

Curriculum Vitae – Matthew F. Baretich, P.E., Ph.D., CCE

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Educational Background:

Ph.D. Hospital and Health Administration	The University of Iowa Iowa City, IA	1986
M.S. Biomedical Engineering	Iowa State University Ames, IA	1977
B.S. Electrical Engineering	Iowa State University Ames, IA	1975

Licenses and Certification:

Professional Engineer, Colorado (PE).
State Board of Registration for Professional Engineers and Professional Land Surveyors, Denver CO, 1987.

Certified Clinical Engineer (CCE).
Healthcare Technology Certification Commission, ACCE Healthcare Technology Foundation, 2004.

Certified Clinical Engineer (CCE).
International Certification Commission, Arlington VA, 1980.

Certified Healthcare Facility Manager (CHFM).
American Hospital Association Certification Center, Chicago IL, 2000.

Certified Professional in Healthcare Risk Management (CPHRM).
American Hospital Association Certification Center, Chicago IL, 2009.

Professional Services:

2012-present: *B. H. Barkalow & Associates, LLC*, Newaygo, MI. **Senior Clinical Engineering Expert Consultant** for hospitals, medical device companies, legal firms, and insurance carriers. Responsibilities consist of providing biomedical, clinical, and forensic engineering support to clients that can include incident investigations, reports of findings, as well as expert witness testimony. Medical technology experience includes familiarity with the design, use and malfunctions associated with a variety of medical equipment and building systems. Experience includes surgical equipment, dialysis equipment, critical care equipment, infusion pumps, pulse oximeters, emergency and isolated power systems, and other medical and building equipment and systems.

1997-present: *Baretich Engineering, Inc.*, Fort Collins, CO. President. Consulting in clinical engineering, healthcare facilities engineering, and safety management. Forensic engineering and expert witness services.

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1992 to 1997: *University of Colorado Hospital*, Denver, CO. Manager (1992-1995), Director (1995-1997). Restructured the clinical engineering program. Established the facilities engineering program. Managed the environment health and safety program. Member of the design team for the critical care tower construction project.

1987 to 1992: *University of Colorado Health Sciences Center*, Denver, CO. Director of Bioengineering. Provided clinical engineering services to the University of Colorado Hospital and technical support services for the School of Medicine.

1986 to 1987: *Center for Health Services Research, University of Iowa*, Iowa City, IA. Research Associate. Conducted health services research.

1982 to 1986: *Graduate Program in Hospital and Hospital Administration, University of Iowa*, Iowa City, IA. Research Assistant (1982-1985), Faculty Associate (1985-1986). Health services research and teaching.

1979 to 1982: *Children's Hospital of the King's Daughters*, Norfolk, VA. Director, Clinical Engineering. Established the clinical engineering program.

1977 to 1979: *Eastern Virginia Medical Authority*, Norfolk, VA. Director, Biomedical Engineering Laboratory. Directed the regional clinical engineering shared service.

Professional Activities:

Association for the Advancement of Medical Instrumentation (AAMI).
Subject Matter Expert for *Benchmarking Solutions—Healthcare Technology Management*.

American College of Clinical Engineering (ACCE).
Member of the faculty for the Certified Clinical Engineer Exam Review.

Colorado Association of Biomedical Equipment Technicians (CABMET).
Member of the faculty for the Certified Biomedical Equipment Technician Exam Review.

Biomedical Instrumentation & Technology.
Member of the Editorial Review Board.

American Society for Healthcare Engineering
Member of the Editorial Review Board.

24x7.
Member of the Editorial Review Board.

Recognition:

Fellow of the American College of Clinical Engineering (FACCE).
American College of Clinical Engineering, Plymouth Meeting PA, 2003.

Fellow of the American Institute of Medical and Biological Engineering (FAIMBE).
American Institute of Medical and Biological Engineering, Washington DC, 2012.

