

L. S. "SKIP" FLETCHER

Born:

San Antonio, Texas

Education:

B.S. Texas A&M University, 1958
M.S. Stanford University, 1963
Engineer Stanford University, 1964
Ph.D. Arizona State University, 1968

Experience:

Texas A&M University, College Station, Texas

Regents Professor, Texas A&M University System, 1998 – 2006; Regents Professor Emeritus, 2006 -
Thomas A. Dietz Professor of Mechanical Engineering, 1988 – 2006; Dietz Professor Emeritus, 2006 -
TEES Distinguished Research Professor, 2006 - 2016
Education Coordinator, Offshore Technology Research Center, 1988-1999
Professor and Associate Dean of Engineering, 1980-1988
Associate Director, Texas Engineering Experiment Station, 1985-1988
Halliburton Professor of Mechanical Engineering, 1982-1983

NASA, Ames Research Center, Moffett Field, California

Ames Associate, Office of the Director, 2011 - 2016
Director of Aeronautics/Aerospace, 1999 - 2005
Assistant Project Engineer/Project Engineer, 1958-1962; Research Scientist, Summers 1965 and 1966
Aeronautical Test Technician, Summer 1956

University of Virginia, School of Engineering and Applied Science, Charlottesville, Virginia

Professor and Chairman, Department of Mechanical and Aerospace Engineering, 1977-1980
Director, Center for Energy Analysis, 1979-1980
Professor and Chairman, Department of Mechanical Engineering, 1975-1977

Rutgers University, Mechanical, Industrial and Aerospace Engineering Department, New Brunswick, New Jersey

Acting Associate Dean, College of Engineering, 1974-1975
Professor of Aerospace Engineering, 1974-1975
Associate Professor of Aerospace Engineering, 1971-1974
Assistant Professor of Aerospace Engineering, 1968-1971

Arizona State University, Mechanical Engineering Department, Tempe, Arizona

Teaching Assistant/Instructor, 1964-1968

Stanford University, Mechanical Engineering Department, Stanford, California

Research/Teaching Assistant, 1962-1964

Consulting Experience:

Singer-General Precision, Kearfott Division, Little Falls, New Jersey, 1970-1972
Technical Wire Products, Inc., Cranford, New Jersey, 1971-1972
Balk, Jacobs, Goldberger, Mandell, Seligsohn and O'Conner, Newark, New Jersey, 1973-1976
Union Carbide Corporation, Chemicals and Plastics Division, Bound Brook, New Jersey, 1973-1975
Center for Professional Advancement, Technical Course Director, Somerville, New Jersey, 1976-1980
Crystal Energy Corporation, Thousand Oaks, California, 1988-1990
NAS/NAE/IOM/NRC-BOSTID, Washington, DC, 1992-1993
Argonne National Laboratory, Argonne, Illinois, 1994
Heat Transfer Research, Inc., College Station, Texas, 1994-1995
Sandia National Laboratories, Albuquerque, New Mexico, 1998
Perkins & Coie, LLC, San Francisco, Los Angeles, Seattle, 2005 -2006, 2008-
Goldstein, Faucett & Prebeg, LLC, Houston, 2006-2007; 2007-2008
Kirkpatrick & Lockhart Preston Gates Ellis LLP, Pittsburgh, 2007-2008
McDermott, Will & Emery, LLP, Washington, DC, Chicago, New York, Miami, 2007 –
Thompson & Knight, LLC, San Francisco, 2010 –
Rawle & Henderson. LLC, Philadelphia, 2010 -

Professional Registration:

Arizona, New Jersey, Virginia, Texas, C.Eng. (UK), C.P.Eng. (Australia) - Inactive

Professional Societies and Activities:

American Society of Mechanical Engineers (Fellow, Honorary Member)
President, 1985-1986; Board of Governors, 1983-1987
Committee on Planning and Organization, 1984-1986
Committee on Staff, 1984-1986
Committee of Past Presidents, 1986-- , Chairman, 1989-1990
Committee on Legal Affairs, 1989-1999
Committee on Honors, 1990-1994, 2005-2008, 2014-2017
ASME Foundation Program Advisory Board, 1988-1991, Chairman, 1988-1991
National Nominating Committee, Past President Advisor, 1987-1989, 1990-1991
Council on Education, 1981-1983, 1987-1989
Senior Vice President and Chairman, 1981-1983
Council, 1980-1981, Vice President-Education, 1980-1981
Committee on Technical Affairs, 1980-1981
Committee on Regional Affairs, 1980-1981
Policy Board, Education, 1976-1981, Chairman, 1980-1981
Heat Transfer Division
Government Relations Committee, 1996-1998, Chairman, 1996-1998
Aerospace Heat Transfer Committee (K-12), 1972-- , Chairman, 1976-1979
National Heat Transfer Conference Coordinating Committee (K-9), 1982-1986; Chairman, 1985-1986
Technical Program Committee, National Heat Transfer Conference, 1973, 1975, 1977, 1979, 1980, 1981; Program
Chairman, 1984
General Papers Committee, 1979-1981, Chairman, 1980-1981
ASME/JSME Thermal Engineering Joint Conference, Co-Chairman, 1995
ASME Transactions, Journal of Heat Transfer, Associate Technical Editor, 1989-1994
Mechanical Engineering Magazine, Editorial Advisory Board, 1988--
Assembly for International Heat Transfer Conferences,
Delegate, 1990-1994; Alternate Delegate, 1986-1990
U.S. Scientific Committee, 1982, 1986, Chairman 1990
ASME/AIAA/SAE Daniel Guggenheim Award Board, ASME Representative, 1996-2016, Chairman 1998-99
International Center for Heat and Mass Transfer, METU, Ankara, Turkey
Scientific Council, 1990- , Executive Committee, 1994-2006 , Vice Chair, 1999-2000, Chair, 2000-2002

American Institute of Aeronautics and Astronautics (Fellow, Honorary Fellow)
President, 1996-1997; Board of Directors, 1981-1984, 1992-1998
Vice President-Education, 1992-1995
Director-Technical, 1981-84, Technical Activities Committee (TAC), 1981-1984
Executive Committee, 1982-1983, 1992-1998
Institute Development Committee, 1981-1982, 1983-1984, 1989-1998, Chairman 1995-1996
National Nominating Committee, 1996, 1997-2008, Chairman, 1997
Fellow Peer Review/Selection Committee, 1984-1988, 1992-1993, 1999-2007, Chairman 2005-2006
Honorary Fellows Committee, 1995-1996, 2004-2016, Chairman 2004-2005, 2012-2015
Honors and Awards Committee, 1998-2016, Chairman, 1999-2005
Thermophysics Technical Committee, 1974-1977, 1989-1992, Secretary, 1974-1975
Thermophysics Award Committee, 1975-1977, Chairman, 1975-1976
Thermophysics Conference, General Chairman, 1977, 1992
Terrestrial Energy Systems Technical Committee, 1977-1980, Chairman, 1977-1979
Terrestrial Energy Systems Award Committee, Chairman, 1979-1980
Terrestrial Energy Systems Conference, General Chairman, 1979
Professional Member Education Committee, 1981-1983, 1990-95, Chairman 1992-1994
Pre-College Education Committee, 1991-1993, Chairman, 1991-1993
Academic Affairs Committee, 1981-1995
François-Xavier Bagnoud Fellowship Committee, 1995-1996
Journal of Energy, Associate Editor, 1979-1983
Progress in Astronautics and Aeronautics, Associate Series Editor, 1981-1984
Progress in Astronautics and Aeronautics, Editorial Board, 1994-2004
Aerospace America, Editorial Board/Advisory Board, 1993--
AIAA Foundation, Board of Trustees, 1997-2000, Chairman, 1998-1999

Accreditation Board for Engineering and Technology (Fellow)

(Engineering Council for Professional Development)

President 2007-2008, Board of Directors 2006 – 2009

Board of Directors (AIAA Representative), 1991-1994, 2003-2006, (AIAA Alternate Representative 1994-2003)

Board of Directors (ASME Representative), 1979-1982, 1983-1989

Engineering Accreditation Commission (ABET Board Representative)

Executive Committee, 1987-1989

Long Range Planning Committee, 1988-1989, Nominating Committee, 1988-1989

Team Chair, 1989-1991

Technology Accreditation Commission (ABET Board Representative)

Executive Committee, 1980-1981

Strategic Planning Committee, 1996-1997

Admissions Committee, 1980-1982, 2006-2007, Chairman, 1980-1982, 2006-2007

Constitution and Rules of Procedure Committee, 1984-1988

Awards Committee, Chair, 2008-2009

Educational Policy Committee, 1981-1982, 1988-1989

Fellow Award Committee, 1992-1994, 1995-2001

International Activities Committee, 1993-2000, Vice Chairman, 1996-1997, 1998-2000, 2003-2007

Program Evaluators List

Mechanical Engineering, 1977-1983, 1987-1989; Aerospace Engineering, 1989-2007

Engineering Science/Engineering Physics, 1978-1982, 1987-2006

ABET Foundation Board of Directors, 2009-2015

American Association for the Advancement of Science (Fellow)

Section M, Engineering, Executive Committee, 1987-1990,

Chairman, 1988-1989, Nominating Committee, 1997-2000

Annual Meeting Program Committee, 1988-1989

Consortium of Affiliates for International Programs (CAIP)

Steering Committee, 1990-1992

American Society for Engineering Education (Life Fellow)

Board of Directors, 1974-1977, 1978-1980

Vice President, Professional Interest Councils, 1979-1980

Executive Committee, 1974-1977, 1979-1980

National Long Range Planning Committee, 1971-1977, 1983-1988, Chairman, 1974-1977

Engineering Research Council, 1981-1987

Executive Committee, 1981-1984, Program Committee, 1981-1983

Projects Board, 1980-1986

Fellow Member Committee, 1990-1993, 1996-1999, Chairman 1991-1992

Centennial Committee, 1988-1993

Lamme Award Committee, 2004-2007, Chairman, 2004--2007

Honorary Membership Committee, 1976-1979

Energy Committee, 1979-1982, Chairman, 1981-1982

George Westinghouse Award Committee, 1983-1986

Awards Policy Committee, 1987-1989, 1993-1996, Chairman, 1987-1989, 1993-1995

Association Member Council, 1978-1982

National Nominating Committee, 1980-1982

Department Heads Institute, 1980, 1982, 1984, 1986, 1989 Coordinator/Lecturer

Professional Interest Council I

Executive Committee, 1976-1982, Chairman, 1978-1980

Mechanical Engineering Division

Executive Committee, 1971-1977, Chairman, 1975-1976

Southeastern Section, Mechanical Engineering Department Heads Committee

Executive Committee, 1978-1980

American Astronautical Society (Fellow)

Board of Directors, 1993-1996

Fellow Selection Committee, Chairman, 1994-1995

Awards Committee, 1995-1996

American Association of Engineering Societies

Educational Affairs Council (ASME Delegate), 1980-1984

Executive Committee, 1981-1984, Vice Chairman, 1983-1984

Student Competition on Relevant Engineering (SCORE)

Board of Directors, 1976-1980, Executive Committee, 1976-1980

Participant, NASA/ASEE Engineering System Design Summer Faculty Fellowship Program on Alternate Energy Sources, Auburn University/NASA-Marshall Space Flight Center, Huntsville, Alabama, Summer 1974

Faculty Advisor, Tau Beta Pi, Rutgers University, 1973-1975; University of Virginia, 1975-1979; Texas A&M, 1981-2006

Faculty Advisor, Pi Tau Sigma, University of Virginia, 1977-1980

Virginia Highway and Transportation Research Council, Energy Research Task Group, 1978-1980

Steering Committee, TAMU Institutional Self-Study, Southern Association of Colleges and Schools, 1982-1983

Faculty Advisor, National Society of Black Engineers, Texas A&M University, 1983-1985

Institute for Pacific Asia, Board of Directors, Texas A&M University, 1988-1991

Faculty Advisory Committee, Texas Higher Education Coordinating Board, 1990-1994

Honors and Awards:

Fellow,

American Society of Mechanical Engineers

American Association for the Advancement of Science

Accreditation Board for Engineering and Technology

Institution of Mechanical Engineers, U.K.

American Astronautical Society

American Institute of Aeronautics and Astronautics

American Society for Engineering Education

Royal Aeronautical Society, U.K.

Institution of Engineers, Australia

International Center for Heat and Mass Transfer

International Academy of Astronautics, Corresponding Member, 1988-1993, Member, 1993 -

Pan American Academy of Engineering, Charter Member, 2002 -

Society of Automotive Engineers - Ralph R. Teetor Award, January 1970

American Society for Engineering Education - Dow Outstanding Young Faculty Award, June 1972

American Society of Mechanical Engineers, Centennial Medallion, June 1980

American Society for Engineering Education - George Westinghouse Award, June 1981

American Society for Engineering Education/American Institute of Aeronautics and Astronautics - Aerospace Education Achievement Award (Lee Atwood Award), June 1982

American Society of Mechanical Engineers/Pi Tau Sigma - Charles Russ Richards Award, November 1982.

American Society for Engineering Education - Mechanical Engineering Ralph Coats Roe Award, June 1983.

American Institute of Aeronautics and Astronautics - Energy Systems Award, August 1984

Arizona State University, Distinguished Alumni Award, March 1985

American Society of Mechanical Engineers, Council on Engineering Leadership Award, November 1985

American Society for Engineering Education - Donald E. Marlowe Award, June 1986

Institution of Engineers, Australia - Centennial Medallion, May 1988

American Society of Mechanical Engineers - Dedicated Service Award, November 1988

American Institute of Aeronautics and Astronautics - Thermophysics Award, July 1992

Sigma Xi (TAMU Chapter) - Distinguished Scientist Award, April 1993

American Society for Engineering Education - Centennial Medallion, June 1993

American Society for Engineering Education - Leighton W. Collins Award, June 1993

American Society of Mechanical Engineers - Heat Transfer Memorial Award, November 1996

International Astronautical Federation - Frank J. Malina Astronautics Medal, October 1997

American Society of Mechanical Engineers - Honorary Membership, November 1997

Texas A&M University Executive Vice President and Provost's Diversity Award, April 1998

Union Panamericana de Asociaciones de Ingenieros, Vector de Oro Award, August 2000

American Society for Engineering Education – Benjamin Garver Lamme Award, June 2001

American Institute of Aeronautics and Astronautics - Sustained/Distinguished Service Award, April 2002

National Aeronautics and Astronautics Administration - Exceptional Achievement Medal, July 2002

Accreditation Board for Engineering and Technology, Linton E. Grinter Award, October 2002

American Society of Mechanical Engineers - ASME Medal. November 2002

American Association for the Advancement of Science – International Scientific Cooperation Award, February 2003

American Institute of Aeronautics and Astronautics – Honorary Fellow, April 2004

National Aeronautics and Space Administration – Outstanding Leadership Medal, July 2005

Institution of Mechanical Engineers (UK) – James Watt International Gold Medal, October 2005

Bush Presidential Library Foundation - Bush Award for Faculty in Public Service, February 2006

American Institute for Aeronautics and Astronautics Foundation - Award for Excellence, April 2006

Tau Beta Pi, Pi Tau Sigma, Sigma Gamma Tau, Sigma Xi, Phi Kappa Phi

International Professorships:

Honorary Professor, Ruhr University - Bochum, West Germany, July 1988-2006

Visiting Professor, Tokyo Institute of Technology, Japan, July 1993

Distinguished Visiting Professor, American University in Cairo, Egypt, March 1998

Distinguished Visiting Professor, American University of Sharjah, UAE, November 2000 –

Distinguished Visiting Scholar, Hong Kong Polytechnic University, Hong Kong, May 2002

Biographical Listings:

Who's Who in the World

Who's Who in America

Outstanding Educators of America

Who's Who in Engineering

Who's Who in Aviation and Aerospace

Who's Who in the South and Southwest

Who's Who in the East

American Men and Women of Science

Patents/Patents Pending:

"Heat Transfer Cylinder," Fletcher, L. S., and Peterson, G. P., Disclosure filed June 30, 1989, Application filed October 25, 1989, Serial No. 426,831, Patent issued June 9, 1992, Patent No. 5,119,886.

