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Curriculum Vitae

Don Heirman

www.donheirman.com

<http://collections.lib.purdue.edu/heirman/>

http://ethw.org/Oral-History:Don_Heirman#EMC_Symposium

See also biography using: <http://www.donheirman.com/biography.htm>

Industry/Consulting Experience

1/1/98-Pres.: Established his own EMC consultation business (incorporated as a Limited Liability Corporation in 1997) serving as the President of Don HEIRMAN Consultants, a training and education EMC consultation practice which is his core business. During the 1998 through 2006 period he was also with the University of Oklahoma as an adjunct professor, senior research scientist, and Associate Director, Wireless EMC, for the University's Center for the Study of Wireless EMC. Since 2012, he is the Smart Grid EMC consultant of the Conformity Assessment Section of the American Council of Independent Laboratories. He also supports the laboratory accreditation program of the National Institute of Standards and Technology and chairs the Electromagnetic Interoperability Issues Working Group (EMIIWG) of the Smart Electric Power Alliance (SEPA) which annexed the Smart Grid Interoperability Panel (SGIP) dealing with better control of power usage. In 2013, he also assumed the chairmanship of the Advisory Committee on EMC (ACEC) of the International Electrotechnical Commission (IEC) as well as multiple leadership and technical support for standards developed by the American National Standards Institute Accredited Standards Committee C63 (EMC).

4/1997-12/97: Senior EMC Consultant, Lucent Technologies (part time), providing regulatory and standards consultation support in conformity assessment of products marketed globally in the areas of electromagnetic compatibility (EMC) application, testing, and governmental rules and regulation interpretation. At that time, he was named adjunct professor and senior research scientist at the University of Oklahoma and Associate Director, Wireless EMC at the University's Center for the Study of Wireless EMC. In this role he provides advanced EMC consultation to graduate students as well as the Center's founding organizations in such studies as the EMC interaction between cellular telephones and medical electronics.

1991-4/1997: Lucent Technologies, Bell Laboratories Innovation (formerly AT&T Bell Labs), Manager of Global Product Compliance Laboratory. Leads major

- international conformity assessment test and consultancy organization and provides standards contributions and leadership to international and national standards organizations including the IEEE Standards Board, the US National Committee of the International Electrotechnical Commission (IEC), ANSI Accredited Standards Committee C63 (EMC), and the IEC Special International Committee on Radio Interference (CISPR).
- 1984-1991: AT&T Bell Laboratories, Supervisor. Responsible for FCC and international regulatory EMC compliance testing and liaison with product safety underwriters; designed, built, and oversaw operation of major EMC test facilities including the first all plastic enclosed open area test site
- 1983-1984: AT&T Information Systems, Member of Technical Staff. Corporate consultant on FCC EMC compliance interpretations, regulatory test strategies; elevated to Distinguished Member of Technical Staff
- 1963-1983: Bell Laboratories, Member of Technical Staff. Predicted and suppressed power line and radio frequency interference on telephone lines.

Military Experience

- 1963-65: Active Duty US Navy in Office of Naval Communications (OP94) in the Pentagon providing spectrum management and radio wave propagation predictions as a Lieutenant (j.g.)
- 1965-1985: Research Reservist for the Office of Naval Research drilling at the Reserve Center in Trenton, New Jersey
- 1985: Retired as Commander, USN
- 2008: Lois Heirman (wife) buried in Arlington National Cemetery--Feb

Educational Background

- 1962: BSEE - Purdue University, West Lafayette, IN
- 1963: MSEE - Purdue University, West Lafayette, IN
- 1965-66: New York University, New York, NY
- 1966-71: Polytechnic Institute of Brooklyn (now Polytechnic Institute of New York), Brooklyn, NY

IEC (International Electrotechnical Commission (IEC)) and US National Committee (USNC) of the IEC Activities:

- 2017-Pres.: Technical Advisor for US National Committee of the IEC technical advisory group for CISPR (Special International Committee on Radio Interference)
- 2013-Pres.: Chairman of the International Electrotechnical Commission (IEC) Standardization Management Board Advisory Committee on EMC (ACEC)
- 2001-2016: ACEC member representing the IEC International Special Committee on

Radio Interference (CISPR)

2007-2016: Chairman, IEC Special International Committee on Radio Interference (CISPR)

2008-2016: Chairman of CISPR chairman's advisory group (CAG)

2001-Pres.: Member of CISPR Steering Committee (Chair 2007-2016)

2001-2010.: Member of TC106 Working Groups 3 (Human Exposure Assessment and Measurements), WG 4 (Human exposure measurements for products), WG 5 (Generic product standard compliance to RF exposure)

2010-Pres.: Deputy Technical Advisor of the US National Committee Technical Advisory Group (TAG) for TC106 (Human Exposure)

2001-2007: Chairman, CISPR Subcommittee A (EMC Measurement Methods, Instrumentation and Statistical Techniques for Measuring Emissions from Electronic Products)

1998-2001: Secretary CISPR S/C A

1998-2001: Chairman CISPR S/C A Working Group 1 (EMC measurement instrumentation)