Fellow of the American Society for Healthcare Engineering (FASHE).
American Society for Healthcare Engineering, Chicago IL, 2007.

Recipient of the 2008 ACCE/AHTF Shepherd Patient Safety Award.
American College of Clinical Engineering, Plymouth Meeting PA, 2008.

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Recipient of the 2006 ACCE Professional Development Award.
American College of Clinical Engineering, Plymouth Meeting PA, 2006.

Recipient of the 2006 ASHE Regional Leader Award.
American Society for Healthcare Engineering, Chicago IL, 2006.

International Workshops:

- 2015 Advanced Clinical Engineering Workshop, Denver CO and Toronto ON.
Faculty for Health Technology Management Seminar (Denver CO).
- 2010 Advanced Clinical Engineering Workshop, San Salvador, El Salvador.
Faculty Leader. Consultant to the Pan American Health Organization.
- 2009 2nd Technical Advisory Group Meeting on Health Technology, Rio de Janeiro, Brazil.
Member of the Technical Advisory Group on Health Technology, World Health Organization.
- 2009 II Curso de Trabalho sobre Segurança e Gerenciamento de Risco em Tecnologia Médica (2nd Workshop on Safety and Risk Management for Medical Technology), São Paulo, Brazil. Faculty member.
- 2007 Symposium on Healthcare Technology Management and Workshop on Clinical Engineering, Medellín, Colombia. Faculty member. Consultant to the Pan American Health Organization.
- 2004 Advanced Clinical Engineering Workshop, Managua, Nicaragua.
Faculty leader. Consultant to the Pan American Health Organization.
- 2002 Advanced Clinical Engineering Workshop, San José, Costa Rica.
Faculty member. Consultant to the Pan American Health Organization.

Publications (Books, Book Sections, and Monographs):

- 2015 *Electrical Safety Manual* (2015 edition).
Book published by AAMI.
- 2015 Healthcare Facility Management.
Chapter in *A Practicum for Healthcare Technology Management* published by AAMI.
- 2014 HTM Levels Guide.
Monograph (with others) published by the Association for the Advancement of Medical Instrumentation.
- 2011 *Medical Equipment Maintenance Programme Overview*.
Manual (with Painter) in the WHO Medical Device Technical Series (World Health Organization).
- 2008 *Electrical Safety Manual: a comprehensive guide to safety standards for healthcare facilities* (2008 edition).
Book (with Shepherd) published by the Association for the Advancement of Medical Instrumentation.
- 2008 Healthcare Facility Management.
Chapter in *A Practicum for Biomedical Technology Management*, published by Kendall/Hunt.

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- 2008 HIPAA Medical Device Security (with Grimes).
Chapter in *A Practicum for Biomedical Technology Management*, published by Kendall/Hunt.
- 2004 Construction and Renovation.
Article in *Clinical Engineering Handbook*, published by Elsevier Academic Press.
- 2004 Electrical Power.
Article in *Clinical Engineering Handbook*, published by Elsevier Academic Press.
- 2004 *Electrical Safety Manual: a comprehensive guide to safety standards for healthcare facilities* (2004 edition).
Book (with Shepherd) published by the Association for the Advancement of Medical Instrumentation.
- 2004 Equipment Control and Asset Management.
Article in *Clinical Engineering Handbook*, published by Elsevier Academic Press.
- 2004 Hospital Safety Programs.
Article in *The Handbook of Clinical Engineering*, published by Elsevier Academic Press.
- 2004 *Patient Safety and Facility Management: The Role of Healthcare Facility Engineers*.
ASHE Management Monograph.
- 2003 *Advanced Clinical Engineering Workshop Syllabus*.
Manual (editor, with others) for the World Health Organization.
- 2003 *Medical Device Incident Investigation & Reporting*.
Book (with Shepherd) published since 2003 by Baretich Engineering, Inc.
- 2001 Enhancing Patient Safety: The Role of Clinical Engineering. ACCE
White Paper (editor, uncredited) published by the American College of Clinical Engineering.
- 2001 *Revised JCAHO Environment of Care Standards for 2001*.
ASHE Healthcare Facilities Management Series (American Society for Healthcare Engineering).
- 1997 Hospital Information Systems.
Article in *The Electrical Engineering Handbook* (2nd edition), published by CRC Press.
- 1993 Hospital Information Systems.
Article in *The Electrical Engineering Handbook* (1st edition), published by CRC Press.
- 1993 *Guideline for Establishing and Administering Medical Instrumentation Maintenance Programs* (editor, with Fennigkoh). The Association for the Advancement of Medical Instrumentation.
- 1992 Safety in the Clinical Environment. Chapter (with Bronzino) in *Management of Medical Technology*, published by Butterworth-Heinemann.
- 1987 *Clinical Engineering Effectiveness from the Hospital Administrator's Perspective*.
ASHE Technical Document Series (American Society for Healthcare Engineering).

