

CURRICULUM VITAE

NAME Kenneth R. Foster

DATE/PLACE OF BIRTH July 21, 1945
Baltimore, Maryland

NATIONALITY United States Citizen

EDUCATION

1967	B.S. (Honors) Physics Michigan State University
1968	M.S. (Physics) Indiana University
1971	Ph.D. (Physics) Indiana University

POSITIONS HELD

1971-1976	Lieutenant, Medical Service Corps, U.S. Naval Reserve (assigned as a Biophysicist to the Naval Medical Research Institute, and Armed Forces Radiobiology Re- search Institute, both in Bethesda, Maryland)
1976-1977	National Institutes of Health Research Service Award, Bioengineering Department, University of Pennsylvania, Philadelphia, PA 19104
1977-1983	Assistant Professor Department of Bioengineering University of Pennsylvania
1983-	Associate Professor Department of Bioengineering University of Pennsylvania
1985	(during sabbatical leave) Visiting Professor Department of Electrical Engineering University of Ottawa, Canada
1999-	Professor Department of Bioengineering University of Pennsylvania
2000	(during sabbatical leave) Consultant, EMF Project, World Health Organization, Geneva, Switzerland

OTHER UNIVERSITY APPOINTMENTS

1992- (secondary Appointment)
Department of Electrical Engineering
University of Pennsylvania

1992 - Member, Steering Committee, Institute for
Environmental Studies, University of Pennsylvania

2000 Faculty advisory committee, Center for Bioethics,
University of Pennsylvania

HONORS/DISTINCTIONS

Indiana University Physics Department
Award for Excellence in Teaching, 1970.

National Science Foundation Traineeships,
1967-1969 and 1970-1971.

Defense Nuclear Agency Certificate of Achievement,
1976.

National Institutes of Health Research Service
Award, 1976-1977.

Professional Engineer in the State of Pennsylvania
1981 (Certificate Number: PE-030018-E).

Fellow, Institute of Electrical and Electronics
Engineers, 1987.

Member, Electromagnetics Academy, "For distinguished
achievements and leadership in the field of
electromagnetics and its various applications,"
1990.

2000 IEEE Millennium Award

2016 d'Arsonval Award (highest award of
Bioelectromagnetics Society) 2016

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

AAAS
Biophysical Society
Bioelectromagnetics Society (Member Technical
Program Committee, 1981
Member, Board of Directors, 1983-85), Chair,
Awards Committee (1983-5).
American Physical Society
Sigma Xi
IEEE (Fellow)
Health Physics Society
Radiation Research Society

Neuroethics Society
American Institute of Medical and Biological
Engineering

MAJOR CONFERENCE ORGANIZATION

Meeting Chairman, 13th Annual Northeast
Bioengineering Conference, Philadelphia, 1987.
(250 papers presented)

Technical Program Chairman, IEEE Engineering in
Medicine and Biology Society, Boston MA, 1987.
(1200 papers presented)

Steering Committee, Northeast Bioengineering
Conference, 1986-1990.

Steering Committee, International Symposium for
Technology and Society, 1997,1998,1998

MAJOR SERVICE TO PROFESSION

IEEE:

IEEE Engineering in Medicine and Biology
Chair, Philadelphia Chapter, Section on
Engineering in Medicine and Biology (1980-1981);
Member of IEEE-EMBS Administrative Committee,
1984-6, 1989-91), Awards Committee, IEEE Philadelphia
Section (1988-), Chair, IEEE-EMBS Committee on
Ethics and Professional Responsibility (1988-9),
Chair, IEEE EMBS Technical Interest Profiles Committee (1989-),
Distinguished Lecturer 1991-

IEEE Society on Social Implications of Technology (2000 members)
Treasurer, 1994
Vice President 1995-1997, 2009-11
President 1997-1998
Member of Board of Governors 1999-2006
Chair, Philadelphia Chapter of SSIT 2021-

IEEE EMBS Committee on Man and Radiation (COMAR)
Member 1990-; Vice Chair (Chair-Elect) 1995-7 ; Chair 1997-9, member
1999-

IEEE Medical Technology Policy Committee 1995- 2010

IEEE International Committee on Electromagnetic Safety (ICES) (develops
IEEE C95.1 exposure limits for electromagnetic fields)

Accreditation Board for Engineering and Technology Accreditor, 1991-1995.
Evaluated Bioengineering programs at 5 major universities.

