applications and Technologies 2013*, Oct 2013.
209. D. Madan, Z. Wang, A. Chen, J.W. Evans, and P.K. Wright, "Dispenser Printed Thick Film Circular Thermoelectric Devices for Wireless Condition Monitoring Sensor Applications," *American Society of Composites*, 2013, Sep 2013.
210. Xu, Q.R., Send, R., Paprotny, I., White, R.M., Wright, P.K., "Miniature self-powered stick-on wireless sensor node for monitoring of overhead power lines," *Energy Conversion Congress, (ECCE)*, 2013 IEEE, 2013, pp. 2672-2675.
211. Send, R., Q. Xu, W. Ku, I. Paprotny, R.M. White, P.K. Wright. Granular Radio EnErgy-sensing Node (GREEN): A 0.63cm³ wireless stick-on node for non-intrusive energy monitoring, *Annual IEEE Conference on Sensors (IEEE SENSORS 2013)*, Baltimore, MD. (On CD).
212. Paprotny I., M. Seidel, T.C. Nora, C. Morris, R. M. White, and P.K. Wright, "Deployment Methods for Magnetic Integrity Testing of Concentric Neutral Wires in Energized Underground Power Distribution Cables," *Proceedings of 2012 IEEE International Symposium on Electrical Insulation (ISEI 2012)*, June 10-3, 2012.
213. Andrey Somov, Christine C. Ho, Roberto Passerone, James W. Evans, and Paul K. Wright, "Printing Electrochemical Capacitors for Energy Scavenging Sensor Networks," *2012 Ninth International Conference on Networked Sensing Systems (INSS)*, Antwerp, Belgium, June 11-14, 2012, pp.1-6.
214. Waterbury, A.C., Lin, S.D., and Wright, P.K. (2012) "Vibration energy harvesting from the unsprung suspension of a vehicle for asset monitoring using an electromagnetic transducer" In the *Proceedings of PowerMEMS 2012, Atlanta, Georgia, USA*, Dec. 2-5, 2012. pp 512-515.
215. Paprotny, I., A. Waterbury, V.R. Challa, Q. Xu, D.P. Arnold, S. Sanders, and P.K. Wright, "Piezoelectrodynamics Gyrator: Analysis, Experiments, and Applications to Wireless Power Transfer," *Proceedings of PowerMEMS 2012, Atlanta, Georgia, USA*, December 2-5, 2012.
216. Paprotny, I., S. Sanders, and P.K. Wright, "Broadband Energy Scavenging from Vibrations using an Eccentric Rotor Electromagnetic Generator," *Proceedings of POWERMEMS 2012*, December 2-5, 2012.
217. Paprotny, I., C.G. Levey, P.K. Wright, and B.R. Donald, "Turning-rate Selective Control: A New Method for Independent Control of Stress-engineered MEMS Microrobots," *2012 Robotics Science and Systems Conference (RSS 2012)*, July 9-13, Sydney, Australia.
218. Z. Wang, R. Winslow, B. Kim, J.W. Evans, and P.K. Wright, "Development of a Zinc-based Battery System for Grid-scale Energy Storage and Application of Flexographic Printing for the Fabrication," 222nd Meeting of ECS, PRiME 2012 (Oct 7-12), Honolulu, Hawaii
219. Z. Wang, B. Kim, J.W. Evans, and P.K. Wright, "An Entirely Printed, Rechargeable Zinc-based Battery," 222nd Meeting of ECS, PRiME 2012 (Oct 7-12), Honolulu, Hawaii

220. Q. Xu, M. Seidel, I. Paprotny, R. M. White and P. K. Wright. "Integrated Centralized Electric Current Monitoring System Using Wirelessly Enabled Non-Intrusive AC Current Sensors", *IEEE Sensors Conference, Limerick, Ireland, 2011* (Best Paper Award, 3rd out of 890 submissions).
221. Paprotny, I., E. Halvorsen, Q. Xu, W.W. Chan, R.M, White, and P.K.Wright, "Non-linear Behavior of Cantilever-based Piezoelectric Energy Scavengers under Large Excitations," *Proceedings of POWERMEMS 2011*, November 15- 18, 2011.
222. Z. Wang, D. Madan, A. Chen, R.C. Juang, M. Nill, J.W. Evans, and P.K. Wright, "Integration of Dispenser-Printed Ultralow Voltage Thermoelectric and Energy Storage Devices," *Proceedings of POWERMEMS 2011*, November 15- 18, 2011.
223. Giovanni Gonzalez, Igor Paprotny, Richard White, Paul K. Wright, "Novel Online RF technique for Detection of Water Trees in Underground Powered Distribution Cables," *Proceedings of IEEE 2011 Electrical Insulation Conference*, 2011 (June), pp. 345 -348.
224. A. Chen, D. Madan, B.T. Mahlstedt, P.K. Wright and J.W. Evans, "Dispenser-Printed Thick Film Thermoelectric Materials," *Proceedings of PowerMEMS Conference*, 2010 (December), pp. 223-226.
225. L.M. Miller, A. Chen, P.K. Wright, and J. Evans, "Resonance frequency modifications of MEMS vibration energy harvesters using dispenser printed proof mass," *Proceedings of PowerMEMS Conference*, 2010 (December), pp. 411-414.
226. Q. Xu, I. Paprotny, R.M. White and P.K. Wright, "Energy submetering for circuit breaker panels using MEMS or mesoscale passive proximity current sensors," *Proceedings of PowerMEMS Conference*, 2010 (December), pp. 127-130.
227. Q. Xu, White, R.M., Paprotny, I., and Wright, P.K., "Improved performance of non-linear piezoelectric AC energy scavengers," *Proceedings of PowerMEMS Conference*, 2010 (December), pp. 53 -56.
228. E.S. Leland, C.T. Sherman, P. Minor, R.M. White, and P.K Wright, "A New MEMS Sensor for AC Electric Current," *Proceedings of IEEE Sensors Conference*, 2010 (November), pp. 1177-1182.
229. Christine C Ho, Evans JW, Wright PK, "Direct Write Dispenser Printed Energy Storage Devices," *Micro- and Nanotechnology Sensors, Systems, and Applications II - Proceeding of SPIE*, 2010 vol. 7679 pp. 7679A-1-9
230. Q. Xu, R.M. White, I. Paprotny and P.K. Wright, "Improved performance of nonlinear piezoelectric AC energy scavengers," *Proceedings of PowerMEMS Conference*, 2010 (December), pp. 53-56.
231. I. Paprotny, Q. Xu, W.W. Chan, R.M. White and P.K. Wright, "Piezoelectromagnetic Energy Scavenging from Current-carrying conductors," *Proceedings of IEEE Transactions on Power Delivery*, 2010,
232. Paprotny, E. Leland, C. Sherman, R.M. White, and P.K. Wright, "Self-powered MEMS Sensor Module for Measuring Electrical Quantities in Residential, Commercial, Distributions and

- Transmission Power Systems,” *Proceedings of IEEE Energy Conversion Congress and Exposition*, 2010 (September), pp. 4159–4164.
233. Ho CC, Evans JW, and Wright PK, “Direct Write Dispenser Printed Energy Storage Devices” *The Jim Evans Honorary Symposium, TMS*, Seattle, WA February 2010, pp. 317-324.
234. I. Paprotny, E. S Leland, R. M. White, P. K. Wright, “Optimization of a die-sized (10x10x4 mm³) MEMS AC energy scavenger for residential and commercial electricity end-use monitoring,” *Proceedings 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 241-244.
235. A. Chen, D. Madan, M. Koplow, P. K. Wright and J. W. Evans, “Dispenser printed thermoelectric energy generators,” *Proceedings 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 277-280.
236. L. M. Miller, E. K. Reilly, R. Fain, and P.K. Wright, “Piezoelectric Vibration Energy Harvesting for Unattended Sensors,” *Proceedings 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 299-302.
237. E. K. Reilly, L. M. Miller, R. Fain, and P.K. Wright, “A study of ambient vibrations for piezoelectric energy conversion,” *Proceedings 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 312-315.
238. R.M. Fain, M.A. Hopcroft, and P.K. Wright, “Development of a microscale energy harvesting system for portable device recharging: A Laptop Case Model,” *Proceedings 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 423-426.
239. E. S. Leland, C. T. Sherman, P. Minor, P. K. Wright, and R. M. White, “A self-powered MEMS sensor for AC electric current,” *Proceedings 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 53-56.
240. C. C. Ho, J. W. Evans and P. K. Wright, “Direct Write Dispenser Printing of Zinc Microbatteries,” *Proceedings of 2009 PowerMEMS Conference*, Washington DC, USA, December 1-4, 2009, pp. 141-144.
241. A. Chen, M. Koplow, D. Madan, P. K. Wright, J. W. Evans, “Dispenser printed microscale generators for powering wireless sensor networks,” *Proceedings of the ASME 2009 International Mechanical Engineering Congress and Exposition*, November 13-19, Lake Buena Vista, Florida, On CD, Paper Number IMECE2009-11636.
242. M. Koplow, A. Redfern, J. Cheng, and P.K. Wright, “Design of a digital wireless energy meter for residential energy monitoring using wireless sensor networks,” *Proceedings of the ASME 2009 International Mechanical Engineering Congress & Exposition*, IMECE2009, November 13-19, 2009, Lake Buena Vista, Florida, USA, Paper Number: IMECE2009-12893.
243. C. T. Sherman, E. S. Leland, A. Pullin, R.M. White, P. K. Wright, “Proximity-based passive current sensors for real-time monitoring of power usage in low and mid-voltage applications,” *Proceedings of the ASME 2009 International Mechanical Engineering Congress and Exposition*, November 13-19, Lake Buena Vista, Florida, On CD, Paper Number IMECE2009-11674.