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- 1985 *The Use of Clinical Engineers and Biomedical Equipment Technicians in Iowa Hospitals.*
IHERF Research Monograph Series (Iowa Hospital Education and Research Foundation).

Podcasts and Online Recordings:

- 2015 Medical Device Incident Investigation (audio).
Healthcare Tech Talk, Episode 33 (healthcaretechtalk.net/investigations).
- 2014 Building Stronger HTM Departments (audio).
AAMI Podcasts, Episode 3
(www.aami.org/newsviews/Podcasts.aspx?navItemNumber=791).
- 2014 HTM Levels Guide (video).
AAMI (www.aami.org/productpublications/ProductDetail.aspx?ItemNumber=1391).
- 2014 Managing Medical Equipment-Related Incidents (audio-visual).
ASHRM (<http://learning.ashrm.org/products/1054/managing-medical-equipment-related-incidents>).
- 2011 Benchmarking and the Value of Certification (audio-visual).
AAMI (<http://my.aami.org/store/detail.aspx?id=BVCWCD>).
- 2009 The Importance of Benchmarking (audio, 3-part series, with Kirst).
24x7 Podcast Series (www.24x7mag.com).

Publications (Journal Articles):

- 2015 Assessing Risk in the Kaiser Permanente Clinical Technology Program (with others).
Biomedical Instrumentation & Technology Horizons (Spring 2015):138.
- 2013 The CMS Directive: Is There Really a Silver Lining? (with others).
24x7 18(4):46.
- 2012 The New NFPA 99
24x7. 17(3):10-13.
- 2012 The Value of Certification.
Biomedical Instrumentation & Technology 46(1):68-71.
- 2011 How to Use Financial Benchmarks.
Biomedical Instrumentation & Technology 45(5):405-407.
- 2010 Clinical Engineering and the World Health Organization.
Biomedical Sciences Instrumentation 46:68-71.
- 2010 National Quality Forum Releases Recommendations for Safe Practices.
Biomedical Instrumentation & Technology 44(4):334-335.
- 2009 Excellence in Clinical Engineering Leadership and the Inaugural AHTF ExCEL Award (with others). *Journal of Clinical Engineering*. 33(4):201-205.
- 2009 Focus On: The 2009 JC Standards.
24x7. 14(4):36.

