

CURRICULUM VITAE

Yadin B. David

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UNDERGRADUATE EDUCATION:

- 1969-1972 "Technion" - Israel Institute of Technology Associate in Science
Major: Electrical Engineering
- 1972-1974 West Virginia University, Morgantown, W. Virginia,
B.Sc. Electrical Engineering

GRADUATE EDUCATION:

- 1974-1975 West Virginia University - M.Sc. Electrical Engineering -
Focus in Biomedical Sciences
- 1979-1983 School of Graduate Studies at West Virginia University
- Inter-Disciplinary Doctorate Program
- Doctorate Education Psychology

CERTIFICATION AND REGISTRATION:

- 2018 - Board Certified Diplomate in Forensic Engineering – The National Academy of Forensic Engineers – Certificate 1002S
- 2004 - Certified in Clinical Engineering – Healthcare Technology Commission (HTC) – Certificate No. 118.
- 1999 - Fellow of the American Board of Forensic Engineering and Technology, The American College of Forensic Examiners Institute - ID No. 17785.
- 1989 - Certified Clinical Engineer (C.C.E.) – The International Certification Commission (ICC) – Certificate No. 400.
- 1985 - Registered Professional Engineer in Biomedical Engineering, (P.E.), State of Texas Registration – Certificate No. 91626.

CERTIFICATION AND REGISTRATION (Cont.):

1981 - 2008 International Health Care Safety Professional (C.H.S.P.), Board Executive Level. - Certificate No. 263.

PROFESSIONAL EXPERIENCE:

2008- Present Principal, Biomedical Engineering Consultants, L.L.C., Houston, Texas.

2017- Present Capital Medical University School of Biomedical Engineering , Honorary Director

2016- Present Chinese Society of Clinical Engineering, Overseas Advisor

2016- Present Medical Bridges Advisory Council, member (www.medicalbridges.org).

2016- 2018 Inner Mongolia People's Hospital, Visiting Professor

2015- 2018 Associate editor, IFMBE/International Journal of Clinical Engineering & Health Technology Assessment (CEHTA).

2018 – 2022 Consultant, Device Good Manufacturing Practice Advisory Committee, Food and Drug Administration (FDA), Department of Health & Human Services, Silver Spring, Maryland.

2014- 2018 Chairman, Device Good Manufacturing Practice Advisory Committee, Food and Drug Administration (FDA), Department of Health & Human Services, Silver Spring, Maryland.

2014- 2017 Judge, Medical Device Design Excellence Award, UBM Canon, www.MDEAwards.com.

2013-Present member, Past Chairman, Health Technology Training Group (HTTG), International Union for Physical and Engineering Sciences in Medicine (IUPESM).

2011- Present Editorial Board Member, Journal on Health and Technology, Springer, New York, NY, USA.

2009 - 2016 Interim CEO, Canopy Edge, Inc., Houston, Texas.

2008-Present Asst. Professor (adj.), University of Texas, School of Public Health, Houston, Texas.

2008- 2015 Editorial Board advisor, Biomedical Safety & Standards, Philadelphia, Pennsylvania.

2006-Present Board member and past Chairman, Clinical Engineering Division, International Federation of Medical and Biological Engineering (IFMBE).

2002-2008 Senior Biomedical Research Service Credentials Reviewer, Food and Drug Administration, Rockville, Maryland.

PROFESSIONAL EXPERIENCE (Cont.):

- 2003- 2012 Adj. Professor, Biomedical Engineering Program, Health Sciences Division, Technologico De Monterrey School of Biotechnology and Health, Mexico.
- 1993- 2008 Advisor, World Health Organization (WHO/PAHO) – Healthcare Infrastructure and Technology, Washington, DC.
- 1993- 2016 Consultant, General Hospital and Personal Use Devices Panel, Center for Devices and Radiological Health, Food and Drug Administration (FDA), Department of Health & Human Services, Rockville, Maryland.
- 1987-2010 Assistant Professor (Adj.), Department of Pediatrics, Baylor College of Medicine, Houston, Texas.
- 1982- 2008 Director, Biomedical Engineering Department, Texas Children's Hospital, Houston, Texas.
- 1976- 2008 Advisor, Biomedical Engineering Consultant, Houston, Texas.
- 2004- 2007 Member, Advisory Board Mobile Aspects Corporation, Pittsburgh, Pennsylvania.
- 2004 -2006 Judge, Medical Design Excellence Awards, Canon Communications, www.MDEAwards.com.
- 1998- 2005 Advisor, ORBIS' International Program Advisory Council (IPAC).
- 1996- 2005 President, Center for Telemedicine Law (CTL), Washington, D.C.
- 1982- 1996 Director, Biomedical Engineering Department, Texas Children's Hospital/ St. Luke's Episcopal Hospital/Texas Heart Institute, Houston, Texas.
- 1998- 2001 Director, Center for TeleHealth, Texas Children's International, Houston, Texas.
- 1994 Consultant, Department of Health & Human Services, Food and Drug Administration (FDA), Neurological Devices, Washington, D.C.
- 1991- 2000 Advisor, NASA Technology Applications Team, Biomedical Advisory Group, Houston, Texas.
- 1984- 1999 Associate Professor (Adj.), University of Texas Health Sciences Center at Houston, Department of Anesthesiology, Houston, Texas.
- 1998 Advisor, Orthopedics and Rehabilitation Devices Advisory Panel, Food and Drug Administration (FDA), Rockville, Maryland.
- 1984- 1986 Lecturer, Baylor College of Medicine, Department of Community Medicine, Houston, Texas.

PROFESSIONAL EXPERIENCE (Cont.):

- 1979-1982 Research Assistant Professor, Department of Anesthesiology, West Virginia University School of Medicine, Morgantown, West Virginia.
- 1976-1982 Director, Biomedical Engineering Section, West Virginia University Hospital, Morgantown, West Virginia.
- 1976-1979 Research Instructor, Department of Anesthesia, West Virginia University Hospital, Morgantown, West Virginia.
- 1975-1976 Design Engineer, Rockwell International, Collins Radio Division, Cedar Rapids, Iowa.
- 1974-1975 Research Assistant (Part Time), W.V.U. Department of Physiology and Biophysics (American Heart Association Grant).
- 1974-1975 Fulfilled the M.Sc. Degree requirements – Animal Research Investigation of New Pacemaker Electrode Design with Dr. T. J. Tarnay, M.D. Division of Thoracic Surgery - W.V.U. School of Medicine.
- 1974-1975 Instructor, Electrical Engineering Department, W. Virginia University College of Engineering.
- 1973-1974 Orderly, Operating Room, West Virginia University (W.V.U.), Medical Center, Morgantown, West Virginia.
- 1969-1972 Senior Electrical Technician, Advanced Systems, Design, Testing and Simulation, "Armament Authority Development," Israel.

HONORS AND AWARDS:

- 2018 - Inducted into the Hall of Fame, American College of Clinical Engineering.
- 2017 - Inducted into the Academy of Chemical and Biomedical Engineering, WVU, Morgantown, W.Va.
- 2016 - Honorary Member of the Italian Clinical Engineers Association, For contribution to the development of the profession worldwide and example for professional experience,
- 2014 - Distinguished Professional Achievement and Service, The Academy of Distinguished Alumni, Lane Dept. of Computer Science and Electrical Engineering, WVU, Morgantown, W.Va.
- 2013 - Academic Biomedical Engineering program evaluator, ABET, Washington, D.C.
- 2013 - Distinguish Leadership Award for exceptional contribution to the clinical engineering profession in China.
- 2011 - American College of Clinical Engineering (ACCE) – Life Time Achievement Award
- 2011 - University of Pavia hospital – Clinical Engineering graduate program – program advisor
- 2011 - Designated Ambassador – IEEE Public visibility program
- 2009 - Designated Technical expert – IEEE Public visibility program

HONORS AND AWARDS (Cont.):