244. Christine Ho, Michael Mark, Michael Koplow, Lindsay Miller, Alic Chen, Elizabeth Reilly, Jan Rabaey, Jim Evans, and Paul Wright, "Technologies for an Autonomous Wireless Home Healthcare System," *IEEE Computer Society 2009 Body Sensor Networks*, pp. 29-34
245. Padraic Shafer, Lindsay M. Miller, Pu Yu, Nathan C. Emley, Peter Minor, Eli Leland, Daniel Steingart, Paul K. Wright, and R. Ramesh, "Vibrational Energy Scavenging: Ferroelastic Domain Configurations on Strained Benders," *MRS Symposium on Nanoscale Electromechanics and PFM*, Paper LL6.4
246. E.S. Leland, P. Minor, R.M. White and P.K.Wright, "A MEMS AC Current Sensor for Residential and Commercial Electricity End-use Monitoring," *Proceedings of the PowerMEMS 2008 and MicroEMS 2008 Conference*, Sendai, Japan, November 9-12, 2008, pp. 497-500.
247. C.C. Ho, K Murata, D. A. Steingart, J. W. Evans, and P. K. Wright, "A Super Ink-jet printed zinc-silver 3D microbattery," *Proceedings of PowerMEMS 2008 and MicroEMS 2008*, November 2008, pp 93-96.
248. D. Steingart, C. Ho, J. Salminen, J. Evans and P.K Wright, "Dispenser Direct Write Printing of Thick Film Lithium Polymer Ion Microbatteries," *Electrochemical Society Fall 2006 meeting*, General Session on Lithium Batteries, Cancun, Mexico: Presentation only
249. J. Wilson, D. Steingart, A. Redfern, and P.K.Wright, "Wireless Sensor Networks (WSNs) for Fire Fighting and First Response," *Demonstration and Booth at the Wired Magazine Nextfest 2006*, Jacob Javits Convention Center, New York NY Held from September 30th to October 1st 2006.
250. A. C. Waterbury, M. Koplow and P.K.Wright, "Electromagnetic microscale vibration harvester for powering wireless sensor nodes" *Proceedings of IMECE2008, 2008 ASME International Mechanical Engineering Congress and Exposition*, November 2-6, 2008, Boston, Massachusetts, On CD, Paper Number IMECE2008-67676
251. N. Ota, E. Arens, and P.K. Wright, "Energy Efficient Residential Thermal Control with Wireless Sensor Networks: A Case Study for Air Conditioning in California" *Proceedings of IMECE2008, 2008 ASME International Mechanical Engineering Congress and Exposition*, November 2-6, 2008, Boston, Massachusetts, On CD, Paper Number IMECE2008-67563
252. L.M. Miller, N.C. Emley, P. Shafer, and P.K. Wright, "Strain Enhancement within Cantilevered, Piezoelectric MEMS Vibrational Energy Scavenging Devices", *International Conference, Smart Materials, Structures and Systems* on CD
253. E.K. Reilly and P.K. Wright, "Energy Scavenging for Body Sensor Networks," *The Second International Conference on Body Sensor Networks (BodyNets2007)*, Florence, Italy, http://www.bodynets.org/images/tech_program.pdf, June 11-13th 2007. CD only: no page numbers.
254. E.S. Leland, P.K. Wright, and R.M. White, "Design and Fabrication of a Piezoelectric MEMS AC Current Sensor", *CIMTEC 2008, 3rd International Conference, Smart Materials, Structures and Systems*, June 11, 2008. On CD

255. M. Koplow, A. Chen, D. Steingart, P.K. Wright, and J. W. Evans, "Thick Film Thermoelectric Energy Harvesting Systems for Biomedical Applications", Proceedings of the 5th International Workshop on Wearable and Implantable Body Sensor Networks, in conjunction with the 5th International Summer School and Symposium on Medical Devices and Biosensors, The Chinese University of Hong Kong, HKSAR, China, June 1-3, 2008. On CD
256. Y.H. Chee, M. Koplow, M. Mark, N. Pletcher, M. Seeman, F. Burghardt, D. Steingart, J. Rabaey, P.K. Wright, and S. Sanders, "PicoCube: A 1cm³ Sensor Node Powered by Harvested Energy", 45th Design Automation Conference and International Solid State Circuits Conference, 45th ACM/IEEE, 8-13 June 2008, pp.114 - 119
257. J. Rabaey, F. Burghardt, D. Steingart, M. Seeman, and P.K. Wright, "Energy Harvesting – A Systems Perspective", The IEEE International Electron Devices Meeting, 2007, Washington, D.C. December 10-12, 2007, pp. 363-366
258. D. Steingart, J.W. Evans, A. Redfern, P.K. Wright, N. Dando, W. Xu, M. Gershenson, and H.V. Meyden, "Wireless Measurement of Duct Temperatures on Aluminum Smelting Pots: Correlation to Roofline HF Concentration", The Minerals, Metals and Materials Society, Light Metals Conference, 2008, pp. 221-225.
259. D. Steingart, J.W. Evans, P.K. Wright, and D. Ziegler, "Experiments on Wireless Measurement of Anode Currents in Hall Cells", The Minerals, Metals and Materials Society, Light Metals Conference, 2008, pp. 333-338.
260. E.S. Leland, P.K. Wright, and R.M. White, "Design of a MEMS Passive, Proximity-based AC Electric Current Sensor for Residential and Commercial Loads", PowerMEMS, 2007, The Seventh International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, November 28-29, Freiburg, Germany, pp.77-80.
261. E.K. Reilly, and P.K. Wright, "Integration of Thin Film Piezoelectrics on Silicon for Application in Vibrational Energy Scavenging", PowerMEMS, 2007, The Seventh International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications, November 28-29, Freiburg, Germany, pp. 73-76.
262. W. Watts, M. Koplow, A. Redfern, and P.K. Wright, "Application of Multizone HVAC Control Using Wireless Sensor Networks and Actuating Vent Registers", Proceedings of the 2007 International Conference for Enhanced Building Operations, October 31-November 2, 2007, Hyatt at Fisherman's Wharf, San Francisco, California, on CD
263. J. Wilson, V. Bhargava, A. Redfern, and P.K. Wright, "A Wireless Sensor Network and Incident Command Interface for Urban Firefighting", The 4th Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking, and Services, August 6-10, 2007, Philadelphia, Pennsylvania, USA.
264. D. Steingart, C. Ho, J. Salminen, J. Evans, and P. Wright, "Dispenser Printing of Solid Polymer Ionic Liquid Electrolytes for Lithium Ion Cells" 6th International IEEE Conference on Polymers and Adhesives in Microelectronics and Photonics (Polytronic 2007), Oadaiba, Tokyo, Japan, 2007, pp. 261-264.

265. Chris R. Baker, Kenneth Armijo, Simon Belka, Merwan Benhabib, Vikas Bhargava, Nathan Burkhart, Artin Der Minassians, Gunes Dervisoglu, Lilia Gutnik, M. Brent Haick, Christine Ho, Mike Koplow, Jennifer Mangold, Stefanie Robinson, Matt Rosa, Miclas Schwartz, Christo Sims, Hanns Stoffregen, Andrew Waterbury, Eli S. Leland, Trevor Pering, and Paul K. Wright, "Wireless Sensor Networks for Home Health Care," In Smart Homes and Tele-Health Workshop (SmarTel) in conjunction with AINA-07: *The IEEE 21st International Conference on Advanced Information Networking and Applications*. IEEE ISBN 0-7695-2847-3, Niagara Falls, Ontario, Canada, May 2007. pp.832-837
266. E.K. Reilly, L. M. Miller and P.K. Wright, "Optimizing On-Chip Piezoelectric Energy Scavenging for Integration of Medical Sensors with Low-Power Wireless Networks," *The Body Sensor Network Conference*, Aachen, Germany, March 26-28th 2007, pp. 111-115
267. A. Redfern, E. Markiewicz, J. Baker, and P.K. Wright, "Wireless Sensor Networks (WSNs) for Machine Tool Monitoring," *International Conference on Smart Machining Systems*, held at the National Institute of Standards (NIST), Gaithersburg, Maryland, March 13-15th 2007 On CD only no page numbers
268. D. Steingart, C. C. Ho, J. Salminen, J.W. Evans, and P.K. Wright, "Dispenser Printing of Solid Polymer-Ionic Liquid Electrolytes for Lithium Ion Cells," *IEEE Polytronics 2007 Conference*. 2007, pp. 261- 264
269. A. Redfern, M. Koplow, and P. Wright, "Design architecture for multi-zone HVAC control systems from existing single-zone systems using wireless sensor networks," *Smart Structures, Devices and Systems III*, edited by Said F. Al-Sarawi, Proceedings of SPIE (the International Society for Optical Engineering), Volume 6414, 2006, Paper 64140Y, pp.1-8.
270. P. D. Mitcheson, E. K. Reilly, T. Toh, P. K. Wright and E. M. Yeatman, "Performance Limits of the Three MEMS Inertial Energy Generator Transduction Types," *The Sixth International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications: PowerMEMS 2006*, November 29th to December 1st 2006, Berkeley, CA., pp. 275-278
271. E. K. Reilly and P. K. Wright, "Thin Film Piezoelectric Energy Scavenging Systems for an On-Chip Power Supply," *The Sixth International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications: PowerMEMS 2006*, November 29th to December 1st 2006, Berkeley, CA., pp.161-164
272. C.C. Ho, D.A. Steingart, J.P. Salminen, W.H. Sin, T.M.K. Rantala, J.W. Evans, and P.K. Wright, "Dispenser Printed Electrochemical Capacitors for Power Management of Millimeter Scale Lithium Ion Polymer Microbatteries for Wireless Sensors," *The Sixth International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications: PowerMEMS 2006*, November 29th to December 1st 2006, Berkeley, CA., pp. 219-222
273. E.S. Leland, R.M. White, and P.K. Wright, "Energy Scavenging Power Sources for Household Electrical Monitoring," *The Sixth International Workshop on Micro and Nanotechnology for Power Generation and Energy Conversion Applications: PowerMEMS 2006*, November 29th to December 1st 2006, Berkeley, CA., pp.165-168.