"Micro Heat Pipe Catheter for Local Tumor Hyperthermia," Fletcher, L. S., and Peterson, G. P., Disclosure filed February 28, 1990, Application filed, July 10, 1990, Serial No. 550,519, Patent issued March 2, 1993, Patent No. 5,190,539.

"Temperature Control Mechanisms for a Micro Heat Pipe Catheter," Peterson, G. P., and Fletcher, L. S., Continuation-in-Part, Application filed December 21, 1992, Serial No. 07/994,551, Patent issued May 23, 1995, Patent No. 5,417,686.

"Treatment Method Using a Micro Heat Pipe Catheter," Fletcher, L. S., and Peterson, G. P., Continuation-In-Part, Application filed March 21, 1994, Serial No. 08/215,276, Patent issued January 7, 1997, Patent No. 5,591,162.

"Uniform Pressure Clamping Devices for Electronic Modules," Fletcher, L. S., Disclosure filed March 16, 1993, Supplement filed October 10, 1994, Application filed June 14, 1996, Serial No. 08/663,783; Patent issued January 27, 1998, U.S. Patent 5,711,628.

"Splash/Spray Shield," Fletcher, L. S., Disc filed July 27, 1989, Application filed April 10, 1990, Serial No. 507,310.

Interstitial Insulation," Fletcher, L.S., Disclosure filed July 13, 2004, Application filed January 25, 2006, Serial No. 60/646,765; and "Interstitally Insulated Pipe and Connection Technologies," Fletcher, L.S., Marotta, E., and Ballfrass, C.A., Disclosure filed October 2006, Application filed April 30, 2007, Serial No. 11/742,241.

"The Use of Dimples for Thermal Dissipation Enhancement for Microelectronic Heat Sinks," Marotta, E. and Fletcher, L.S., Disclosure filed April 2006, Application filed August 16, 2006, Serial No. 60/882,602.

Invention Disclosures:

"Enhanced Flat Plate Solar Collector," Fletcher, L. S., Ahiskali, S. Y., and Galowin, L. S., Invention Disclosure filed June 4, 1975, Research Corporation Disclosure D75-250.

"Augmentation of Smoke Plume Rise by Aerodynamic Means," Chen, C. F. and Fletcher, L. S., Invention Disclosure filed May 12, 1976, Research Corporation Disclosure D76-240.

"A Light-Based Control System for the Physically Handicapped," Fletcher, D. A. and Fletcher, L. S., Invention Disclosure filed January 4, 1993.

Publications:

Books:

Fletcher, L. S., and Shoup, T. E., *Introduction to Engineering Including FORTRAN Programming*, (Englewood Cliffs, NJ: Prentice Hall, Inc., December 1977).

Fletcher, L. S., (ed.), *Aerodynamics Heating and Thermal Protection Systems, Progress in Astronautics and Aeronautics*, Vol. 59 (New York: AIAA, May 1978).

Fletcher, L. S., (ed.), *Heat Transfer and Thermal Control Systems, Progress in Astronautics and Aeronautics*, Vol. 60 (New York: AIAA, May 1978).

Fletcher, L. S., and Shoup, T. E., *Introduction a la Ingenieria incluyendo Programacion FORTRAN*, (Madrid, Spain: Editorial Dossat, S.A./Prentice-Hall International, Inc., August 1980).

Shoup, T. E., Fletcher, L. S., and Mochel, E. V., *Introduction to Engineering Design with Graphics and Design Projects*, (Englewood Cliffs, NJ: Prentice Hall, Inc., December 1980).

Mochel, E. V., and Fletcher, L. S., *Problems in Engineering Design Graphics*, (Englewood Cliffs, NJ: Prentice Hall, Inc., May 1981).

Publications:

Fletcher, L. S., "They Test Tomorrow's Airplanes," *Texas A&M Engineer*, Vol. 12 (March 1957), pp. 10-13.

Fletcher, L. S., and Leppert, G., "Experimental Determination of Emissivity: A Teaching Experiment," *Journal of Engineering Education*, Vol. 55 (May 1965), pp. 272-74.

Levy, L. L., and Fletcher, L. S., "Free-Flight Aerodynamics of a Blunt-Faced Re-entry Shape with or without Ablation," AIAA Paper No. 66-61, AIAA Third Aerospace Sciences Meeting, January 1966, New York, NY.

Fletcher, L. S., "An Experimental Investigation of Thermal Contact Conductance," Proceedings of the Second Canadian Congress of Applied Mechanics (University of Waterloo, Canada, May 1969), pp. 427-28.

Fletcher, L. S., Smuda, P. A., and Gyorog, D. A., "Thermal Contact Resistance of Selected Low Conductance Interstitial Materials," *AIAA Journal*, Vol. 7, No. 7 (July 1969), pp. 1302-09.

Fletcher, L. S., "Base Heat Transfer in a Supersonic Separated Flow," Paper ADL-4, APS Fluid Dynamics Meeting, November 1969, Norman, Oklahoma.

Sernas, V., and Fletcher, L. S., "A Schlieren Interferometer Method for Heat Transfer Studies," *ASME Transactions, Journal of Heat Transfer*, Vol. 92, No. 1 (February 1970), pp. 202-04.

Fletcher, L. S., "Base Heat Transfer in an Axisymmetric Supersonic Flow," *AIAA Journal*, Vol. 8, No. 5 (May 1970), pp. 974-76.

Fletcher, L. S., Briggs, D. G., and Page, R. H., "A Review of Heat Transfer in Separated and Reattached Flows," AIAA Paper No. 70-767, AIAA 3rd Fluid Dynamics Conference, June 1970, Los Angeles, California.

Fletcher, L. S., "Thermal Control in Space Shuttle Systems," Proceedings of the First Western Space Congress, Part II (Santa Maria, CA, October 1970), pp. 856-65.

Fletcher, L. S., and Gyorog, D. A., "Prediction of Thermal Contact Conductance Between Similar Metal Surfaces," in Lucas, J. W. (ed.), *Progress in Astronautics and Aeronautics. Heat Transfer and Spacecraft Thermal Control*, Vol. 24 (Cambridge, MA: MIT Press, March 1971), pp. 278-88.

- Fletcher, L. S., and Przirembel, C. E. G., "Multidisciplinary Projects: A Modern Technique for Engineering Education," Proceedings of the Eighth Space Congress, Vol. 1 (Cocoa Beach, Florida, April 1971), pp. 12-1 to 12-5.
- Fletcher, L. S., "Criteria for the Prediction of Thermal Contact Conductance," Proceedings of the Third Canadian Congress of Applied Mechanics (University of Calgary, Canada, May 1971), pp. 667-68.
- Fletcher, L. S., and Sernas, V., "The Effect of Sidewalls on Convective Heat Transfer in Vertical Channels," Proceedings of the Third Canadian Congress of Applied Mechanics (University of Calgary, Canada, May 1971), pp. 695-96.
- Fletcher, L. S., and Shoup, T. E., "Self Instruction by CCTV," Videotaped paper presentation at Academos Session, ASEE Annual Conference, June 21-24, 1971, Annapolis, Maryland.
- Fletcher, L. S., and Shoup, T. E., "Closed Circuit Television: Innovations in Education," 22nd International Astronautical Congress, September 1971, Brussels, Belgium.
- Fletcher, L. S., and Shoup, T. E., "Innovations with Closed Circuit TV," *Education Research and Methods (ERM)*, Vol. 4 (December 1971), p. 12ff.
- Przirembel, C. E. G., and Fletcher, L. S., "Undergraduate Participation in Aerospace Engineering Research," ASEE Annual Conference, June 1972, Lubbock, Texas.
- Sernas, V., Fletcher, L. S., and Aung, W., "Heat Transfer Measurements with a Wollaston Prism Schlieren Interferometer," ASME Paper No. 72-HT-9, ASME-AIChE National Heat Transfer Conference, August 1972, Denver, Colorado.
- Fletcher, L. S., "Discussion on Correlations for Thermal Contact Conductance in Vacuo," *ASME Transactions, Journal of Heat Transfer*, Vol. 94, No. 3, August 1972). p. 280.
- Fletcher, L. S., Sernas, V., and Galowin, L. S., "Boiling in Thin Water Films over a Horizontal Tube," Rutgers University 16mm Silent Film (September 1972).
- Aung, W., Fletcher, L. S., and Sernas, V., "Developing Laminar Free Convection Between Vertical Flat Plates with Axisymmetric Heating," *International Journal of Heat and Mass Transfer*, Vol. 15, No. 11 (November 1972), pp. 2293-2308.
- Fletcher, L. S., "A Review of Thermal Control Materials for Metallic Junctions," *Journal of Spacecraft and Rockets*, Vol. 9, No. 12 (December 1972), pp. 849-50.
- Sernas, V., Fletcher, L. S., and Jones, J. A., "An Interferometric Heat Flux Measuring Device," *ISA Transactions*, Vol. 11, No. 4 (December 1972), pp. 345-56.
- Fletcher, L. S., "Thermal Control Materials for Spacecraft Systems," Proceedings of the Tenth International Symposium on Space Technology and Science (Tokyo, Japan, September 3-8, 1973), pp. 579-86.
- Shoup, T. E., Fletcher, L. S., and Merrill, B. R., "Biomechanics of Crutch Locomotion," *Journal of Biomechanics*, Vol. 7, No. 1 (January 1974), pp. 11-19.
- Miller, R. G., and Fletcher, L. S., "A Facility for the Measurement of Thermal Contact Conductance," Proceedings of the Tenth Southeastern Seminar on Thermal Sciences, (New Orleans, Louisiana, April 11-12, 1974), pp. 263-85.
- Fletcher, L. S., and Shoup, T. E., "Optimum Design of Elastomeric Gaskets for Combined Thermal and Vibration Performance," *Journal of Spacecraft and Rockets*, Vol. 11, No. 5 (May 1974), pp. 344-46.
- Galowin, L. S., Fletcher, L. S., and DeSantis, M. J., "Discussion on Vapor Flow in Cylindrical Heat Pipes," *ASME Transactions, Journal of Heat Transfer*, Vol. 96, No. 2 (May 1974), pp. 262-63.
- Miller, R. G., and Fletcher, L. S., "Thermal Contact Conductance of Porous Metallic Materials in a Vacuum Environment," in Hering, R. G. (ed.), *Progress in Astronautics and Aeronautics. Thermophysics and Spacecraft Thermal Control*, Vol. 35 (Cambridge: M.I.T. Press, June 1974), pp. 321-334.

- Fletcher, L. S., and Miller, R. G., "Thermal Conductance of Gasket Materials for Spacecraft Joints," in Hering, R. G. (ed.), *Progress in Astronautics and Aeronautics. Thermophysics and Spacecraft Thermal Control*, Vol. 35 (Cambridge: M.I.T. Press, June 1974), pp. 335-50.
- Fletcher, L. S., Sernas, V., and Galowin, L. S., "Evaporation from Thin Water Films on Horizontal Tubes," *Industrial and Engineering Chemistry-Process Design and Development*, Vol. 13, No. 3 (July 1974), pp. 265-69.
- Fletcher, L. S., "The Energy Dilemma in New Jersey: Its Impact on Portable Power Systems," in Norman, T. P. (ed.), *New Jersey Trends*, (New Brunswick, New Jersey: Institute for Environmental Studies, Rutgers University, September 1974), pp. 601-23.
- Fletcher, L. S., Briggs, D. G., and Page, R. H., "Heat Transfer in Separated and Reattached Flows: An Annotated Review," *Israel Journal of Technology*, Vol. 12, No. 34 (October 1974), pp. 236-61.
- Galowin, L. S., Fletcher, L. S., and DeSantis, M. J., "Investigation of Laminar Flow in a Porous Pipe with Variable Wall Suction," *AIAA Journal*, Vol. 12, No. 11 (November 1974), pp. 1585-89.
- Starr, J. W., Sernas, V., and Fletcher, L. S., "Aircraft Vortex Detection System Using Dual Laser Beams," *Journal of Aircraft*, Vol. 12, No. 2 (February 1975), pp. 123-24.
- Fletcher, L. S., and Ahiskali, S., "Design of an Enhanced Flat Plate Solar Collector," Proceedings of the Southeastern Conference on Application of Solar Energy (Huntsville, Alabama, March 24-26, 1975), pp. 171-78.
- Shoup, T. E., and Fletcher, L. S., "Design Guidelines for Solar Heating Systems," Proceedings of the Southeastern Conference on Application of Solar Energy (Huntsville, Alabama, March 24-26, 1975) pp. 269-82.
- Fletcher, L. S., and Sernas, V., "Experimental Investigation of Heat Transfer in Rectangular Enclosures," Proceedings of the 5th Canadian Congress of Applied Mechanics (University of New Brunswick, Canada, May 1975), pp. 555-56.
- Vachon, R. I., Hayre, H. S., Shoup, T. E., Kessler, D. P., and Fletcher, L. S., "Faculty Unionization and Collective Bargaining: A White Paper," ASEE Monograph Series, American Society for Engineering Education, Washington, D.C. (June 1975).
- Vachon, R. I., Albers, J. R., Fletcher, L. S., et al., "The Meaning of Energy Growth: An Assessment of Systems, Technologies, and Technology, June 29-July 4, 1975, Caracas, Venezuela.
- Miller, R. G., and Fletcher, L. S., "A Thermal Contact Conductance Correlation for Porous Metals," in Yovanovich, M.M. (ed.), *AIAA Progress in Astronautics and Aeronautics. Heat Transfer with Thermal Control Applications*, Vol. 40 (Cambridge, M.I.T. Press, July 1975), pp. 81-92.
- Cividino, S., Yovanovich, M. M., and Fletcher, L. S., "A Model for Predicting the Joint Conductance of Woven Wire Screen Contacting Two Solids," in Yovanovich, M.M. (ed.), *AIAA Progress in Astronautics and Aeronautics. Heat Transfer with Thermal Control Applications*, Vol. 40 (Cambridge: M.I.T. Press, July 1975), pp. 111-28.
- Sernas, V., Fletcher, L. S., and Rago, C., "An Interferometric Study of Natural Convection In Rectangular Enclosures of Aspect Ratios Less Than One," ASME Paper No. 75-HT-63, ASME/AIChE National Heat Transfer Conference, August 9-13, 1975, San Francisco, California.
- Fletcher, L. S., Sernas, V., and Parken, W. H., "Evaporation Heat Transfer Coefficients for Thin Sea Water Films on Horizontal Tubes," *Industrial and Engineering Chemistry - Process Design and Development*, Vol. 14 (October 1975), pp. 411-16.
- Shoup, T. E., and Fletcher, L. S., "Design and Analysis of a New Spring Mounting Device for Vibration Isolation," Proceedings of the Third Brazilian Congress of Mechanical Engineering, Vol. A (Rio de Janeiro, Brazil, December 9-11, 1975), pp. 91-100.
- Fletcher, L. S., and Ott, W. R., "Thermal Contact Conductance of Lead Ferrite and Boron Nitride," *ASME Transactions*,

Journal of Heat Transfer, Vol. 98, No. 2 (May 1976), pp. 331-32.