1995-1998: Secretary, CISPR S/C A Working Group 1

2000-Pres: Member of US National Committee Technical Management Committee (TMC); Voted honorary life member in 2017

1995-2000: Member of Executive Committee of the U.S. National Committee (USNC) of the IEC

2000-Pres.: Deputy TA for USNC TAG for CISPR Subcommittee A

2000-2016: USNC Group Manager for Electromagnetics (responsible for CISPR and its subcommittees, TC77 and its subcommittees, TC1, SC3D, TC25 and TC106 facilitation matters)

2000-Pres.: Chairman, USNC Coordinating Committee on EMC (USCCEMC)

2001-2014: US Technical Expert for CISPR/I Working Groups 3 and 4 (Composite of CISPR/G WG1 and WG2 formed in 2001 replacing CISPR/G WGs); renamed in 2017 as CISPR/I Maintenance Team 7 and Maintenance team 8 respectively

1985-Pres.: US Technical Expert for S/C A (Radio Interference Measurements and Statistical Techniques), S/C A, Working Group 1 (EMC Measurement Instrumentation Specifications), and S/C A, Working Group 2 (EMC Measurement Techniques and Statistical methods)

1994-1997: Secretary of CISPR Steering Committee Working Group on Generic Emission Limits for a broad category of electronic equipment/products; US Technical Expert for Steering Committee, Working Group 1 (Development of Generic Standard Covering Emissions from Class B Equipment)

1985-2000.: US Technical Expert for:

- CISPR/E (Interference Relating to Radio Receivers)
- CISPR/E Working Group 1 (Methods of Measurement and Limits for Radiation and Immunity)

1985-2000.: US Technical Expert for:

- CISPR/G (Interference Relating to Information Technology Equipment)

CISPR/G Working Group 1 (Emission from Information Technology Equipment)
CISPR/G Working Group 2 (Additional Requirements for Emission from Information Technology Equipment (ITE) connected to Public Networks or Local Area Networks (LANs). (In 1998, WG 2 and WG 1 merged.)
CISPR/G Working Group 3 (Immunity of ITE)

Other Affiliations

2016-Pres: Vice chairman, Conformity Assessment Section, American Council Independent Laboratories (ACIL)
2014-Pres: ACIL EMC Standards Education support including providing webinars and lectures (4 to 5 webinars each year (2014 through 2018)
2012-2014: Principal Contributor and author of ANSI C63.7 (Construction of Test Sites for Making Radiated Emission Measurements); completed revision in 2014 for the 2015 edition of guide.
2014-2015 Contributor to ANSI C63.16 (ESD)
2016-Pres.: Chair of C63 Subcommittee 3 (International standards comparisons and harmonization)
2003-Pres.: Principal Contributor of ANSI C63.4 (Emission Measurements) standard; chair of working group to update the 2014 edition (2015-present)
2015-Pres.: Chair of the working group on updating the site validation procedures contained in Annex D of C63.4-2014; update amendment is identified as C63.4a, published in 2017
2012-Pres.: ACIL (American Council of Independent Laboratories) representative on Smart Grid Interoperability Panel (SGIP) and its parent organization called the Smart Electric Power Alliance (SEPA)
2012-Pres.: Member of SGIP Electromagnetic Interoperability Issues Working Group (EMIIWG)
2015-Pres.: Chairman of EMIIWG
2012-Pres.: ACIL representative on SEPA Testing and Certification Committee (TCC)
2010-Pres: Member of ACIL's Conformity Assessment Executive Committee.
2011-Pres.: Voting member of SEPA and its Testing and Certification Committee representing ACIL
2011-Pres.: Chair of ACIL Smart Grid Committee
2011-Pres.: Member of ACIL Conformity Assessment Section
2011-Pres.: Immediate past chairman, ANSI Accredited Standards Committee C63[®]
2006-2011: Chairman, ANSI Accredited Standards Committee C63[®]
2002- 2005: Vice-Chairman, ANSI Accredited Standards Committee C63[®]
2002-2006: Director of Business Development for the National Cooperation for Laboratory Accreditation (NACLA)
2000-2001: President of NACLA

2000-2004: Member of the Telecommunication Certification Body Council (TCBC)

2001-2004: TCBC Executive Committee member

2001-2006.: Observer member: European Union Radio and Telecommunications Terminal Equipment— Conformity Assessment committee

2001-2006: Member of Radio and Telecommunications Terminal Equipment Compliance Association.

1984-Pres.: Member of ANSI Committee C63[®] - Electromagnetic Compatibility (EMC) - now called Accredited Standards Committee (ASC) C63[®] --EMC

1992-2012: IEEE (Standards Association) representative to ASC C63[®]

1986-2006.: Chairman ASC C63[®] S/C 1 (Techniques and Developments for EMC Measurements) which steers major EMC standards coordination

1983-1996: Chairman, ASC C63[®] S/C 5 on Immunity Standards for Home Entertainment Equipment

2015-Pres.: Chairman, ASC C63 S/C 3 on International Standards (comparing with C63 standards on similar topics)

1981-2006: Principal Contributor and author of ANSI C63.7 (Construction of Open Area Test Sites for Making Radiated Emission Measurements); completed revision in 2005 for the 2006 edition of standard.