Society of Risk Analysis, Philadelphia Section,

President 1996-7.

Editor in Chief/co-Editor in Chief, Biomedical Engineering Online, 2005-2018

Physical Agents Committee, American Conference of Governmental Industrial Hygienists 2012-

Scientific Advisory Committee, EMF Program, Electric Power Research Institute approximate dates 2000-2010

National Council on Radiation Protection & Measurements
Member (approximate dates 2000-2005)

Member of the Scientific Committee for NCRP Commentary No. 18 (2003)
(Biological Effects of Modulated Radiofrequency Fields.)

Royal Society of Canada, Committee to Review Draft Safety Code 6 (Canadian RF safety limits) 2013-4

Frequent (3 times per year) participant in NIH Special Study Sections
(review grant applications)

RESEARCH EXPERIENCE AND DIRECTION

Since receipt of the Ph.D. in 1971, Dr. Foster has been engaged in studies on the interaction of nonionizing radiation and biological systems. The major emphasis of this work has been on the biophysical principles of interaction. Other significant interests have been on biomedical applications and health effects of electromagnetic fields and risk assessment with emphasis on possible health risks of nonionizing electromagnetic energy.

TEACHING EXPERIENCE

1974-1976 Lecturer (part-time), Physics Department, Montgomery College, Rockville, MD.

Courses taught at the University of Pennsylvania

Spring 1977 BE 99 Independent study: Supervised Readings in Neurophysiology.

Fall 1978 BE 352 Applied Physical Chemistry (with M. Litt).

Spring 1978-81 BE 310 Bioinstrumentation Laboratory. This is a
1988- lecture and laboratory course (3 hours lecture,
3 hours laboratory per week) that was reorganized
and equipped by Dr. Foster.

Fall 1979- BE 465 Bioelectric Instrumentation. This is a

required senior design course for BE seniors who areminoring in instrumentation

Fall 1981- BE 565 Biomedical Instrumentation. Elective introductory graduate course emphasizing microcomputer applications in medical instrumentation.

Spring 1983-1987 BE 511 Introduction to Bioengineering. Application of linear systems theory to biomedical engineering.

Spring 1987-8 BE 201 Introduction to Bioengineering. Application of linear systems theory to biomedical engineering

Fall 1995- BE 222 (Physical Principles of Living Systems) (core sophomore course for Bioengineering majors)

Fall 1997 - BE 615 (Case Studies in Biomedical Engineering)

Other: Developed and had approved Environment and Technology program in SEAS (dual-degree program with the College) 1997.

Undergraduate Curriculum Chair, Bioengineering, 1998-

DISSERTATIONS/THESES SUPERVISED

Ph.D. Theses

1981 Jonathan L. Schepps (Microwave dielectric properties of tissues)

1982 Benjamin R. Epstein (Dielectric studies on micro-emulsions)

1983 Jeffrey D. Kosterich (Dielectric properties of fluid saturated bone) (with S. R. Pollack)
Present position: independent consultant.

1986 James W. Baish* (Models of heat transport in tissue) with P. S. Ayyaswamy)

1988 Erik Cheever (Imaging capabilities of microwave radiometry)

1990 Jonathan B. Leonard (Noninvasive measurement of subsurface tissue temperatures with microwave radiometry)

1991 Amanda J. Osborn (Dielectric and electrooptic properties of suspensions)

* NSF Presidential Young Investigator Award, 1990

- 1991 Susan Rae Smith (Dielectric properties of tissues)
- 1992 Mark S. Mirotznik (Helical antenna for catheter ablation)
- 1998 Isaac Chang (Electrical characterization of myocardium for microwave ablation)

UNIVERSITY ADMINISTRATIVE RESPONSIBILITIES

Bioengineering Department

- 1978,1986 Seminar Chairman
- 1978-1981 Graduate Admissions Committee
- 1980-1981 Undergraduate Curriculum Co-chairman
- 1981-1984; 1998- Undergraduate Curriculum Chairman in Bioengineering (organized successful Department preparation for the first accreditation visit by the Accreditation Board for Engineering Training)

School of Engineering and Applied Science

- 1979-1980 Library Committee
- 1980-1981 SEAS Computer Utilization Committee
- 1981 Alternate Member, SEAS Academic Freedom and Responsibility Committee
- 1987- Academic Performance Committee, SEAS
- 1988 Faculty Secretary, SEAS
- 1989 Search Chair, Electrical Engineering Department Chair Committee

Other

- 1992- Graduate Group, Center for Energy and the Environment
- 1992 - Chair, ad-hoc committee to plan President's Symposium on Development and the Environment

- 1982 - Steering Committee, Institute for Environmental Studies, University of Pennsylvania
- 1998 -1999 Faculty Associate, Ware College House
- 1998 - Undergraduate curriculum chair, Bioengineering Department (responsible for undergraduate program with 265 students).