Huckstep, F. L., Fletcher, L. S., and Templeman, J. C., "Energy Conservation Through Improved Building Management," Virginia Academy of Sciences Annual Meeting, May 11-14, 1976, Fairfax, Virginia.

Przirembel, C. E. G., Fletcher, L. S., and Nacht, T., and Harding, A. W., "Analysis of Convective Heat Losses from Single Dwelling Residential Units," Proceedings of the Southwestern Seminar on Thermal Sciences (University of Virginia, Charlottesville, June 6-8, 1976), pp. 167-70.

Shoup, T. E., and Fletcher, L. S., "Thermal Distortion of Cam Follower Systems," Proceedings of the Southeastern Seminar on Thermal Sciences (University of Virginia, Charlottesville, June 6-8, 1976), pp. 167-70.

Przirembel, C. E. G., and Fletcher, L. S., "Design Oriented Undergraduate Projects: An Innovation in Aerospace Engineering Education," ASEE Annual Conference, June 14-17, 1976, Knoxville, Tennessee.

Shoup, T. E., Berk, J., and Fletcher, L. S., "The Kinetothermal Analysis and Synthesis of Cam Systems," *Mechanism and Machine Theory*, Vol. 11, No. 5 (October 1976), pp. 321-29.

Fletcher, L. S., Cerza, M. R., and Boysen, R. L., "Thermal Conductance and Thermal Conductivity of Selected Polyethylene Insulation Materials," in Smith, A.M. (ed.), *Progress in Astronautics and Aeronautics. Radiative Transfer and Thermal Control*, Vol. 49 (New York: AIAA, December 1976), pp. 371-80.

Przirembel, C. E. G., and Fletcher, L. S., "Aerothermodynamics of a Simple Resonance Tube," *AIAA Journal*, Vol. 15, No. 1 (January 1977), pp. 101-04.

Fletcher, L. S., and Huckstep, F. L., "An Analysis of Energy Use by State Facilities and Institutions in Virginia," Virginia Academy of Sciences Annual Meeting, May 10-13, 1977, Petersburg, Virginia.

Przirembel, C. E. G., Fletcher, L. S., and Wolf, D. E., "Thermodynamic Characteristics of a Blunt, Two-Dimensional Resonance Tube," *AIAA Journal*, Vol. 15, No. 7 (July 1977), pp. 905-06.

Shoup, T. E., Varga, R., and Fletcher, L. S., "The Static Significance of Human Arm Configuration in Maintaining Balance," Proceedings of the Fourth Brazilian Congress of Mechanical Engineering (Florianopolis, Brazil, December 12-14, 1977), pp. 311-22.

Cross, R. W., and Fletcher, L. S., "Thermal Contact Conductance of Uranium Dioxide/Zircaloy Interfaces," AIAA Paper 78-85, Sixteenth Aerospace Sciences Meeting, January 16-18, 1978, Huntsville, Alabama.

Przirembel, C. E. G., and Fletcher, L. S., "Aerothermodynamic Characteristics of a Resonance Tube Driven by a Subsonic Jet," *AIAA Journal*, Vol. 16, No. 1 (February 1978), pp. 184-86.

Somers, R.R, II, Miller, J. W, and Fletcher, L. S., "An Experimental Investigation of the Thermal Conductance of Dissimilar Metal Contacts," Proceedings of the Fourteenth Southeastern Seminar on Thermal Sciences (Raleigh, North Carolina, April 6-7, 1978). pp. 280-99.

Miller, J. W, and Fletcher, L. S., "Thermal Contact Conductance of Fin-Tube Solar Collector Materials," Virginia Academy of Sciences Annual Meeting, May 9-12, 1978, Blacksburg, Virginia.

Somers, R. R., II, and Fletcher, L. S., "The Energy Audit - A First Step to Energy Conservation," Virginia Academy of Sciences Annual Meeting, May 9-12, 1978, Blacksburg, Virginia.

Fletcher, L. S., (ed.), "Highlights 1978 - Terrestrial Energy Systems," *Astronautics and Aeronautics*, Vol. 16, No. 12 (December 1978), pp. 94-95.

Fletcher, L. S., "A Study of Energy Consumption in the Public Buildings of a Small City," in Vogt, W.G., and Mickle, M.H., (eds.), *Modeling and Simulation*, Vol. 9, Part 1: Energy and Power System Modeling (Pittsburgh, PA: ISA, December 1978). pp. 281-88.

- Somers, R. R., II, Miller, J. W., and Fletcher, L. S., "Thermal Contact Conductance of Dissimilar Metals," in Viskanta, R., (ed.), *Progress in Astronautics and Aeronautics, Thermophysics and Thermal Control*, Vol. 65 (New York: AIAA, March 1979), pp. 149-75.
- Somers, R. R., II, Chandler, B. O., and Fletcher, L. S., "Energy Conservation Methods for Public Schools," Virginia Academy of Sciences Annual Meeting, May 8-11, 1979, Richmond, VA.
- Pritchard, A. C., Somers, R. R., II, and Fletcher, L. S., "A Computerized Energy Evaluation of School Buildings Utilizing PSECS 4," Virginia Academy of Sciences Annual Meeting, May 8-11, 1979, Richmond, Virginia.
- Somers, R. R., II, Scott, T. C., and Fletcher, L. S., "Proposed Criteria for Establishing Energy Consumption Standards for Existing Buildings," Cooke, P.W. (ed.), *Research and Innovation in the Building Regulatory Process*, NBS SP552, Washington, D.C.: July 1979, pp. 197-20.
- Sernas, V., Varma, V. C., and Fletcher, L. S., "Condensation of Steam Inside a Horizontal Tube," in Marto, P.J. and Kroeger, P.E. (eds.), *Condensation Heat Transfer*, (New York: ASME, August 1979), pp. 9-16.
- Fletcher, L. S., and Woods, R. L., "A Review of Oscillator Fluidic Temperature Sensors," *Fluidics Quarterly*, Vol. 11. No. 3 (September 1979), pp. 59-83.
- Fletcher, L. S., and Chen, C. F., "Smoke Plume Transport with Aerodynamic Augmentation," ASME Paper 79-WA/FE-20, ASME Winter Annual Meeting, December 1979, New York, NY.
- Fletcher, L. S. (ed.), "Highlights 1979-Terrestrial Energy Systems," *Astronautics and Aeronautics*, Vol. 17., No. 12 (December 1979), pp 106-108.
- Padgett, D. L., and Fletcher, L. S., "An Apparatus to Determine the Directional Effect in Thermal Contact Resistance at Metallic Interfaces," Virginia Academy of Science Annual Meeting, May 14-16, 1980, Charlottesville, Virginia.
- Somers, R. R., II, Pritchard, A. C., and Fletcher, L. S., "Energy Consumption Trends in Public Buildings," in Seirig, A. (ed.), *Advances in Computer Technology-1980*, Vol. 1 (New York: ASME, August 1980), pp. 145-152.
- Somers, R. R., II, Miller, J. W., McCafferty, R. H., and Fletcher, L. S., "Thermal Contact Conductance of Flat-Plate Solar Collector Materials," *Journal of Energy*, Vol. 4, No. 5 (September-October 1980), pp. 233-236.
- Fletcher, L. S., and Page, R. H., "Mechanical Engineering Education: Planning for the Future," IV World and IX Pan-American Congress on Engineering Education, October 19-25, 1980, Mexico City, Mexico.
- Somers, R. R., II, Pritchard, A. C., Sexton, M. R., Hoffman, M. C., and Fletcher, L. S., "The Economic Feasibility of Flat-Plate Solar Hot Water Systems: Retrofit Applications for Virginia Public Buildings," *Solar Engineering - 1981*, Proceedings of the ASME/SSEA Conference, April 27-May 1, Reno, Nevada, pp. 431-438.
- Madhusudana, C. V., and Fletcher, L. S., "Thermal Conductance of Cylindrical Joints," Proceedings of the Eighth Canadian Congress of Applied Mechanics (University of Moncton, Canada, May 1981), pp. 755-756.
- DeSantis, M. J., Fletcher, L. S., and Galowin, L. S., "Discussion on Vapor Flow Calculations in a Flat-Plate Heat Pipe," *AIAA Journal*, Vol. 19, No. 6 (June 1981), pp. 831.
- Madhusudana, C. V., and Fletcher, L. S., "Gas Conductance Contribution to Contact Heat Transfer," AIAA Paper 81-1163, AIAA 16th Thermophysics Conference, Palo Alto, California, June 23-25, 1981.
- Fletcher, L. S., and Marlowe, D.E., "Mechanical Engineering Education for the Eighties," *Mechanical Engineering*, Vol. 103, No. 8 (August 1981), pp. 30-33.
- Thacker, J.G., Fletcher, L. S., and Kauzlarich, J. J., "A Graduate Rehabilitation Engineering Program," Paper 30.10, 34th Annual Conference on Engineering in Medicine and Biology, Houston, Texas, September 21-23, 1981.
- Madhusudana, C. V., and Fletcher, L. S., "Discussion on Thermal Contact Resistance for Hard Machined Surfaces Pressed

Against Relatively Soft Optical Flats," *Applied Energy*, Vol. 10, No. 1 (January 1982), pp. 75-77.

Fletcher, L. S., and Page, R. H., "The Doctor of Engineering-A Degree Program for the Americas," Paper F-EZ-5, Tenth Pan American Congress on Engineering Education, August 1-7, 1982, San Juan, Puerto Rico.

Page, R. H. and Fletcher, L. S., "A Large U.S. Engineering College Looks at Current and Future Trends in Engineering Education," Paper EZ-C-35, Tenth Pan American Congress in Engineering Education, August 1-7, 1982, San Juan, Puerto Rico.

Parfen, W. H. and Fletcher, L. S., "Heat Transfer in Thin Liquid Films Flowing over Horizontal Tubes," Proceedings of the Seventh International Heat Transfer Conference, Vol. 4, Munich, Germany, (Hemisphere Publishing Corporation, Washington, D.C., September 1982), pp. 415-420.

Fletcher, L. S., Editorial, "Engineering Education in Crisis," *Astronautics and Aeronautics*, Vol. 20, No. 12, (December 1982), p. 17.

Madhusudana, C. V. and Fletcher, L. S., "Solid Spot Thermal Conductance of Zircaloy-2/Uranium Dioxide Interfaces," *Nuclear Science and Engineering*, Vol. 83, No. 3, (March 1983), pp. 327-332.

Fletcher, L. S., Editorial, "Engineering Education in Transition," *Mechanical Engineering*, Vol. 105, No. 5. (May 1983), p. 17.

Williams, A., and Fletcher, L.S., "Thermal Rectification--Permanent or Transitory," Proceedings of the 9th Canadian Congress of Applied Mechanics, (University of Saskatchewan, Saskatoon, Canada, May 30-June 3, 1983), pp. 605-606.

Somers, Robert R., Pritchard, Alan C., Sexton, Michael R., Hoffman, Marcia C., and Fletcher, L. S., "The Economic Feasibility of Retrofit Solar Hot Water Systems," *Journal of Energy*, Vol. 7, No. 3, (July-August 1983), pp. 325-331.

Padgett, D. L. and Fletcher, L. S., "The Thermal Conductance of Dissimilar Metals," in Collicott, H.E. and Bauer, P.E. (eds.), *Progress in Astronautics and Aeronautics Spacecraft Thermal Control, Design, and Operation*, Vol. 86 (New York: AIAA, October 1983), pp. 266-277.

Fletcher, L. S., "The Influence of Interstitial Media on Spacecraft Thermal Control," Proceedings of the 14th International Symposium on Space Technology & Science, (Tokyo, Japan, May 27-June 2, 1984), pp. 527-532.

Fletcher, L. S. and Page, R. H., "Trends in Aerospace Engineering Education in the United States," Proceedings of the 14th International Symposium on Space Technology & Science, (Tokyo, Japan, May 27-June 2, 1984), pp. 1093-1097.

Porterio, J. L. F., Page, R. H., Przirembel, C. E. G., and Fletcher, L. S., "A Study of the Near-Wake Behind an Axisymmetric Body," Proceedings of the 14th International Symposium on Space Technology & Science, (Tokyo, Japan, May 27-June 2, 1984), pp. 477.

Fletcher, L. S., "Trends in Engineering Education in the United States," Paper XI.5, XI Pan-American Conference on Engineering Education, Caracas, Venezuela, October 28-November 2, 1984.

Han, J. C., and Fletcher, L. S., "Falling Film Evaporation and Boiling in Circumferential and Axial Grooves on Horizontal Tubes," *Industrial and Engineering Chemistry-Process Design and Development*, Vol 24, No. 3, 1985, pp. 570-575.

Fletcher, L. S., and Peterson, G. P., "The Effect of Interstitial Materials on the Thermal Contact Conductance of Metallic Junctions," Proceedings of the Heat Transfer in Thermal Systems Seminar-Phase II, National Cheng Kung University, Tainan, Taiwan, January 13-14, 1986, pp. 1-8.

Madusudana, C. V., and Fletcher, L. S., "Contact Heat Transfer - The Last Decade," *AIAA Journal*, Vol. 24, No. 3, (March 1986), pp. 510-523.