- 2008 - American College of Clinical Engineering (ACCE)/Association for the Advancement of Medical Instrumentation (AAMI) - Robert L. Morris International Humanitarian Award – Recipient.
- 2008 - Health Data Management, the Nursing Information Technology Innovation Award, Honorable Mention
- 2007 - ECRI Institute Health Technology Management Award
- 2007 - Medical systems integration Award, HIMSS Industry affiliated
- 2006 - Texas Children’s Hospital, Patient Safety Award from CEO/Mark Wallace
- 2006 - ECRI Institute Achievement Award – Customer Service program.
- 2004 - The Institute of Electrical and Electronics Engineers (IEEE), Senior Member.
- 2003 - Tec De Monterrey, School of Medicine, Mexico – Visiting Professor.
- 2002 - Chinese PLA Postgraduate Medical School - Visiting Professor.
- 2001 - Food and Drug Administration (FDA), Commissioner’s Special Citation – Recognition Recipient.
- 2000 - American Board of Forensic Engineering and Technology - Diplomat.
- 1999 - American College of Forensic Examiners Institute – Awarded Fellow status.
- 1999 - American College of Clinical Engineering - Awarded Fellow status.
- 1993 - IEEE/EMBS Distinguished Lecturers.
- 1992 - The American Institute of Medical and Biological Engineering (AIMBE) - Inducted Founding Fellow.
- 1975 - Kirkland Scholarship - Recipient.
- 1974 - Eta Kappa Nu Association - National Honorary Association of Electrical Engineering.
- 1973 - West Virginia University, Engineering Dean's Honor List.

PROFESSIONAL SOCIETIES AND COMMITTEE MEMBERSHIPS:

Healthcare Technology Foundation (HTF) www.thehtf.org,

- President Emeritus – (2008-Present)
- Founder, President – (2002-2006)

Biomedical Advisory Committee (BAC) – Chairman, (2003-2014), member (2015-2016)

National Fire Protection Association - (N.F.P.A.) - Technical Committee on:

- Health Care Facilities (NFPA-99) sections on:
 - Medical Gas Delivery Systems - Chairman (2002- 2008)
 - The Safe Use of Electrical Equipment (2) Medical Gases (1977 - 2010).
- Laser Safety Committee (NFPA-115) - Chairman - (1998-2008), member (2015-2019).

Association for the Advancement of Medical Instrumentation - (A.A.M.I.)

- Application of Quality Systems to Medical Device Data Systems Working Group (MDDS/QS) - Co- Chairman/member (2011-Present)
- Uniformed Terminology and Taxonomy Initiative - Chairman (2008-2012)
- Electro Magnetic Compatibility (EMC) Committee (1998-Present).
 - Electrical Safety Committee (1995-Present).
 - Education Committee (1985).

National Society of Professional Engineers (NSPE) (1985- 2006, 2017-present).

PROFESSIONAL SOCIETIES AND COMMITTEE MEMBERSHIPS (Cont.):

Texas Society of Professional Engineers (NSPE-TX) (2017- present).

National Academy of Forensic Engineers (NAFE), Senior member (2018)

National Forensic Center Distinguished Expert (1987-2017).

American College of Clinical Engineering (ACCE)

- Healthcare Technology Foundation – Founder & 1st President (2002-present)
- Bylaws Review Committee - Chairman (2001)
- Elected Fellow (1999)
- Nominations Committee Chairman (1993)
- Charter member (1990)
- Founder & 1st President (1990)

Biomedical Engineering Advisory Council - Texas A&M University,
Charter Member, (1998-2008).

Journal of Medical Engineering and Physics - Elsevier Science -
Editorial Review Board (1995-2008).

Journal of Health & Technology – Springer - Editorial Review Board

National Recall Alert Center – Charter Member (1991-2008).

Center for Telemedicine Law (CTL) - Charter member, 1st President (1996-2004).

Engineering in Medicine and Biology Society - (E.M.B.S.):

- Annual International Conference - Technical Program Committee (2002-2009).
- Technical Committee on Clinical Engineering - Chairman (1982-86, 1990-94, 2002-06).
- Co - Chairman of the Pittsburgh Section (1982 - 1983).

American Institute of Biological Sciences (AIBS) and the United States Army Research and
Material Command (USAMRMC), Peer Review Panel on the “Defense Women’s Health
(DWH) Research Programs,” Baltimore, Maryland, - Scientific Grant Reviewer (1999).

American Society for Healthcare Engineering (ASHE)

- TeleHealth Committee (1996-2000).
- Clinical Engineering and Technology Management Committee (1993-1997).

International Federation of Medical and Biological Engineering (IFMBE)

- Clinical Engineering division chairman (2008-2011)
- Clinical Engineering Division Board member (2008-present)

International Union for Physical and Engineering Sciences in Medicine (IUPESM)

- Health Technology Task Group (2013- present), Chairman (2016-2019)

PROFESSIONAL SOCIETIES AND COMMITTEE MEMBERSHIPS (Cont.):

United States - Israel Science and Technology Commission, BiNational Committee (1996-2000).

Association of Field Service Managers International - (A.F.S.M.) (1995-2001).

Texas State Technical Institute - Biomedical Technology Program Adviser (1994).

American Heart Association-Texas Affiliate-Research Allocations and Advisory Committee-Grant Application Reviewer (1993-1996).

The Institute of Electrical and Electronics Engineers (IEEE):

- Technology policy Committee, I.E.E.E./TAB, Washington, DC (1993-1995).
 - Delegate to Technical Committee - NFPA 99 - Health Care Facilities.
- Standards Coordinating Committee Panel #18.
- Accreditation Board for Engineering Technology, Evaluator (ABET) (1988-1995).
 - Electrical/electronics, Biomedical and Instrumentation Engineering Technology
- Delegate - Health Care Engineering Policy Committee (HCEPC) (1986-1995).
 - Chairman (1993-1995).
- National Fire Protection Association - Delegate (1977-1995).

American Institute of Medical and Biological Engineering (AIMBE) –

- Inducted Founding Fellow (1992)
- Founding Member (1992-present).

University of Houston, College of Architecture - The Health Environment Institute Advisory Board (1988-1995).

Joint Commission on Accreditation of Healthcare Organization (JCAHO)

- The Committee on Health Care Safety (1987-1993).

Society of Critical Care Medicine (S.C.C.M.) (1986-1997).

International Certification Commission for Clinical Engineering and Biomedical Technology (1986-1990).

Alliance for Engineering in Medicine and Biology, (A.E.M.B.)

- Education Committee Chairman (1986).
- Project Advisory Committee - Chairman (1984-1985).

American Society for Testing and Materials - (A.S.T.M.)

- Anesthetic & Respiratory Equipment F-29 - Committee Member (1983-1995).

Houston Community College (H.C.C.) - Program Advisor Electronics Technology (1982-1993).

West Virginia University (College of Engineering and School of Medicine)

- The Bioengineering Graduate Program Committee - Member (1981-1982)
- Advisor Biomedical Engineering Program.

HOSPITALS INSTITUTIONAL COMMITTEES**Chairman:**

- Facility and Equipment Safety Subcommittee (2000-2008, 1992-98).
- Medical Technology Evaluation Committee (1989-2008).
- Equipment and Facilities Committee (1998).
- Television and Audiovisual Committee (1987-1995).
- Advisory Committee for the Administrative and Management Forum (1986-1987).

Co-Chairman

- Cardiac Care Unit Monitoring Equipment Committee (1987-1988).

Member:

- Equipment and Facilities Committee (1999-2008).
- Hospital Information Systems Advisory Committee (1997- 2008, 1988-1990).
- Capital Budget Committee (1991-2008).
- Cardiopulmonary Resuscitation Committee (1991-2004).
- Product Standardization and Utilization Committee (1990-2008).
- Safety Committee (1982-2008).
- Quality Assurance Committee (1989-1995).
- Cardiac Catheterization Laboratory Construction Committee (1985-1989).
- Laser Committee (1981-2004).
- Risk Management Committee (1986-1989).