EDUCATIONAL DEVELOPMENT Developed and had approved a new dual-degree program Environment and Technology (1997) between the School of Engineering and Applied Science and School of Arts and Sciences, University of Pennsylvania

CONSULTING ACTIVITIES

K. Foster has consulted extensively with government and industry on health and safety issues related to electromagnetic fields, and medical applications of radiofrequency energy.

Referee for Journals

Aviation, Space, and Environmental Medicine
Bioelectromagnetics
Biophysical Journal
IEEE Transactions (IM, MTT, BME, Access, J. of Electromagnetics, RF, and Microwaves in Medicine and Biology, Trans. Terahertz Sci.Tech.)
Journal of the American Chemical Society
Journal of Clinical Nutrition
Journal of Colloid and Interface Science
Journal of Microwave Power
Journal of Physical Chemistry
Nature
Physical Review
J. Physics.
Int. J. Environ. Res. Public Health
Physics in Medicine and Biology
Science
Diagnostics
Neural Computing and Applications
PlosONE
Applied Soft Computing

EDITORIAL RESPONSIBILITIES

Associate Editor, IEEE Transactions on Biomedical Engineering, 1985 - 1989.

Editorial Board Memberships

Bioelectromagnetics (1983-1990)
Journal of Microwave Power (1981-6)
Editor in Chief/co-EIC Biomedical Engineering Online (2006-2018)

PATENTS

Patent Number 5,447,529, Method of using endocardial impedance for determining electrode-tissue contact, appropriate sites for arrhythmia ablation and tissue heating during ablation. D. Panescu, D. K. Swanson, M. S. Mirotznik, D. S. Schwartzman, I. Chang, K. R. Foster. (Sept. 5, 1995).

Patent Number 5,562,721, Method of using endocardial impedance for assessing tissue heating during ablation. F. E. Marchlinski, D. S. Schwartzman, M. S. Mirotznik, C. D. Gottlieb, I. Chang. (Oct. 8, 1996).

Patent Number 5,673,704 Method of using endocardial impedance for determining electrode-tissue contact. F. E. Marchlinski, D. S. Schwartzman, M. S. Mirotznik, K. R. Foster, C. D. Gottlieb, I. Chang (Oct 7, 1997).

Patent Number 6,256,540 Systems and methods for examining the electrical characteristic of cardiac tissue Inventors: D. Panescu, D. K. Swanson, M. S. Mirotznik, D. S. Schwartzman, K. R. Foster (July 7, 2001).

Patent Number 6,370,435 Systems and methods for examining the electrical characteristic of cardiac tissue. D. Panescu, D. K. Swanson, M. S. Mirotznik, D. S. Schwartzman, K. R. Foster (April 9, 2002)

Patent Number 6,597,955 Systems and methods for examining the electrical characteristic of cardiac tissue D. Panescu, D. K. Swanson, M. S. Mirotznik, D. S. Schwartzman, K. R. Foster

SEMINARS/LECTURES/PRESENTATIONS

The state of water in tissue as determined by microwave dielectric spectroscopy. Baylor University, Department of Physiology, September 1980.

Dielectric properties of tumor and normal tissues. University of Ottawa, Department of Electrical Engineering, July 1981.

Dielectric properties of tissues and heterogeneous suspensions. Talk presented to the Bureau of Radiological Health, Food and Drug Administration, Rockville, MD, December 1981.

On the possible hazards of VLF radiation. Talk presented to a Workshop

on VLF Radiation Hazards, Naval Medical Research and Development Command, Bethesda, MD, December 1981.

Dielectric properties of dispersed systems. Rice University, Department of Physics, May 1982.

Dielectric properties of biological materials at microwave frequencies. Drexel University, Center for Bioengineering, January 1983.