2006-2015: Chair and principal technical contributor of the working group that updated the 2006 edition of C63.7 published in 2015.

2013-2015: Chair of working group to amend ANSI C63.7 to cover frequency range 30 MHz to 18 GHz

2013-2014: Chair of working group to update 2009 edition of ANSI C63.4 (Measurement methods for radiated and conducted emissions (9 kHz to 40 GHz))

1983-2006: Principal Contributor and periodic Chairman of ASC C63[®] Working Group on Immunity and Instrumentation Standards (C63.15)

2015-2017: Chair of working group updating the 2010 edition of C63.15; published in 2017

2003-2004 Member of Alliance for Telecommunications Industry Solutions (ATIS) Hearing Aid Compatibility Incubator Group chairing working group on laboratory accreditation issues

1989-Pres.: Certified EMC Engineer, National Association for Radio and Telecommunications and Electromagnetics (iNARTE—now Exemplar Global)

1985-1999: Member of Electronics Industries Alliance/Consumer Electronics Association (CEA) Committee R1/R2 (EMC and Product Safety)

1997-1999: Member, Interim Board of National Cooperation for Laboratory Accreditation (NACLA) of the National Institute of Standards and Technology (NIST)

1998-Pres.: Member, Board of the US EMC Standards Corporation (USEMCSC)

2009-2017: US EMC Standards Corporation (USEMCSC) representative on US National Committee Technical Management committee (TMC)

1997-2006: Member of Executive Committee of the U.S. Council of EMC Laboratories (USCEL) of the American Council of Independent Laboratories (ACIL)

1997-2006: Member of ACIL USCEL (US Council of EMC Laboratories)

- 1997-Pres.: Member of ACIL EMC Committee (part of the ACIL Conformity Assessment Committee) and its executive committee
- 1997-Pres.: Associate member of ACIL
- 1997-2008: Chairman of Education Committee of the ACIL EMC Committee

Institute of Electrical and Electronics Engineers (IEEE) Activities

- 2017-Pres.: Member of IEEE Press Editorial Board
- 2014-2016: Member of IEEE Ethics and Member Conduct Committee
- 2013-Pres.: Advisor and then member of Standards Education Committee (SEC) (a joint project of the IEEE Education Activities Board and the IEEE Standards Association)
- 2015-Pres.: Member of Editorial Board of SEC electronic quarterly magazine
- 2012-2015.: Member of Awards Board Presentation and Publicity Committee
- 2011-2012.: Member of IEEE Nominations and Appointments Committee
- 2011-2012.: Chair of Standards Association Nominations and Appointments Committee
- 2011-2013: Liaison Member IEEE Standards Education Committee
- 2010-2011: Member of Ethics and Member Conduct Committee (EMCC)
- 2015-2016: Member of EMCC
- 2010-Pres.: Chair EMC Society Special Committee on Smart Grid (SC1)
- 2010-Pres.: Secretary EMC Society Standards Advisory and Coordination Committee
- 2009-Pres.: Associate editor of EMC Society Magazine for honoring deceased major EMC Society contributors
- 2007-2011.: Standards Association (SA) business development (called Portfolio Management) ad hoc committee--member
- 2007 Ethics and Member Conduct Committee
- 2007-2009 IEEE Marketing and Sales Committee
- 2005-2006: President, Standards Association/Board of Governors
- 2005-2006: Director, IEEE Board of Directors
- 2006-2007: Member of Product Services and Products Board
- 2005-2006: Member of Executive Committee of the IEEE Board of Directors
- 2005: Member of IEEE Strategic Planning Committee
- 2000-2003: Member of IEEE Charles Proteus Steinmetz Awards Committee
- 2000-2001: Chairman of Standards Association Standards Board
- 2002-2003: Chairman of the Standards Association Standards Board
- 2000-2007: Member of Standards Association Board of Governors
- 1999-2008: Vice President for Standards and member, EMC Society Board of Directors
- 2011-2016 Vice President for Standards and member, EMC Society Board of Directors
- 2001-Pres.: Associate Editor for Standards-- EMC Society Magazine (Newsletter)
- 1976-1979: Member EMC Society Board of Directors
- 1981-1986: Member EMC Society Board of Directors
- 1995-1998: Member EMC Society Board of Directors
- 1991 Chair, IEEE International Symposium on Electromagnetic Compatibility (Cherry Hill, NJ)
- 1988-1991: Member of Board of Directors, EMC Society; Director for Technical

Services

- 1982-1999: Chairman of EMCS Standards Development Committee
- 1982-Pres.: Chairman, EMCS EM Measurements Technical Committee (TC2)
- 1980-1981: President, EMC Society (Member Technical Activities Board)
- 1978-1979: Vice President, EMC Society
- 1988-1990: Distinguished Lecturer, EMC Society
- 1986: Member of Region 1 Education Committee
- 1983-1984: Member of Standards Board
- 1983-2000: EMC Society Liaison Representative to Standards Board
- 1982-1983: Chairman, NJ Coast Section of Region 1
- 1981-1982: Vice Chairman, NJ Coast Section
- 1980-1981: Newsletter Editor, NJ Coast Section Scanner
- 1976-1978: Chairman, NJ Coast Section EMC Chapter (EMC Society Chapter of the Year)
- 1975-1976: Vice Chairman, NJ Coast EMC Chapter
- 1974-1978: Newsletter Editor, NJ Coast EMC Chapter