Fletcher, L. S., "The Liability Crisis and Engineering," *Machine Design*, Vol. 58, No. 16 (July 10, 1986), p. 148.

Merzkirch, W., Page, R. H., and Fletcher, L. S., "A Review of Heat Transfer in Compressible Separated and Reattached Flows," #OP-6C-1, Eighth International Heat Transfer Conference, San Francisco, CA, August 17-22, 1986.

- Peterson, G. P., and Fletcher, L. S., "Thermal Contact Conductance between Spherical Particles and Flat Surfaces," #OP-6C-9, 8th International Heat Transfer Conference, San Francisco, CA, August 17-22, 1986.
- Fletcher, L. S., and Page, R. H., "Space Engineering: A New Engineering Curriculum," IAF-86-370, 37th Congress of the International Astronautical Federation, Symposium on Space and Education, Innsbruck, Austria, October 4-11, 1986.
- Fletcher, L. S., "Engineering Students - The Future of the Profession," *Engineering Australia*, Vol. 59, No. 4 (March 1987), pp. 21-23.
- Peterson, G. P., and Fletcher, L. S., "Thermal Contact Conductance of Silicon Chip Bonding Techniques," Proceedings of the International Symposium on Cooling Technology for Electronic Equipment, Honolulu, Hawaii, March 18-21, 1987, pp. 438-448.
- Han, J.C. and Fletcher, L. S., "Influence of Concurrent Steam Shear Velocity on Falling Film Evaporation and Boiling on a Horizontal Tube," Proceedings of the 2nd ASME/JSME Thermal Engineering Joint Conference, Vol. 2, Honolulu, Hawaii, March 22-27, 1987, pp. 527-532.
- Somers, R. R., Fletcher, L. S., and Flack, R. D., "An Explanation of Thermal Rectification," *AIAA Journal*, Vol. 25, No. 4 (April 1987), pp. 620-621.
- Peterson, G. P., and Fletcher, L. S., "A Review of the Thermal Conductivity of Composite Materials," AIAA Paper 87-1586, 22nd AIAA Thermophysics Conference, Honolulu, Hawaii, June 8-10, 1987.
- Peterson, G. P., Fletcher, L. S., and Peddicord, K. L., "Effective Thermal Conductivity in Multi-Fraction Reactor Fuels," *Journal of Nuclear Science and Technology*, AESJ, Vol. 24, No. 9, September 1987, pp. 677-683.
- Peterson, G. P., and Fletcher, L. S., "Effective Thermal Conductivity of Sintered Heat Pipe Wicks," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 1, No. 4, October 1987, pp. 343-347.
- Peterson, G. P., and Fletcher, L. S., "Thermal Contact Conductance in the Presence of Thin Metal Foils," AIAA Paper 88-0466, Aerospace Sciences Meeting, Reno, Nevada, January 1988.
- Ochterbeck, J. M., Fletcher, L. S., and Peterson, G. P., "Experimental Investigation of Thermal Contact Conductance at the Interface Between Bone and PMMA Cements," 6th Annual Meeting on Biomedical Research, Houston, Texas, February 12, 1988.
- Peterson, G. P., and Fletcher, L. S., "Thermal Contact Conductance of Packed Beds in Contact with a Flat Surface," *ASME Transactions, Journal of Heat Transfer*, Vol. 110, No. 1, February 1988, pp. 38-41.
- Merzkirch, W., Page, R. H., and Fletcher, L. S., "A Survey of Heat Transfer in Compressible Separated and Reattached Flows," *AIAA Journal*, Vol. 26, No. 2, February 1988, pp. 144-150.
- Fletcher, L. S., and Peterson, G. P., "On the Thermal Contact Between Bone and Artificial Joints," Paper No. BE-27B-3, World Congress on Medical Physics and Biomedical Engineering, San Antonio, Texas, August 6-12, 1988.
- Peterson, G. P., and Fletcher, L. S., "Evaluation of the Thermal Contact Conductance Between Mold Compounds and Heat Spreader Materials," *ASME Transactions, Journal of Heat Transfer*, Vol. 110, No. 4, November 1988, pp. 996-999.
- Fletcher, L. S., "Recent Developments in Contact Conductance Heat Transfer," *ASME Transactions, Journal of Heat Transfer*, Fiftieth Anniversary Issue, Vol. 110, No. 4(B), November 1988, pp. 1059-1070.
- Havis, C. R., Peterson, G. P., and Fletcher, L. S., "Thermal Conductivity of Aligned Fiber Composite Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 3, No. 4, 1989, pp. 416-422.
- Duncan, A. B., Peterson, G. P., and Fletcher, L. S., "Effective Thermal Conductivity within Packed Beds of Spherical Particles," *ASME Transactions, Journal of Heat Transfer*, Vol. 111, No. 4, November, 1989, pp. 830-839.

- Peterson, G. P., and Fletcher, L. S., "On the Thermal Conductivity of Dispersed Ceramics," *ASME Transactions, Journal of Heat Transfer*, Vol. 111, No. 4, November 1989, pp. 824-829.
- Fletcher, L. S., Barber, S., Anderson, A. E., Fobian, J., Gratch, S., McCullough, J., Nelson, R., Rabins, M. J., Radlinski, R., and Rabinowicz, E., "Feasibility Analysis of Asbestos Replacement in Automobile and Truck Brake Systems," *Mechanical Engineering*, Vol. 112, No. 3, March 1990, pp. 50-56.
- Madhusudana, C. V., Fletcher, L. S., and Peterson, G. P., "Thermal Contact Conductance of Cylindrical Joints - A Critical Review," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 4, No. 2, April 1990, pp. 204-211.
- Page, R. H., and Fletcher, L. S., "Integrated Instructional Innovation: A Vision for 21st Century Engineering Education," *Proceedings of the Frontiers in Education Conference, Vienna, Austria, July 2-6, 1990*, pp. 441-443.
- Fletcher, L. S., Peterson, G. P., Pandey, R. K., and Cunningham, G. R., "Spectral Properties of Selected Superconducting Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 4, No. 3, July 1990, pp. 412-414.
- Parken, W. H., Fletcher, L. S., Sernas, V., and Han, J. C., "Heat Transfer Through Falling Film Evaporation and Boiling on Horizontal Tubes," *ASME Transactions, Journal of Heat Transfer*, Vol. 112, No. 3, Jul 1990, pp. 744-750.
- Peterson, G. P., and Fletcher, L. S., "Measurement of the Thermal Contact Conductance and Thermal Conductivity of Anodized Aluminum Coatings," *ASME Transactions, Journal of Heat Transfer*, Vol. 112, No. 3, August 1990, pp. 579-585.
- Ochterbeck, J. M., Peterson, G. P. and Fletcher, L. S., "Evaluation of Thermal Enhancement Films for Electronic Packages," *Proceedings of the 9th International Heat Transfer Conference, Vol. 5, Jerusalem, Israel, August 19-22, 1990*, pp. 445-450.
- Madhusudana, C. V., Peterson, G. P., and Fletcher, L. S., "The Effect of Non-Uniform Interfacial Pressures on the Thermal Conductance in Bolted and Riveted Joints," *ASME Transactions, Journal of Energy Resources Technology*, Vol. 112, No. 3, September 1990, pp. 174-182.
- Seyed-Yagoobi, J., Bell, D. O., and Fletcher, L. S., "Theoretical and Numerical Analysis of Heat and Mass Transfer in Paper Sheet," *ASME Winter Annual Meeting, Dallas, Texas, November 25-30, 1990*.
- Kang, T. K., Peterson, G. P., and Fletcher, L. S., "Effect of Metallic Coatings on the Thermal Contact Conductance of Turned Surfaces," *ASME Transactions, Journal of Heat Transfer*, Vol. 112, No. 4, November 1990, pp. 864-871.
- Fletcher, L. S., Peterson, G. P., Madhusudana, C. V., and Groll, E., "Constriction Resistance in Bolted and Riveted Joints," *ASME Transactions, Journal of Heat Transfer*, Vol. 112, No. 4, November 1990, pp. 857-863.
- Fletcher, L. S., "A Review of Thermal Enhancement Techniques for Electronic Equipment," *IEEE Transactions, Components, Hybrids, and Manufacturing Technology*, Vol. 13, No. 4, December 1990, pp. 1012-1021.
- Stevenson, P. F., Peterson, G. P., and Fletcher, L. S., "Thermal Rectification in Similar and Dissimilar Metal Contacts," *ASME Transactions, Journal of Heat Transfer*, Vol. 113, No. 1, February 1991, pp. 30-36.
- Kim, S. H., Anand, N. K., and Fletcher, L. S., "Free Convection Between Series of Vertical Parallel Plates with Embedded Line Heat Sources," *ASME Transactions, Journal of Heat Transfer*, Vol. 113, No. 1, February 1991, pp. 108-115.
- Fletcher, L. S., Peterson, G. P., and Shaup, R., "Thermal Conductivity of Selected Superconducting Materials," *ASME Transactions, Journal of Heat Transfer*, Vol. 113, No. 1, February 1991, pp. 274-276.
- Peterson, G. P., Starks, G. and Fletcher, L. S., "Thermal Conductance of Two Space Station Cold Plate Attachment Techniques," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 5, No. 2, April-June 1991, pp. 246-248.
- Fletcher, L. S., "Conduction in Solids - Imperfect Metal-to-Metal Contacts: Thermal Contact Resistances," *Section 502.5, Heat Transfer and Fluid Mechanics Data Books*, Genium Publishing Company, April 1991.
- Vieth, D., Peterson, G. P., and Fletcher, L. S., "Macroscopic Constriction Resistance in Microelectronic Packages," *ASME Transactions, Journal of Heat Transfer*, Vol. 113, No. 2, May 1991, pp. 494-496.

- Peterson, G. P., and Fletcher, L. S., "Heat Transfer Enhancement Techniques for Space Station Cold Plates", *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 5, No. 3, July-September 1991, pp. 423-428.
- Page, R. H., and Fletcher, L. S., "Integrated Instructional Innovation," *The International Journal of Applied Engineering Education*, Vol. 7, No. 6, 1991, pp.461-463.
- Blanchard, D. G., Marotta, E. E., and Fletcher, L. S., "A Survey of the Thermal Conductivity of Synthetic and Natural Diamond Materials," AIAA Paper 92-0708, 30th Aerospace Sciences Meeting, Reno, Nevada, January 6-9, 1992.
- Fletcher, L. S. and Morse, L. C., " An Assessment of Undergraduate Research Experiences in Engineering," Proceedings of the Engineering Foundation Conference on Education: Curriculum Innovation and Integration, Santa Barbara, California, January 5-10, 1992, pp. 63-67.
- Peterson, G. P., Fletcher, L. S., and Blackler, D., "Thermal Performance of Space Station Thermal Pad Heat Exchangers," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 6, No. 1, January-March 1992, pp. 69-76.
- Bell, D.O., Seyed-Yagoobi, J., and Fletcher, L. S., "Recent Developments in Paper Drying," *Advances in Drying*, Vol. 5, A.S. Majumdar, Ed., Hemisphere Press, New York, 1992, pp. 203-261.
- Fletcher, L. S., and Page, R. H., "A Space Engineering Education Program for the Future," *International Journal of Engineering Education*, Vol. 8, No. 1, 1992, pp. 16-21.
- Ochterbeck, J. M., Fletcher, L. S., and Peterson, G. P., "Thermal Contact Conductance of Metallic Coated Superconductors," *ASME Transactions, Journal of Heat Transfer*, Vol. 114, No. 1, February 1992, pp. 21-29.
- Fletcher, L. S., "Undergraduate Research in Offshore Technology," *Marine Technology Society Journal*, Vol. 26, No. 1, Spring 1992, pp. 36-42.
- Page, R. H., Merzkirch, W., Fletcher, L. S., and Fasol, K. H., "A Model Institutional cooperation Program in Engineering Education: The Ruhr University-Bochum - Texas A&M University Experience," Proceedings of the 9th International Conference on Technology and Education, Vol. 3, Paris, France, March 16-20, 1992, pp. 1396-1398.
- Seyed-Yagoobi, J., Ng, K. H., and Fletcher, L. S., "Thermal Contact Conductance of a Bone-Dry Paper Handsheet/Metal Interface," *ASME Transactions, Journal of Heat Transfer*, Vol 114, No. 2, May 1992, pp. 326-330.
- Anand, N. K., Kim, S. H., and Fletcher, L. S., "The Effect of Plate Spacing on Free Convection Between Heated Parallel Plates," *ASME Transactions, Journal of Heat Transfer*, Vol. 114, No. 2, May 1992, pp. 515-518.
- Fletcher, L. S. and Sparks, T., "The Thermal Contact Conductance of Porous Ceramic Materials," *Proceedings of the NSF/DITAC Workshop on Enhanced Thermal Contact Conductance in Microelectronics*, A. Williams, Ed., Melbourne, Australia, May 4-8, 1992, pp. 71-77.
- Asensio, M. C., Seyed-Yagoobi, J., and Fletcher, L. S., "Thermal Contact Conductance Determination for Paper Drying Applications," *Proceedings of the NSF/DITAC Workshop on Enhanced Thermal Contact Conductance in Microelectronics*, Melbourne, Australia, May 4-8, 1992, pp. 125-131.
- Page, R. H., Merzkirch, W., Fletcher, L. S., and Fasol, K. H., "An Engineering Education International Cooperation Program: The Ruhr University Bochum - Texas A&M University Experience," *Proceedings of the 1992 ASEE Annual Conference*, Toledo, Ohio, June , 1992, pp. 1459-1461.
- Blanchard, D. G., and Fletcher, L. S., "Thermal Contact Conductance of Selected Metal Matrix Materials," AIAA Paper 92-2847, 31st Thermophysics Conference, Nashville, Tennessee, July 6-8, 1992.
- Fletcher, L.S., and Flipse, J. E., "An Ocean Engineering Education Program for the 21st Century," Ed. R.T. Hudspeth, *Proceedings of the International Conference on Civil Engineering in the Oceans V Conference*, College Station, Texas, November 2-4, 1992, pp. 370-380.
- Kastell, D., Kihm, K. D., and Fletcher, L. S., "Study of Laminar Thermal Boundary Layers Occurring Around the Leading

Edge of a Vertical Isothermal Wall Using a Specklegram Technique," *Experiments in Fluids*, Vol. 13, November 1992, pp. 249-256.

Fletcher, L. S., Blanchard, D. G., and Kinnear, K. P., "Thermal Conductance of Multilayered Metallic Sheets," *Journal of Thermophysics and Heat Transfer*, Vol. 7, No. 1, January-March 1993, pp. 120-126.