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- 2008 Clinical Engineering Workshops in Latin America.
Biomedical Sciences Instrumentation. 44:59-62.
- 2008 Healthcare facility management in the United States.
Revista Ingeniería Biomédica (Colombia). 2(4):84-91.
- 2008 The “Other” Environment of Care Management Plans.
Biomedical Instrumentation & Technology. 42(3):222-224.
- 2007 Impact of Clinical Alarms on Patient Safety (with others).
Journal of Clinical Engineering. 32(1):22-33.
- 2007 Medical Device Incident Investigation.
Biomedical Sciences Instrumentation. 43:302-305.
- 2007 The Isolated Power Systems Debate.
24x7. 12(12):29-30,35-38.
- 2005 Six Things We Can Do About Medical Device User Error.
24x7. 10(6):27-30.
- 2005 Think Outside the Basement.
Biomedical Instrumentation & Technology. 39(1):4.
- 2004 Identification of Human Errors During Device-Related Accident Investigations (with others). *IEEE Engineering in Medicine & Biology Magazine*. 23(3):66-72.
- 2004 Meeting the Challenge of Sentinel Events.
24x7. 9(3):22-26.
- 2003 JCAHO and You: The Performance Improvement Cycle.
24x7. 8(11):40.
- 2002 JCAHO Patient Safety Standards and the Environment of Care
New Perspectives on Healthcare Auditing. 21(2):21.
- 2002 Medical Technology Management in U.S. Hospitals.
Biomedical Sciences Instrumentation. 38:273-275.
- 1994 Equipment Organization in the Emergency Department Adult Resuscitation Area (with others).
The Journal of Emergency Medicine. 12(6):845-848.
- 1988 Clinical Engineering Effectiveness.
Biomedical Technology Today. 3(3):79-82.
- 1988 Health Leaders of Tomorrow: A Descriptive Analysis (with Levey, Lane, and Levey).
Journal of Health Administration Education. 7(2):244-273.
- 1987 Factors Affecting the Incidence of Patient Falls in Hospitals (with Raz).
Medical Care. 25(3):185-195.
- 1985 ARMIS: A Microcomputer-based Hospital Risk Management Information System (with Raz). *Journal of Medical Systems*. 9(5/6):315-324.
- 1985 On Adopting a Managerial Perspective in Clinical Engineering Practice.
IEEE Engineering in Medicine and Biology Magazine. 4(2):27-28.

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- 1979 A Simple Tester for Respiration Rate Meters.
Journal of Clinical Engineering. 4(4):339-340.
- 1978 Sources of Clinical Engineering Employment Information (with Craft).
Journal of Clinical Engineering. 3(2):183-185.
- 1967 Automatic Pickle-Picker-Outer.
Treasure Chest Magazine. (January 12).

Publications (Reviews):

- 2014 Review of: Health Care Engineering – Part I and Part II (Morgan & Claypool, 2013).
Biomedical Instrumentation & Technology 48(2):138.
- 2011 Review of: Biomedical Device Technology: Principles and Design (Charles C. Thomas, 2008). *Biomedical Instrumentation & Technology* 45(4):324.
- 2010 Review of Biomedical Engineering for Global Health (Cambridge University Press, 2010). *Biomedical Instrumentation & Technology* 44(3):198.
- 2009 Review of: *Environment of Care Essentials*, Ninth Edition (Joint Commission, 2009).
Biomedical Instrumentation & Technology. 43(6):444.
- 2005 Review (with Shepherd) of: *Using Human Factors to Improve Patient Safety* (JCAHO, 2005). *Biomedical Instrumentation & Technology*. 39(6):439-440.
- 1991 Review of: *The Atheist and the Holy City: Encounters and Reflections* (MIT Press, 1990). *IEEE Engineering in Medicine and Biology Magazine*. 10(2):65.
- 1989 Review of: *Unexplained Patient Burns: Investigating Iatrogenic Injuries* (Quest Publishing Company, 1988). *IEEE Engineering in Medicine and Biology Magazine*. 8(3):54.
- 1987 Review (with Raz) of: *Hospital Information Systems for Case Mix Management* (John Wiley & Sons, 1986). *Journal of Health Administration Education*. 5:647.
- 1984 Review (with Levey) of: *Health Care Policy in America* (Annals of the American Academy of Political and Social Science, Volume 468). *Journal of Health Administration Education*. 2:248-249.
- 1983 Review (with Ludke) of: *Hospital Management Engineering* (Prentice Hall, 1982).
Inquiry. 20:94-95.
- 1983 Review of: *By Design: Why There Are No Locks on the Bathroom Doors in the Hotel Louis XIV and Other Object Lessons* (St. Martin's Press, 1982). *IEEE Spectrum*. 20(10):14.