Major Awards

- 2018---IEEE Emberson Award. See presentation on:
<http://ieeetv.ieee.org/conference-highlights/ieee-richard-m-emberson-award-donald-n-heiman-2018-ieee-honors-ceremony?rf=channels9&>
- 2017---ANSI Thomson Electrotechnology Medal
- 2017---IEEE EMC Society Hall of Fame Award
- 2017---IEEE EMC Society Sustained Service Award
- 2016—Preston S. Millar Award from the American Council of Independent Laboratories (ACIL)
- 2012—Founding member of Purdue University Global Policy Research Institute Award
- 2011---Purdue University Distinguished Pinnacle Award
- 2011---Purdue University Outstanding Electrical and Computer Engineering Award
- 2011---Preston S. Millar Award from ACIL
- 2010—IEEE EMC Society Board of Directors Communicator Award
- 2009—IEEE Certificate of appreciation for co-technical program chair—Detroit EMC Symposium
- 2008—IEC Lord Kelvin Award (highest award in international standards work)
- 2007—IEEE Life Fellow
- 2007—IEEE EMC Society 25 years of EMC standards service
- 2007—IEEE EMC award for being Technical Program chair of its 50th anniversary Symposium in Hawaii
- 2003 – ANSI Finnegan Medal
- 2003 – IEEE Certificate of Appreciation, EMC Society
- 2000 – IEEE Millennium Medal
- 1997 - IEEE Charles Proteus Steinmetz Award (major IEEE field award)
- 1995 – IEEE EMC Society Richard Stoddart Award (highest award in the Society)
- 1993 - IEEE Standards Board Distinguished Service Award

1992 - IEEE Standards Board Medallion
 1991 – FCC Award for Excellence (Part 68 preparations)
 1987 - IEEE Fellow for leadership in performing accurate emission measurements
 1986 - IEEE Honorary/Honored Life Membership, EMC Society
 1984 - Lawrence G. Cumming Award, EMC Society
 1984 - IEEE Centennial Medal
 1982 - Distinguished Technical Staff Award, Bell Laboratories
 1982 - Certificate of Achievement, EMC Society
 1979, 1985, 1986, 1994 - Certificate of Acknowledgment, EMC Society
 1977, 1991 - Certificate of Appreciation, EMC Society
 1981 – IEEE EMC Society Technical Achievement Award
 1978-79 –New Jersey Chapter of the Year Award—Heirman was chair

Education and Training

Special EMC workshops at IEC General and other Meetings, sponsored by the IEC Advisory Committee on EMC (ACEC) and where CISPR and other presentations were given

2018—ACEC workshop at Long Beach, CA IEEE EMC Symposium-August
 2017-- ACEC workshop at APEMC 2016 symposium in Seoul. Korea—June
 2016---ACEC workshops at IEEE EMC symposium in Ottawa, Canada--July
 2015---ACEC workshop at APEMC 2015 symposium in Taiwan
 2014—ACEC workshop at Tokyo/2014 IEEE symposium
 2010—ACEC workshop in Seattle, Washington, USA
 2008—ACEC workshop in Sao Paulo, Brazil

Special workshops by Don HEIRMAN Consultants, LLC, held in the USA

2014—Emission measurements (C63.4-2014) webinar—May
 2014—Applying the new CISPR 32 webinar—August
 2014—Major changes incorporated into 2014 edition of C63.4 webinar--September
 2014—Introduction to CISPR 32—Oregon--October
 2013—EMC of Multimedia Equipment—Emission requirements (CISPR 32)--June
 2013-- EMC of Multimedia Equipment—Emission requirements (CISPR 32)--January
 2012—Introduction to CISPR 32—Webinar--September
 2011---Smart Grid Interoperability Panel and Testing and Certification Committee
 2004—EMC Standards Workshop—Milwaukee (March)
 2000—Telecommunication Certification Body Workshop (February)
 2000—RF human exposure (SAR/MPE) Workshop (May)
 2000—Bluetooth/Spread Spectrum Workshop (August)
 2000-- Telecommunication Certification Body Workshop (September in London, England)
 1999—IEC EMC Workshop—lecturer and facilitator (October)

Special workshops for the USNC Technical Management Committee Coordinating Committee on EMC

- 2007—USNC Leadership Workshop on Role of Group Manager—August
- 2007—ANSI Conference on US Leadership in ISO/IEC--May
- 2006—Workshop on IEC EMC Activity--May
- 2000—Workshop on Powerline Harmonics
- 1999—Three workshops on Powerline Harmonics--facilitator (January, May and October)

National Professional Short Course for, ANSI Accredited Standards Committee C63[®] (EMC) (Director and principal lecturer) and US EMC Standards Corporation (Board Member and Education Chairman) in the USA Most ANSI C63[®] standards workshop noted below were given in conjunction with the annual IEEE EMC Symposium