274. E. Reilly, E. Carleton and P.K. Wright, "Thin Film Piezoelectric Energy Scavenging Systems for Long Term Medical Monitoring," *The Third International Workshop on Body Sensor Networks.*" IEEE Conference at MIT Cambridge MA. 0-7695-2547, April 2006, pp. 38-41.
275. M. Schneider, D. Steingart, J. Evans, P. Wright, and D. Ziegler, "Further Results from the Wireless Instrumentation of Hall-Heroult Cells" *Light Metals 2006 TMS (The Minerals, Metals and Materials Society)*, pp. 331-334
276. N. Ota and P.K. Wright, "Experiences with Wireless Sensor Network Performance in Residential Environments", *ACM RealWSN '06 Workshop on Real-World Wireless Sensor Networks*, Uppsala, Sweden, June 19th 2006, ACM 1-58113-000-0/00/0004.
277. N. Ota, S. Ahrens, A Redfern, P.K. Wright and X. Yang, "Disaggregating the Residential Thermostat into a Multi-Agent system using Wireless Sensor Networks" Appeared in: *International Conference on Mobile Adhoc and Sensor Systems (MASS)*, 2006 IEEE, Vancouver, BC, ISBN: 1-4244-0507-6, Oct. 2006, pp. 639-644.
278. E.M. Lai, A. Redfern, and P.K. Wright, "Vibration Powered Battery-Assisted Passive RFID Tag" EUC Workshops 2005, LNCS 3823, *IFIP International Federation for Information Processing*, December 6-9, 2005, Nagasaki, Japan, pp. 1058-1068
279. V. Sundararajan, D. Antonetti, P.K. Wright, S. Gudal, S. Athavale, Y. Pan, S-Y. Liou, "Design System for Composite Transmission Error Prediction for Automatic Transmissions," *Proceedings of the American Society of Mechanical Engineers 2005 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, September 24-28, 2005, Long Beach, California, USA. Paper Reference Number DETC2005-85497 – Proceedings are on compact disc, precluding a page reference
280. V. Sundararajan, A. Redfern, M. Schneider, P.K. Wright and J. Evans, "Wireless Sensor Networks for Manufacturing Systems" *American Society of Mechanical Engineers International Mechanical Engineering Congress and Exposition*, November 5th -11th Orlando, Florida, 2005, Paper Reference Number IMECE 2005-82224, Proceedings are on Compact Disc, precluding a page reference.
281. J. Baker, S. Roundy and P.K. Wright, "Alternative Geometries for Increasing Power Density in Vibration Energy Scavenging for Wireless Sensor Networks," *The Third International Energy Conversion Engineering Conference, American Institute of Aeronautics and Astronautics*, San Francisco, California, 15th – 18th August 2005, Paper Number AIAA 2005-5617
282. M. Montero, T. Pering, U. Udaud, P.K. Wright, and R. Want, "Experimental Study on the Effects of Human and Electronic-Mechanical Interaction on RF Signal Strength for a Personal Server," *Proceedings of the 2005 American Society of Mechanical Engineers Pacific Rim Technical Conference and Exhibition on the Integration and Packaging of MEMS, NEMS and Electronic Systems*, July 17-22, 2005, San Francisco, California Paper Reference Number IPACK2005-73154 – Proceedings are on compact disc, precluding a page reference.
283. M. H. Schneider, J. W. Evans, P. Wright, D. Ziegler and D. Steingart, "Experiments on Wireless Instrumentation of Hall Cells", *Light Metals 2005 TMS (The Minerals, Metals and Materials Society)*, 2005 pp. 407-412.

284. J. Wilson, D. Steingart, R. Romero, J. Reynolds, E. Mellers, A. Redfern, L. Lim, W. Watts, C. Patton, J. Baker, and P. Wright, "Design of Monocular Head-Mounted Displays for Increased Indoor Firefighting Safety and Efficiency," *Helmet- and Head-Mounted Displays X: Technologies and Applications*, part of the *SPIE (International Society for Optical Engineering) Defense and Security Symposium* 28th March – 1st April 2005, Orlando, Florida USA, SPIE Volume 5800, pp. 103- 114.
285. D. Steingart, J. Wilson, A. Redfern, P.K. Wright, R. Romero, and L. Lim, "Augmented Cognition for Fire Emergency Response: An Iterative User Study" *Augmented Cognition*, Proceeding of the 11th International Conference on Human-Computer Interaction (HCI), Las Vegas, NV, July 22-27, 2005.
286. Kate Hammond, Elaine Lai, Eli Leland, Sue Mellers, Dan Steingart, Eric Carleton, Beth Reilly, Jessy Baker, Brian Otis, Jan Rabaey, David Culler, and Paul Wright. "An integrated node for energy-scavenging, sensing, and data-transmission: applications in medical diagnostics." *The Second International Workshop on Body Sensor Networks.* Imperial College London April 11-13th 2005.
287. S. Gudal, Y. Pan, S. Y. Liou, V. Sundararajan, D. Antonetti, and P.K. Wright, "Design System For Composite Transmission Error Prediction for Automatic Transmissions" 2004, *American Society of Mechanical Engineers, Design Engineering Technical Conference (DETC), and Information in Engineering Conference*, October 2004, Salt Lake City, Utah, USA. Paper Number DETC2004-57721. Proceedings are on Compact Disc, precluding a page reference.
288. V. Sundararajan, A. Redfern, W. Watts and P.K. Wright, "Distributed Monitoring of Steady State System Performance Using Wireless Sensor Networks" *American Society of Mechanical Engineers International Mechanical Engineering Congress*, November 13-19, 2004, Anaheim, California, Paper IMECE2004-59884. Proceedings are on Compact Disc, precluding a page reference.
289. E. S. Leland, E. M. Lai and P.K. Wright, "[A Self-Powered Wireless Sensor for Indoor Environmental Monitoring](#)" *2004 Wireless Networking Symposium* October 20 - 22, 2004 The University of Texas at Austin Department of Electrical & Computer Engineering Wireless Networking & Communications Group. Proceedings are on Compact Disc, precluding a page reference.
290. E. K. Reilly, E. Carleton, and P.K. Wright, "Vibrational Energy Scavenging via Thin Film Piezoelectric Ceramics", March 17th 2004, *TMS Conference*, p.354
291. D. Odell, R. Davis, A. Smith and P.K. Wright, "Tool-glasses, Marking Menus, and Hotkeys: A Comparison of One and Two-Handed Command Selection Techniques" *Graphics Interface Conference*, ACM International Conference Proceeding Series; Vol. 62 Proceedings of the 2004 Conference on Graphics Interface London, Ontario, Canada, May 17-29, 2004 London, Ontario, pp. 17-24.
292. D. Steingart, C. Ho, J.W. Evans, and P.K. Wright, "Design of an On-Chip Secondary Lithium Ion Polymer Microbattery for Millimeter-Scale Wireless Nodes," *Advanced Materials for Energy Conversion: The Minerals and Materials Society Meeting* Fall 2004, pp. 339-343.

293. Roundy, S., Steingart, D., Frechette, L., Wright, P. K., Rabaey, J., "Power Sources for Wireless Sensor Networks," 2004, *The 1st European Workshop on Wireless Sensor Networks (EWSN)*, Berlin, Jan. 19-21. <http://www.ewsn.org/>
294. S. Roundy, B. Otis, Y-H. Chee, J.M. Rabaey, and P.K. Wright, 2003. "A 1.9GHz RF Transmit Beacon using Environmentally Scavenged Energy," *ISPLED 2003*, Seoul Korea, August 25 - 27, 2003. *Winner of a Best Paper Award*.
295. R. M. D'Souza, C.H. Sequin and P.K. Wright, "Set-up Level Tool Sequence Selection for 2.5D Pocket Machining," American Society of Mechanical Engineers, Design Engineering Technical Conference (DETC) on Computers and Information in Engineering, September 2-6, 2003, Chicago, Illinois. Paper Number DETC2003/CIE-2. Proceedings are on Compact Disc, precluding a page reference.
296. R. K. Lee, M. G. Montero, and P.K. Wright, "Design Methodology for the Thermal Packaging of Hybrid Electronic-Mechanical Products A Case Study on the Berkeley Emulation Engine (BEE)," *American Society of Mechanical Engineers, Design Engineering Technical Conference (DETC) on Design Automation*, September 2-6, 2003, Chicago, Illinois. Paper Number DETC2003/DAC-48790. Proceedings are on Compact Disc, precluding a page reference.
297. J. N. Eggert and P.K. Wright, "A Study of Structural Behavior in Osteoporotic Trabecular Bone: Comparison between Finite Element Analysis and Experiments with Fused Deposition Models," *American Society of Mechanical Engineers International Mechanical Engineering Congress and Exposition*, 2002, New Orleans, BioEngineering/Bone Mechanics Session BED-7B.
298. S. Roundy, P.K. Wright, and K.S.J. Pister, "Micro-Electrostatic Vibration-to-Electricity Converters", *American Society of Mechanical Engineers International Mechanical Engineering Congress and Exposition*, 2002, 2002-34309, New Orleans, LA, November 17 - 22, 2002.
299. D.L. Odell and P.K. Wright, "Concurrent Product Design: A Case Study on the Pico Radio Test Bed," 2002 *American Society of Mechanical Engineers, Design Engineering Technical Conference (DETC)*, Paper Number DETC2002/DFM-34154 – please note these Proceedings are now on Compact Disc, precluding a page reference
300. R. D'Souza, P.K. Wright and C. Sequin, "Handling Tool Holder Collisions in Optimal Tool Sequence Selection for 2.5-D Pocket Machining" 2002, *American Society of Mechanical Engineers, Design Engineering Technical Conference on Computer Integrated Engineering (DETC)*, Paper Number DETC2002/CIE-34475 Also the "*Winner of the Computers and Information in Engineering Conference Best Paper Award*" – please note these Proceedings are now on Compact Disc, precluding a page reference
301. M. G. Montero, P. K. Wright and C. H. Sequin, "Managing Complexity in the Design of Electromechanical Products," *The Manufacturing Complexity Conference*, Cambridge, England, April 9-10th, 2002.
302. S. H. Ahn, J. Plancarte, and P.K. Wright, "The Impact of Reference Free Part Encapsulation (RFPE) on Design for Manufacturability with CNC Machining," 2000 *ASME IDETC*, September 10-13, Baltimore, Maryland, 2000. – Please note these Proceedings are now on Compact Disc, precluding a page reference