Mixture theory and transport properties of phantom tissue materials. HPC Working Group Meeting on Hyperthermia Phantoms, Allegheny Hospital, Pittsburgh, PA, February, 1984.

Transport properties of heterogeneous systems. NATO Advanced Research School, Erice, Sicily, September 1984 (Invited paper).

The microwave debate. Center for Bioengineering, Drexel University, January 1985. (Also presented at Dartmouth College, Swarthmore College, Johns Hopkins University, Universities of Arizona, Illinois, Ottawa, Pennsylvania, Purdue, Rhode Island, Rochester, Utah, Tucuman (Argentina), Victoria (British Columbia), Washington University)

Transport properties of heterogeneous systems. (Invited Speaker) Argentine Dielectrics Discussion Group, La Plata, Argentina, August 1985.

Heat transport in tissues. Univ. of Maryland School of Medicine 1986.

Dielectric properties of tumor and normal tissues (Plenary Lecture). Radiation Research Society Annual Meeting, Las Vegas NV, 1986.

Dielectric properties of tumor and normal tissues. Thomas Jefferson University Hospital, Department of Radiation Therapy, 1986.

Distinguished Faculty Lecturer, School of Engineering, Bucknell University, 1988. (presented several lectures and seminars).

Dielectric properties of water in biological and other suspensions Gordon Research Conference on Dielectrics, 1986.

Dielectric properties of tumor and normal tissues. Thomas Jefferson University Hospital, Department of Radiation Therapy, 1986.

Currents of death: Controversy about health effects of electromagnetic fields. K. R. Foster. 16th Northeast Bioengineering Conference, State College, PA March 1990. (Plenary Lecture).

Spiraled-helix antenna for catheter ablation of myocardial tissue using microwave energy. M. S. Mirotznik, D. K. Bogen, and K. R. Foster. 16th Northeast Bioengineering Conference, State College, PA March 1990.

Dielectrophoresis and levitation of cells: How are they related and what do they show? K. R. Foster. International Conference on Biophysics of Transmembrane Electric Fields, Baltimore MD 1990.

- Powerline fields and cancer? Thomas Jefferson University Hospital, 1990.
(also presented at Temple University, Department of Radiology, University of Pennsylvania)
- Health effects of nonionizing electromagnetic fields: what is the problem and what should we do about it? Harvard School of Public Health, January 1991
- Health effects of electromagnetic fields - scientific basis and policy implications. Program for Assessing and Revitalizing the Social Sciences, Environmental Risk and Public Policy Seminar, University of Pennsylvania, February 22, 1990.
- Health effects of nonionizing electromagnetic fields (University of New Hampshire, April 1991).
- Health effects of nonionizing electromagnetic fields. Seminar at Allied Chemical Company, Philadelphia PA April 1991.
- Powerline fields and cancer? IEEE Philadelphia Section, April 1991.
- Currents of death? -- controversy about health effects of electromagnetic fields, Temple University Department of Physics, December 1991.
- Currents of Death? - Controversy about Health Effects of Electromagnetic Fields, Engineers' Week Special Lecture, Morristown NJ, February 1992.
- Currents of death? - Controversy about health effects of electromagnetic fields. IBM Watson Laboratory, April 1992.
- Health effects of electromagnetic fields - a biophysical perspective
University of Maryland School of Medicine, Biophysics Department, Baltimore
MD, May 1992.
- Currents of death? - Controversy about health effects of electromagnetic fields. MIT Lincoln Laboratories, May 1992.
- Journalistic standards in reporting on science and health (participant in a panel discussion sponsored by Manhattan Institute, New York, July 1992)
- Health Effects of Powerline Fields. IEEE Puerto Rico and Caribbean Section, San Juan PR May 1993.
- Biological effects and medical applications of millimeter waves. Temple University Center for Biomedical Physics, Philadelphia PA September 1993.
- Phantom Risk: What we cannot know about environmental risk. Commonwealth Club, San Francisco CA, October 1993.
- Health effects of powerline fields. Seminar presented at Pennsylvania State University Sept. 1994, also presented at IEEE Susquehanna Section Nov. 1994.

Biological effects of powerline fields. University of Minnesota, Minneapolis MN, March 1995.

Radiofrequency interference with medical equipment: how great is the risk? University of Minnesota March 1995.