- 2017--- ANSI C63.4a (test site validation) at IEEE EMC Symposium in Wash DC.
- 2016--- ANSI C63.4-2014 (emission measurements) at IEEE EMC symposium in Ottawa, Canada
- 2015--- ANSI C63.4-2014 (emission measurements) at IEEE EMC/EMC Europe symposium in Dresden, Germany
- 2015--- ANSI C63.4-2014 (emission measurements) at EMC Symposium in Santa Clara, CA
- 2014—ANSI C63.4-2014 (emission measurements) and draft C6.25 (time domain techniques)
- 2013--- ANSI C63.23 (Measurement Uncertainty)
- 2012--- ANSI C63.4 (emission measurements) and C63.5 (antenna calibration) (August)
- 2011---ANSI C63.4 (emission measurements) and C63.5 (antenna calibration) (August)
- 2011--- EMC Society Global University standards lecture—Long Beach (August)
- 2010—ANSI C63.4 (emission measurements) and C63.5 (antenna calibration) (July)
- 2009-- ANSI C63.4 (emission measurements) (August)
- 2008—ANSI C63.4 (emission measurements) (August)
- 2008—ANSI C63.23 (measurement uncertainty) (August)
- 2007—ANSI C63.5-2006 on Antenna Calibration (September)
- 2006—ANSI C63.5 workshop on Antenna Calibration
- 2005-- Comparison of CISPR 22 with ANSI C63.4
- 2005-- Measurement of Radio-Noise Emissions (ANSI C63.4)
- 2004-- Comparison of CISPR 22 with ANSI C63.4
- 2004-- Measurement of Radio-Noise Emissions (ANSI C63.4)
- 2003 – ANSI C63.19 workshop on Hearing Aid Compatibility
- 2003— Comparison of CISPR 22 with ANSI C63.4
- 2003-- Measurement of Radio-Noise Emissions (ANSI C63.4)
- 2002-- Comparison of CISPR 22 with ANSI C63.4
- 2002-- Measurement of Radio-Noise Emissions (ANSI C63.4)
- 2001—SAR Measurement Uncertainty (Illinois)
- 2001-- Measurement of Radio-Noise Emissions (ANSI C63.4)

2001—Comparison of CISPR 22 with ANSI C63.4
 2001—EMC Measurement Uncertainty (Detroit)
 2000-- Measurement of Radio-Noise Emissions (ANSI C63.4)
 2000—EMC Measurement Uncertainty (Calgary, Canada)
 1999—On-site Medical Device Immunity Testing (ANSI C63.18)
 1999—Measurement of Radio-Noise Emissions (ANSI C63.4)
 1998—Measurement of Radio-Noise Emissions (C63.4)
 1998-- On-site Medical Device Immunity Testing (ANSI C63.18)
 1998 – EMC Measurement Uncertainty (given 3 times)
 1997 - ISO/IEC Guide 25 (Competency of EMC testers) Workshop
 1997 - EMC Measurement Uncertainty Workshop—given twice
 1997 - Measurement of Radio-Noise Emissions (C63.4)
 1996 - Product Design for Electromagnetic Compatibility
 1996 - Electromagnetic Compatibility Basics
 1996 - EMC Measurement Uncertainty Workshop—given twice
 1996 - Measurement of Radio-Noise Emissions (C63.4)
 1995 - Measurement of Radio-Noise Emissions (C63.4)
 1995 - Uncovering the Mysteries of Meeting the Electromagnetic Compatibility Directive
 of the European Union
 1995 - Complying with the EMC Directive (European Union)
 1994 - Basic EMC Review—International EMC Standards Activity
 1994 - Measurement of Radio-Noise Emissions (C63.4)

International Professional Short Courses, Center for Professional Advancement (Course Director and lecturer) given in The Netherlands and in some cases repeated in the USA

2003 - International EMC Standards, Requirements, Measurements, and the European
 Union Approach
 2002 - International EMC Standards, Requirements, Measurements, and the European
 Union Approach
 2001 - International EMC Standards, Requirements, Measurements, and the European
 Union Approach
 1999 - International EMC Standards, Requirements, Measurements, and the European
 Union Approach
 1998 – International EMC Standards, Requirements, Measurements and the European
 Union Approach
 1997 - International EMC Standards, Requirements, Measurements and the European
 Union Approach
 1996 - International EMC Standards, Requirements, Measurements and the European
 Union Approach
 1995 - - International EMC Standards, Requirements, Measurements, and the European
 Union Approach—given twice (once as a three day course and once as a National
 Technological University live one day video lecture) in USA
 1993 - - International EMC Standards, Requirements, Measurements, and the European

Union Approach—given three times (twice as three day courses and once as a National Technological University live one day video lecture) in USA

1992 - Electromagnetic Compatibility Engineering (guest lecturer)—given twice

1991 - EMC Measurements, Test Facilities, Instrumentation, and Errors

1990 - EMC Measurements, Test Facilities, Instrumentation and Errors

1990 - Electronic Packaging (guest lecturer)

1989 - EMC Design and EMI Mitigation (guest lecturer)--given twice

1989 - EMC Engineering (guest lecturer)

1988 - EMC Engineering (guest lecturer)—given twice

1988 - Electronic Packaging (guest lecturer)