303. J. Shah and P.K. Wright, "DFM Metrics" *2000 American Society of Mechanical Engineers, Design Engineering Technical Conference on Computer Integrated Engineering (DETC)*, September 10-13, Baltimore, Maryland, 2000. – Please note these Proceedings are now on Compact Disc, precluding a page reference.
304. K. Lee, S. H. Ahn, D. A. Dornfeld, and P. K. Wright, "The Effect of the Run-out on Design for Manufacturing in Micro Machining," *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, New York, November 2001, – please note these Proceedings are now on Compact Disc, precluding a page reference.
305. F.-C. Wang, J. Plancarte, V. Fabbriozio, P.K. Wright and A. Kramer "Industrial Design to Rapid Mold Making for Accelerated Time-to-Market of Consumer Electronic Products", *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, Nashville TN., November 1999, pp. 863-867.
306. S.H. Ahn, S. Roundy, P.K. Wright and S.Y.Liou, "Design Consultant: A Networked Based Concurrent Design Environment", *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, Nashville TN., November 1999, pp. 563-569.
307. L.A. Marchetti and P.K.Wright, "A PC-based Open Architecture Controller: Design Implementation and Operation", *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, Nashville TN., November 1999, pp.107-113.
308. Jae Ho Kim, F.-C. Wang, C. Sequin, and P.K.Wright, "Design for Machining Over Internet", the *Design Engineering Technical Conference (DETC) on Computer Integrated Engineering Paper Number DETC'99/DFM-8938*. Las Vegas, Sept. 1999 Note: these Proceedings are on CD-ROM thereby precluding page numbers.
309. G.Sun, F.-C. Wang, C. Sequin, and P.K. Wright, "Operation Decomposition for Freeform Surface Features", *the Design Engineering Technical Conference (DETC) on Computer Integrated Engineering Paper Number DETC'99/DFM-8964*. Las Vegas, Sept. 1999 Note: these Proceedings are on CD-ROM thereby precluding page numbers.
310. R.Inouye and P.K.Wright, "Design Rules and Technology Guides for Web-based Manufacturing" the *Design Engineering Technical Conference (DETC) on Computer Integrated Engineering Paper Number DETC'99/CIE-9082*. Las Vegas, Sept. 1999 Note: these Proceedings are on CD-ROM thereby precluding page numbers.
311. Y. Lee, D.A. Dornfeld and P.K. Wright, "Open Architecture Based Framework in Integrated Precision Machining System" *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, MED-Vol.8, Anaheim CA., November 1998,
312. F.-C. Wang and P.K. Wright "Concurrent Product Design and Manufacture: A Case Study on InfoPad, a Wireless networked Computer" *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, MED-Vol.8, Anaheim CA., November 1998, pp. 3-10.
313. R. Hillaire, L. Marchetti and P.K. Wright, "Geometry for Precision Manufacturing on an Open Architecture Machine Tool (MOSAIC-PC) *Proceedings of the ASME International Mechanical Engineering Congress and Exposition*, MED-Vol.8, Anaheim CA. November 1998, pp. 605-610.

314. J.A. Stori and P.K.Wright “A Constant Engagement Offset for a 2.5 D Tool Path Generation” *Proceedings of the ASME International Mechanical Engineering Congress and Exposition, MED-Vol.8, Anaheim CA. November 1998, pp. 475-481.*
315. F.-C. Wang and P.K.Wright. “Internet-based Design and Manufacturing on an Open architecture Machining Center”, *Proceedings of the Japan/USA Symposium on Flexible Automation, Tokyo, Japan, July 1998,*
316. F.-C. Wang and P.K.Wright “Web-based CAD Tools for a Networked Manufacturing Service” *The 1998 ASME Design Engineering Technical Conference* in Atlanta GA, September 1998, Paper Number DETC98/CIE-5517. Note: these Proceedings are on CD-ROM thereby precluding page numbers.
317. K. Urabe and P.K Wright, “Parting Planes and Parting Directions in a CAD/CAM system for Plastic Injection Molding,” *1997 ASME Design for Manufacturing Symposium, The Design Engineering Technical Conferences*, held in Sacramento, CA Sept. 1997 – please note these Proceedings are now on Compact Disc, precluding a page reference.
318. P.K. Wright and C.H. Sequin, “CyberCut: A Networked Manufacturing System” *Proceedings of the Managing Enterprises Conference, Loughborough University, England, July 1997, pp 605-614.*
319. F.C. Wang, S.M. Schofield and P.K. Wright, “A Real Time Quintic Spline Interpolator for an Open Architecture Machine Tool,” *Proceedings of the ASME International Mechanical Engineering Congress and Exposition, Atlanta, GA., November 18-22nd, 1996, Dynamic Systems and Controls, DSC-Vol. 58, pp 291-298.*
320. Y, Koren, Z.J. Pasek, A.G. Ulsoy and P.K. Wright, “Timing and Performance of Open Architecture Controllers,” *Proceedings of the ASME International Mechanical Engineering Congress and Exposition, Atlanta, GA., November 18-22nd, 1996. Dynamic Systems and Controls, DSC-Vol. 58, pp 283-290.*
321. H. Park, J.A. Stori and P.K.Wright, “Rapid Response Manufacturing In Distributed Environments: The Important Roles of Process Planning and Open Architectures,” *Proceedings of the ASME International Mechanical Engineering Congress and Exposition, Atlanta, GA., November 18-22nd, 1996, Manufacturing Science and Engineering, MED Vol. 4, pp. 25-37.*
322. M. H. MacKenzie, M.D. Giere, N.M.An, J.A.Stori and P.K.Wright, “Experiences with Shape Memory Alloy: Robot Grippers for Sub-Millimeter Hard Disc Drive Components,” *SPIE (The International Society for Optical Engineering), Photonics East 1996 Symposium, November 18-22nd, 1996. SPIE Volume 2906, pp 25-36.*
323. S.M. Schofield and P.K. Wright, “Precision Machining on an Open Architecture Machine Tool,” *SPIE (The International Society for Optical Engineering), Photonics East 1996 Symposium, November 18-22nd, 1996. SPIE Volume 2912, pp 184-195.*
324. P.K. Wright, S. Schofield and F-C. Wang, “Open Architecture Control for Machine Tools,” *Proceedings of the 13th Symposium on Engineering Applications of Mechanics, Manufacturing Science and Engineering, The Canadian Society for Mechanical Engineering, 1996, Volume 13, pages 1-17.*

325. J.A. Stori and P.K. Wright, "A Knowledge Based System for Machining Operation Planning in Feature Based, Open Architecture Manufacturing" *Proceedings of the ASME Design for Manufacturing Conference, (The Design Engineering Technical Conference)*, Volume 96-DETC-DFM-Paper No.1286, Irvine, CA., August 18-22, 1996, -- note these Proceedings are now on Compact Disc, precluding a page reference.
326. S. Schofield and P.K. Wright, "IMADE: A Hierarchy of Intelligent Machines," *American Society of Mechanical Engineers Symposium on Concurrent Product and Process Engineering*, ASME Vol MED-Vol. 1 and DE-Vol. 85, 1995, pp. 53-66.
327. S.E.Sarma, J.A. Stori, P.K. Wright and J. MacFarlane, "The Machining Marketplace: Planning with Multiple, Distributed Machine Tools," *American Society of Mechanical Engineers Symposium on Concurrent Product and Process Engineering*, ASME Vol MED-Vol. 1 and DE-Vol. 85, 1995, pp. 189-200.
328. S.E. Sarma, S. Ghandi and P.K. Wright, "Reference Free Fixturing and Part Encapsulation," *American Society of Mechanical Engineers Symposium on Concurrent Product and Process Engineering*, ASME Vol MED-Vol. 1 and DE-Vol. 85, 1995, pp. 339-352.
329. P. K. Wright, D.A. Bourne and M. Goldstein, "Process Tribology, Computer Vision and Cutting Tool Inspection," *American Society of Mechanical Engineers Symposium on Process Tribology and Wear: Manufacturing Science and Engineering*, 1995, ASME Volume MED 2/2, 1995, pp. 1249-1261.
330. S. Sood, J. MacFarlane and P.K. Wright, "Process Planning: A Review," *American Society of Mechanical Engineers Symposium on Advances in Computer Assisted Design and Concurrent Manufacturing*, ASME Vol. PED-66, 1993, pp. 45-54.
331. S. Au and P.K. Wright, "A Comparative Study of Rapid Prototyping Technology," *American Society of Mechanical Engineers Symposium on Design for Manufacturability*, ASME Vol. PED-66, 1993, pp. 73-82.
332. K. Goebel and P.K. Wright, "Monitoring and Diagnosing Manufacturing Processes Using a Hybrid Architecture with Neural Networks and Fuzzy Logic," *European Congress on Fuzzy and Intelligent Technologies*, Aachen, September 1993, pp. 574-580.
333. S.E. Sarma, J. MacFarlane and P.K. Wright, "Reducing Global Feature Interactions: A New Paradigm for Simplifying Concurrent Process Planning," *American Society of Mechanical Engineers Symposium on Intelligent Design and Manufacturing Systems*, ASME Vol. PED-64, 1993, pp. 281-290.
334. S. Schofield and P.K. Wright, "Equipment Integration in a Flexible Manufacturing System," *American Society of Mechanical Engineers Symposium on Computer Controlled Machines for Manufacturing*, ASME Vol. PED-64, 1993, pp. 93-100.
335. F. Hansen, L. Pavlakos and P.K. Wright, "Controlling the Physics of Machining on a New Open-Architecture Manufacturing System", *American Society of Mechanical Engineers, Winter Annual Meeting, Control of Flexible Manufacturing Cells*, Atlanta, GA., 1991.