PUBLICATIONS AND PRESENTATIONS:

- Y. David: "Medical Device Regulations", University of Houston, Biomedical Engineering Dept., 2020.
- A. Hossain, M. Ahmed, R. Islam, Y. David:" Evaluation of Performance Outcomes of Medical Equipment Technology Management and Patient Safety: Skilled Clinical Engineer's Approach", Global Clinical Engineering Journal, Vol. 1, Issue 2, 2019. *
- L. Nascimento, S. Calil, T. Judd, Y. David: "Analysis of IFMBE-CED 2017 Worldwide Clinical Engineering Survey", Global Clinical Engineering Journal, Vol. 2, Issue 1, 2019. *
- Y. David: "Do Patient Outcomes Depend on Expertise of Clinical and Forensic Engineers", Global CE Day Congress, Chengdu, China, Oct. 21, 2018.
- T. Judd, Y. David: "Making a Difference – Global Health Technology Success Stories: Overview of over 400 submissions from 125 Countries", Global Clinical Engineering Journal, Vol. 1, Issue 1, 2018. *
- Y. David: "The Commitment to Professional Career and Stewardship Must be Declared by Every Clinical Engineer", Chengdu, China, CE Day Congress, Oct. 22, 2018.
- Y. David: "Dependence of Patient Outcomes on Clinical and Forensic Engineers". University of Houston, Biomedical Engineering Graduate Seminar, Aug. 31, 2018.

* Peer Review Paper

PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David: “State of International Clinical Engineering and Health Technology Management”, The 25th National Italian Clinical Engineers Congress, Rome, Italy, May 10, 2018. *
- Y. David: “Forensic Engineering – What is it and Why it is Important to my Medical Device Business” and “Forensic Engineering – Nuggets to Learn From” the Texas Medical Device Alliance, Summer 2018 workshop, Austin, TX, July 19, 2017.
- Y. David: “Preventable Adverse Event; How To?” 2nd International Clinical Engineering and Health Technology Management Congress, Sao Paulo, Brazil, Sept. 22, 2017. *
- Y. David: “Risk Management in Medical IT Networks?” 2nd International Clinical Engineering and Health Technology Management Congress, Sao Paulo, Brazil, Sept. 23, 2017. *
- Y. David: “Clinical Engineering” chapter in *The Biomedical Engineering Handbook 4/e*, CRC Press/Taylor & Francis Group, LLC, California, USA, 2017. *
- Y. David: “From the Research Lab to the Bedside”, AAMI Annual Conference & Expo, June 11, 2017, Austin, Texas. *
- Y. David, E. Iadanza: Global CE – HTM Evidence Based Results, World Health Organization, 3rd Global Forum on Medical Devices, Geneva, Switzerland, May 11, 2017. *
- Y. David, C. Borrás, M. Secca: Defining Medical Imaging Requirements for a Rural Health Center, World Health Organization, 3rd Global Forum on Medical Devices, Geneva, Switzerland, May 11, 2017. *
- Y. David, M. Medvedec, J. Wear: Global Professional Credentialing Program, World Health Org., 3rd Global Forum on Medical Devices, Geneva, Switzerland, May 11, 2017.*
- Y. David, F. Hosea, T. Judd: Linking Global HT Innovation and Standards – From the Research Lab to the Bedside, World Health Organization, 3rd Global Forum on Medical Devices, Geneva, Switzerland, May 11, 2017. *
- Y. David, T.J. Clark, R. Rivas: Improving Emergency Preparedness Through Hybrid Interactive Training, World Health Organization, 3rd Global Forum on Medical Devices, Geneva, Switzerland, May 11, 2017. *
- Y. David: From Lab Bench to Bedside – Steps in Commercialization of Healthcare Innovation, XVII Italian Clinical Engineering Association Annual Congress, Genoa, Italy, April 7, 2017. *
- T. Clark, Y. David, B. Franklin, M. Lane: “Strategic Planning – Tools to Map the Future”, AAMI Annual Conference & Expo, June 5, 2016, Tampa, FL.
- Y. David: “*Reframing Product Life Cycle for Medical Devices*” Chapter 1, Managing Medical Devices Within a Regulatory Framework, Elsevier Inc. Publishing, 2016.

* Peer Review Paper

PUBLICATIONS AND PRESENTATIONS (Cont.):

Y. David: *Clinical Engineering in Growing Markets – The China Case Study*, Chapter 2, Clinical Engineering from Devices to Systems, Academic Press, Elsevier, 2016. *

Y. David: *Clinical Engineering and Disaster Preparedness*, Clinical Engineering from Devices to Systems, Academic Press, Elsevier, 2016. *

M. Funk, J.T. Clark, Y. David: “Clinical Alarms Management”, Seminar chair, ”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015. *

Y. David: “Mobile Technology; Implementation, Barriers and Policy Issues - Industrialized Areas”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015. *

Y. David, C. Borrás, F. Hosea, D. Dreps: “Critical role of sustaining technology and utilities in healthcare Institutions Facing Disaster Through Development of an International Center for Information and Training of Health Technology Managers on Disaster Preparedness”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015.*

Y. David: “Current State of Clinical Engineering Education and Career”, Proceedings of the World Congress on Medical Physics and Biomedical Engineering, Toronto, Canada, June 7-12, 2015. *

Y. David, S. Eagles, K. Fuchs, T. Cohen, P. Raymond, T. Cooper: “Managing Risks of Integrated Systems and Networks in Healthcare Environments”, AAMI Annual Conference and Expo, Denver, CO, June 2015.

Y. David: “Are we Ready for Career in Biomedical Engineering?”, The 29th Annual Academy of Chemical Engineers, WVU College of Engineering and Mineral Resources, April 2015.

Y. David, C. Boras, F. Hosea, D. Dreps: “Promote Awareness of the Critical Role of Sustaining Technology and Utilities in Healthcare Institutions facing Disaster by Exploring the Development and Establishment of an International Center for Information and Training”, Nineteenth World Congress on Disaster and Emergency Medicine proceedings, Cambridge Press, Pre Hospital and Disaster Medicine, Vol. 30, Cape Town, South Africa, April 21-24, 2015. *

Y. David: “After Struggling for a Generation to Climb the Ramp – Is TeleHealth on the Highway Yet?”, Colorado HIMSS 2014 Education Day, Denver, CO, November 7, 2014.*

Y. David: “Current Status Quo of Clinical Engineering Education and Suggestions”, the First International Congress of Clinical Engineering & Information Technology, Wuxi, China, September 24-26, 2014. *

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PUBLICATIONS AND PRESENTATIONS (Cont.):

C. Borrás, S.J. Calil, Y. David, N.E. Pallikarakis, M.F. Secca: “Radiological Equipment Maintenance Issues”, 6th European Conference of the International Federation for Medical and Biological Engineering, IFMBE Proceedings, Vol. 45, pp. 926, Dubrovnik, Croatia, Sept. 7-11, 2014. *

Y. David, C. Boras, F. Hosea: “Disaster Preparedness Program for Health Facility’s Technology Managers”, 6th European Conference of IFMBE, IFMBE proceedings, Vol. 45, p. 1015, Dubrovnik, Croatia, September 7-11, 2014. *

C. Boras, Y. David: “The Role of Key Professionals in Improving Patient Outcomes through Technology Life Cycle Management – Medical Physicists, Biomedical Engineers, Clinical Engineers”, the Second World Health Organization (WHO) Global Forum on Medical Devices, Geneva, Switzerland, Nov. 22-24, 2013. *

Y. David, C. Boras, F. Hosea: “Disaster Preparedness Tutorial for Healthcare Technology Managers”, the Second World Health Organization (WHO) Global Forum on Medical Devices, Geneva, Switzerland, Nov. 22-24, 2013. *

Y. David: “The Role of Safety and Quality throughout Medical Devices Life Cycle”, Clinical Engineering Advisory Council, Shanghai, China, Sept. 24, 2013. *

Y. David: “Regulation and Standards in Medical Device Management”, Clinical Engineering Advisory Council, Shanghai, China, Sept. 25, 2013.

Y. David: “The BMET Role in Keeping Networking, Integration and Alarm Management Safe”, Colorado Association of BMETs, Annual Meeting Key note, Denver, Co. Aug. 17, 2013.