1987 - EMC Engineering (guest lecturer)

1986 - EMC Engineering (guest lecturer)—given twice

1985 - EMC Engineering (guest lecturer)

1984 - EMC Engineering (guest lecturer)—given twice

1983 - EMC Engineering (guest lecturer)—given twice

1982 - EMC Engineering (guest lecturer)—given three times

1981 - EMC Engineering (guest lecturer)

1980 - EMC Engineering (guest lecturer)—given twice

1979 - EMC Engineering (guest lecturer)—given twice

1978 - EMC Engineering (guest lecturer)

1977 - EMC Engineering (guest lecturer)

Presentations at EMC Society Chapter meetings

Presented talks at many chapter meetings over the years. Four more recent examples are:

2013—Littleton, Massachusetts (June)

2013-- Irvine, CA (January)

2010—Seattle, Washington (June)

2010—Woburn, Massachusetts (May)

Presentations for American Council of Independent Laboratories—webinars

2018

8 Feb: Review of US Technical Management Committee meeting

7 March Review of ANSI Subcommittee 3 on international standardization comparisons

24 April Review of IEC Advisory committee on EMC meeting (ACEC)

7 Nov. Review of IEC CISPR meeting

17 Nov. Review of IEC Advisory committee on EMC meeting.

2017

15 Feb. Review of the meeting of the technical management committee of the US National Committee of the IEC

18 Apr. Review of Smart Grid EMC Interoperability Issues Working Group activity

25 May Review of activities of ANSI Accredited Standards Committee C63

15 June Review of IEC Advisory Committee on EMC (ACEC) meeting

2016

3 Feb: Review of the meeting of the technical management committee of the US National Committee of the IEC

16 March: Review of Smart Grid EMC Interoperability Issues Working Group activity

1 June: Review of activities of ANSI Accredited Standards Committee C63

21 June: Review of IEC Advisory Committee on EMC (ACEC) meeting

16 Nov: Review of the annual IEC/CISPR meeting

7 Dec: Review of the IEC Advisory Committee on EMC (ACEC) meeting

2015

29 April: Update on Standards Activities of the IEEE EMC Society, IEC/CISPR, and IEC/TC77 (EMC)

8 June: review of IEC Advisory Committee on EMC (ACEC) May 2015 meeting

4 August: Review activities of ANSI Accredited Standards Committee C63 (EMC)

20 Oct.: Review of the annual IEC/CISPR meeting in Italy

1 Dec.: Review of IEC Advisory Committee on EMC (ACEC) November meeting

2014

4 Nov: Results of the plenary meeting of IEC/CISPR

Other presentations/papers at the annual IEEE EMC Symposium are listed on his website with this URL: <http://www.donheirman.com/publications.htm>

In addition Don has presented numerous workshops, seminars, lectures, and tutorials at various professional meetings and symposia worldwide.

Publications/Presentations

Since 1973, he has prepared/presented well over 70 publications and presentations at national and international conferences/symposia/workshops. A sampling of his most recent work at the IEEE EMC Society symposia and other recognized EMC symposia follows:

2018

- 1) D. N. Heirman, “Basic Measurement Sites, Methods, and Associated Errors”, IEEE EMC Symposium, Long Beach, California—July
- 2) D. N. Heirman, “Application of selected EMC standards by the SEPA EM Interoperability Issues Working Group (EMIIWG) and its Association with the SEPA testing and certification Committee (TCC)”, IEEE EMC Symposium, Long Beach, California—July

2017

- 3) D. N. Heirman, “Application of selected EMC standards by the SGIP EM Interoperability Issues Working Group (EMIWG)” IEEE EMC Symposium, Washington DC, August 2017
- 4) D. N. Heirman, “US NIST Smart Grid Interoperability Panel (SGIP 2.0) and its Testing and Certification Committee”, IEEE EMC Symposium, Washington DC, August 2017
- 5) D. N. Heirman, “Basic Measurement Sites, Methods, and Associated Errors”, IEEE EMC Symposium, Washington DC—August 2017
- 6) D. N. Heirman, “Expanding C63 Test Site Validation techniques and frequency coverage”, IEEE EMC Symposium, Washington DC—August 2017

2016

- 1) D. N. Heirman, “Application of selected EMC standards by the SGIP EM Interoperability Issues Working Group (EMIWG)” IEEE EMC Symposium, Ottawa, Canada, July 2016
- 2) D. N. Heirman, “US NIST Smart Grid Interoperability Panel (SGIP 2.0) and its Testing and Certification Committee”, IEEE EMC Symposium, Ottawa, Canada, July 2016
- 3) D. N. Heirman, “Basic Measurement Sites, Methods, and Associated Errors”, IEEE EMC Symposium, Ottawa, Canada, July 2016
- 4) D. N. Heirman, “Uncertainty Considerations in Stating Pass/Fail”, IEEE EMC Symposium, Ottawa, Canada, July 2016