336. P.K. Wright, "Rapid Prototyping in an Open Architecture Manufacturing System," *Proceedings of Artificial Intelligence in Engineering*, Vol. II, Manufacture and Planning, Boston, 1990, pp. 3-28.
337. F. Hansen, L. Pavlakos and P.K. Wright, "Tool Wear and Failure Monitoring on an Open-Architecture Machine Tool," *American Society of Mechanical Engineers, Winter Annual Meeting, Fundamental Issues in Machining*, November 1990, PED Vol. 43, pp. 211-228.
338. P.K. Wright and Israel Greenfeld, "Open-Architecture Manufacturing: The Impact of Open-System Computers on Self-Sustaining Machinery and the Machine Tool Industry," *Manufacturing International*, March, 1990, ASME Conference, Atlanta, GA., Vol. II, pp. 41-47.
339. C.C. Hayes, S. Desa and P.K. Wright, "Using Process Planning Knowledge to Make Design Suggestions Concurrently," *American Society of Mechanical Engineers, Winter Annual Meeting, Special Bound Volume on Concurrent Product and Process Design*, December 1989, San Francisco, CA., DE-Vol.21 and PED-Vol.36, pp. 87-92.
340. Israel Greenfeld and P.K. Wright, "A Generic Specification for an Open-System Machine Controller," *American Society of Mechanical Engineers, Winter Annual Meeting, Special Bound Volume on Advances in Manufacturing System Engineering*, San Francisco, CA., December 1989, PED-Vol. 37, pp. 63-76.
341. M. Nagurka, J. Demmel and P.K. Wright, "The Dexterity of Manufacturing Hands," *American Society of Mechanical Engineers, Winter Annual Meeting, Special Bound Volume on Robot Hands: Issues in Control and Design*, San Francisco, CA., December 1989, DSC-Vol. 14, pp. 157-164.
342. P.K. Wright, "Linguistic and Somatic Knowledge Engineering for the Automation of Small-Batch Machining," *IVth International Conference on Applications of Artificial Intelligence in Manufacturing*, July 1989, Cambridge, England, pp. 203-219.
343. F.B. Hazen and P.K. Wright, "Autonomous, Fixture Loading by a Machine Tool," *Proceedings of the ASME Manufacturing International '88 Conference*, 1988, 3, Atlanta, Georgia, pp.105-111.
344. M.R. Cutkosky, J.M. Jourdain and P.K. Wright, "New Skin Materials for Robotic Fingers," *Proceedings of the IEEE Robotics and Automation Conference*, 1987, pp. 1649-1654.
345. C. Hayes and P.K. Wright, "Automated Planning in the Machining Domain," *Knowledge Based Expert Systems for Manufacturing, American Society of Mechanical Engineers, Winter Annual Meeting*, 1986, PED- 24, pp. 221-232.
346. J. Jourdain and P.K. Wright, "A Predictor Method for Robotic Contour Following Using Position Feedback Information," *Manufacturing Simulation and Processes, American Society of Mechanical Engineers*, 1986, PED- 20, pp. 237-248.
347. J. Jourdain and P.K. Wright, "Testing and Control of a Compliant Wrist: Applications to Grinding," *Second International Grinding Conference*, 1986, SME, Dearborn, MI., paper # MR86-632.
348. M.R. Cutkosky and P.K. Wright, "Modeling Manufacturing Grips and Correlations with Design of Robotic Hands," *IEEE Robotics and Automation Conference*, 1986, pp. 260-268.

349. P.J. Englert and P.K. Wright, "Applications of Artificial Intelligence and the Design of Fixtures for Automated Manufacturing," *IEEE Robotics and Automation Conference*, 1986, pp. 345-351.
350. A. Bagchi, J. Chow and P.K. Wright, "A New Adaptive Control Strategy in Machining Based on Real Time Stress and Temperature Analysis," *Proceedings of the 14th North American Manufacturing Research Conference*, 1986, (14), pp. 222-229.
351. M. Goldstein, D.A. Bourne and P.K. Wright, "The Use of Computer Vision for Inspection in a Flexible Manufacturing Cell," *Proceedings of the 12th North American Manufacturing Research Conference*, May 1984, (12), pp. 408-413.
352. P.K. Wright, "Physical Models of Tool Wear for Adaptive Control in Flexible Machining Cells," *Computer Integrated Manufacturing, PED- 8, American Society of Mechanical Engineers*, 1984, pp. 19-31. This paper was awarded the "Blackall Machine Tool and Gauge Award" by the American Society of Mechanical Engineers.
353. P.K. Wright and R.S. Rao, "Friction Reduction in Machining and Forming Processes," *Proceedings of the 11th North American Manufacturing Research Conference*, University of Wisconsin-Madison, May 1983, pp. 197-202.
354. M.R. Cutkosky and P.K. Wright, "Achieving Flexibility in Manufacturing Cells," In *ASME Special Publication on Robotics: Research and Advanced Applications, Winter Annual Meeting*, Phoenix, AZ, November, 1982, pp. 259-268.
355. R.S. Rao, M.L. Devenpeck, P.K. Wright, O. Richmond, E.J. Appleby and C.Y. Lu, "Observations of Die-Work Interfaces Through Transparent Sapphire Dies," *Proceedings of TMS-AIME Fall Meeting and ASM Metals Congress*, St. Louis, MO, October 25-28, 1982.
356. M.R. Cutkosky, E. Kurokawa and P.K. Wright, "Programmable Conformable Clamps," *Proceedings of the SME Autofact #4 Conference*, Philadelphia, PA, November 1982, pp. 11.51-11.58.
357. A. Bagchi, J.G. Chow and P.K. Wright, "Influence of Chip-Tool Friction in Predicting the Shear Angle in Machining," *Proceedings of the 10th North American Manufacturing Conference*, McMaster University, Toronto, May 1982, (10), pp. 255-262.
358. R. Milligan, Jr., D.A. Bourne and P.K. Wright, "Fault Detection in Manufacturing Cells Based on Three Dimensional Visual Information," *Proceedings of the Society of Photo Optical Instrumentation Engineering* May 1982, Washington.
359. M.R. Cutkosky and P.K. Wright, "External Position Control of Industrial Manipulators," *Proceedings of the ASME 2nd International Conference on Computer Engineering*, August 1982, San Diego, pp. 113-118.
360. M.R. Cutkosky and P.K. Wright, "Position Sensing Wrists for Industrial Manipulators," *12th International Symposium on Industrial Robots*, Paris, France, July 1982, pp. 427-438.
361. P.K. Wright, R.S. Rao, C.Y. Lu, M.L. Devenpeck, O. Richmond and E.J. Appleby, "Frictional Boundary Conditions in Forming and Cutting", *Physics in the Steel Industry*, F.C. Schwerer (ed.),

Proceedings No. 84 of the American Institute of Physics Conference, Lehigh University, November 1981, pp. 286-296.

362. P.K. Wright and A.J. Holzer, "A Programmable Die for the Powder Metallurgy Process," *Proceedings of the 9th North American Manufacturing Research Conference*, May 1981, (9), pp. 65-70.
363. A. Bagchi, P.K. Wright and J.G. Horne, "Observations of Built-up-Edge Formations with Transparent Sapphire Tools," *Proceedings of the 9th North American Manufacturing Research Conference*, May 1981, (9), pp. 223-230.
364. A. Bagchi and P.K. Wright, "Tool Wear Processes at Very High Cutting Speeds," *Proceedings of the 8th North American Manufacturing Research Conference*, April 1980, (8), pp. 277-284.
365. G. Arndt and P.K. Wright, "Flexible Manufacturing Systems, Metal Cutting and Material Use," *American Society of Mechanical Engineers, 1980 Winter Annual Meeting*, Chicago, IL, paper (80)-WA/PROD-6.
366. P.K. Wright and K.C. Manie, "Strain Hardening, Strain Rate and Temperature Effects in Metal Cutting," *Proceedings of the Fourth Tewksbury Conference on Fracture*, 1979, Melbourne, pp. 14.1-14.18.
367. P.K. Wright, "Applications of the Experimental Methods Used to Determine Temperature Gradients in Cutting Tools," *Proceedings of the Australian Conference on Manufacturing Engineering*, 1977, Inst. of Eng. Aust. Publ. (77/7), pp. 145-149.
368. K.F. Sullivan, P.K. Wright and P.D. Smith, "Relationship Between Work Material Properties and Cutting Conditions in Hot-Machining," *Proceedings of the Australian Conference on Manufacturing Engineering*, 1977, Inst. of Eng. Aust. Publ. (77/7), pp. 77-82.
369. P.K. Wright, "Machining of Stainless Steels and Manganese Steels," *Proceedings of the International Conference on Production Technology*, 1974, Inst. Eng. Aust. Publ. (74/3), pp. 197-204.

3. NON-REFEREED PUBLICATIONS

A. TECHNICAL REPORTS – (INTERNALLY REFEREED)

370. Waterbury, A.C. and Wright, P.K., "Evaluation of the Consultant report: Assessment of piezoelectric materials for roadway energy harvesting, cost of energy and demonstration roadmap," *Special Report for the California Energy Commission*. Reaction to Assemblyman Mike Gatto's (D-Los Angeles) AB 306 recommendation to add piezoelectric undersurfaces to roadways.
371. Paprotny, I., P. K. Wright, R. M. White, J. Evans, and T. Devine. (University of California, Berkeley). 2012. Fault Analysis in Underground Cables: Final Report. *California Energy Commission*. CEC-500-2013-094.

372. Do, A., Auslander, D.M., Burke, W.J., White, R.M., Wright, P.K., "Technical Review of Residential Programmable Communicating Thermostat Implementation for Title 24-2008" California Energy Commission, PIER Buildings End-Use Energy Efficiency Program, 2007, CEC-500-2007
373. M.R. Cutkosky, J.M. Jourdain and P.K. Wright, "Testing and Control of a Compliant Wrist," *Robotics Institute Report*, Carnegie-Mellon University, 1984, No. CMU-RI-TR-84-4.
374. P.K. Wright, "Temperature and Stress Analysis in Drilling," End of Year Report, 1982, *Department of Mechanical Engineering Report*, Carnegie-Mellon University, for Fagersta, Sweden.
375. P.K. Wright, "Temperature Distributions in Cutting Tools," Progress Reports (1-6), December 1981-March 1984, *Department of Mechanical Engineering Reports*, Carnegie-Mellon University, for Kennametal.
376. P.K. Wright, R.S. Rao, C.Y. Lu, M.L. Devenpeck, E.J. Appleby and O. Richmond, "Boundary Conditions in Large Strain Steady-State Plastic Deformation Processes," Progress Reports (1-7), January 1981-June 1984, *Department of Mechanical Engineering Reports*, Carnegie-Mellon University, for NSF.
377. C.W. DeSilva and P.K. Wright, "Mechanical Structural Analysis and Design Optimization of Industrial Robots, *Robotics Institute Report*, Carnegie-Mellon University, 1980, No. CMU-RI-TR-5.
378. P.K. Wright, "Competitive Methods for Finish Form Machining Turbine Blades," *Robotics Institute Report*, Carnegie-Mellon University, 1980, No. CMU-RI-TR-4.
379. P.K. Wright, "Observation of Metal Cutting Interfaces," Progress Report on the International Harvester/Carnegie-Mellon Research Program. *Department of Mechanical Engineering Report*, Carnegie-Mellon University, February 1981.
380. P.K. Wright and P.F.V. Schmidt, "Minimum Energy Criterion in Metal Cutting: Experimental Data for Five Work Materials," *Department of Mechanical Engineering Report*, University of Auckland, 1978, (78/16).
381. P.K. Wright and C.G. Elliott, "Dynamic Cutting Force Data for Serrated Chip Formations," *Department of Mechanical Engineering Report*, University of Auckland, 1977, (M77/17).
382. P.K. Wright, "A Comparison Between the Torsion Testing and Machining of Commercially Pure Copper," *Department of Mechanical Engineering Report*, University of Auckland, 1977, (77/11).
383. P.K. Wright, "Developments in the Experimental Methods Used to Determine Temperature Gradients in Cutting Tools," *Department of Mechanical Engineering Report*, University of Auckland, 1976, (76/11).
384. P.K. Wright, L.S. Aiken and W.R. Beasley, "The Mechanics of Skiving," *Department of Scientific and Industrial Research Report*, New Zealand, 1975, (SR 14).