Presentations (Selected, since 2000):

- 2015 AAMI's HTM Benchmarking: Learn What's New and How to Strengthen Your CE Program (with others). AAMI 2015 Conference & Expo, Denver CO.
- 2015 Benchmarking Solutions – Healthcare Technology Management. Clinical Engineering Society of Ontario, Toronto ON.
- 2015 Risk Assessment of Kaiser Permanente's Clinical Technology Program (with others). AAMI 2015 Conference & Expo, Denver CO.

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- 2015 RPTs: CMS, TJC, and the Eclipse of Clinical Engineering.
New England Society of Clinical Engineering, New London CT.
- 2015 The Curious History of Electrical Safety Testing / AAMI 2015 Electrical Safety Manual (BME 5050).
University of Connecticut Clinical Engineering (online).
- 2014 Benchmarking Data: Just Give Me Five (with others).
AAMI 2014 Conference & Expo, Philadelphia PA.
- 2014 CMS Maintenance Requirements 2013.
CABMET Meeting. Colorado Association of Biomedical Equipment Technicians, Colorado Springs CO.
- 2014 CMS Maintenance Requirements 2013 / The Curious History of Electrical Safety Testing.
CEAI Meeting. Clinical Engineering Association of Illinois, Addison IL.
- 2014 Electrical Safety (BME 5020).
University of Connecticut Clinical Engineering (online).
- 2014 Managing Medical Equipment-Related Incidents.
University of Colorado Bioengineering, Denver CO.
- 2014 Medical Device Incident Investigation.
High Plains IEEE, Fort Collins CO.
- 2014 Taking It to a New Level: Standardizing and Elevating our Roles (with others).
AAMI 2014 Conference & Expo, Philadelphia PA.
- 2013 CBET Review Course – Spring (with others).
Colorado Association of Biomedical Equipment Technicians (online).
- 2013 Electrical Systems.
University of Connecticut Clinical Engineering, Hartford CT..
- 2013 Medical Device Incident Investigation
BAW Annual Conference 2013. Biomedical Associations of Wisconsin, Green Bay WI. Keynote.
- 2013 New Maintenance Requirements from CMS: Where do we stand? (Keynote Address)
BAW Annual Conference 2013. Biomedical Associations of Wisconsin, Green Bay WI.
- 2013 New Maintenance Requirements from CMS: Where do we stand?
CABMET Symposium. Colorado Association of Biomedical Equipment Technicians, Aurora CO.
- 2013 The Curious History of Electrical Safety Testing.
CABMET Meeting. Colorado Association of Biomedical Equipment Technicians, Aurora CO.
- 2012 CBET Review Course – Fall (with others).
Colorado Association of Biomedical Equipment Technicians (online).
- 2012 CBET Review Course – Spring (with others).
Colorado Association of Biomedical Equipment Technicians (online).