Radiofrequency interference with medical equipment. IEEE Engineering in Medicine Society meeting, Philadelphia PA May 1995.

Science and nonscience, science and junk science: defining the boundaries. Manhattan Institute symposium, Washington DC June 1995.

Currents of death? The controversy about potential health effects of electromagnetic fields. Department of Physics, University of Toronto, Sept. 1995.

Health effects of wireless communications systems: what are the issues? University of Texas Health Sciences Center, San Antonio Sept. 1995.

Health effects of electromagnetic fields: real or phantom risk? Bioengineering Dept. Northwestern Univ. March 1996.

Science, junk science, and the law. Manhattan Institute, New York. Feb. 1996

Science and the Law, Manhattan Institute, New York, June 1997.

How do we know it works? Columbia University, The Center for Biomedical Engineering, May 1998.

Health and safety implications of wireless communications. Seminar at IEEE Section Morelia, Mexico, Oct. 1998

More heat than light: exposure standards for protection of the public against microwave radiation. University of Texas Health Sciences Center, Oct. 1998

Electromagnetic fields and Cancer. Columbia University, Center for Bioengineering, January 1999.

Health Effects of Electromagnetic Fields. University of Girona, Girona Italy, July 2000.

Health effects of mobile telephones, European Patent Office, Den Haag, August 2000.

Health effects of mobile telephones, Columbia University, Center for Bioengineering, September 2000.

How safe are cell phones? New Jersey Junior Science Symposium (featured talk at a symposium for high school students) Monmouth NJ April 2001

Risks of wireless communications. IEEE Distinguished Lecturer, IEEE Birmingham Section, Birmingham AL April 2001. Similar lectures at Rose Hulman Institute, Terre Haute IN and Drexel University, Philadelphia PA (Oct. 2001),

Columbia University (Nov. 2001)

What makes medical technology work? University of Waterloo (Waterloo Ontario)
Oct. 2001.

Peering into the Brain. Lecture sponsored by IEEE History Center and Edward
J. Bloustein School of Planning and Public Policy, Rutgers University, Nov.
13, 2003

Peering into the Brain: Better Lie Detection through Neuroscience? Dickinson
College, Feb. 20, 2004; Loyola Marymount Univ. Dec. 3, 2005

Thermal models for microwave-tissue interaction. COST 281 meeting, Paris,
September 2005

Modulation as a factor in biological effects of radiofrequency fields, COST
281 meeting, Zurich, February 2005

Mechanisms of Interaction of ELF Fields with Biological System: Can the
Physics and Biology be Reconciled?; Ultrawideband Pulses: Interaction
Mechanisms in the Time Domain UNESCO/WHO Seminar and NATO Advanced Research
Workshop, Yerevan Armenia March 2005

New methods of polygraph analysis: perils and promises. University of
Wisconsin, April 2005

Health Effects of Nonionizing Radiation. Old Dominion University, May 2006

Peering into the Brain. Hale Ethics Lecture, Rochester Institute of
Technology, Jan 2008.

Series of three lectures on health effects of electromagnetic fields, Gazi
University, Ankara Turkey March 2007

Peering into the Brain: Nonmedical Uses of Neuroscience. Robert M. and Mary
Haythornwaite Foundation Distinguished Lecture Series, Temple University,
November 2009

Health effects of wireless communications. ASSOCHAM conference on mobiles and
health, New Delhi, Feb. 2012

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

The electrical resistivity of aqueous cytoplasm. K. R. Foster, J. M.
Bidinger

and D. O. Carpenter. Presented at the Biophysical Society 20th Annual
Meeting, Seattle, WA, February 1976.

Bounds on bound water: transverse and rotating frame NMR relaxation in
barnacle muscle. H. A. Resing, A. N. Garroway, and K. R. Foster.
Presented at the American Chemical Society Centennial Meeting, San

Francisco, CA, September 1976.

Free water and the microwave conductivity of tissue. H. P. Schwan and K. R. Foster. Presented at the USNC/URSI Annual Meeting, Amherst, MA, October 1976.

Effect of surface cooling and blood flow on the microwave heating of tissue.

H. N. Kritikos, K. R. Foster and H. P. Schwan. Presented at the IEEE Microwave Symposium, San Diego, CA, June 1977.

Temperature rise in tissue spheres induced by microwave radiation: a Greens function approach. H. N. Kritikos, K. R. Foster and H. P. Schwan. 1978 Symposium on Electromagnetic Fields, Ottawa, Canada, June 1978.