2004-2015

- 5) D. N. Heirman, et. al, “EMCS Standards Update and the IEC Standardization Process.” IEEE EMC/EMC Europe Symposium, Dresden, Germany, August 2015
- 6) D. N. Heirman, “NIST Smart Grid, SG Interoperability Panel (SGIP) 2.0 and the EM Interoperability Issues Working Group Activities”, IEEE EMC/EMC Europe Symposium, Dresden, Germany, August 2015
- 7) D. N. Heirman, et. al, “EMCS Standards Update and introduction to the IEC Standardization Process.” IEEE EMC Symposium, Santa Clara, CA, March 2015
- 8) D. N. Heirman, “International Standards View of Smart Grid EMC”, IEEE EMC Symposium, Santa Clara, CA, March 2015
- 9) D. N. Heirman, “Introduction to Smart Grid Interoperability Panel (SGIP) 2.0 Activity”, IEEE EMC Symposium, Santa Clara, CA, March 2015
- 10) D. N. Heirman, “Measurement Facilities and Associated Errors,” 2014 IEEE EMC Symposium Workshop—Raleigh, August 2014

- 11) D. N. Heirman, "Introduction to Smart Grid Interoperability Panel-2.0 Activities, 2014 IEEE EMC Symposium--Raleigh, August 2014
- 12) D. N. Heirman, "International Standards View of Smart Grid EMC" 2014 IEEE EMC Symposium--Raleigh, August 2014
- 13) D. N. Heirman, "Measurement Facilities and Associated Errors," 2013 IEEE EMC Symposium Workshop, Denver, August 2013
- 14) D. N. Heirman, "Measurement Facilities and Associated Errors," 2012 IEEE EMC Symposium Workshop, Pittsburgh, PA, August 2012
- 15) D. N. Heirman, "Archiving Professional Records", 2012 IEEE EMC Symposium, Pittsburgh, PA, August 2012
- 16) D. N. Heirman, "Smart Grid EMC Aspects", 2011 IEEE EMC Symposium tutorial, Long Beach, CA, August 2011
- 17) D. N. Heirman, "Standards with EMC Society Focus", 2011 IEEE EMC Symposium, Global University lecture, Long Beach, CA, August 2011
- 18) D. N. Heirman, "The Standards Process and possible Application for future GPRI activity", Purdue University lecture, September 2011
- 19) D. N. Heirman, "Measurement Facilities and Associated Errors," 2011 IEEE EMC Symposium Workshop, Long Beach, CA., August 2011
- 20) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2011 IEEE EMC Symposium Workshop, Long Beach, CA, August 2011
- 21) D. N. Heirman, "Standards with EMC Society Focus", Singapore EMC Chapter, June 2011
- 22) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2010 IEEE EMC Symposium workshop, Ft. Lauderdale, FL, July 2010
- 23) D. N. Heirman, "Measurement Facilities and Associated Errors," 2010 IEEE EMC Symposium Workshop, Ft. Lauderdale, July 2010
- 24) D. N. Heirman, "Measurement Facilities and Associated Errors," 2009 IEEE EMC Symposium Workshop, Austin, August 2009
- 25) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2009 IEEE EMC Symposium Workshop, Austin, August 2009.
- 26) D. N. Heirman, "CISPR SC A Activity for measurements above 1 GHz", three IEEE EMC Symposium Sessions in Portland, OR (2006), and Hawaii (2007)
- 27) D. N. Heirman, "Overview of International Standardization on EMC measurements above 1 GHz, IEEE EMC symposium in Austin, TX (2009).
- 28) D. N. Heirman, "Measurement Facilities and Associated Errors," 2008 IEEE EMC Symposium Workshop, Detroit, August 2008
- 29) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2008 IEEE EMC Symposium Workshop, Detroit, August 2008
- 30) D. N. Heirman, "Measurement Facilities and Associated Errors," 2007 IEEE EMC Symposium Workshop, Hawaii, July 2007.
- 31) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2007 IEEE EMC Symposium Workshop, Hawaii, July 2007.

- 32) D. N. Heirman, "CISPR SC A Activity", 2007 IEEE EMC Symposium Workshop on "Advancements in Site Validation Techniques above 1 GHz", Hawaii, July 2007
- 33) D. N. Heirman, "Introduction to IEC/ACEC" workshop," 2007 IEEE EMC Symposium Workshop, Hawaii, July 2007.
- 34) D. N. Heirman, "Measurement Facilities and Associated Errors," 2006 IEEE EMC Symposium Workshop, Portland, Oregon, August 2006.
- 35) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2006 IEEE EMC Symposium Workshop, Portland, Oregon, August 2006.
- 36) D. N. Heirman, "CISPR SC A Activity", 2006 IEEE EMC Symposium Workshop on "Advancements in Site Validation Techniques above 1 GHz", Portland, Oregon, August 2006
- 37) D. N. Heirman, "IEEE Standards Association and Standards Development Process", 2006 IEEE EMC Symposium Workshop, Portland, Oregon, August 2006
- 38) D. N. Heirman, "ANSI C63.5 Antenna Calibration Workshop", Portland, Oregon, August 2006.
- 39) D. N. Heirman, et. al., "A History of the Evolution of EMC Regulatory Bodies and Standards", 16th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, February 2005.
- 40) D. N. Heirman, "Overview of Global Standards related to Site Validation and Measurements above 1 GHz", 16th International Zurich Symposium Workshop on Electromagnetic Compatibility, Zurich, Switzerland, February 2005.
- 41) D. N. Heirman, "Measurement Facilities and Associated Errors," 2005 IEEE EMC Symposium Workshop, Chicago, IL, August 2005.
- 42) D. N. Heirman, "Uncertainty Considerations in Stating Pass/Fail," 2005 IEEE EMC Symposium Workshop, Chicago, IL, August 2005.
- 43) D. N. Heirman, "Implementing EMC Measurement Uncertainty", 2004 International Symposium on (EMC'04) Workshop, Sendai, Japan, June 2004.