B. NON-REFEREED CONFERENCE PROCEEDINGS

385. P.K. Wright, *Invited informal paper*, “Trends in Renewable Energy,” *Goldman Sachs North American Energy Summit, Goldman Sachs*, New York City, June 11th 2014
386. Jayme Keist, Chris Orme, Sharon Torres, Bassem El-Dasher, Frances Ross, Dan Steingart, Jan Ilavsky, Paul Wright, Jim Evans, “Coupling in-situ techniques to analyze zinc deposition and dissolution for energy storage applications,” 2012 *MRS Fall Meeting*, Boston, November 25-30
387. Jayme Keist, Chris Orme, Bassem El-Dasher, Sharon Torres, Jan Ilavsky, Frances Ross, Dan Steingart, Paul Wright, and James Evans, “In-Situ Techniques to Analyze Electro deposition of Zinc within Ionic Liquid Electrolytes” *GRC – Electrodeposition*, Biddeford, ME, July 29 - August 3, 2012.
388. C. Ho, D. Steingart, J. Evans and P. Wright, “Integration of Lithium Ion Battery and Electrochemical Capacitor Energy Storage Directly On-Chip using Direct Write Dispenser Printing,” 214th Electrochemical Society Conference, Honolulu, HI. Abstract Number 679.
389. P. Shafer, L.M. Miller, P. Yu, N. Emley, E.S. Leland, P. Minor, D.A. Steingart, P.K. Wright, and R. Ramesh, “Ferroelectric Domain Configurations on Strained Benders for Optimization of Vibrational Energy Scavenging” Abstract and presentation
390. Ho, CC, Steingart, DA, Evans, JW, Wright, PK, "Evaluation of Carbon Supercapacitors Fabricated Using Pneumatic Dispenser Direct Write Printing Tailored for Small, Autonomous Electronic Devices," Presented at the Electrochemical Society Meeting, Washington D.C., Fall 2007, Abstract# 807.
391. J.J. Shah, S. Finger, S. Lu, L. Leifer, C. Cruz-Neira, P. Wright, J. Cagan, J. Vandenbrande, “ED2030: Strategic Plan for Engineering Design,” *The National Science Foundation Workshop Report of the March 26-29 2004 meeting in Gold Canyon Arizona* (Report published in the Spring of 2005).
392. P.K. Wright, “Vibration Based Energy Scavenging,” Air Force/Army/National Science Foundation Workshop on “Multifunctional Materials and Structures,” 15-17th December 2004, Stanford University
393. (Reviewed only as a two-page Poster Abstract) N. Ota, D. Hooks, P. Wright, D. Auslander and T. Peffer, “Wireless Sensor Network Characterization – Application to Demand Response Energy Pricing” *SenSys 2003, The First International Conference on Embedded Networked Sensor Systems*, November 5-7th 2003, Los Angeles CA P. 334-335.
394. J. Shah and P.K. Wright, “Developing Theoretical Foundation of DfM,” *The 2003 NSF Design, Service and Manufacturing Grantees Conference “Partnering to Address the Nation’s Needs”* January 6-9 2003, Birmingham Alabama, pp. 455-466
395. J. Shah, Z. Vaidya, M. Adwait, A. Ghose, and P.K. Wright, “Investigation of DfM metrics and methods: Year 2 Progress Report,” *The Proceedings of the 2002 NSF Design and Manufacturing Grantees Conference*, January 2002, held in San Juan, Puerto Rico.

396. D' Souza, R., Castelino, K., P.K. Wright and D.A. Dornfeld, "Automated Process Planning in Agent Based Manufacturing Systems" *The Proceedings of the 2002 NSF Design and Manufacturing Grantees Conference*, January 2002, held in San Juan, Puerto Rico.
397. P.K. Wright, C.S. Sequin, S.S. Sastry, D.A. Dornfeld, and P. Sheng, "Final Report on CyberCut: A Networked Manufacturing Service", *The Proceedings of the 2001 NSF Design and Manufacturing Grantees Conference*, January 2001, held at the University of Florida
398. P.K. Wright and D.A. Dornfeld, "Integration of Manufacturing Agents" *The Proceedings of the 2001 NSF Design and Manufacturing Grantees Conference*, January 2001, held at the University of Florida
399. P.K. Wright, "Theoretical Foundations of Internet Based Design, Process Planning and Manufacturing", Invited abstract at the *Gordon Research Conference on Theoretical Foundations for Product Design and Manufacturability*, Plymouth College, New Hampshire, June 2000.
400. P.K. Wright and D.A. Dornfeld, "Agent Based Precision Manufacturing Systems" *The Proceedings of the 2000 NSF Design and Manufacturing Grantees Conference*, January 2000, held in Vancouver, British Columbia
401. P.K. Wright, C.S. Sequin, S.S. Sastry, D.A. Dornfeld, and P. Sheng, "CyberCut: A Networked Manufacturing Service", *The Proceedings of the 2000 NSF Design and Manufacturing Grantees Conference*, January 2000, held in Vancouver, British Columbia
402. S.Finger, L. Weiss, D. Siewiorek, D. Baraff, A Witkin, V. Sundararajan and P.K. Wright, "Rapid Design: Integrating Virtual and Physical Prototyping", *The Proceedings of the 1999 NSF Design and Manufacturing Grantees Conference*, January 1999, held in Long Beach, California hosted by USC
403. P.K. Wright and D.A. Dornfeld, "Agent Based Manufacturing Systems" *The Proceedings of the 1999 NSF Design and Manufacturing Grantees Conference*, January 1999, held in Long Beach, California hosted by USC
404. P.K. Wright, C.S. Sequin, S.S. Sastry, D.A. Dornfeld, and P. Sheng, "CyberCut: A Networked Manufacturing Service", *The Proceedings of the 1999 NSF Design and Manufacturing Grantees Conference*, January 1999, held in Long Beach, California hosted by USC
405. P.K. Wright, "CyberCut: A Networked Manufacturing Service", Invited paper at the *Gordon Research Conference on Theoretical Foundations for Product Design and Manufacturability*, New England College, New Hampshire, June 7-12, 1998
406. F.C. Wang, L. Marchetti and P.K.Wright, "Rapid Prototyping Using Machining" *Proceedings of the CIRP Workshop on Networked Manufacturing: Integrated Design Prototyping and Rapid Fabrication*, University of California, Berkeley, May 1998, pp123-128
407. P.K. Wright, J.A. Stori and C.King, "Application of Process Simulation in Machining Parameter Selection" Presented the *CIRP Workshop on Machining Modeling and Simulation* at Georgia the Institute of Technology, May 1998.

408. P.K. Wright, D.A. Dornfeld, C.S. Smith, Y. Lee. and L. Marchetti, "Agent Based Manufacturing Systems", *The Proceedings of the 1998 NSF Design and Manufacturing Grantees Conference*, January 1998, held in Monterrey, Mexico by the Instituto Tecnológico y de Estudios Superiores de Monterrey, pp. 121-2.
409. P.K. Wright, C.S. Sequin, S.S. Sastry, D.A. Dornfeld, and P. Sheng, "CyberCut: A Networked Manufacturing Service", *The Proceedings of the 1998 NSF Design and Manufacturing Grantees Conference*, January 1998, held in Monterrey, Mexico by the Instituto Tecnológico y de Estudios Superiores de Monterrey, pp. 123-4.
410. S. Finger, L. Weiss, D. Siewiorek, D. Baraff, A. Witkin, V. Sundararajan and P.K. Wright, "Rapid Design: Integrating Virtual and Physical Prototyping", *The Proceedings of the 1998 NSF Design and Manufacturing Grantees Conference*, January 1998, held in Monterrey, Mexico by the Instituto Tecnológico y de Estudios Superiores de Monterrey, pp. 751-2.
411. S. M. Brown and P.K. Wright, "A Multimedia Manufacturing Analysis Service", *Proceedings of the CIRP Seminar on Design and Manufacturing*, University of Southern California, October 9th 1997.
412. F.C. Wang, L. Marchetti, and P.K. Wright, "Standard and Measurement Issues for Machining as a Rapid Prototyping Process" *Proceedings of the NIST Workshop on Standards for Rapid Prototyping*, Gaithersburg, October 16th 1997.
413. S. Finger, D. Baraff, D. Siewiorek, L. Weiss, A. Witkin, V. Sundararajan, P. Wright, M. Cutkosky and F. Prinz, "Rapid Design: Integrating Virtual and Physical Prototypes" *The Proceedings of the 1997 NSF Design and Manufacturing Grantees Conference*, January 1997, University of Washington, Seattle, pp. 41-42.
414. P. K. Wright and D. A. Dornfeld, "Machine-tool Open System Advanced Intelligent Controller for Precision Machining (MOSAIC-PM)" *The Proceedings of the 1997 NSF Design and Manufacturing Grantees Conference*, January 1997, University of Washington, Seattle, pp. 107-108.
415. W. H. Chui, P. K. Wright and P. Sheng, "Networked Manufacturing Environment for Rapid Prototyping and Education" *The Proceedings of the 1997 NSF Design and Manufacturing Grantees Conference*, January 1997, University of Washington, Seattle, pp. 593-594.
416. P.K. Wright, J. Stori and C. King, "The Mechanics of Manufacturing Processes" *The Proceedings of the International Congress on Theoretical and Applied Mechanics*, Kyoto, Japan, August 1996.
417. S. Sarma, S. Schofield, P.K. Wright, R. Narayanaswami, and D.Dornfeld, "An Enabling Platform for Design to Manufacturing Experiments," *Proceedings of the 1996 NSF Design and Manufacturing Grantees Conference*, January 1996, University of New Mexico, Albuquerque, NM. pp. 71-72.
418. S. Sarma, S. Schofield, P.K. Wright, R. Narayanaswami, and D.Dornfeld, "Integrating Specialist Software Agents with MOSAIC-PM for enhanced Machine Tool Performance," *Proceedings of the 1996 NSF Design and Manufacturing Grantees Conference*, January 1996, University of New Mexico, Albuquerque, NM. pp. 147-148.