Y. David, M. Castaneda: “Succession Strategy for Technology Managers”, ACCE Education Series, Webinar, March 14, 2013.

R. Calderon, Y. David: “TRIAD Catheter System Engineering Delivery Solutions for Medical Applications”, IEEE/EMBS 1st Conference on Translational Engineering in Health & Medicine, Houston, Texas, USA, Nov. 2012.*

Y. David: “Technology Management Principles for Medical Equipment”, Clinical engineering certification workshop, Chinese Congress of Medical Engineering and Information Technology, Ningbo, China, November, 2012.

Y. David: “Evolution of Clinical Engineering and Information Technology”, Chinese Congress of Medical Engineering and Information Technology, Ningbo, China, November 2012.

Y. David: “The Changing Role of Clinical Engineering in Healthcare IT – Seizing the Opportunities”, North Texas Biomedical Association, Dallas, TX, October 2012.

Y. David: “Clinical Engineers and Clinical Outcomes”, ACCE/AAMI Clinical Engineering Symposium, AAMI Annual Conference, Charlotte, N.C, June 2, 2012. *

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PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David, T. Clark: “National Clinical Alarms Survey; 5 Years Comparison of Issues, Improvements and Priorities”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012. *
- Y. David, W. Hyman, J. Wear: “Adverse Event Investigation of Medical Product”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012. *
- Y. David, T. Cooper, S. Eagles: “Risk Management of Medical Devices’ Network”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012.*
- Y. David: “Emergency Preparedness Plan – The Clinical Engineers’ Role”, 2012 World Congress Medical Physics and Biomedical Engineering, International Federation of Medical and Biological Engineering (IFMBE), Beijing, China, May 26-31, 2012.*
- Y. David: “Healthcare Technology in the US – Adoption and Regulations”, The Trendlines Group/Ministry of Industry Trade & Labor workshop, Houston, TX, March 27, 2012.
- L. Cordisco, Y. David: “Preparing Biomed For the Future”, Horizon Supplement to Biomedical Instrumentation & Technology, AAMI, Fall 2011*
- Y. David: “Role of Clinical Engineers in System Risk Management”, IEEE Galveston Bay Section & NASA Alumni League Seminar, Johnson Space Center, Houston, TX, Oct. 2011.
- T. Clark, T. Bauld, Y. David, et al: “2011 National Clinical Alarms Survey – Perceptions, Issues, Improvements, and Priorities of Healthcare Professionals” Healthcare Technology Foundation, AAMI, ACCE, National Alarm Summit, Washington, D.C., Oct. 2011*
- Y. David, R. Calderon: "Percutaneous Closed-Loop Perfusion (PCP)", 2011 Innovation Conference and Showcase, Houston Technology Center, Houston, Texas, Sept. 2011.
- Y. David: "Medical Safety and Risk Control Assessment" , The 5th Clinical Engineering Certification Workshop, Huangshan, China, Sept. 22, 2011.*
- Y. David: "Healthcare Technology Management - Convergence of CE-IT and Telecommunications", The 12th Annual Meeting of Medical Engineering Society of Chinese Medical Association and the 2011 Chinese Congress of Clinical Engineering & Digital Medicine, Haungshan, China, Sept. 23-24, 2011. *
- Y. David: “Are Medical Devices Mobility and Security Antagonists?” Health Management Technology (HME), Issue 23, Thought Leaders Section, <http://www.healthmgttech.com/index.php/online-only-features/online-only-features/are-medical-devices-mobility-and-security-antagonists.html>, June 14, 2011.

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PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David: "Healthcare Puts Tablets to the Test," InformationWeek Healthcare, www.informationweek.com, May 21, 2011.
- Y. David: "System Risk Control in Healthcare Delivery Organizations," Mobile Healthcare Technology Summit, University of Houston, Houston, Texas, May 5, 2011.
- Y. David, Z. Dan, W. Hyman, Z. Kun: "Clinical Engineering Development in China," Journal of Clinical Engineering, April/June 2011, pg. 68-71. *
- Y. David: "AAMI/IEC 80001-1 – Sharing the Burden: Collaborating to Keep Networks Safe, Secure and Effective," AAMI Webinar, April 7, 2011.
- Y. David: "Development of Medical Device Policies," Who Medical Device Technical Series, World Health Organization (WHO) Press, Geneva, Switzerland, March 5, 2011.*
- Y. David: "Evolving Medical Technology: the New Role of Clinical Engineering," 11th National Congress of the Association of Italian Clinical Engineers, Torino, Italy, February 25, 2011.*
- Y. David: "The Changing Role of Engineering in Healthcare IT: Seizing the Opportunities," Health Forum Web Seminar, February 7, 2011.
- T. Cooper, Y. David, S. Eagles: "Getting Started with IEC 80001, Essential Information for Healthcare Providers Managing Medical IT-Networks," Association for the Advancement of Medical Instrumentation (AAMI), Arlington, Virginia, 2011. *
- Y. David: "Understanding & Benefiting from AAMI / IEC 80001-1, Essential Information for Networked Technology Suppliers," AAMI Webinar, January 19, 2011.
- Y. David: "Medical Equipment – Role and Responsibilities in NGO World," 5th Annual Med Surplus Network Conference, Houston, Texas, November 4, 2011.
- Y. David: "Event Investigation – How Did It Happen?" 2010 FBS Symposium Schedule, Florida Biomedical Society, Orlando, Florida, October 21-24, 2010. *
- Y. David: "ISO 80001 – Challenges of Integrating Medical Device with Networks," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11th Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.*
- Y. David: "Risk Management/Safety and Human Factors," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11th Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.*
- Y. David: "Introduction to Clinical Engineering Certification Process and Examination," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11th Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010. *

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PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David: "Healthcare Technology Management," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11th Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.
- Y. David: "Clinical Engineering Certification Training," 2010 Chinese Congress of Clinical Engineering & Digital Medicine and the 11th Annual Meeting of Medical Engineering Society of Chinese Medical Association, Shanghai, China, September 9, 2010.
- Y. David: "Professional Competency of Clinical Engineering," Proceeding of XII Mediterranean Conference on Medical and Biological engineering and Computing - Medicon 2010, IBMBE, Porto Carraos, Greece, May 28, 2010. *
- Y. David: "Benchmarking," Biomedical Advisory Council (BAC) Meeting, Tampa, Florida, May 24, 2010.
- L. Lloyd, Y. David, et.al.: "The Survival of the Smartest, This year's group of MDEA winners" Medical Design Excellence Awards, MD+DI (Medical Device and Diagnostic Industry), April 2010, pg. 24-29.
- Y. David: "Planning the 1st Global Medical Device Forum," World Health Organization, Geneva, Switzerland, December 2009.
- Y. David: "Role of Clinical Engineering in International Project," Technology Management Group, World Health Organization, Rio de Janeiro, Brazil, November, 2009.*
- Y. David: "Working Together – Sharing the Sand Box," Medical Device and IT Integration; Managing the Challenges of Convergence, ECRI Webinar, September 16, 2009.*
- Y. David: "Reaching Higher, 10 Ways to Improve Device Safety", 2009 AAMI Meeting, Baltimore, Maryland, June 6-8, 2009.
- Y. David: "Practical Uniform Terminology for Medical Device Problems," 2009 AAMI Meeting, Baltimore, Maryland, June 6-8, 2009. *
- Y. David: "How Do You Improve Patient Safety" and "Improving Communication ... One Term at a Time," Tech World, AAMI News, June 2009, pg. 11-13.*
- M. Vockley, Y. David, B. Patail, L. Fennigkoh, R. Schrenker, A. Currie, C. Campbell: "Reaching Higher ... 10 Ways to Improve Device Safety," Biomedical Instrumentation Technology (BI&T), January/February 2009, pg. 20-26.
- M.F. Dulay, D.K. Murphy, P. Sun, Y. David, M.S. Beauchamp, D. Yoshor: "Computer-controlled Electrical Stimulation for Quantitative Mapping of Human Cortical Function", Journal of Neurosurgery, Vol. 110, June 2009, pp.1300-1303, American Assoc. of Neurosurgeons.*