Auditory responses in cats produced by pulsed ultrasound. K. R. Foster and M. J. Wiederhold. Presented at the 1978 meeting of the Acoustical Society of America, Providence, RI, May 1978.

Dielectric properties of brain tissue between 0.01 and 7 GHz. K. R. Foster, R. D. Stoy and H. P. Schwan. URSI Meeting, Helsinki, Finland, August 1978.

Tissue impedance measurements using the microwave network analyzer. J. L. Schepps, A. W. Friend, Jr. and K. R. Foster. URSI National Radio Symposium, Seattle, WA, June 1979.

Microwave dielectric absorption of muscle tissue: evidence for multiple absorption mechanisms between 1 and 18 GHz. K. R. Foster, J. L. Schepps and H. P. Schwan. International IEEE Symposium, Seattle, WA, June 1979.

The state of water in tissues as indicated by microwave dielectric spectroscopy. K. R. Foster, J. L. Schepps and H. P. Schwan. International Conference on Water and Biological Systems, Bucharest, Romania, June 1980.

UHF and microwave dielectric properties of tissues: variation in tissue dielectric properties with water content. K. R. Foster and J. L. Schepps. Second Annual Meeting of the Bioelectromagnetics Society, San Antonio, TX, September 1980.

Microwave dielectric studies on tissues and heterogeneous materials. Symposium Honoring H. P. Schwan's 65th Birthday, Philadelphia, PA, November, 1980.

Heat transfer in surface-cooled objects subject to microwave heating. K. R. Foster, P. S. Ayyaswamy, T. Sundararajan and K. Ramakrishna. Third Annual Meeting of the Bioelectromagnetics Society, Washington, DC, August 1981.

UHF and microwave dielectric properties of normal and tumor tissues. J. L. Schepps and K. R. Foster. IMPI 16th Annual Symposium, Toronto, Canada, June 1981.

- Anisotropic impedance properties of skeletal muscle. B. R. Epstein, R. G. Settle and K. R. Foster. 9th Annual Northeast Bioengineering Conference, Piscataway, NJ, March 1981.
- Dielectric dispersion studies on nonionic microemulsions. K. R. Foster, P. C. Jenin, B. R. Epstein and R. A. Mackay. Colloid and Surface Symposium, Cleveland, OH, June 1981.
- The effects of high power microwave pulses on red blood cells. S. L. Gartner, A. W. Friend, K. R. Foster and H. Howe Jr. IEEE-MTT Symposium, Los Angeles, CA, July 1981.
- Dielectric properties of bone under near-normal physiological conditions. J. D. Kosterich, K. R. Foster and S. R. Pollack. First Annual Bioelectric Growth and Repair Symposium, Philadelphia, PA, September 1981.
- Dielectric studies on ionic and nonionic microemulsions. B. R. Epstein, K. R. Foster and R. A. Mackay. 56th National Colloid and Surface Science Symposium, Blacksburg, VA, June 1982.
- Dielectric properties of fluid saturated bone. J. D. Kosterich, K. R. Foster and S. R. Pollack. Fourth Annual Meeting of the Bioelectromagnetics Society, Los Angeles, CA, July 1982.
- Dielectric studies on ionic and nonionic microemulsions. B. R. Epstein, K.R. Foster and R. A. Mackay. Fourth Annual Meeting of the Bioelectromagnetics Society, Los Angeles, CA, July 1982.
- Dielectric properties of DNA at microwave frequencies. K. R. Foster, M. A. Stuchly and A. A. Kraszewski. Fourth Annual Meeting of the Bioelectromagnetics Society, Los Angeles, CA, July 1982.
- Dielectric properties of fluid saturated bone: the effects of fluid conductivity. J. D. Kosterich, K. R. Foster and S. R. Pollack. 29th Annual Orthopaedic Research Society Annual Meeting, Anaheim, CA, March 1983.
- Perfused phantom tissue models for hyperthermia research. J. W. Baish, P. S. Ayyaswamy and K. R. Foster. 31st Annual Meeting of the Radiation Research Society, San Antonio, TX, February 1983.
- Dielectric absorption of bound water and its relation to other transport properties of polymer solutions. E. Cheever, K. R. Foster, J. B. Leonard and F. D. Blum. 5th Annual Meeting of the Bioelectromagnetics Society, Boulder, CO, June 1983.
- Transport properties of O/W microemulsions. K. R. Foster, E. Cheever, J. B. Leonard, F. Blum, and R. A. Mackay. American Chemical Society Annual Meeting, Washington, DC, August 1983.
- Multicomponent diffusion in microemulsions. E. Cheever, K. R. Foster, F. Blum, and R. A. Mackay, American Chemical Society Annual Meeting, Washington, DC, August 1983.