419. P. K. Wright, "CyberCut: A Networked, Agent-Based Manufacturing Service That Relies on An Open Architecture Machine Tool," *The Proceedings of the Machine Tool Technology Forum*, Chicago, Illinois, March 1996, Paper Number 9.
420. S. Schofield, S. Sarma, P.K. Wright and D.A. Dornfeld, "Engineering Research Deployment Teaching Initiative: Reducing Design-to-Manufacturing Time," *Proceedings of the 1995 NSF Design and Manufacturing Conference*, San Diego, CA., January 1995, pp. 53-55.
421. S. Sarma, S. Schofield, P.K. Wright, R. Narayanaswami, and D.Dornfeld, "Machine Tool Open System Advanced Controller for Precision Machining," *Proceedings of the NSF Design and Manufacturing Conference*, San Diego, CA., January 1995, pp. 151-154.
422. P.K. Wright and D.A.Dornfeld, "A Machine-Tool, Open-System Advanced Intelligent Controller for Sensor-Based Precision Machining (MOSAIC-PM)," *Proceedings of the NSF Design and Manufacturing Systems Conference*, Cambridge, MA. January 1994, pp. 219-221.
423. I. Greenfeld, F.B. Hansen and P.K. Wright, "An Open Architecture Machine Tool for Precision Manufacturing," *Proceedings of the Design and Manufacturing Systems Conference*, Charlotte, North Carolina, January 1993, pp. 1497-1503.
424. I. Greenfeld, F.B. Hansen and P.K. Wright, "MOSAIC: Machine Tool Open System Advanced Intelligent Controller" *Proceedings of the NSF Design and Manufacturing Systems Conference*, Atlanta, GA., Jan. 1992, pp. 793-798.
425. P.K. Wright, "Rapid Prototyping in an Open-Architecture Manufacturing System," *Proceedings of the NSF Design and Manufacturing Systems Conference*, Austin, Texas, pp. 653-657, 1991.
426. M. Nagurka, M.R. Cutkosky and P.K. Wright, "Design, Control and Coordination Knowledge of Manufacturing Hands," *Proceedings of the NSF Design and Manufacturing Systems Conference*, Arizona, pp. 287-294, 1990.
427. P.K. Wright, I. Greenfeld and C. Hayes, "Open-Architecture Manufacturing: A Planning Expert and a New Control Environment," *Proceedings of the NSF Design and Manufacturing Systems Conference*, Arizona, pp. 149-154, 1990.
428. P.K. Wright, "Linguistic and Somatic Knowledge Engineering for the Automation of Small-Batch Machining," *AAAI Spring Symposium Series on AI in Manufacturing*, Stanford University, CA, March 1989.
429. M.R. Cutkosky, M.L., Nagurka, J.W. Demmel and P.K. Wright, "Modeling and Control of Grasps for Advanced Manufacturing Hands," *Advances in Manufacturing Systems Integration and Processes (15th NSF Conference on Production Research and Technology)*, January 1989, University of California at Berkeley, pp. 15-20.
430. P.K. Wright, "Setup Planning in Machining: An Expert System Approach," *Advances in Manufacturing Systems Integration and Processes (15th NSF Conference on Production Research and Technology)*, January 1989, University of California at Berkeley, pp. 641-644.

431. P.K. Wright, "An Expert System for Setup Planning in Machining," *Proceedings of the NSF 14th Conference on Production Research and Technology*, October 1987, University of Michigan, pp. 51-58.
432. M.R. Cutkosky, M.L., Nagurka and P.K. Wright, "Robotics Hands for Automated Manufacturing," *Proceedings of the NSF 14th Conference on Production Research and Technology*, October 1987, University of Michigan, pp. 213-220.
433. M.R. Cutkosky and P.K. Wright, "A Manufacturing Hand: Understanding the Process of Manipulation for Manufacturing Tasks," *Proceedings of the NSF 13th Conference on Production Research and Technology*, November 18-21, 1986, University of Florida, pp. 203-204.
434. P.K. Wright, "Acquiring Knowledge about the Craftsmanship in Machine Tool Set-up: A Search for Some Missing Elements in CNC Machine Tool Automation," *Proceedings of the NSF 13th Conference on Production Research and Technology*, November 18-21, 1986, University of Florida, pp. 253-255.
435. P.K. Wright, "Sensor Based Robots and Machine Tools for Flexible Manufacturing Cells," *Proceedings of the NSF 12th Conference on Production Research and Technology*, May 16, 1985, University of Wisconsin, pp. 359-370.
436. P.J. Englert and P.K. Wright, "Sensor Based Robotic Manipulation and Computer Vision in Flexible Manufacturing Cells," *Proceedings of the NSF 11th Conference on Production Research and Technology*, May 21-24, 1984, Pittsburgh, PA. pp. 169-180.
437. P.K. Wright, "SERC (United Kingdom) Robotics Initiative Grantees Conference Report," *Proceedings of the NSF 11th Conference on Production Research and Technology*, May 21-24, 1984, Pittsburgh, PA. pp. 205-209.
438. P.K. Wright, R.U. Ayres, B. Wise and P.E. Englert, "An Economic Assessment of Sensor Based Robots," *Proceedings of the 10th Conference on Production Research and Technology*, NSF Grantees Conference, published by the Society of Manufacturing Engineers, March 1983, pp. 183-189.
439. A. Bagchi and P.K. Wright, "Stress Analysis in Machining," *Proceedings of the 10th Conference on Production Research and Technology*, NSF Grantees Conference, published by the Society of Manufacturing Engineers, March 1983.
440. P.K. Wright, "Robots, Sensors and the Automatic Factory," Invited paper at the *10th ICUS Conference*, Seoul, Korea, October 1981, pp. 385-408.
441. P.K. Wright, "Wear of High Speed Steel," Invited Keynote paper at the 1981 *Fagersta High Speed Steel Symposium*, Langshyttan, Sweden, September 1981, pp. 13-23.
442. P.K. Wright, "Application of Visioplasticity Techniques to Cold Rolling," Presented at *The Metallurgical Society Fall Meeting* (1980) in Pittsburgh, PA, as abstract only.

443. P.K. Wright, "Temperature Distributions in Metal Working," *Proceedings of Conference on Manufacturing Engineering*, 1978, University of Auckland, pp. 198-215. (Also Editor of 280 page volume of proceedings.)
444. P.K. Wright, "The Properties and Requirements of Cutting Tool Materials," 3rd *N.Z. Conference on Science of Materials*, 1973, pp. 45-53.
445. P.K. Wright, "Metalworking Lubricants," *Proceedings of a Seminar on Tribology*, 1977, University of Auckland, Paper (E.1-E.10).
446. P.K. Wright, "Applications of Solid Phase Welding," 40th New Zealand Institute of Welding Conference, March 1978, Paper (5). Also in *Transactions*, 20, (2), pp. 15-20.
447. P.K. Wright, "Flow Strength of Materials in the Metal Cutting Operation," 4th *N.Z. Conference on Science of Materials*, 1975, pp. 30-34.
448. P.K. Wright, "The Potential of the Skiving Operation," *Proceedings of a Seminar in Production Technology*, 1975, University of Auckland, N.Z., pp. 38-46.
449. P.K. Wright, "The Mechanism of Solid Phase Welding," 5th *N.Z. Conference on Science of Materials*, December 1977, (Department of Scientific and Industrial Research Publ. (71)), pp. 114-118.
450. P.K. Wright, "The Properties and Requirements of Cutting Tool Materials," 3rd *N.Z. Conference on Science of Materials*, 1973, pp. 45-53.

C. ARTICLES IN NON-ARCHIVAL JOURNALS

451. P.K. Wright, "The Market Promise of Wireless Sensor Networks," *Nikkei Business Publications*, Tokyo, Japan, 2004, NIKKEI BizTech, Number 003, pp.134-139 In Japanese.
452. P.D. Smith, M.G. Kirkham and P.K. Wright, "Low Cost Friction Welding Equipment," *British Welding and Metal Fabrication*, May 1979, pp. 255-258.
453. P.K. Wright, "Waste Free Metalworking Operations," *New Zealand Manufacturer*, 1978, 5, (1), pp. 24-28.
454. P.K. Wright, "Effect of Built-up-Edge on Tool Wear" *Metals Australasia*, 1978, 10, (4), pp. 16-19.
455. P.K. Wright and P.D. Smith, "Applied Research in Metal Processing," *Metals Australasia*, 1977, 9, (10), pp. 263-268.
456. P.K. Wright, J.H. Pearce and K. Hancox, "Machinability Testing of Fully Hardened Tube Forming Rolls," *New Zealand Engineer*, 1975, 30, (12), pp. 347-353.
457. P.K. Wright, "Further Findings on White Layers," *Metals and Materials*, 7, (11), p. 484, 1973 (Technical note).

4. PATENTS

458. Richard Xu, R. White, I. Paprotny, P. Wright. “Dynamically Adjusting Piezoelectric Current Sensors”, US patent application, 13/179,332, publication number: US 2012/0007468 A1 Filing date: Jul 8, 2011
459. Richard Xu, R. White, I. Paprotny, P. Wright. “Deconvolution of cross-coupled magnetic fields for electric current measurement”, U.S. Provisional Patent Application Ser. No. 61/653,709, Filing Date: 05/31/2012
460. P.K. Wright, J.W. Evans, D. Madan, A. Chen, “Dispenser-Printed, Flexible Thermoelectric Energy Generators”, June 14, 2013, 61/835,501 (Provisional)
461. P.K. Wright, J.W. Evans, C. Ho, “Ionic Gel Electrolyte Energy Storage Devices and Methods of Manufacture Thereof,” U.S. Patent **9,368,283**. Regents of the University of California, Franklin St. Oakland
462. J. W. Evans, M. Schneider, D. Steingart, P.K. Wright and D. Ziegler, “Wireless sensing node powered by energy conversion from sensed system ” US Patent **12,269,756**, Regents of the University of California, Franklin St. Oakland and the Alcoa Technical Center, PA
463. M.R. Cutkosky, E. Kurokawa, and P.K. Wright “Flexible Robot Gripper for Irregular Shapes,” U.S. Pat. No. **4,545,722** October 1985.
464. M.R. Cutkosky and P.K. Wright, “Compliance System for Industrial Manipulators,” U.S. Pat. No. **4,458,424**, July 1984.