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PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David: "Trends in Clinical Engineering Practices," Revista Ingenieria Biomedica, Antioquia School of Engineering – CES University, Medellín, Colombia, biannual publication Volume 2, Issue 4, July-December 2008, <http://revistabme.eia.edu.co/index2.htm>.*
- Y. David: "Yadin David Launches Biomedical Engineering Consultants," Journal of Clinical Engineering, Vol. 33, No. 4, October/December 2008, pg. 165.
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- Y. David, and T. Clark: "Clinical Alarms Improvement Initiative," 4th Annual conference for MedSun Representatives, San Diego, California, October 7, 2005
- Y. David: "Advanced Development of Clinical Engineering," "Cases of Clinical Engineering Program Measurements and Standards", "Safe Application and Quality Control of Medical Instruments", and "Wireless and Radio Frequency Identification Tags (RFID) Used for Assets Control", 4th International Clinical Engineering Symposium, Beijing, China, September 6-7, 2005.
- Y. David: "Medical Technology Management: From Planning to Application," "Risk Measurement Tool for Managing Medical Technology," 27th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS), Shanghai, China, September 1-4, 2005.
- Y. David: "Healthcare Technology Management (HTM)", "Technology Planning and Assessment – Case Studies", "Medical Devices, Information Systems and Telemedicine," "Technology Planning", "Refurbished and Donated Medical Equipment," "Medical Devices on the Network and Safety Systems", "Telemedicine: I can See the Highway, but Where is the Ramp?", "Two Case Studies: Planning", and "Electromagnetic Compatibility in Healthcare Facilities", Health Technology Management & Clinical Engineering Workshop, Cartagena, Colombia, July 11-15, 2005.
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- Y. David: "Biomedical Engineering & Television Services Department," Information Services, Texas Children's Hospital, Houston, Texas, May 20, 2005.
- Y. David: "Supporting Technology in the Interoperability Era," AAMI Symposium, Tampa, Florida, May 16, 2005.
- Y. David: "Strategy for Impacting Safety of Medical Devices Use" ACCE Healthcare Technology foundation Board of Directors, Houston, Texas, April 14-17, 2005.

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- Y. David: “Technology and Supplier Evaluation in Health Care,” 3rd International Clinical Engineering Symposium, Beijing, China, November 10, 2004.
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- Y. David: “The Role of Performance Evaluation in Clinical Engineering Career,” IV Simposio Internacional de Engenharia Clinica do Hospital Israelita Albert Einstein, Sao Paulo, Brazil, October 15-16, 2004.
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- Y. David: "Electromagnetic Compatibility – Clinical (EMC) Study Report," Solutions for Healthcare, Sprint Wireless Symposium, Dallas, Texas, July 15, 2004.
- Y. David: "Down in the Digital Trenches: Equipping the Biomedical Community for the Future of Technology," AAMI 20th Annual Conference on Clinical Engineering Productivity and Cost Effectiveness, Boston, Massachusetts, June, 2004
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- Y. David: "Benchmarking Who Needs It?," 2nd International Clinical Engineering Fellowship, Shanghai, China, November 8-14, 2003.
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Y. David, and E. Sloane: Co-Chairmen, "Clinical Engineering Practices Review Pre-Conference Workshop," 25th Annual International Conference of IEEE Engineering in Medicine and Biology Society, Cancun, Mexico, September 17-21, 2003.

Y. David: "Disaster Preparedness – The Role of Clinical Engineering," ACCE Audio Telecast, September 18, 2003.

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- Y. David: "Do We Need a Professional Body?", Medical & Biological Engineering & Computing News/Clinical Engineering Update, IFMBE Newsletter, No. 2, January 1989. *
- Y. David: "Clinical Engineering", University of Houston, Cullen College of Engineering, BioEngineering Research Center, Houston, Texas, December 1988.
- D. Walding, Y. David, and J. Klasen: "A Computerized Method for Environmental Gas Analysis in the Hospital Setting", Proceedings of the 10th IEEE/EMBS International Conference, New Orleans, Louisiana, November 1988.
- Y. David: "Strategy for Patient-Care Technology Assessment", Proceedings of the 10th IEEE/EMBS International Conference, New Orleans, Louisiana, November 1988.
- Y. David: "Comprehensive In-House Service Organization - Objectives and Expectations", Medical Device Manufacturer Seminar, Washington, D.C., November 1988.
- Y. David: "The Professional Clinical Engineer" - Guest Editorial, Journal of Clinical Engineering, Vol.13, No. 5, September/October 1988. *
- Y. David: "The Innovation in Medical Technology and Its Impact on Healthcare Facilities", University of Houston - The Health Environments Institute, Houston, Texas, September 26, 1988.
- E.J. Truemper, L.S. Jefferson, and Y. David: "Advances in Measurement of Respiratory Gas Exchange in Critically Ill Patients," 1988 World Congress on Medical Physics and Biomedical Engineering, San Antonio, Texas, 1988.

* Peer Review Paper

PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David: "Ethical Issues in the Clinical Engineering Profession", IEEE/EMBS Magazine Special Section, Vol. 7, No. 2, June 1988. *
- Y. David, D.Z. Myerberg, and T. Ebling: "G.T.I.I. - A Measure of Synchrony of Infant Ventilation," The 4th European Congress on Intensive Care Medicine, Baveno, Italy, June 1988.
- Y. David: "The Professional Clinical Engineer", Proceeding of AAMI Annual Meeting and Exhibit, Washington, D.C., May 1988.
- Y. David: "The Impact of Evolving Biomedical Technologies and Devices on the Health Care Delivery System", American Institute of Architects, Houston Chapter Committee on Architecture for Health, Houston, Texas, March 1988.
- Y. David, A. Wald: "Codes, Standards, and Regulations", Chapter in 'Encyclopedia of Medical Devices and Instrumentation', John G. Webster (editor), Wiley, Interscience, John Wiley & Sons, Inc., 1988. *
- Y. David (Contributor): "Health Care Facilities Handbook-1987", National Fire Protection Association, Quincy, Massachusetts, 1987. *
- Y. David: "Ethical Responsibilities of the Clinical Engineer", Ethical and Economic Issues in Biomedical Engineering Technology and Technological Advances in Models for Biomedical Research, IEEE/EMBS Symposia, Boston, November 1987. *
- Y. David: "Issues in Clinical Technology Assessment", Proceeding of the VII Nordic Meeting on Medical and Biological Engineering, Trondheim, Norway, 1987.
- Y. David, D. Rohe: "Productivity in a Comprehensive Clinical Engineering Program", IEEE/Engineering in Medicine and Biology Society Annual Meeting, Dallas, Texas, 1986.
- Y. David: "Clinical Engineering in a Large Medical Center", Proceedings of the U.S. - Japan Symposium on Biomedical Engineering, Baltimore, Maryland, 1986.
- Y. David, D. Rohe: "Clinical Engineering Program Productivity and Measurements", Journal of Clinical Engineering, Vol. 11, No. 6, Pg. 435-443, November-December 1986. *
- Y. David: "Management Tools for Clinical Engineering Departments", Proceeding of the Eighth Annual Conference of the Engineering in Medicine and Biology Society, Fort Worth, Texas, November 1986.
- Y. David, R.A. Gutcheck, D. Cotton, and P.V. Roby: "Continuous Biochemical Monitoring Utilizing Solid State Spectrophotometry", (Abstract), The 3rd International Symposium on Continuous Transcutaneous Monitoring, Zurich, Switzerland, October 1986.
- Y. David: "The Medical Instrument Life Cycle Strategy for Clinical Engineers", Engineering in Medicine and Biology Magazine, Vol. 4, No. 2, June 1985. *