Kihm, K. D., Kim, J. H., and Fletcher, L. S., "Effects of Partial Openings on Natural Convection Heat Transfer in Triangular Enclosures," *ASME Transactions, Journal of Heat Transfer*, Vol. 115, No. 1, Feb. 1993, pp. 140- 148.

Fletcher, L. S., Lambert, M. A., Marotta, E. E., and Adams, J. D., "Thermal Enhancement Techniques for SEM Guide Rails and Card Rails," Proceedings of the National Electronic Packaging and Production Conference - West (NEPCON), Vol. 3, Anaheim, California, February 9-11, 1993, pp. 1655-1664.

Fletcher, L. S., "The Role of Database Systems in the Academic Environment," *International Journal of Engineering Education*, Vol. 9, No. 2, 1993, pp. 122 - 130.

Fletcher, L. S., and Page, R. H., "Technology Transfer: The Key to Successful Space Engineering Education," *Acta Astronautica*, Vol. 29, No. 2, 1993, pp. 141-146.

Fletcher, L. S., Akay, A., Boehm, R. F., Carley, C. T., Henriksen, M., Hewitt, H., Kennedy, L. A., Weese, J. A., Wittee, L., "The Role of Design Projects in Engineering Education," *INNOVATIONS in Engineering Design Education*, Proceedings of the ASME Design Education Conference, Orlando, Florida, March 24 - 26, 1993, pp. 1-4.

Lambert, M. A., and Fletcher, L. S., "A Correlation for the Thermal Contact Conductance of Metallic Coated Metals," AIAA 93-2778, 28th Thermophysics Conference, Orlando, Florida, July 6-9, 1993.

Fletcher, L. S., "The Role of Research in Undergraduate Engineering Education," AIChE Symposium Series, Vol. 89, No. 295, B.G. Volintine, (Ed.), National Heat Transfer Conference, Atlanta, Georgia, August 9-11, 1993, pp. 520-525.

Lambert, M. A., and Fletcher, L. S., "A Review of the Thermal Contact Conductance of Junctions with Metallic Coatings and Films," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 7, No. 4, Oct.-Dec. 1993, pp.547-554.

Fletcher, L. S., "Experimental Techniques for Thermal Contact Resistance Measurements", *Proceedings of the 3rd World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics*, M. D. Kelleher et al.(Eds), Honolulu, Hawaii, October 31 - November 5, 1993, pp. 195 - 206.

Asensio, M. C., Seyed-Yagoobi, J., and Fletcher, L. S., "Thermal Contact Conductance of a Moist Paper Handsheet/Metal Interface for Paper Drying Applications," *ASME Transactions, Journal of Heat Transfer*, Vol. 115, No. 4, November 1993, pp. 1051 - 1053.

Lambert, M. A., and Fletcher, L. S., "Experimental Thermal Contact Conductance of Continuous Fiber Metal Matrix Composites," AIAA Paper 94-0122, 32nd Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994.

Lee, Y. M., Haji-Sheikh, A., Fletcher, L. S., and Peterson, G. P., "Effective Thermal Conductivity in Multidirectional Bodies," *ASME Transactions, Journal of Heat Transfer*, Vol. 116, No. 1, February 1994, pp. 17-27.

Fletcher, L. S., "The Role of Materials in Thermal Systems Design and Control," Proceedings of the ASME/NDE Engineering Division Topical Conference, San Antonio, Texas, April 18-21, 1994, pp. 6-9.

Lambert, M. A., and Fletcher, L. S., "Metallic Coatings for Enhancement of Thermal Contact Conductance," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 8, No. 2, April-June, 1994, pp. 341-348.

Marotta, E. E., Lambert, M. A., and Fletcher, L. S., "A Review of the Thermal Contact Conductance of Non-Metallic Coatings and Films," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 8, No. 2, April-June, 1994, pp. 349-357.

Couedel, D., Fletcher, L. S., and Peterson, G. P. "A Correlation for the Thermal Contact Conductance of Interstitial Metallic Foils," Proceedings of the Tenth International Heat Transfer Conference, Vol. 6, Brighton, England, August 14-19, 1994, pp. 337-342.

Marotta, E. E., Lambert, M. A., and Fletcher, L. S., "Thermal Enhancement Coatings and Films for Microelectronic Systems," Proceedings of the Tenth International Heat Transfer Conference, Vol. 6, Brighton, England, August 14-19, 1994, pp. 379-384.

Simonson, E. H., and Fletcher, L. S., "An Experimental Investigation of Moisture Removal in High Temperature/High Pressure Paper Drying," Proceedings of the TAPPI Engineering Conference, Book 3, San Francisco, California, September 1994, pp. 971-980.

Mittlebach, M., Vogd, C., Fletcher, L. S., and Peterson, G. P., "The Interfacial Pressure Distribution and Thermal Conductance of Bolted Joints," *ASME Transactions, Journal of Heat Transfer*, Vol. 116, No. 4, Nov 1994, pp. 823-828.

Lambert, M. A., and Fletcher, L. S., "Experimental Investigation of the Thermal Contact Conductance of Electroplated Silver Coatings," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 9, No. 1, January-March, 1995, pp. 79-87.

Lambert, M. A., Ayers, G. A., Donnelly, C. J., and Fletcher, L. S., "Thermal Contact Conductance of Standard Electronic Modules," AIAA Paper No. 95-0422, 33rd Aerospace Sciences Meeting, Reno, Nevada, January 9-13, 1995.

Lambert, M. A., and Fletcher, L. S., "Thermal Contact Conductance of Nonflat, Rough Metals in Vacuum," Proceedings of the Fourth ASME/JSME Thermal Engineering Joint Conference, Vol. 1, Maui, Hawaii, March 19 -24, 1995, pp. 31 - 42.

Talik, A. C., Swanson, L. W., Fletcher, L. S., and Anand, N. K., "Heat Transfer and Pressure Drop Characteristics of a Plate Heat Exchanger," Proceedings of the Fourth ASME/JSME Thermal Engineering Joint Conference, Vol. 4, Maui, Hawaii, March 19 - 24, 1995, pp. 321 - 330.

Lambert, M. A., Marotta, E. E., and Fletcher, L. S., "The Thermal Contact Conductance of Hard and Soft Coat Anodized Aluminum," *ASME Transactions, Journal of Heat Transfer*, Vol. 117, No. 2, May 1995, pp. 270 - 275.

Lopez, J. R., Anand, N. K., and Fletcher, L. S., "A Numerical Analysis of Laminar Convective Heat Transfer in a Three-Dimensional Channel with Baffles," Proceedings of the Third U.S. National Congress on Computational Mechanics, J.N. Reddy, ed., Dallas, Texas, June 12 - 14, 1995, p. 406.

Blanchard, D. G. and Fletcher, L. S., "The Thermal Contact Conductance of Metal Matrix Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 9, No. 3, July - September 1995, pp. 391 - 396.

Talik, A. C., Fletcher, L. S., Anand, N. K., and Swanson, L. W., "Heat Transfer and Pressure Drop Characteristics of a Plate Heat Exchanger using a Propylene-Glycol/Water Mixture as a Working Fluid," National Heat Transfer Conference, Portland, Oregon, August 5 - 9, 1995.

Kim, J. H., Kihm, K. D., and Fletcher, L. S., "Onset of Flow Reversal and Penetration Length of Natural Convective Flow between Isothermal Vertical Walls," *ASME Transactions, Journal of Heat Transfer*, Vol. 117, No. 3, August 1995, pp. 776 - 779.

Patel, K. R., Simonson, E. H., and Fletcher, L. S., "An Experimental Investigation of High Temperature, High Pressure Paper Drying," Proceedings of the 1995 TAPPI Engineering Conference, Book 2, Dallas, Texas, September 11 - 14, 1995, pp. 659 - 667.

Fletcher, L.S., "Mechanical Engineering Education for the 21st Century," Proceedings of the ACOFI/ICFES Seminario Internacional para la Moderniza cim y Actualization del Curriculo en Ingenarion Mecanica, Universidad EAFIT, Medellin, Columbia, November 30 - December 1, 1995, pp. 1 - 14.

Lopez, J. R., Anand, N. K., and Fletcher, L. S., "Numerical Model of Laminar Flow Convective Heat Transfer In A Three-Dimensional Channel with Baffles," Proceedings of the Second ISHMT/ASME Heat Transfer Conference, (Eds. S. Srinivasa Murthy and Y. Jaluria), Surathkal, Karnataka, India, December 28 - 30, 1995, pp. 463 - 470.

Marotta, E. E., and Fletcher, L. S., "The Thermal Contact Conductance of Refractory Ceramic Coatings," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 10, No. 1, January - March 1996, pp. 10 - 18.

Fletcher, L. S., Lambert, M. A., and Marotta, E. E., "Thermal Enhancement Coatings for Microelectronic Systems,"

- Proceedings of the Energy Week Conference and Exhibit (incorporating ETCE), Engineering Technology, Book IV, Vol. 1, Heat Transfer, Houston, Texas, January 29 - February 2, 1996, pp. 1 - 10.
- Marotta, E. E., Blanchard, D. G., and Fletcher, L. S., "The Thermal Contact Conductance of Diamond-Like Films," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 10, No. 1, January - March 1996, pp. 19 - 25.
- Lambert, M. A., and Fletcher, L. S., "Effective Thermal Conductivity of Graphite/Aluminum and Graphite/Copper Composites," *ASME Transactions, Journal of Heat Transfer*, Vol. 118, No. 2, May 1996, pp. 478 - 480.
- Marotta, E. E., and Fletcher, L. S., "Thermal Contact Conductance of Polymeric Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 10, No. 2, April - June 1996, pp. 334 - 342.
- Wellek, R. M., McGrath, J. J., and Fletcher, L. S., "U.S. - German Research and Education Cooperative Experiences," Proceedings of the 5th World Congress on Chemical Engineering, San Diego, California, July 14 - 18, 1996.
- Lopez, J. R., Anand, N. K., and Fletcher, L. S., "Heat Transfer in a Three-Dimensional Channel with Baffles," *Numerical Heat Transfer*, Vol. 30, No. 2, August 1996, pp. 189 - 205.
- Madhusudana, C. V., Man, J. K. L., and Fletcher, L. S., "Effective Microhardness for the Determination of Contact Conductance of Coated Surfaces," HTD - Vol. 327, ASME Proceedings of the 31st National Heat Transfer Conference, Vol. 5, Houston, Texas, August 3 - 6, 1996, pp. 139 - 145.
- Andrews, M. J., and Fletcher, L. S., "Comparison of Heat Transfer Enhancement Technologies for Gas Heat Exchangers," *ASME Transactions, Journal of Heat Transfer*, Vol. 118, No. 4, November 1996, pp. 897 - 902.
- Fletcher, L. S., "Thermal Contact Conductance of Coatings and Films," Keynote Lecture, Proceedings of the Sixth Australasian Heat and Mass Transfer Conference, University of New South Wales, Sydney, Australia, December 9 -12, 1996
- Watson, J. C., Anand, N. K., and Fletcher, L. S., "Mixed Convective Heat Transfer Between a Series of Vertical Plates with Planar Heat Sources," *ASME Transactions, Journal of Heat Transfer*, Vol. 118, No. 4, Nov 1996, pp. 984 - 990.
- Lambert, M. A., Cavenall, I. G., and Fletcher, L. S., "Thermal Conductivity of Multi-Layer Composites" AIAA Paper No. 97-0138, 35th Aerospace Sciences Meeting and Exhibit, Reno, Nevada, January 6 - 9, 1997.
- Fletcher, L. S., "Mechanical Engineering Education for the 21st Century," *International Journal of Engineering Education*, Vol. 13, No. 1, January 1997, pp. 42 - 51.
- Ayers, G. H., Fletcher, L. S., and Madhusudana, C. V., "A Review of the Thermal Contact Conductance of Composite Cylinders," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 11, No. 1, January - March 1997, pp. 72 -81.
- Fletcher, L. S., "Thermal Contact Resistance," *International Encyclopedia of Heat and Mass Transfer*, CRC Press, Inc., Boca Raton, Florida, 1997, pp. 1147 - 1149.
- Lambert, M. A., and Fletcher, L. S., "A Review of Models for Thermal Contact Conductance of Metals," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 11, No. 2, April - June, 1997, pp. 129 - 140.
- Mirmira, S. R., Marotta, E. E., and Fletcher, L. S., "Thermal Contact Conductance of Adhesives for Microelectronic Systems," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 11, No. 2, April - June, 1997, pp. 141 - 145.
- Lambert, M. A., Cavenall, I. G, and Fletcher, L. S., "Experimental Thermal Contact Conductance of Electronic Modules," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 11, No. 2, April - June, 1997, pp. 146 - 152.
- Marotta, E. E., Mirmira, S. R., Fletcher, L. S., and Hanenkamp, A., "Vickers Microhardness of Ceramic Coatings for Thermal Contact Conductance: Microhardness Models with Experimental Comparison," AIAA Paper No. 97-2460, AIAA 32nd Thermophysics Conference, Atlanta, Georgia, June 23-25, 1997.
- Lambert, M. A., and Fletcher, L. S., "Design Graphs for Thermal Contact Conductance of Metals," AIAA Paper No. 97-2462, AIAA 32nd Thermophysics Conference, Atlanta, Georgia, June 23-25, 1997.

Fletcher, L. S., "The Role of Evaluation and Accreditation in Engineering Education," *Proceedings of the UPADI/ASIA V Seminario Panamericano de Evaluacion Y Acreditacion de Programas de Ingeniera*, Union Panamericana de Asociaciones de Ingenieros (UPADI), San Salvador, El Salvador, October 15 - 17, 1997.

Lambert, M. A., and Fletcher, L. S., "Thermal Contact Conductance of Spherical, Rough Metals," *ASME Transactions, Journal of Heat Transfer*, Vol. 119, No. 4, November 1997, pp. 684 - 690.

Fletcher, L. S., "Thermal Contact Conductance of Coatings and Films," *HKIE Transactions*, Fiftieth Anniversary Issue, Vol. 4, No. 2 & 3, December 1997, pp. 49 -56.

Ayers, G. H., and Fletcher, L. S., "A Review of the Thermal Conductivity of Graphite Reinforced Metal Matrix Composite Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 12, No. 1, January - March, 1998, pp. 10 - 16.

Mirmira, S. R., and Fletcher, L. S., "A Review of the Thermal Conductivity of Thin Films," *AIAA Journal of Thermophysics and Heat Transfer*, Volume 12, No. 2, April - June, 1998, pp. 121 - 131.

Fletcher, L.S., "Aerospace Engineering Education for the 21st Century," *Acta Astronautica*, Vol. 41, No. 4, April 1998, Pgs. 691 - 699.