- Thermal properties of tissue-equivalent electromagnetic phantoms. J. B. Leonard, K. R. Foster, and T. Whit Athey, 5th Annual Meeting of the Bioelectromagnetics Society, Boulder, CO, June 1983.
- Dielectric properties of water in biological systems. H. P. Schwan and K. R. Foster, Conference on Biophysical Correlates of Cellular Function, Woodlands, TX, June 1983.
- Mixture theory and transport properties of phantom tissue materials. K. R. Foster, HPC Working Group Meeting on Hyperthermia Phantoms, Allegheny Hospital, Pittsburgh, PA, February 1984.
- Perfused phantom tissue models for microwave research. J. W. Baish, P. S. Ayyaswamy, and K. R. Foster, HPC Working Group Meeting on Hyperthermia Phantoms, Allegheny Hospital, Pittsburgh, PA, February 1984.
- Electrical properties of low water content tissues. S. R. Smith and K. R. Foster, Sixth Annual Meeting of the Bioelectromagnetics Society, Atlanta GA, July 1984.
- Development of phantom tissue models for hyperthermia research. J. W. Baish, K. R. Foster, and P. S. Ayyaswamy, Eleventh Northeast Bioengineering Conference, Worcester MA, March 1985
- Myocardial regional perfusion rate measurements with microwave heating and radiometry, J. B. Leonard, J. W. Baish, D. K. Bogen, and K. R. Foster, Eleventh Northeast Bioengineering Conference, Worcester MA, March 1985
- Thermal modeling of vascular tissues subject to microwave heating. J. W. Baish, P. S. Ayyaswamy, and K. R. Foster, Seventh Annual Meeting of the Bioelectromagnetics Society, San Francisco CA, June 1985 (Best Student Paper Award).
- Sensitivity of microwave radiometry for detection of subcutaneous targets. E. Cheever and K. R. Foster, Seventh Annual Meeting of the Bioelectromagnetics Society, San Francisco CA, June 1985.
- Dynamic phantom design: principle and practice. J. W. Baish, P. S. Ayyaswamy, and K. R. Foster. IEEE Engineering in Medicine and Biology Meeting, Chicago IL, Sept. 1985.
- Radiation patterns from ridged waveguide antennas in lossy media. J. B. Leonard, E. Cheever, and K. R. Foster. 13th Northeast Bioengineering Conference, Philadelphia PA March 1987.
- Low frequency relaxation of suspensions of charged particles in electrolyte solution. C. Grosse and K. R. Foster, 13th Northeast Bioengineering Conference, Philadelphia PA March 1987.
- The use of coaxial probes for precise dielectric measurements: a reevaluation. B. R. Epstein, M. A. Gealt, and K. R. Foster. IEEE-MTT-S Microwave Symposium, Las Vegas NV, June 1987.