For a more complete listing visit Don's web site
<http://www.donheirman.com/publications.htm>

Biographical Publications (initial listing)

- "Who's Who in the East", 26th Edition
- "Who's Who in Finance and Industry", 30th Edition
- "Who's Who in the Media and Communications, 1st Edition
- "Who's Who in Technology, 6th Edition
- "Who's Who in America", 52nd through 60th Edition, 1998-2006
- "Who's Who in the World", 14th through 23rd Edition, 1997-2006
- "Who's Who in Finance and Business, 35th Edition, 2006
- "Who's Who in Science and Engineering", 9th edition, 2006 and earlier
- "Who's Who in the East", 33rd Edition, 2005

“International Directory of Distinguished Leadership”, 6th Edition
“American Men and Women of Science”
“Men of Achievement”, 16th and 17th Editions, 1994 and 1997
“Five Thousand Personalities of the World”, 1998
“Dictionary of International Biography”, 23rd Edition

Note: Also listed in more recent versions of some of the above key publications.

Purdue University Activities (1958-1963)

1962: Commissioned Ensign in US Navy (ROTC graduate)
1962: Executive President--Excalibur Club for Wiley Residence Hall (then H-3)
1961: Executive Treasurer--Excalibur Club
1961: Iron Key
1959-1962: Omicron Delta Kappa--1961
Tau Beta Pi--1961
Eta Kappa Nu (member and treasurer)--1960
Phi Eta Sigma--1959
Pendragon--
Navy Midshipman Battalion Executive Officer--1961
Distinguished ROTC Student--1960
Student Legislature--1961
Newman Club--1958
University Choir—1958
Military honoraries
Navy Quarterdeck--1961
Pershing Rifles--1960
Navy Scabbard and Blade--1960
Society of Military Engineers--1961
1958: Purdue University State Scholarship

1963: After receiving his MSEE degree, he reported for Active Duty in US Navy serving in the Pentagon starting in September

1963 through present

R. B. Stewart Award--2010
Outstanding Electrical Engineer--2011
Life member of President's Council--2012
Life member of Purdue Alumni Association—2011
President's Council Pinnacle Award--2011

Purdue University Library Special Collection of Papers

2014: e-Archives went live.

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Purdue collection site: <http://collections.lib.purdue.edu/heirman/>

Purdue Special Collection Finding aid:
http://collections.lib.purdue.edu/fa/pdf/Heirman_MSA291.pdf

IEEE History Center history

2015;

“*A Professional Life*” IEEE reading website: http://ethw.org/Don_Heirman#Further_Reading

Engineering and Technology History Wiki: http://ethw.org/Don_Heirman

Oral History: http://ethw.org/Oral-History:Don_Heirman

Mishawaka (Indiana) High School Activities (1954-1958)

Pre-Engineering Course

1958	Class Salutatorian
1957-1958:	National Honor Society
1958	Junior Kiwanian
1957	Class Play
1957-1958	Alltold (school newspaper--staff member and photographer)
1957-1958	Miskodeed (year book) staff
1958	Miskodeed editor in chief
1954-1958	Engineering Club
1954-1958	Hi-Y
1959	Junior Red Cross
1957-1958	Science Club
1958	Class Vice President
1955-1958	Ushers Club
1957-1958	A Cappella Choir
1958	Choraliers
1958	Quill and Scroll Honorary

Other high school activity (Supporting Class of 1958)

2009-Pres.: Support Class Newsletter
2009-Pres.: Support Alumni Newsletter
2012-Pres.: Class reunion planning committee
2015-Pres.: Arranging city historical tour for Class of 1958 for 4 August 2016

Other Mishawaka activity

Established the Mishawaka Historical Museum

- 2018: Co-wrote article on museum construction progress for weekly Mishawaka Newspaper (Enterprise)--August
- 2017: Purchased museum building-May
Wrote articles on Museum for Mishawaka weekly newspaper (Mishawaka Enterprise) for 12 Jan, 25 May and 8 June editions
Wrote article on Museum for Mishawaka Alumni Association Newsletter for June edition
Launched museum website--May
www.mishawakamuseum.com
- 2016: Received support for museum by Mishawaka Historic Preservation Commission—August
Incorporated Mishawaka Historical Museum—October
Received tax exemption—December
- 2015-Pres.: Provide photos for Enterprise Newspaper historical articles and construction progress
- 2015-2016: Fostering start of a living history Mishawaka downtown museum with article in Enterprise and Mishawaka Alumni Newsletter

Hometown Hero Banner

- 2017: Showed in Battelle Park: “Hometown Hero” banner identifying Navy service