* Peer Review Paper

PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David, J. Truett: "The Story of Diagnosis Related Groups", Engineering in Medicine and Biology Magazine, Vol. 4, No. 2, June 1985. *
- Y. David, D.Z. Myerberg, et al: "The Synchronometer: A Prototype Device to Measure Infant/Ventilator Synchrony", IEEE Engineering In Medicine and Biology Magazine, Vol. 4, No. 1, March 1985. *
- Y. David: "The Application of Biomedical Engineering Technologies to the Health Care Delivery System Facilities", University of Houston, College of Engineering, The Biomedical Engineering Program, Houston, Texas.
- Y. David, D.Z. Myerberg, et al: "The Synchronometer: A Prototype Device to Measure Infant/Respiration Synchrony", Proceeding of the 14th International Conference on Medical and Biological Engineering and The 7th International Conference on Medical Physics, Finland, 1985.
- Y. David, R.A. Gutcheck, et al: "Continuous Biochemical Monitoring Utilizing Solid State Spectrophotometry", Proceeding of the 14th International Conference on Medical and Biological Engineering and The 7th International Conference on Medical Physics, Finland, 1985.
- Y. David, J. Adams, H. Hochberg, and C.M. Koliner: "Percutaneous pH Measurements", Medical Technology For the Neonate, Technology Assessment Report, AAMI, TAR No. 9-84, September 1984. *
- Y. David: "Performance Assurance of Home-Care Technology", Home Care '84 Conference, Chicago, Illinois, 1984.
- Y. David, et al: "G.T.I.I. - A Measurement of Synchrony of Infant Ventilator", The 6th Annual Conference on Frontiers of Engineering and Computing in Health Care, 1984.
- Y. David, R. Bettinger: "Characteristics of Transcutaneous Electrical Nerve Stimulation Used Clinically for Pain Control", 2nd Annual Conference on Biomedical Engineering Research - University of Houston, Houston, Texas, 1984.
- Y. David: "Apnea Monitoring in Non-Hospital Environment", The 37th Annual Conference on Engineering in Medicine and Biology A.C.E.M.B. Meeting, September 1984
- Y. David, J. Truett: "Diagnosis-Related-Groups and Clinical Engineering", 6th Annual Conference on Frontiers of Engineering and Computing in Health Care, 1984.
- Y. David: "The Utilization of TENS in U.S. Hospital", Physical Therapy Meeting, Tel-Aviv, Israel, 1984.
- Y. David: "Source of Input", The 7th Annual Conference of the Greater Houston Hospitals Management Systems Society, 1984.

* Peer Review Paper

PUBLICATIONS AND PRESENTATIONS (Cont.):

- Y. David, R. Jennings: "The Life Cycle of Medical Devices - Issues of Aging and Obsolescence" Moderators of Round Table Discussion - AAMI The 19th Annual Meeting, 1984.
- Y. David, R. Eller, and M. Jopling: "Quality Assurance of Anesthetic Vaporizers", The International Congress on Medical Instrumentation, Holland, May 1984.
- Y. David, M. Grafton: "Equipment Life Cycle Strategy in the Biomedical Department", The International Congress on Medical Instrumentation, The Netherlands, May 1984.
- D.Z. Myerberg, Y. David, et al: "A New Non-Invasive Device which Continuously Gauges An Infant's Synchrony and Chest Expansion Achieved With Mechanical Ventilation", 2nd International Conference on Fetal and NeoNatal Physiological Measurements, Oxford, England, April 1984.
- Y. David, M. Gullikson, and J. Weimert: "Trends in Patient Monitoring Technology", The 19th AAMI Annual Meeting, April 1984.
- Y. David, S.K. Sharma, and M. Gullikson: "Equipment Life Cycle Strategy in The Biomedical Department", Engineering in Medicine and Biology Annual Conference, 1983.
- Y. David, R. Bettinger: "Characteristics of TENS Used Clinically for Pain Control", The 2nd Southern Biomedical Engineering, 1983.
- Y. David, J. Adams, and H. Hochberg: "Percutaneous pH Measurements", Medical Technology For the Neonate, Technology Assessment Conference - AAMI, November 1983.
- Y. David, W. Scholz: "New Concepts in Patient Monitoring System", The 2nd Southern Biomedical Engineering Conference, 1983.
- Y. David, R. Bettinger: "Transcutaneous Electrical Nerve Stimulators Characteristics", The Assc. for the Advancement of Medical Instrumentation, The 17th Annual Meeting, 1982.
- Y. David, M. Jopling, R. Eller: "Anesthetic Vaporizers: Performance Assurance", Pennsylvania's State Society of Anesthesiologists, Annual Meeting, 1982.
- Y. David, C. Koliner: "The Application of Tissue pH and Transcutaneous P₀₂ Measurements in ICU", World Congress on Medical Physics and The 13th International Conference on Medical and Biological Engineering, Germany, 1982.
- Y. David: "Biomedical Engineering and Future Trends in Medical Instrumentation", Monongahela County Medical Society, 1982.
- Y. David, C. Koliner: "Use of Cutaneous Monitors in Critically Ill Patients", Pulmonary Ground Round of Western Pennsylvania, Pittsburgh, Pennsylvania, 1982.

PUBLICATIONS AND PRESENTATIONS (Cont.):

- L. Pyles, W. Neal, Y. David: "Skin/Arterial Oxygenation Ratio as an Index of Peripheral Perfusion Following Cardiac Surgery in Children", The 23rd National Medical Student Research Forum, 1982.
- Y. David, C. Koliner: "Tissue to Blood pH and Transcutaneous to Blood P₀₂ Gradients in Critically Ill Patients", The New York State Society of Anesthesiologists, 1981.
- J. Gutierrez, Y. David: "Correlation of Transcutaneous Oxygen Tension with Arterial Oxygen Tension During Different Cardiac Output States, Case Reports", International Anesthesia Research Society, 1981.
- F. Zavisca, S. Woelfel, and Y. David: "Amnesic Effects of Oral Clinical Doses of Benzodiazepines", Federation of American Society for Experimental Biology(FASEB), 1981.
- Y. David, C. Koliner, and W. Neal: "Application of Cutaneous P₀₂ and Tissue pH Measurements in the Perioperative Period", Association for the Advancement of Medical Instrumentation - The 16th Annual Meeting, 1981.
- Y. David, C. Koliner, W. Neal: "Perfusion Index Using Transcutaneous PO₂ in Post Cardiac Surgery", Engineering in Medicine and Biology Conference, Annual Meeting, 1981.
- R. Kennedy, H. DeSousa, Y. David: "Kinetics of Local Anesthetic Drugs in the Maternal/Fetal Unit", Society of Obstetrical Anesthesia Peritoneal, Annual Meeting, 1981.
- Y. David, W. Neal, R. Knapp: "Transcutaneous PO₂ as a Perfusion Index in Post Cardiac Surgery" Anesthesia Update, W.Va. State Anesthesiologists Society Annual Meeting, 1980.
- P. Forte, W. Neal, Y. David: "T_cP₀₂ Monitoring as an Index of Peripheral Perfusion Following Cardiac Surgery", W.V.U. School of Medicine Student Research Convocation, 1980.
- Y. David, J. Gutierrez: "Environmental Hazards and Pollution in Operating Rooms", Association for the Advancement of Medical Instrumentation, The 14th Annual Meeting, 1979.
- J. Gutierrez, M. Howie, Y. David: "Correlation of Transcutaneous Oxygen Tension with Arterial Oxygen Tension During Different Cardiac Output States: A Case Report", American Academy of Pediatrics, Annual Meeting, 1979.
- Y. David: "Occupational Safety in the Operating Theater", International Conference on Medical Physics and the XII International Conference on Medical and Biological Engineering, Israel, 1979.
- F. Zavisca, S. Woelfel, Y. David, et al: "The Effects of Benzodiazepines - Diazepam, Flurazepam, and Alprazolam on Cardiovascular and Psychological Function in Healthy Medical Students", Post Graduate Assembly New York State Society of Anesthesiologist, N.Y.S.S., 1979.

* Peer Review Paper

PUBLICATIONS AND PRESENTATIONS (Cont.):

Y. David, J. Gutierrez: "Anesthesia as Environmental Hazard", West Virginia Society of Anesthesiologists Annual Update, 1978.

D. Smith, J. Adams, Y. David: "A Comparison of Analgesic Properties of Morphine and Ketamine in the Rat", American Society of Anesthesiologists (A.S.A), Annual Meeting, 1978.

W. Hess, E. Boyd, and Y. David: "Cardiopulmonary and Amnesic Effects of Alprazolam - A New Benzodiazepine Derivative", American Society of Anesthesiologists, A.S.A., 1977.