Lambert, M. A., and Fletcher, L. S., "Thermal Contact Conductance of Dissimilar Metals," Lambert and Fletcher, AIAA Paper 98-2759, AIAA Thermophysics and Heat Transfer Conference, June 15 - 18, 1998, Albuquerque, New Mexico

Fischer, M. W., Prithviraj, M., Andrews, M. J., and Fletcher, L. S., "Application of a 3D Numerical Model for Shell-and-Tube Heat Exchanger Simulation and Comparison with Experimental Data," ASME Paper FEDSM98-4982, ASME Fluids Engineering Division Summer Meeting, June 21 - 25, 1998, Washington, D.C.

Marotta, E. E., and Fletcher, L. S., "Thermal Contact Conductance for Aluminum and Stainless Steel Contacts," *AIAA Journal of Thermophysics and Heat Transfer*, Vol 12, No. 3, July - September, 1998, pp. 374 - 381.

Mirmira, S., Marotta, E. E., and Fletcher, L. S., "Thermal Contact Conductance of Elastomeric Gaskets" *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 12, No. 3, July - September, 1998, pp. 454 - 456.

Fletcher, L. S., Lambert, M. A., and Marotta, E. E., "Thermal Enhancement Coatings for Microelectronic Systems," *ASME Transactions, Journal of Electronic Packaging*, Vol. 120, No. 3, September 1998, pp. 229 - 237.

Mirmira, S. R., Fletcher, L. S., and Baker, K., "Interfacial Contact Resistance of Single Crystal Ceramic Solar Concentrator Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 13, No. 1, January - March 1999, pp. 110-116.

Jamison, H.M., Mirmira, S.R., and Fletcher, L.S., "Thermal Contact Conductance of Dissimilar Metal Interfaces," AIAA Paper 99-0452, AIAA Aerospace Sciences Conference and Exhibit, Reno, Nevada, January 1999.

Marotta, E. E., Fletcher, L. S., Aikawa, T., Maki, K., and Aoki, Y., "The Thermal Contact Conductance of Sintered Copper Coatings on Sintered Ferro-Alloy at High Contact Temperatures and Pressures," *ASME Transactions, Journal of Heat Transfer*, Vol. 121, No. 1, February 1999, pp. 177 - 182.

Mirmira, S.R. and Fletcher, L.S., "Comparison of Effective Thermal Conductivity and Contact Conductance of Fibrous Composites," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 13, No. 2, April - June, 1999, pp. 272 - 276.

Abdel-Kariem, A.H., and Fletcher, L.S., "A Comparative Analysis of heat Transfer and Pressure Drop in a Plate Heat Exchanger," AJTE 99-6291, Fifth ASME/JSME Thermal Engineering Joint Conference, San Diego, California, March 15 - 19, 1999.

Mirmira, S.R., and Fletcher, L.S., "A Comparative Study of Thermal Conductivity of Graphite Fiber Organic Matrix Composites," AJTE 99-6439, Fifth ASME/JSME Thermal Engineering Joint Conference, San Diego, California, March 15 - 19, 1999.

Mirmira, S.R., and Fletcher, L.S., "Effective Thermal Conductivity of Epoxy Adhesives for Microelectronic Applications,"

AIAA Paper 99-3491, AIAA Thermophysics Conference, Norfolk, Virginia, June 29 - July 1, 1999.

Gross, A. R., Rosen, R., and Fletcher, L. S., "Intelligence Applied to Air Vehicles," Proceedings of the NATO RTA Applied Vehicle Technology Symposium on Unmanned Vehicles for Aerial, Ground, and Naval Military Operations, Ankara, Turkey, October 9 – 13, 2000.

Marotta, E. E., and Fletcher, L. S., "Thermal Contact Resistance Modeling of Non-Flat, Roughened Surfaces with Nonmetallic Coatings," *ASME Transactions, Journal of Heat Transfer*, Vol. 123, No. 1, February 2001, pp. 11-23.

Mirmira, S. R., Jackson, M. C., and Fletcher, L. S., "Thermal Conductivity and Contact Conductance of Cured Carbon Fiber Composite Materials," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 15, No. 1, January–March, 2001, pp. 18-26.

Fletcher, L.S., "Review of The Heat Exchanger Design Handbook," *AIAA Journal*, Vol. 39, No. 4, April 2001, 758 – 759.

Lambert, M. A., and Fletcher, L. S., "Thermal Contact Conductance of Non-flat, Rough, Metallic Coated Metals," *ASME Transactions, Journal of Heat Transfer*, Vol. 124, No.3, June 2002, pp. 405-412.

Fletcher, L.S., "Engineering Education: The Dilemma and the Challenge," Proceedings of the Pan American Academy of Engineering Forum, Tegucigalpa, Honduras, July 18, 2002.

Fletcher, L.S., "A Time for Change," ASME Perspective, *Mechanical Engineering News*, Vol. 21, No. 9, September 2002.

Fletcher, L.S., "Review of Heat Transfer in Single and Multiphase Systems," *AIAA Journal*, Vol. 41, No. 9, September 2003, pp. 849 – 850.

Fletcher, L.S., "Is Mechanical Engineering Obsolete," *Mechanical Engineering News*, Vol. 22, No. 9, September 2003.

Eberth, J.F., Porter, J, Marotta, E., and Fletcher, L.S., "Integration of Heat Conduction Measurement Systems into Engineering Technology Education," IMECE 2005-81345, International Mechanical Engineering Congress and Exposition, Orlando Florida, November 5-11, 2005.

Marotta, E.E., and Fletcher, L.S., "Thermal Joint Conductance of Low-Density Polyethylene and Polyester Polymeric Films: Experimental," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 20, No. 3, July – September 2006, pp. 398-407.

Kim, I.C., Marotta, E.E. and Fletcher, L.S., "Thermal Joint Conductance of Low-Density Polyethylene and Polyester Polymeric Films: Experimental," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 20, No. 3, July-September, 2006, pp. 398-407.

Kim, D., Silva, C. Fletcher, L.S., and Marotta, E.E., "Characterization of Wire Mesh Insulation for Deep Water Sea Pipe and Riser Applications," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 21, No. 1, January – March, 2007, pp. 145-152.

Fletcher, L.S., "Engineering Education in Transition," Proceedings of the Second International Conference on Education and Training, ICEET-2, Kuwait City, Kuwait, April 9 – 12, 2007.

Silva, C., Marotta, E., and Fletcher, L.S., "Flow Structure and Enhanced Heat Transfer in Channel Flow with Dimpled Surfaces: Application to Heat Sinks in Microelectronic Cooling," *ASME Transactions, Journal of Electronic Packaging*, Vol. 129, June 2007, pp. 157-166.

Fletcher, L.S., "Engineering Education: The Dilemma and the Challenge," Keynote Address, Proceedings of the Third IEEE-GCC Conference, Manama, Kingdom of Bahrain, November 13, 2007.

Park, D., Silva, C.A., Marotta, E.E., and Fletcher, L.S., "Study of Laminar Forced Convection Heat Transfer for Dimpled Heat Sinks," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 22, No. 2, April – June, 2008, pp. 262-270.

Pereira, E.N., Martinelli, M.H.B., Milanez, F.H., and Fletcher, L.S., "Statistical Model for Pressure Distribution of a Bolted Joint," AIAA Paper 2008-4364, 40th Thermophysics Conference, Seattle, Washington, June 23-26, 2008.

Silva, C.A., Park, D., Marotta, E.E., and Fletcher, L.S., "Optimization of Fin Performance in a Laminar Channel Flow Through Dimpled Surfaces," *ASME Transactions Journal of Heat Transfer*, Vol. 131, No.1, February 2009, pp. 1-9.

Marotta, E. E., Kim, D., and Fletcher, L.S., "Analytical and Experimental Investigation for the Performance Characteristics for an Interstitially Insulated Coaxial Pipe," *Society of Petroleum Engineers-Projects, Facilities, & Construction Journal*, Vol. 3, No. 3, March 2009, pp. 1-7.

Pereira, E.N., Martinelli, M.H.B., Milanez, F.H., and Fletcher, L.S., "Statistical Model for Pressure Distribution of a Bolted Joint," *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 47, No. 3, pp.

Kim, D.K., Marotta, E. and Fletcher, L.S., "Thermal Modeling of a Multi-Layer Insulation System", *ASME Transactions, Journal of Heat Transfer*, Vol. 132, No. 9, September 2010, pp. 091303-1 – 091303-9.

Kim, D.K., Marotta, E.E., and Fletcher, L.S., "Thermal Performance of a Wire Mesh/Hollow Sphere Composite Structure, AIAA Paper 2010-4648, Tenth AIAA/ASME Joint Thermophysics and Heat Transfer Conference, Chicago, Illinois, June 28 – July 1, 2010; *AIAA Journal of Thermophysics and Heat Transfer*, Vol. 48, No. 2, February 2011, pp. 254-261.

Reports:

Fletcher, L. S., "Static Stability Characteristics of a Delta Winged Configuration with a Canard Control and Nacelles at Mach Numbers from 0.25 to 3.50," NASA TMX-651 (1962).

Fletcher, L. S., "Static Stability Characteristics of a Delta Winged Configuration with Nacelles, A Trapezoidal Canard and a Drooped Tail at Mach Numbers from 0.70 to 3.52," NASA TMX-70 (1962).

Fletcher, L. S., "Dynamic Rotary Stability Derivatives of a Delta Winged Configuration with a Canard Control and Nacelles at Mach Numbers from 0.25 to 3.50," NASA TMX-781 (1963).

Fletcher, L. S., "An Experimental Determination of Total Hemispherical Emissivity," Engineer Thesis, Stanford University (June 1964).

Smuda, P. A., Fletcher, L. S., and Gyorog, D. A., "Heat Transfer Between Surfaces in Contact: The Effect of Low Conductance Interstitial Materials; Part I: Experimental Verification of NASA Test Apparatus," Arizona State University, ME-TRL-033-1, NASA CR-73122 (June 1967).

Fletcher, L. S., and Gyorog, D. A., "Heat Transfer Between Surfaces Contact Resistance of Metallic Interfaces," Arizona State University, ME-TRI-033-4-Rev, NASA CR-14373 (July 1968; revised May 1971).

Fletcher, L. S., "Thermal Contact Resistance of Metallic Interfaces: an Analytical and Experimental Study," Ph.D. Thesis, Arizona State University (August 1968).

Fletcher, L. S., "Experimental Investigation of Blunt Base Heat Transfer in Axisymmetric Turbulent Supersonic Separated Flow," Rutgers University, RU-TR 128-MAE-F, AFOSR 69-2149TR (July 1969).

Fletcher, L. S., and Sernas, V., "Boiling Heat Transfer Coefficients for Thin Water Films in Horizontal Tube Desalination Units," Rutgers University, RU-TR 139-MAE-H (June 1972).

Clark, T. A., Fletcher, L. S., and Sernas, V., "Experimental Determination of Condensation Heat Transfer Coefficients Inside a Smooth Horizontal Desalination Tube," Rutgers University, RU-TR 140-MIAE-H (May 1973).

Parken, W. H., Fletcher, L. S., and Sernas, V., "Experimental Determination of Evaporation Heat Transfer Coefficients for Thin Sea Water Films on Horizontal Tubes," Rutgers University, RU-TR 141-MIAE-H (June 1973).

Fletcher, L. S. and Sernas, V., "An Experimental Investigation of Evaporation and Condensation Film Coefficients for Horizontal Tube Desalination Systems: Final Report," Rutgers University, RU-TRI 142-MIAE-H (July 1973).

Przirembel, C. E. G. and Fletcher, L. S., "A Flow Visualization Study of a Resonance Tube," Rutgers University, RU-TR 144-MIAE-F (July 1974).

Vachon, R. I., Albers, J. R., Fletcher, L. S., et al., "MEGA-STAR-The Meaning of Energy Growth: An Assessment of Systems, Technologies and Requirements," Auburn University Engineering Systems Design Summer Faculty Fellows, NASA CRL-120338 (September 1974).

DeRossett, T. A., Przirembel, C. E. G., and Fletcher, L. S., "An Analytical Study of an Axisymmetric Choked Nozzle," Rutgers University, RU-TR 145-MIAE-F (December 1974).

Fletcher, L. S. and Chen, C. F., "Augmentation of Smoke Stack Plume Rise by Aerodynamic Means," Rutgers University, RU-TR 146-MIAE-F (August 1975).

Cardel, G. P., Fletcher, L. S., and Chen, C. F., "Temperature Profiles of Smokestack Plumes Augmented by Aerodynamic Means," Rutgers University, RU-TR 149-MIAE-F (August 1976).

Parken, W. H., Jr., and Fletcher, L. S., "An Experimental and Analytical Investigation of Heat Transfer to Thin Water Films on Horizontal Tubes," University of Virginia, RLES Report No. UVA/526078/MAE/101 (August 1977).