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- 2012 CCE Review Course (with others).
American College of Clinical Engineering (webinar).
- 2012 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Denver CO.
- 2012 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, San Antonio TX.
- 2012 Managing Equipment-Related Patient Incidents.
COPIC Risk Management and Patient Safety Forum, Denver CO.
- 2012 New Maintenance Requirements from CMS.
CABMET 2012 Symposium, Denver CO.
- 2012 New Maintenance Requirements from CMS / NFPA 99 (2012) Health Care Facilities Code.
Catholic Health Initiatives (CHI) Clinical Engineering Annual Meeting, Englewood CO.
- 2012 NFPA 99 (2012) and CMS Maintenance Requirements.
Intermountain Clinical Instrumentation Society (ICIS), Salt Lake City UT and online.
- 2012 NFPA 99 (2012) Health Care Facilities Code.
CABMET January Meeting, Denver CO.
- 2011 Benchmarking and the Value of Certification.
Association for the Advancement of Medical Instrumentation (webinar).
- 2011 CBET Review Course – Fall (with others).
Colorado Association of Biomedical Equipment Technicians (online).
- 2011 CBET Review Course – Spring (with others).
Colorado Association of Biomedical Equipment Technicians (online).
- 2011 CCE Review Course (with others).
American College of Clinical Engineering (webinar).
- 2011 CCE Review Course (with others).
Veterans Administration Biomedical Engineering, Minneapolis MN.
- 2011 CMS and the Joint Commission.
University of Vermont Technical Services Partnership. Burlington VT.
- 2011 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Boston MA.
- 2011 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Chicago IL.
- 2011 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Denver CO.
- 2011 Electrical Systems.
University of Connecticut Clinical Engineering, Hartford CT.
- 2010 Benchmarking.
University of Vermont Technical Services Program, Burlington VT.

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- 2010 Benchmarking, Best Practices, and CE Performance Data (with Painter).
ACCE Educational Teleconference Series (teleconference).
- 2010 Benchmarking, Best Practices, and CE Performance Data (with Painter).
ACCE Educational Teleconference Series (webinar).
- 2010 Clinical Engineering and the World Health Organization.
RMBS 47th Annual Conference, Laramie WY.
- 2010 Environment of Care Workshop (short course).
Indian Health Service, Oklahoma OK.
- 2010 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Denver CO.
- 2010 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Nashville TN.
- 2010 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Salado TX.
- 2010 Joint Commission 101 Workshop (short course).
CABMET Annual Symposium, Denver CO.
- 2010 Patient Safety and Incident Investigation (short course).
2010 Heartland Biomedical Association Symposium, Omaha NE.
- 2010 Safety & Security; Medical Technology.
ASHE Healthcare Construction Certificate Program, Nashville TN.
- 2010 Using Benchmarking and Benchmarking and Best Practices to Improve Departmental
Performance (with others). AAMI 2010 Conference & Expo, Tampa FL.
- 2009 Benchmarking.
CABMET October Meeting, Westminster CO.
- 2009 Benchmarking.
Clinical Engineering Association of Illinois (CEAI), Chicago IL.
- 2009 Benchmarking.
North Central Biomedical Association (NCBA) Annual Conference, Minneapolis MN.
- 2009 Benchmarking: The New Tool for Healthcare Facilities (with Painter).
AAMI 2009 Conference & Expo, Baltimore MD.
- 2009 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Orlando FL.
- 2009 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Saint Louis CO.
- 2009 How to Prepare for the CBET Exam (with others).
ACCE Educational Teleconference Series (audio teleconference).
- 2009 Incident Investigation.
North Central Biomedical Association (NCBA) Annual Conference, Minneapolis MN.
- 2009 Joint Commission 2009.
Clinical Engineering Association of Illinois (CEAI), Chicago IL.