Y. David: "Environmental Hazards to OR Personnel" - Association of Operating Room Nurses West Virginia - A.O.R.N. Workshop, 1977.

Y. David: "Electrosurgical Safety in the OR" - A.O.R.N. West Virginia Workshop, 1977.

PROFESSIONAL ACTIVITIES:

International Clinical Engineering and Health Technology Management Congress I (Hangzhou, China), Congress II (Sao Paulo, Brazil), Congress III (Rome, Italy), Congress IV (Florida, USA), Program Committee Co-Chairman & Scientific Committee Member

Global Clinical Engineering Journal (www.GlobalCE.org), Editor-in-Chief, (2018 – present)

Global Clinical Engineering Summit (China, Brazil, Italy), Chairman, (2015, 2017, 2019)

International Clinical Engineering Day, Program chairman (2015-present)

IFMBE CED International Awards Committee Member (2013-present)

World Health Organization (WHO) – Global Forum on Medical Devices, Innovation and Applications, Scientific Program Member, (2010 – present).
(http://www.who.int/medical_devices/gfmd/en/)

World health Organization (WHO) – Member of the Experts Groups in Priority Medical Devices for Cancer Management Project – the Radiotherapy Imaging expert group, Geneva, Switzerland, (2015 – present)

Orsan Medical – Review 510(k) submission plan and proposed supplement testing to establish support of patient safety statements, 2015.

Track Chairman, “Safety and Human Factors Engineering for Medical Devices and Systems”, Medicon 2013, the 13th Mediterranean Conference on Medical and Biological Engineering and Computing, Seville, Spain, Sept 25-28, 2013.

International Program Review Committee, Member, Medicon 2013, the 13th Mediterranean Conference on Medical and Biological Engineering and Computing, Seville, Spain, Sept. 25-28, 2013.

PROFESSIONAL ACTIVITIES (Cont.):

Theme Co-Chairman, “Clinical Engineering”, World Congress on Medical Physics and Biomedical Engineering, Beijing, China, May 26-30, 2012.

Board Member, National Science Foundation, Body of Knowledge Advisory, (2011 – 2012).

Medical Design Excellence Awards, Judge, Los Angeles, California, (February 2004 – 2010).

NFPA Laser Safety Committee, Chairman, Boston, Massachusetts, (January 1998 – 2009), Member (2016-present).

ACCE HealthCare Technology Foundation, President, (501C3) - 2002.

HealthCare Technology Foundation, President Emeritus, (501C3) – (2010 - present).

NFPA 99 Health Care Facilities - Gas Delivery Equipment (HEA-GAS) Committee, Chair, July 2002.

Canopy Edge – Design and lead engineering and animal testing in support for 510(K) submission 1999 – 2016.

BegaMed – Laparoscopic surgical suture instrument commercialization – preparation for 510(k), 2000.

Carmel Biosensors, Inc. – Fetal monitoring system assessment and review of regulatory documents submission, 1999.

Committee Member - AAMI/ES, Electrical Safety Committee 2001.
- AAMI/EM, Electromagnetic Compatibility Committee 2000.

Presented on medical devices and supplies adverse event investigation methodology at the Patient Safety Executive Group in Houston (2005) and FDA Medsun Orientation meeting, San Diego, 2007.

Organized seminar and presented on Safe application and quality control of medical devices at the international clinical engineering symposium in Beijing, China, 2005.

Presented Medical Errors Mitigation Using Technical Tools at the GE Biomedical Advisory Council meeting San Jose, CA, 2008.

Participated in clinical study of Electrical stimulation for mapping human cortical function, results were published at Journal of Neurosurgery, June 2009, American Assoc. of Neurosurgeons.

Contributed to the guidelines on requirements for refurbishing and donating of medical equipment (ACCE. And WHO, and Columbia 2005)

Planned and conducted non-clinical performance studies of modified medical device (Neonatal transport) in cooperation with manufacturer and NASA. Study was published in Biomedical Engineering journal. (200x)

PROFESSIONAL ACTIVITIES (Cont.):

Participated in clinical study Correlation of Near Infrared Spectroscopy Cerebral Blood Flow Estimations and Microsphere Quantitations in Newborn Piglets, results published in *Biology of the Neonate*, Krager AG, Basal, 1998.

Participated in clinical trial of high frequency jet ventilator in pediatrics, published in *Pediatric Pulmonary Proceedings of the 6th Annual Conference on High Frequency Ventilation of Infants*, Snowbird, Utah, 1989.

Participated in clinical study of new balloon angioplasty pressure monitor in cardiac procedures (1988)

Participated in clinical trials on the performance of shared fluid source for use in multiple infusion pumps procedures (1985)

Participated in clinical study of Rectal-Scalp temperature predictor of brain injuries in children (1999) published in *Pediatric Neurology*.

Participated in clinical studies for validating in vitro mass spectrometer metabolic monitoring system for lung work in pediatric patients (1997-2003) published in *American Journal of Respiratory and Critical care Medicine* (1997)

Board of Directors Advisor, Orbis International, New York, NY, August 1999.

Lecturer, "Problems with Medical Telemetry and Telemedicine", HealthTec '99, Baltimore, Maryland, April 2000.

Member, Orbis International Global Grant Applications, New York City and Seattle, Washington, July 1999.

Representative, in the "4th International Conference on the Medical Aspects of Telemedicine," held in conjunction with US-Israel Science and Technology Symposium on "Telemedicine Frontiers Toward the 21st. Century, Jerusalem, Israel, June 1999.

Representative to the First Meeting of 1999 TeleHealth Committee of the American Society of HealthCare Engineering (ASHE), Seattle, Washington, February 5, 1999.

Panel Member, AIBS Peer Review Panel on the Defense Women's Health (DWH) Research Programs. The American Institute of Biological Sciences (AIBS) and the United States

Army Research and Material Command (USAMRMC), Sterling, Virginia, January 25 - 26, 1999.

Representative, TCH International at Caracas and Maracaibo, Venezuela negotiations of Telemedicine Projects, 1999.

Workshop Chairman, "Real Telemedicine Applications and Issues", Sponsored by the Annual Conference and Exposition for the Selection, Integration, Management and Support of Healthcare Technology, in conjunction with ASHE's National Conference on Medical Technology Management, Nashville, Tennessee, May 1998.

PROFESSIONAL ACTIVITIES (Cont.):

Program Chairman, "Electromagnetic Interferences Around Medical Devices", taped for television broadcast by HITN, Washington, D.C., May 1998.

Session Chair, "Electromagnetic Interference - International Issues," AAMI 33rd Annual Meeting, Philadelphia, Pennsylvania, May 1998.

Representative, TCH International and the Greater Houston Partnership, representing Texas Children's Hospital as a member of the business development mission, Caracas, Venezuela, March 1998.

Guest Speaker, Exploring Opportunities for International Telemedicine Links, Center for Telemedicine Law (CTL), at the White House, Washington, D.C., August 1997.

Faculty Member, Meet the Experts Session on "Electromagnetic Compatibility: Facility Policy Procedures and Education," AAMI/FDA, AAMI Annual Meeting, Washington, D.C., June 1997.

Roundtable Moderator, "Telemedicine and PACS: What's Ahead?" AAMI Annual Meeting, Washington, D.C., June 1997.

Track Chairman, "ElectroMagnetic Interference in Medical Devices", AAMI Annual Meeting, Washington, D.C., June 1997.

Track Chairman, "ElectroMagnetic Interference in Medical Devices", AAMI Annual Meeting, Philadelphia, Pennsylvania, June 1996.

Track Chairman, "Telemedicine", SPIE, Philadelphia, Pennsylvania, October 1995.

Track Chairman, "Critical Care Monitoring and Telecommunications for Health Care", 17th Annual International Conference of the IEEE Engineering in Medicine and Biology

Society (IEEE/EMBS) and 21st Canadian Medical and Biological Engineering Conference, Montreal, Canada, September 1995.

Track Co-Chair, "Electromagnetic Compatibility", Association for the Advancement of Medical Instrumentation (AAMI), Anaheim, California, May 1995.