- Fletcher, L. S., Kitis, L., Somers, R. R., II, and Conner, C., "An Evaluation of Energy Use in Charlottesville Public Buildings and Facilities - 1972-1977," Central Piedmont Urban Observatory (Charlottesville, VA, December 1977).
- Fletcher, L. S., Somers, R. R., II, Pritchard, A. C., Conner, C. A., and Chandler, B. C., "An Evaluation of Energy Use in Albemarle County Schools and Public Buildings (1972-1978)," University of Virginia, RLES Report No. UVA/530119/MAE79/101 (February 1979).
- Fletcher, L. S., Somers, R. R., Kitis, L., Conner, C. A., and Pritchard, A. C., "An Evaluation of Energy Use and the Energy Use Reporting System in Virginia State Agencies and Institutions (1972-77)," University of Virginia, Center for Energy Analysis, RLES Report No. UVA/530122/MAE80/101 (March 1980).
- Padgett, D. L., and Fletcher, L. S., "An Apparatus to Determine the Thermal Contact Conductance Between Dissimilar Metals," University of Virginia, RLES Report No. UVA/526268/MAE80/101 (September 1980).
- Fletcher, L. S., Scott, T. C., Somers, R. R., and Pritchard, A. C., "The Virginia Grants Program: CEA Final Report," University of Virginia, Center for Energy Analysis, RLES Report No. UVA/530157/MAE80/102 (September 1980).
- Somers, R. R., II, Pritchard, A. C., Hoffman, M. C., Sexton, M. R., and Fletcher, L. S., "Virginia Solar Energy Feasibility Study," University of Virginia, Center for Energy Analysis, RLES Report No. UVA/530157/MAE80/103 (January 1981).
- Madhusudana, C. V. and Fletcher, L. S., "Thermal Contact Conductance: A Review of Recent Literature," Texas A&M University, Mechanical Engineering Department, NSF MEA-8103230 (September 1981).
- Fletcher, L. S. (ed.), Proceedings of the ASME Conference on Mechanical Engineering Education - 1980, (New York: ASME, October 1981).
- Somers, R. R., II, and Fletcher, L. S., "The Thermal Contact Conductance of Dissimilar Metals," Texas Engineering Experiment Station, Texas A&M University, TEES-4547-83 (May 1983).
- Peterson, G. P., and Fletcher, L. S., "Effective Thermal Conductivity of Laminated and Composite Materials for Electric Discharge Machining," Final Report, AGIE Corporation, Locarno, Switzerland (May 1987).
- Fletcher, L.S., Barber, S., et al., "Analysis of the Feasibility of Replacing Asbestos in Automobile and Truck Brakes," ASME Report I00264, American Society of Mechanical Engineers, New York, New York, 1988.
- Peterson, G. P., and Fletcher, L. S., "Measurement of the Thermal Contact Conductance and Thermal Conductivity of Anodized Aluminum Coatings," Final Report ME-CHTL-96800-7, Mechanical Engineering Department, Texas A&M University (April 1989).
- Peterson, G. P., and Fletcher, L. S., "Improving the Thermal Contact Conductance through the Use of Thin Metallic Coatings," Final Report, submitted to NASA-Johnson Space Center, Houston, Texas (April 1989).
- Peterson, G. P., and Fletcher, L. S., "Thermal Contact Conductance of Finned Interfaces," Final Report, submitted to Foster-Miller, Inc., Waltham, MA (June 1989).
- Fletcher, L. S., "Engineering Research Experience for Women and Minority Undergraduates," Final Report, NSF Grant ENG-8804895 (October 1989).
- Peterson, G. P., and Fletcher, L. S., "Thermal Pad Interface Pressure Test and Analysis Report," Rockwell International Corp., Mechanical Engineering Department, Texas A&M University, ME-CHTL-64000-13 (October 1989).
- Peterson, G. P., and Fletcher, L. S., "Thermal Pad Conductance Test Report," Rockwell International Corp., Mechanical Engineering Department, Texas A&M University, ME-CHTL-64000-14 (October, 1989).
- Bell, D. O., Seyed-Yagoobi, J., and Fletcher, L. S., "Recent Developments in Paper Drying," Texas Drying Research Consortium, Texas A&M University, ME-CHTL-70380-15 (November, 1989).
- Peterson, G. P., and Fletcher, L. S., "Adhesion Characteristics of Cold Plate Thermal Test Pads," Rockwell International

Corp., Mechanical Engineering Department, Texas A&M University, ME-CHTL-64000-15 (December 1989).

Peterson, G. P., and Fletcher, L. S., "Radiant Heat Exchanger for Spacecraft Thermal Control," Final Report, Rockwell International Corp., Mechanical Engineering Department, Texas A&M University, ME-CHTL-6400-17 (April 1990).

Fletcher, L. S., "Undergraduate Research Experience for Women and Minority Undergraduates," Final Report, NSF Grant EID 9000979, Mechanical Engineering Department, Texas A&M University, October 1990.

Fletcher, L. S., and Flipse, J. E., "Engineering Research Experience in Offshore Technology for Undergraduates," Final Report, NSF Grant ECD-8221512-A3, Offshore Technology Research Center, Texas A&M University, October 1990.

Ng, K. H., Seyed-Yagoobi, J., Asensio, M. C., and Fletcher, L. S., "An Apparatus for the Measurement of the Thermal Contact Conductance of a Paper Handsheet/Metal Interface," Mechanical Engineering Department, Texas A&M University, ME-CHTL-7063-1 (March 1991).

Lambert, M. A., and Fletcher, L. S., "A Review of Thermal Enhancement Coatings for Navy Standard Electronic Module Card Rails," ME-CHTL-6770-3, Navy Contract 164-91-C-0043, Mechanical Engineering Department, Texas A&M University, July 26, 1991.

Fletcher, L. S., "Undergraduate Research Experience for Women and Minority Undergraduates," Final Report, NSF Grant EID 9100966, Mechanical Engineering Department, Texas A&M University, October 1991.

Fletcher, L. S., and Flipse, J. E., "Engineering Research Experience in Offshore Technology for Undergraduates," Final Report, NSF Grant ECD-8721512, Offshore Technology Research Center, Texas A&M University, October 1991.

Fletcher, L. S., and Blanchard, D. G., "Measurement of the Thermal Conductivity and Thermal Contact Conductance of Thick and Thin Gauge Aluminum Sheet," Final Report, Alcoa Technical Center, Mechanical Engineering Department, Texas A&M University, ME-CHTL-27630-1, December 1991.

Blanchard, D. G., Marotta, E. G., and Fletcher, L. S., "An Evaluation of Thermal Conductivity Data for Synthetic and Natural Diamond Materials," Department of Mechanical Engineering, Texas A&M University, ME-CHTL-90690-1, December 1991.

Lambert, M. A., and Fletcher, L. S., "Thermal Enhancement Techniques for SEM Guide Ribs and Card Rails," 1991 Annual Report, ME-CHTL-6770-6, Navy Contract 164-91-C-0043, Mechanical Engineering Department, Texas A&M University, January 1992.

Marotta, E. G., Lambert, M. A., and Fletcher, L. S., "A Review of the Thermal Contact Conductance of Non-Metallic Coatings and Films for Navy Standard Electronic Module Card Rails," ME-CHTL-6770-8, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, May 1992.

Fletcher, L. S., and Weese, J.A., "An Assessment of the Research Experience for Undergraduates (REU) Program in Engineering," Workshop Final Report, NSF Grant EID 9120343, June 1992.

Abramson, H. N., Fletcher, L. S., Hofstader, R. A., and Tolo, K. W., "An Assessment of Manpower Development for Science, Engineering and Technology in Indonesia," Panel on Human Resources Development, BOSTID, U.S. National Research Council, Jakarta, Indonesia, August 11, 1992.

Fletcher, L. S., and Seymour, R. J., "Engineering Research Experience in Offshore Technology for Undergraduates," Final Report, NSF Grant ECD-8721512, September 1992.

Fletcher, L. S., "Undergraduate Research Experience for Women and Minority Undergraduates," Final Report, NSF Grant EID 9100966, September 1992.

Fletcher, L. S., and Page, R. H., "An Assessment of U.S.-German Cooperative Programs in Mechanical Engineering," Workshop Final Report, NSF Grant CTS 9211694, November 1992.

Marotta, E. E., Blanchard, D. G., and Fletcher, L. S., "The Thermal Contact Conductance of Silicon Nitride and Diamond-

Like Films," ME-CHTL-6770-12, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, December 28, 1992.

Lambert, M. A., and Fletcher, L. S., "The Experimental Thermal Contact Conductance of Vapor-Deposited, Electroplated, and Plasma Sprayed Silver Coatings," ME-CHTL-6770-13, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, December 28, 1992.

Fletcher, L. S., Lambert, M. A., and Marotta, E. E., "Thermal Enhancement Techniques for SEM Guide Ribs and Card Rails - 1992 Annual Report," ME-CHTL-6770-14, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, January 27, 1993.

Lambert, M. A., Marotta, E. E., and Fletcher, L. S., "The Thermal Contact Conductance of Hard and Soft Coat Anodized Aluminum," ME-CHTL-6770-17, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, September 1993.

Marotta, E. E., and Fletcher, L. S., "The Thermal Contact Conductance of Refractory Ceramic Coatings," ME-CHTL-6770-20, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, March 1994.

Andrews, M. A., and Fletcher, L. S., "Technical Assessment of Heat Exchanger Enhancement Technologies," GRI 94/0247, Gas Research Institute/Heat Transfer Research, Inc., College Station, Texas, April 1994.

Fletcher, L. S., "Technical/Market Assessment of Heat Exchanger Technology for Users of Natural Gas," GRI 94/0248, Gas Research Institute/Heat Transfer Research, Inc., College Station, Texas, June 1994.

Fletcher, L. S., Lambert, M. A., and Marotta, E. E., "Thermal Enhancement Techniques for SEM Guide Ribs and Card Rails - Final Report," ME-CHTL-6770-23, Navy Contract No. N00164-91-C-0043, Mechanical Engineering Department, Texas A&M University, July 1994.

Fletcher, L. S., and Seymour, R. J., "Engineering Awareness Program in Offshore Technology for High Potential High School Students," Interim Report, NSF Grant - 8721512, September 1994.

Fletcher, L. S., and Seymour, R. J., "Engineering Research Experience in Offshore Technology for Undergraduates," Interim Report, NSF Grant - 8721512, September 1994.

Fletcher, L. S., "Undergraduate Research Experience for Women and Minority Undergraduates," Annual Report, NSF Grant EID 9100966, September 1994.

Talik, A. C., Fletcher, L. S., and Anand, N. K., "Heat Transfer and Pressure Drop Characteristics of a Plate Heat Exchanger," Final Report, ME-CHTL-4421-1, Mechanical Engineering Department, Texas A&M University, May 1995.

Fletcher, L. S., "Undergraduate Research Experience for Women and Minority Undergraduates," Final Report, NSF Grant EID 9100966, September 1995.

Fletcher, L. S., and Seymour, R. J., "Engineering Awareness Program in Offshore Technology for High Potential High School Students," Final Report, NSF Grant - 8721512, October 1995.

Fletcher, L. S., and Seymour, R. J., "Engineering Research Experience in Offshore Technology for Undergraduates," Final Report, NSF Grant - 8721512, October 1995.

Fletcher, L. S., and Seymour, R. J., "Engineering Research Experience for Undergraduates from the Texas State Technical College," Annual Report, NSF Grant ECD - 871512, October 1995.

Lambert, M. A., and Fletcher, L. S., "Thermal Contact Conductance of Spherical, Rough Metals," ME-CHTL-8959-1, Mechanical Engineering Department, Texas A&M University, December 1995.

Lopez, J. R., Anand, N. K., and Fletcher, L. S., "A Numerical Model of Convective Heat Transfer in a Three-Dimensional Channel with Baffles," Report, ME-CHTL-4421-2, Mechanical Engineering Department, Texas A&M University, January, 1996.

Fletcher, L. S., Christ, B. W., McCullough, K. E., and Middleton, T., "Screw-Thread Gaging Systems for Determining Conformance to Thread Standards," ASME CRTD-Vol. 37, American Society of Mechanical Engineers Center for Research and Technology Development, New York, April 1996.

Fletcher, L. S., and Seymour, R. J., "Engineering Awareness Program in Offshore Technology for High Potential High School Students," Interim Report, NSF Grant ECD - 8721512, July 1996.

Fletcher, L. S., and Seymour, R. J., "Engineering Research Experience in Offshore Technology for Undergraduates," Annual Report, NSF Grant ECD - 8721512, September 1996.

Fletcher, L. S., and Seymour, R. J., "Engineering Research Experience for Undergraduates from the Texas State Technical College," Annual Report, NSF Grant ECD - 8721512, September 1996.

Fletcher, L. S., Lambert, M. A., Cavenall, I. G., and Ayers, G. H., "The Thermal Contact Resistance of SEM E Guide Ribs and Card Rails," Final Report, NSWC N 00164-94-R-0203, January 1997.

Ayers, G. H., and Fletcher, L. S., "High Thermal Conductivity Dielectric Material Literature Search," Report CHTL-33300-1, Texas Instruments, Mechanical Engineering Department, Texas A&M University, January 1997.

Fletcher, L. S., and Roesset, J., "Engineering Awareness Program in Offshore Technology for High Potential High School Students," Final Report, NSF Grant ESI - 9552908, July 1997.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience in Offshore Technology for Undergraduates," Annual Report, NSF Grant ECD - 8721512, September 1997.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience for Undergraduates from the Texas State Technical College," Annual Report, NSF Grant ECD - 8721512, September 1997.

Fletcher, L. S., and Roesset, J., "Engineering Awareness Program in Offshore Technology for High Potential High School Students," Final Report, NSF Grant ESI - 9552908, July 1998.

Jackson, M.C., and Fletcher, L.S., "Experimental Thermal Conductivity and Contact Conductance of Graphite Composites," Report CHTL-8959-3, Mechanical Engineering Department, Texas A&M University, August 1998.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience in Offshore Technology for Undergraduates," Annual Report, NSF Grant ECD - 8721512, September 1998.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience for Undergraduates from the Texas State Technical College," Annual Report, NSF Grant ECD - 8721512, September 1998.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience in Offshore Technology for Undergraduates," Annual Report, NSF Grant ECD - 8721512, September 1999.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience for Undergraduates from the Texas State Technical College," Annual Report, NSF Grant ECD - 8721512, September 1999.

Fletcher, L. S., and Roesset, J., "Engineering Research Experience in Offshore Technology for Undergraduates," Annual Report, NSF Grant ECD - 8721512, September 2000.

Fletcher, L. S., "Engineering Research Experience Undergraduates," Annual Report, NSF Grant ECD - 8721512, September 2001.

Presentations:

"An Experimental and Analytical Investigation of Thermal Contact Conductance," Mechanical Engineering Seminar, Stevens Institute of Technology, Hoboken, New Jersey, January 23, 1968.

"An Experimental and Analytical Investigation of Thermal Contact Conductance," Mechanical Engineering Seminar, Auburn University, Auburn, Alabama, January 25, 1968.

"An Experimental and Analytical Investigation of Thermal Contact Conductance," Mechanical Engineering Seminar, University of Missouri, Columbia, Missouri, February 8, 1968.

"An Experimental and Analytical Investigation of Thermal Contact Conductance," Mechanical Engineering Seminar, University of Maryland, College Park, Maryland, April 1, 1968.

"Natural Convection Heat Transfer in Vertical Channels," Heat Transfer Forum, ASME Winter Annual Meeting, New York, December 1970.

"Control of Effluents from Smoke Stacks," Rutgers Engineering Society Fall Meeting, College of Engineering, Rutgers University, New Brunswick, New Jersey, October 27, 1973.

"Engineering at Rutgers after Four Years of Collective Bargaining," ASEE Seminar, College of Engineering, Pennsylvania State University, University Park, Pennsylvania, February 21, 1974.

"The Energy Dilemma in New Jersey," Rutgers Engineering Society Fall Meeting, College of Engineering, Rutgers University, New Brunswick, New Jersey, October 26, 1974.

"How Mechanical Engineers Meet the Challenge of Society," Panel Presentation, ASME Winter Annual Meeting, New York, November 20, 1974.

"Engineering and the Future," Engineering Seminar, Middlesex County College, Edison, New Jersey, January 8, 1975.

"Mechanical Engineering Education," Mechanical Engineering Seminar, University of Connecticut, Storrs, Connecticut, January 15, 1975.

"Heat Transfer in Separated and Reattached Flows," Mechanical Engineering Seminar, University of Texas-Arlington, Arlington, Texas, February 17, 1975.

"Heat Transfer in Desalination Systems," Mechanical Engineering Seminar, University of Virginia, Charlottesville, Virginia, November 15, 1975.

"Engineering Education in Universities," ASME Central Virginia Section, Richmond, Virginia, February 7, 1978.