- Thermal response of ethanol-fixed perfused kidney using microwave radiometry
J. B. Leonard, D. K. Bogen, and K. R. Foster. IEEE Engineering in
Medicine and Biology Ninth Annual Conference, Boston MA, November 1987.
- The dielectric properties of canine normal and neoplastic splenic tissues.
J. C. Astbury, M. H. Goldschmidt, S. Evans, G. W. Neibauer, and
K. R. Foster. 14th Northeast Bioengineering Conference, Durham
NH, March 1988.
- Sensitivity analysis of microwave radiometry for the detection of tumors.
E. A. Cheever and K. R. Foster. IEEE Engineering in Medicine and Biology
Tenth Annual Conference, New Orleans LA, November 1988.
- On the selection of a bioheat equation for modeling hyperthermia treatments.
J. W. Baish, K. R. Foster, and P. S. Ayyaswamy, Ninth Annual Meeting of the
North American Hyperthermia Group, Seattle WA, March 1989 (Invited Paper)
- Currents of death: Controversy about health effects of electromagnetic
fields. K. R. Foster. 16th Northeast Bioengineering Conference, State
College, PA March 1990. (Plenary Lecture).
- Myocardial electrical resistivity mapping in ischemic sheep hearts and
healing
aneurisms. M. A. Fallert, M. S. Mirotznik, D. K. Bogen, S. W. Downing,
E. B. Savage, K. R. Foster, and M. E. Josephson. 63rd Scientific Sessions
of the American Heart Association, Dallas TX November 1990 (abstract
published in Circulation, Vol 82: pp 451-451 (1990)
- Dielectrophoresis and levitation of cells: How are they related and what do
they show? K. R. Foster. International Conference on Biophysics of
Transmembrane Electric Fields, Baltimore MD 1990.
- Dielectrophoresis and levitation techniques for measuring the dielectric
properties of colloidal particles. K. R. Foster and H. P. Schwan,
IEEE Engineering in Medicine and Biology Annual Meeting,
Phila. PA November 1990.
- What is an "effect"? - Assessing causation in bioeffects studies.
K. R. Foster, IEEE Engineering in Medicine and Biology Annual Meeting,
Phila. PA November 1990.
- Interaction of electromagnetic fields with biological systems. K. R. Foster.
(Invited Paper). Electro/91 April 1991.
- Impedance mapping of myocardial tissue during ischemia. M. S. Mirotznk,
M. A. Fallert, D. K. Bogen, and K. R. Foster, 17th Northeast
Bioengineering Conference, Hartford CT, April 1991.
- Health effects of low-level electromagnetic fields - a challenge to the
standards setting process. K. R. Foster. American National Standards
Institute Public Conference, Reston VA April 1991.

Biological effects of low-frequency electromagnetic fields: science and its limits in risk assessment (Invited Presentation) American Physical Society, Washington DC (April 1991).

Biological effects of low-frequency electromagnetic fields: science and its limits in risk assessment (Invited Presentation) American Physical Society Spring Meeting, Washington DC (April 1991).

Biological effects of nonionizing electromagnetic fields (Invited presentation). Electromagnetic Energy Policy Alliance, Washington DC April 1991.

Heating characteristics of thin helical antennas. M. S. Mirotznik, N. Engheta, and K. R. Foster. Northeast Bioengineering Conference, Kingston RI, March 1992,

Heating characteristics of thin helical antennas with conducting cores. M. S. Mirotznik, N. Engheta, and K. R. Foster. 1993 IEEE Antennas and Propagation Society/URSI Radio Science Meeting, Ann Arbor MI June 1993.

Radiofrequency energy-induced myocardial lesion growth characteristics using constant power. D. Schwartzman, I. Chang, T. Kamplain, A. Cowen, A. A. Adas, M. S. Mirotznik, K. R. Foster, and C. D. Gottlieb. 1993 American Heart Association Conference, Atlanta GA, November 1993.

Radiofrequency energy-induced myocardial lesion volume and formation rate is increased using a new electrode design. D. Schwartzman, I. Chang, A. A. Adas, M. S. Mirotznik, I. Shai, K. R. Foster, C. D. Gottlieb, F. E. Marchlinski. 1993 American Heart Association Conference, Atlanta GA, November 1993.

Myocardial impedance changes with radiofrequency energy application: effects of temperature and electrode geometry. D. Schwartzman, I. Chang, T. Kamplain, A. Cowen, I. Shai, K. R. Foster, C. D. Gottlieb, 1993 American Heart Association Conference, Atlanta GA, November 1993.

Effect of chronic infarction on myocardial impedance and impedance changes induced by application of radiofrequency energy, D. Schwartzman, I. Chang, K. R. Foster, C. D. Gottlieb, F. E. Marchlinski. 1993 American Heart Association Conference, Atlanta GA, November 1993.

Effect of thermistor location on radiofrequency energy-induced myocardial lesion formation. D. Schwartzman, I. Chang, A. A. Adas, K. R. Foster, F. E. Marchlinski. 1993 American Heart Association Conference, Atlanta GA, November 1993.

What happens to a fusion zone after fusion pores are created in it?
Y. K. Wu, R. A. Sjodin, K. R. Foster, and A. E. Sowers, 1992 Annual Meeting of the Biophysical Society (Biophys. J. 64: A 190 (1993)).

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