TEACHING: Ph.D. Thesis Supervisions

1. Richard Winslow (Ph.D. 2015) *Large Scale Printed Energy Storage*
2. Christopher Sherman (Ph.D. 2015) *Studies in MEMS current sensors*
3. Jason Trager (Ph.D. 2014) *Energy Management for Demand Response*
4. Qiliang (Richard) Xu (Ph.D. 2014) *Sensors for Smart Grid applications*
5. Andrew Waterbury (Ph.D. 2013) *Vibration Harvesting using Electromagnetic Transduction*
6. Jayme Keist {Co-Advised with Professor Evans in MSE} (Ph.D. 2013) *In-situ Analysis of Zinc Electro-deposition within an Ionic Liquid Electrolyte*
7. Zuoqian (Joe) Wang (Ph.D. 2013) *Flexographic Printing for Large Scale Zinc-Based Battery Fabrication*
8. Peter Minor {Co-Advised with Professor Zohdi in ME} (Ph.D. 2013) *Impact Durability of Thermal Barrier Coatings*
9. Deepa Maden (Ph.D. 2013) *Dispenser-Printed Composite Thermoelectric Thick Films for Thermoelectric Energy Harvesters for Wireless Sensor Network Used in Structural Health Monitoring Applications*
10. Peter Minor (Ph.D. 2013) *Smart materials for intelligent infrastructures*
11. Padraic Shafer, {Co-Advised with Professor Ramesh in MSE} (Ph.D. 2010), *Polarity in Piezoelectric and related Systems*
12. Christine Ho {Co-Advised with Professor Evans in MSE} (Ph.D. 2010), *Design and Fabrication of Capacitance Storage*

13. E. Leland, (Ph.D. 2010) *Self-tuning Piezoelectric Devices for Sensing Currents*
14. M. Koplrow (Ph.D. 2009) *Thermoelectric Energy Scavenging* Eric Carleton (Ph.D. May 2008)
15. Thin film Piezoelectric materials for Sensors and Energy Scavenging
16. Joel Wilson (Ph.D. December 2007) *Safety, Rescue, and Emergency Response in a Post 9/11 World*
17. B. Reilly, (Ph.D. May 2007) *Improving the Fatigue Life and Material Properties of Piezoelectric Materials used in Energy Scavenging Devices*
18. Nathan Ota, (Ph.D. May 2007) *Design and Manufacture of Sensor Based Building Systems for Energy Monitoring*
19. D. Steingart, {Co-Advised with Professor Evans in Materials} (Ph.D. December 2006) *Design and Fabrication of MEMS based Power Storage Sources for MicroIntegrated Systems*
20. D. Odell, (Ph.D. 2004) *Design and Implementation of Bi-Manual Computer Aided Design Interfaces*
21. M. Montero, (Ph.D. 2004) *Management and Analysis of Design Constraints for Electronic-Mechanical Product Manufacturing*
22. S. Roundy, (Ph.D. 2003) *Micro-Electrostatic Vibration-to-Electricity Converters*
23. R. D'Souza, (Ph.D. 2003) *Process Planning Algorithms for 2.5D Machining*
24. R. Hillaire, (Ph.D. 2001), *Open Architecture Machining Systems for Sensor Based Manufacture*
25. G. Sun, (Ph.D. 2001), *FreeForm Surface Machining*
26. V. Sundararajan, (Ph.D. 2001), *Feature Recognition for a Networked Manufacturing Service*
27. C.S. Smith, (Ph.D. 2000), *A Manufacturing Advisory Service*
28. J.A. Stori, (Ph.D. 1998), *Process Planning for Machining*
29. F.F-C. Wang (Ph.D. 1997), *Domain Unified ECAD/MCAD Systems*
30. S.M. Schofield (Ph.D. 1995), *Open Architecture Controllers for Advanced Machine Tools.*
31. S.E. Sarma (Ph.D. 1995), *A Method for Integrating CAD and CAM in Machining.*
32. C.C. Hayes (Ph.D. 1989), *Automated Planning*, co-supervised with S.DeSa.
33. M. Goldstein (Ph.D. 1989), *An Expert System for Machine Tool Diagnosis and Machining Analysis.*
34. P. Englert (Ph.D. 1988), *Automated Fixturing for Machine Tools.*
35. R. Sturgess (Ph.D. 1986), *On Dexterity.*
36. A. Thangaraj (Ph.D. 1985), *Computer-Assisted Monitoring of Drill Wear and Prediction of Drill Failure*
37. M.R. Cutkosky (Ph.D. 1985), *Grasping and Fine Manipulation for Automated Manufacturing.*
38. D.W. Yen (Ph.D. 1984), *A New Approach and a Remote Temperature Sensing Technique for Adaptive Control Machining.*
39. J.G. Chow (Ph.D. 1984), *Sensor Development for On-Line Monitoring and the Determination of Temperature Distributions in Machining.*
40. C.Y. Lu (Ph.D. 1984), *Finite Element Modeling of Large-Strain Elasto-Plastic Deformation Processes with Tool Interface Friction.*
41. A. Bagchi, (Ph.D. 1983), *Photoelastic Stress Analysis of Machining Using Transparent Sapphire Cutting Tools.*

TEACHING: Masters Thesis Supervisions (students who completed at Masters level)

1. D. Cincione, (MS2015), *Integration of Internet of Things (IoT) Nodes*
2. A. Pullin, (MS 2010) *Energy Auditing for Wireless Sensor Network Applications*
3. W. Watts (MS2007), *MultiZonal Control of Buildings*

4. A. VanPelt (MS2006), *Design of Low-cost Telecommunications Tower and Antenna Alignment Mechanisms*
5. A. Do (MS2005), *Rapid Tooling Methods for Mold Making*
6. E. Lai (MS2005), *Semi-active RFID devices Driven by Vibration Energy Harvesters*
7. J. Baker (MS2005), *Design of Energy Harvesting Devices*
8. D. Hooks (MS2004), *Wireless Networking for Residential Demand Response Systems*
9. L. Lim (MS2003), *Skin Contact Sensors for Fire Rescue Operators*
10. R. Romero (MS2003), *New Sensor Networks for more Effective Fire Rescue*
11. P. Kumesaran, (MS 2003) *Automated Manufacture of Injection Molds for Rapid Prototyping*
12. D. Misra, (MS 2003) *Algorithms for Freeform Surface Machining*
13. R. Lee (MS 2002), *Thermal Analysis, Design and Prototyping of the Berkeley Emulation Engine for Ultra Wide Band Radio Development*
14. D. Kubischta (MS2002), *Mechanical Design Flow for Rapid Product Realization*
15. K. Castelino (MS 2002), *Automated and Efficient Pocket Machining Minimizing Air Time*
16. J. Eggert, (MS 2001), *A Study of Structural Behavior in Osteoporotic Trabecular Bone: Comparison between Finite Element Analysis and Experiments with Fused Deposition Models.*
17. S.M. Lopez, (MS, 2001), *The Role of Rapid Prototyping in the Product Development Process: A Case Study on the Ergonomic Factors of Handheld Video Games.*
18. B. Kannan, (MS 2001), *Fixture Algorithms for 2.5D Machining*
19. A. Mohole, (MS 2001 - jointly supervised with Professor Sequin from Computer Science), *WebCAD: A CAD tool constrained with explicit 'Design for Manufacturability' rules for CNC Milling*
20. J. Kim, (MS 2000 - jointly supervised with Professor Sequin from Computer Science), *WebCAD 2000: Web-accessible CAD Tool for Machining*
21. J. Brock, (MS 2000), *Injection molding Snap Fit Designs*
22. S. Gomez, (MS 2000), *Mechanics of Vacuum Chucks*
23. J. Plancarte, (MS 1999) *Industrial Design to Rapid Mold Making for Accelerated Time-to-Market of Consumer Electronic Products*
24. L. Marchetti (MS 1998), *A PC-based Open Architecture Controller: Design Implementation and Operation*
25. R. Inouye (MS 1998), *Design Rules for Web-based Manufacturing*
26. S. Brown, (MS 1997), *A Multimedia Manufacturing Analysis Service*
27. K. Chan (MS 1996), *Computer Oriented Manufacturing Process Apparatus Selection.*
28. M. Mueller (MS 1996), *Improving Precision Machining through Probing and Simulation.*
29. J.A. Stori (MS 1995), *Machining Operation Planning.*
30. M. MacKenzie (MS 1995), *Positive Gripping of Sub-Millimeter Electronic Components.*
31. X. Xu (MS 1994), *Design of Long-Life Drill Bit.*
32. S. Sood (MS 1993), *A Planning Expert System for Machining.*
33. P. Bedard (M.Sc. 1992), *Software Architecture for Intelligent Manufacturing.*
34. Z. Qun (M.Sc. 1991), *Real-Time Operating Systems.*
35. F.B. Hazen (ME 1988), *Stability and Design of Robotic Fixtures.*
36. J.Jourdain (ME 1987), *Dexterous Hands for Manufacturing.*
37. A. Wilt (ME 1986), *Sensor Based Robotic Manipulation.*
38. H. Kulluk (ME 1985), *On-line Tool Temperature Measurement.*
39. M. Goldstein (ME 1985), *Inspection Using Vision in Manufacturing Cells.*
40. P. Englert (ME 1984), *Economic Assessment of Sensor Based Robots.*
41. D. Ringeride (ME 1984), *Architectural Design for the Automated Factory.*

42. E. Kurokawa (ME 1983), *Programmable Clamp Designs for Flexible Manufacturing Cells*.
43. P.S. Fussell (ME 1982), *A Design for a Controller as a Component of a Robotic Manufacturing System*.
44. R.M. Milligan (ME 1982), *Fault Detection in a Manufacturing Cell*.
45. C.H. Ng (ME 1979), *Friction Welding of Similar Metals*.
46. M.P. Subramaniam (ME 1979), *Cold Pressure Welding*.
47. D.M. Dodd (ME 1979), *Deformation Mechanics in Cold Rolling*.
48. K.F. Sullivan (ME 1978), *Machining Austenitic Steel*.
49. M.G. Kirkham (ME 1978), *Friction Welding: Machine Design and Thermal Aspects*.
50. K.H. Goh (ME 1978), *Mechanical Wear Processes*.