Track Chairman, "Critical Care Monitoring", 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Baltimore, Maryland, November 1994.

Course Director, "Evaluating Medical Technology: The Hospital Perspective", AAMI Mid-year Meeting and Exposition, Bellevue, Washington, October 1993.

Chairman, Boston Organizing Committee, Responsible for Developing and Implementing 4 weeks of Clinical Engineering training for 40 Engineers from the former Soviet Union Republics, Central and South America, Boston, Maine, May/June 1993.

PROFESSIONAL ACTIVITIES (Cont.):

Session Chairman, "Clinical Engineering in the Hospital Environment", IEEE/EMBS Annual Meeting, Orlando, Florida, November 1991.

Session Chairman, "Monitors and Instrumentation in Critical Care", IEEE/EMBS Annual Meeting, Orlando, Florida, November 1991.

Session Co-Chairman, "Clinical Engineering Role", World Congress on Medical Physics and Biomedical Engineering, Kyoto, Japan, July 1991.

Course Director, "Towards Excellence: Critical Information for Clinical Engineering Managers", The Canadian Medical and Biological Engineering Society, Banff, Alberta, May 1991.

Course Director, "Towards Excellence: Critical Information for Hospital Clinical Engineering Managers", AAMI 25th Annual Meeting, Anaheim, California, May 1990.

Roundtable Moderator, "National Clinical Engineering Society - One Year Later", AAMI 25th Annual Meeting, Anaheim, California, May 1990.

Chairman, Post Conference Symposia - 6th Annual Conference of the International Society for Technology Assessment in Health Care, Houston, Texas, May 1990.

Chairman, IEEE/EMBS Clinical Engineering Committee, 1990.

Chairman, IEEE/EMBS Ad Hoc Clinical Engineering Committee, 1988-1989.

Chairman, The Clinical Engineering Track, IEEE/EMBS 11th Annual International Conference, Seattle, Washington, November 1989.

Symposium Chairman, "The Role of the Engineer in the Healthcare System," IEEE/EMBS 11th Annual International Conference, Seattle, Washington, November 1989.

Roundtable Chairman, "National Clinical Engineering Society?", AAMI 24th Annual Meeting, St. Louis, Missouri, May 1989.

Chairman, The Clinical Engineering Track, IEEE/EMBS 10th Annual Conference, New Orleans, Louisiana, November 4-7, 1988.

Session Chairman, Systems and Instruments for Clinical Assessment, IEEE/EMBS 10th Annual Conference, New Orleans, Louisiana, November 4-7, 1988.

Scientific Program Chairman: Clinical Engineering (13 sessions) in the World Congress on Medical Physics and Biomedical Engineering, San Antonio, Texas, August 7-12, 1988.

The 6th Biomedical Engineering Research in Houston Conference - Program Steering Committee, Houston, Texas, 1988.

PROFESSIONAL ACTIVITIES (Cont.):

Session Chairman, "Ethical Responsibilities of the Clinical Engineer", IEEE/Health Care Engineering Policy Committee Symposia: Ethical and Economic Issues in Biomedical Engineering Technology and Technological Advances in Models for Biomedical Research - Boston, Massachusetts, November 13-14, 1987.

Session Co-Chairman, Clinical Engineering, The VII Nordic Medical and Biological Engineering, Trondheim, Norway, 1987.

Chairman, The Fourth Annual Clinical Engineering Symposium and the AAMI Regional Meeting and Exhibit Program, 1987.

Round Table Discussion Moderator - "Clinical Engineering Policy - Government and Industry Interface", IEEE/Engineering in Medicine and Biology, 8th Annual Conference, November 1986.

Chairman, The Third Annual Clinical Engineering Symposium and the AAMI Regional Meeting and Exhibit Program, 1985.

Chairman, The Second Annual Clinical Engineering Symposium, Houston, Texas, 1984.

Conduct: Medical Residents Lecture Series - Physics and Electricity for the Anesthesiologist. The University of Texas Health Science Center at Houston, Department of Anesthesiology, Houston, Texas, November 1984.

Round Table Discussion Moderator - "The Life Cycle of Medical Devices: Issues of Aging & Obsolescence", The 19th AAMI Annual Meeting, April 1984.

Lecturer, "Clinical Engineering: Responsibilities and Opportunities", Association of Bioengineering Students, Texas A & M University, College Station, Texas, April 1984.

Session Chairman, Clinical Application - 2nd Annual Conference on Biomedical Engineering Research, University of Houston, Houston, Texas, February 1984.

Founder and Program Chairman, The Annual Clinical Engineering Symposium, Houston, Texas, 1983.

Scientific Director, Pain Management Consultants, Morgantown, West Virginia, 1979-1983.

Conduct: Basic Science Series - Electricity, Physics, and Instrumentation for Anesthesiology Residents. West Virginia University Medical School, Morgantown, West Virginia, 1976-1982.

Session Chairman, "Application of Electrical Nerve Stimulation for Clinical Pain Control", AAMI 17th Annual Meeting, May 1982.

PROFESSIONAL ACTIVITIES (Cont.):

Adviser (With W. A. Neal, M.D.) The W.V.U. Medical Student Cardiology Fellowship. Every year the work has been selected for presentation at the Van Liere Medical Student Research Paper Competition, West Virginia University Medical Center, Morgantown, West Virginia, 1979-1982.

Advisor, Anesthesia Biomedical Engineering Summer Preceptorship, West Virginia University Medical School, Morgantown, West Virginia, 1979-1982.

Appears In:

Who's Who in International Scientist of the Year - 2002-2003.
Who's Who in Medicine and Healthcare, 2nd Edition - 1998.
Who's Who in the World, 16th Edition - 1997.
Who's Who in America, 53rd Edition - 1997.
Who's Who in Science and Engineering Registry, 4th Edition - 1997.
Who's Who in the South and Southwest 17th Edition 1980-1995.
Who's Who Registry - 1994-1995.
Men of Achievement - 8th edition, 1981.

Biomedical Technology Management - Profile Interview, July/August 1994.

Who's Who in the Frontiers of Science and Technology 2nd Edition.

The Directory of Distinguished Americans - 1st edition, 1981.

GRANTS AND RESEARCH:

Texas Infrastructure Fund- Implementation of Pediatric Telemedicine Program – Dr. L. Jefferson (P.I.) – (\$300,000.00), March 2000.

Understanding and Preventing Neonatal Brain Damage Consultant for Dr. Jan Goddard Finegold (P.I.) Department of Health & Human Services Grant (\$1.63M), April 1993.

Clinical Evaluation of Fiber optic pH Monitoring for Intrapartum Fetal Monitoring - Co-Investigator with M.G. Dodson, M.D., and D. Cotton, M.D., Baylor College of Medicine Dept. OB/GYN, Houston, Texas, 1985.

Clinical Evaluation of Tissue pH Monitoring for Intrapartum Fetal Monitoring - Co-Investigator with E. Abouleish, M.D., and F. Zavisca, M.D. U of T Medical School, Houston, Texas, 1984.

The Clinical Investigation of New Tissue pH System During the Intra and Peri-Operatively Periods, Co-Investigator, Charles Koliner, M.D., West Virginia University Medical School, Morgantown, West Virginia, 1982.

The Pharmacological Effects of Diazepam and Flurazepam on the Cardiovascular and Respiratory Systems in Healthy Volunteers - with Richard B. Knapp, M.D., W. Virginia University Medical School, Morgantown, West Virginia, 1981.

GRANTS AND RESEARCH (Cont.):

Transcutaneous PO₂ Monitoring in the Post-Operative Cardiac Surgery Patients (Children) with W. Neal, M.D., West Virginia University Medical School, Morgantown, West Virginia, 1980.

The Effect of Inhalation Anesthetic Agents on Transcutaneous Oxygen Tension Indicator - with J. Gutierrez, M.D., West Virginia University Medical School, Morgantown, West Virginia, 1980.

Non-Invasive Recording of Fetal EEG - with D. Remen, M.D., West Virginia University Medical Center, Institutional Research Grant (\$2,000.00), 1977.

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July 16, 2021