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- 2009 Joint Commission Environment of Care and CMS Update. University of Vermont Technical Services Program Winter Seminar 2009, Burlington VT.
- 2009 Safety & Security; Medical Technology.
ASHE Healthcare Construction Certificate Program, Orlando FL.
- 2009 Safety & Security; Medical Technology.
ASHE Healthcare Construction Certificate Program, Saint Louis MO.
- 2008 Clinical Engineering in the Post-Modern Hospital (keynote address).
RMBS 44th Annual Conference, Copper Mountain CO.
- 2008 Clinical Engineering Workshops in Latin America.
RMBS 44th Annual Conference, Copper Mountain CO.
- 2008 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Chicago IL.
- 2008 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Cincinnati OH.
- 2008 Healthcare Construction Certificate Program (with others).
American Society for Healthcare Engineering, Houston TX.
- 2008 Medical Device Incident Investigation.
CABMET Symposium 2008, Denver CO (short course).
- 2008 Medical Technology; Incident Investigation; Isolated Power Systems; Joint Commission Update.
CAHED Fall Conference, Steamboat Springs CO.
- 2007 Isolated Power Systems: A Solution in Search of a Problem?
ACCE 2007-2008 Educational Teleconference Series (audio teleconference).
- 2007 Medical Device Incident Investigation.
CABMET Symposium 2008, Denver CO (short course).
- 2007 Medical Device Incident Investigation.
RMBS 43rd Annual Conference, Denver CO.
- 2007 Medical Device Incident Investigation.
University of Wyoming, Laramie WY (BE4810 Biomedical Instrumentation).
- 2006 Application of Systems Engineering Tools in Healthcare: The Role of Clinical Engineering. ACCE Clinical Engineering Symposium, Washington DC.
- 2006 Incident Investigation.
VA Certified Clinical Engineering Exam Review (audio teleconference).
- 2006 Isolated Power Systems: Do We Still Need Them?
AAMI 2006 Conference & Expo, Washington DC.
- 2005 Clinical Engineering.
CSU Biomedical Engineering Seminar, Fort Collins CO.
- 2005 The Future of Clinical Engineering (keynote address).
Virginia Biomedical Association, Charlottesville VA.

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- 2004 Bioengineering Entrepreneurs Panel Session.
Rocky Mountain Bioengineering Symposium, Fort Collins CO.
- 2004 Clinical Engineering and Healthcare Facilities Engineering: Engineering for Patient Care. ACCE Educational Teleconference Series.
- 2004 Clinical Engineering.
CSU Biomedical Engineering Society, Fort Collins CO.
- 2004 Consulting Engineering Panel Session
IEEE Centennial Subsection, Fort Collins CO.
- 2004 JCAHO Survival Skills (short course) and The Future of Clinical Engineering (short course). North Carolina Biomedical Association, Pinehurst NC.
- 2004 The Square Peg and the Round Hole: Murphy's Law and Medical Device Connections.
IEEE-EMBS 26th Annual International Conference, San Francisco CA.
- 2003 Adapting to Changing Times.
CABMET Educational Program, Denver CO.
- 2003 Clinical Equipment Models for Risk Assessment (with Ridgway).
ASHE 40th Annual Conference and Technical Exhibition, San Antonio TX.
- 2002 Bandwagons (keynote address) and JCAHO Forum (short course).
BAW-NCBA 19th Annual Educational Seminar and Vendor Show, Eau Claire WI.
- 2002 Medical Technology Management in U.S. Hospitals.
RMBS 38th Annual Conference, Copper Mountain CO.
- 2002 Medical Technology Management.
University of Connecticut, Clinical Engineering Internship Program, Hartford CT.
- 2002 Technical Iconoclasts: Hospitals Should be Run by Engineers.
AAMI 2002 Conference and Expo, Minneapolis MN.
- 2001 JCAHO Environment of Care: Surviving the Survey (short course).
University of Vermont Technical Services Program Seminar, Burlington VT.
- 2001 Medical Equipment Management Information: Who Needs It?
ASHE 38th Annual Conference & Technical Exhibition, Tampa FL.
- 2001 Technical Iconoclasts: The Internal Customer is an Oxymoron.
AAMI 2001 Conference and Expo. Baltimore MD.
- 2000 Clinical Engineering: Past, Present, and Future (If Any).
Colorado State University Biomedical Engineering Seminar Series, Fort Collins CO.
- 2000 EC Management Plans Without Major Brain Damage.
CAHED Winter 2000 Meeting, Denver CO.
- 2000 Firestopping for Hospitals.
Specified Technologies Incorporated, Las Vegas NV.
- 2000 Risk Management and the JCAHO Environment of Care Standards.
Farmers Insurance Group, Denver CO.

Professional and Character References:

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Available upon request.