"Strategies for Developing Cooperative Programs Between Universities and Municipal/State Governments," ASEE Government Relations Workshop - Strengthening Engineering and Science in State Governments, University of Virginia, April 5, 1978.

"Cooperative Programs Between Universities and Municipal/State Governments," College of Engineering Seminar, Oklahoma State University, Stillwater, Oklahoma, July 17, 1978.

"Engineering Education for the Next Decade," College of Engineering, University of South Florida, Tampa, Florida, May 31, 1979.

"Stimulation of Research from a Department Chairman's Perspective," Panel Discussion, ASEE Annual Meeting, Baton Rouge, Louisiana, June 1979.

"Thermal Contact Conductance and the Energy Dilemma," Southwest Symposium on Thermal Sciences, University of Houston, Houston, Texas, November 12, 1979.

"Thermal Contact Conductance and the Energy Dilemma," Southwest Symposium on Thermal Sciences, Louisiana State University, Baton Rouge, Louisiana, November 14, 1979.

"Thermal Contact Conductance and the Energy Dilemma," Southwest Symposium on Thermal Sciences, Texas A&M University, College Station, Texas, November 16, 1979.

"NSF Supported Engineering Education and Research Programs - Perceived Needs and Opportunities," Panel Discussion, ASEE Annual Meeting, Amherst, Massachusetts, June 24, 1980.

"An Evaluation of Energy Use in Small Communities," Doctor of Engineering Seminar, Texas A&M University, College Station, Texas, September 23, 1980.

"Evaporation from Thin Liquid Films - Modeling and Analysis," Applied Mathematics Seminar, Texas A&M University, College Station, Texas, October 27, 1980.

"ASME Education Program for the Eighties," ASME Winter Annual Meeting, Chicago, Illinois, November 17, 1980.

"Mechanical Engineering Education: Planning for the Future," Mechanical Engineering Seminar, University of Arkansas, Fayetteville, Arkansas, May 12, 1981.

"Evaporation of Thin Liquid Films Flowing Over Horizontal Tubes," Mechanical Engineering Seminar, University of Minnesota, Minneapolis, Minnesota, May 27, 1981.

"Mechanical Engineering Education: Planning for the Future," Mechanical Engineering Seminar, Mississippi State University, Mississippi State, Mississippi, June 4, 1981.

"Achieving Excellence in Both Teaching and Research," Panel Discussion, ASEE Annual Meeting, University of Southern California, Los Angeles, California, June 22, 1981.

"Rehabilitation Engineering Education, Research and Practice," Biomedical Engineering Seminar, Central Institute for Industrial Research, Oslo, Norway, July 9, 1981.

"Heat Transfer to Thin Liquid Films Flowing Over Horizontal Tubes," Heat Transfer Seminar, The Technical University of Denmark, Lyngby, Denmark, July 15, 1981.

"Heat Transfer to Thin Liquid Films Flowing Over Horizontal Tubes," Mechanical Engineering Seminar, Purdue University, West Lafayette, Indiana, November 5, 1981.

"Heat Transfer to Thin Liquid Films Flowing Over Horizontal Tubes," Aerospace and Mechanical Engineering Seminar, University of Arizona, Tucson, Arizona, February 18, 1981.

"Heat Transfer to Thin Liquid Films Flowing Over Horizontal Tubes," Mechanical Engineering Seminar, Arizona State University, Tempe, Arizona, February 19, 1981.

"Desalination: An Application of Aerospace Technology," Aerospace Engineering Seminar, Texas A&M University, College Station, Texas, March 4, 1982.

"Where Are You Going?" Dinner Speaker, 62nd National Pi Tau Sigma Convention, Texas A&M University, College Station, Texas, November 6, 1982.

"Engineering Education in Transition," Keynote Address, ASEE Pacific Northwest Annual Meeting, Seattle, Washington, April 29, 1983.

"Engineering Education in Transition," Luncheon Speaker, ASEE Region III Professional Conference, College Station, Texas, February 6, 1984.

"Recent Trends in Engineering Accreditation," College of Engineering Seminar, Florida Atlantic University, Boca Raton,

Florida, May 4, 1984.

"Recent Trends in Engineering Accreditation," College of Science and Engineering Seminar, University of Texas at San Antonio, San Antonio, Texas, July 30, 1984.

"The Rise and Fall of Academic Programs," Panel Presentation, Energy Sources Technology Conference, Dallas, Texas, February 17-21, 1985.

"Productivity in Engineering Education," Banquet Address, ASME Region VIII, Hot Springs, Montana, May 3-4, 1985.

"Engineering: The Human Dimension," Presidential Inauguration Address, ASME Summer Annual Meeting, Cincinnati, Ohio, June 12, 1985.

"Mechanical Engineering in a World of Modern Technology," ASME West Palm Beach Section, West Palm Beach, Florida, September 19, 1985.

"Engineers: Spectators or Innovators," ASME Greenville/Clemson Section, Clemson, South Carolina, November 7, 1985.

"Engineering: The Creative Dimension," President's Luncheon, ASME Winter Annual Meeting, Miami Beach, Florida, November 18, 1985.

"Engineering and Your Future," Banquet Address, Society of Women Engineers Annual Conference, College Station, Texas, January 24, 1986.

"Engineers: Spectators or Innovators," Banquet Address, 4th International Model Analysis Conference, Los Angeles, California, February 5, 1986.

"The Changing Role of Engineers," Banquet Address, ASME Region III, Engineer's Week Meeting, Washington, D.C., February 20, 1986.

"The Role of Engineers in a World Economy," Luncheon Address, Energy-Sources Technology Conference and Exhibition (ETCE), New Orleans, Louisiana, February 23-27, 1986.

"ASME's View of Product and Professional Liability," Keynote Address, Design Engineering Conference, Chicago, Illinois, March 25, 1986.

"Productivity in Engineering Education," Banquet Address, ASME, Region IV, Raleigh, North Carolina, April 3-5, 1986.

"The Changing Role of Engineers," Banquet Address, ASME Region III, RAC, Niagara Falls, New York, May 2-3, 1986.

"Thermal Contact Conductance: Theory and Applications," Keynote Address, CSME 50th Anniversary and Annual Conference, Taipei, Taiwan, November 2-6, 1986.

"Engineering: The Career for the Future," TAMU Society of Women Engineers Annual Conference, College Station, Texas, January 23, 1987.

"Creativity and Mechanical Engineering," Engineer's Week Address, Virginia Polytechnic Institute, Blacksburg, Virginia, February 10, 1987.

"The Rewards of Service to ASME," Banquet Address, ASME South Texas Section, Honors and Awards Banquet, Houston, Texas, April 16, 1987.

"Mechanical Engineering and Productivity," ASME Coastal Bend Section, Honors and Awards Banquet, Victoria, Texas, May 12, 1987.

"The Effect of Steam Shear on Boiling in Thin Liquid Films," Maschinenbau Kolloquium, Ruhr Universitat, Bochum, West Germany, June 3, 1987.

"The 1987 Engineering Freshman Class Profile," National Engineering Council for Guidance Program, American Society for Engineering Education Annual Meeting, Reno, Nevada, June 22-24, 1987.

"Characteristics of the Engineering Freshman Class," TexPrep Minority Program, Pan American University, Edinburg, Texas, July 27, 1987.

"Space Engineering: An Education for the Future," Banquet Address, Rockwell International Chapter of the National Management Association, NASA Gilruth Center, Clear Lake, Texas, August 19, 1987.

"Mechanical Engineering in a World of Modern Technology," ASME Student Section North Carolina A&T State University, Greensboro, North Carolina, October 5, 1987.

"The Role of Accreditation in Engineering Education," College of Engineering Seminar, North Carolina A&T State University, Greensboro, North Carolina, October 6, 1987.

"The Changing Role of Engineers," Banquet Address, ASME Mt. Diablo Section, Pleasanton, California, October 6, 1987.

"Engineers: Spectators or Innovators," Banquet Address, ASME North Texas and West Texas Sections, Dallas, Texas, November 10, 1987.

"Falling Film Evaporation in Horizontal Tube Heat Exchanges," Mechanical Engineering Seminar, Rice University, Houston, Texas, November 24, 1987.

"Alternatives to Asbestos in Car and Truck Braking Systems," Panel Presentation, ASME Winter Annual Meeting, Boston, Massachusetts, December 15, 1987.

"The Role of Accreditation in Engineering Education," Visiting Scholars Lecture, California State University at Sacramento, California, February 1, 1988.

"The Role of Creativity in Engineering," ASME East Tennessee Section, Knoxville, Tennessee, February 16, 1988.

"The Role of Thermal Control in Energy Systems," Keynote Address, Australian Bicentennial International Congress in Mechanical Engineering, Brisbane, Australia, May 8-13, 1988.

"The Changing Role of Engineers," Congress Luncheon Address, Australian Bicentennial International Congress in Mechanical Engineering, Brisbane, Australia, May 8-13, 1988.

"Engineering in Transition," Honorary Professor Lecture, Ruhr University-Bochum, West Germany, July 6, 1988.

"Recent Developments in Contact Conductance Heat Transfer," Mechanical Engineering Seminar, U.S. Naval Postgraduate School, Monterey, California, October 13, 1988.

"The Role of Accreditation in Engineering Education," School of Engineering Seminar, Alfred University, Alfred, New York, November 4, 1988.

"Heat Transfer Research Opportunities in Superconductors: Real or Imagined," Panel Presentation, ASME Winter Annual Meeting, Chicago, Illinois, November 30, 1988.

"The Future of Heat Transfer Education," Panel Presentation, ASME Winter Annual Meeting, Chicago, Illinois, December 1, 1988.

"Prospects for the Future of the Heat Transfer Division," Panel Presentation, ASME Winter Annual Meeting, Chicago, Illinois, December 2, 1988.

"International Opportunities for Mechanical Engineers," ASME Student Luncheon, Texas A&M University, College Station, Texas, March 1, 1989.

"Recent Developments in Contact Conductance Heat Transfer," Mechanical Engineering Seminar, University of Florida,

Gainesville, Florida, March 7, 1989.

"Mechanical Engineering Education - Non-Technical Curriculum Content," Mechanical Engineering Department Heads Conference, Orlando, Florida, March 8-10, 1989.

"Professionalism and Ethics," Doctor of Engineering Seminar, Texas A&M University, College Station, Texas, March 28, 1989.

"Mechanical Engineers: Spectators or Innovators," Luncheon Address, ASME Regional Student Conference, Texas A&M University, College Station, Texas, April 1, 1989.

"Engineering and Your Future," TAMU PREP Minority Program, College of Science, Texas A&M University, College Station, Texas, June 15, 1989.

"The Rise and Fall of Academic Programs," ASEE Department Heads Institute, Lincoln, Nebraska, June 24, 1989.

"Texas Drying Symposium - Energy Efficiency in the Pulp and Paper Industries," THECB Energy Research and Applications Program Annual Meeting, Salado, Texas, September 10-12, 1989.

"ASME and the Governmental Process," Heat Transfer Division Panel Presentation, ASME Winter Annual Meeting, San Francisco, California, December 11, 1989.

"Recent Trends in Engineering Accreditation," College of Engineering Seminar, Manhattan College, Riverdale, New York, December 7, 1989.

"ASME and ABET Accreditation," Luncheon Address, Program Evaluators Training Program, ASME Winter Annual Meeting, San Francisco, California, December 10, 1989.

"Mechanical Engineering Curriculum: Design, Safety and Ethics," Design Division Panel Presentation, ASME Winter Annual Meeting, San Francisco, California, December 13, 1989.

"Recent Developments in Contact Conductance Heat Transfer," Mechanical Engineering Seminar, Tulane University, New Orleans, Louisiana, February 16, 1990.

"The Role of Accreditation in Engineering Education", School of Engineering and Computer Science Seminar, California State University-Fullerton, California, March 1, 1990.

"Recent Developments in Contact Conductance Heat Transfer", Mechanical Engineering Seminar, University of Kentucky, Lexington, Kentucky, April 5, 1990.

"Mechanical Engineering Technologies: Past, Present and Future", Dinner Address, ASME Baton Rouge Section 25th Anniversary Meeting, Baton Rouge, Louisiana, April 16, 1990.

"The Role of Accreditation in Engineering Education", Mechanical Engineering Seminar, Louisiana State University, Baton Rouge, Louisiana, April 17, 1990.

"Engineering and Your Future", Banquet Address, Tau Beta Pi Spring Banquet, Texas A&M University, April 20, 1990.

"Recent Developments in Contact Heat Transfer," Engineering Seminar, Microelectronics and Computer Technology Corporation, Austin, Texas, August 7, 1990.

"Heat Transfer Considerations in Materials Processing," Panel Presentation, ASME Winter Annual Meeting, Dallas, Texas, November 25-30, 1990.

"Engineers: Spectators or Innovators," Tau Beta Pi Spring Banquet, Texas A&M University, April 12, 1991.

"Recent Developments in Contact Conductance Heat Transfer," NSF Chemical and Thermal Systems Division, Washington, D.C., April 17, 1991.

"Thermal Boundary Layers on a Vertical Isothermal Plate Using Speckle Photography," Heat Transfer Seminar, University of Essen, Germany, May 15, 1991.

"Creative Engineering Design," Luncheon Address, International Mechanical Engineering Congress and Exhibition (MECH '91), Darling Harbour, Sydney, Australia, July 11, 1991.

"U.S./Mexico Educational Initiatives," Higher Education and Science Panel, U.S./Mexico Border Conference on Education, Juarez/El Paso, October 7, 1991.

"Thermal Conductance of Bolted Joints," RUB/TAMU Symposium, Bochum, Germany, October 23, 1991.

"The Rise and Fall of Academic Programs," College of Engineering Seminar, University of Kentucky, Lexington, Kentucky, March 1, 1992.

"Where Are You Going?," Pi Tau Sigma Spring Banquet, Texas A&M University, College Station, Texas, April 27, 1992.

"Creative Engineering Design," Faculty of Engineering Seminar, University of Wollongong, Wollongong, Australia, May 8, 1992.

"Human Resource Development - Engineering Accreditation and Certification," BPPT/BOSTID Seminar, Ministry for Science and Technology, Jakarta, Indonesia, August 10, 1992.

"Recent Developments in Thermal Contact Conductance," Energetica Seminar, ENEA Center for Energy Research, Casaccia, Italy, September 22, 1992.

"The Role of Accreditation in Engineering Education," Maritime Systems Seminar, Texas A&M University at Galveston, Galveston, Texas, October 6, 1992.

"Graduate School Opportunities," ASME Student Section Meeting, Prairie View A&M University, Prairie View, Texas, October 20, 1992.

"The Role of Accreditation in Engineering Education," Engineering Program Seminar, Texas Christian University, Fort Worth, Texas, October 23, 1992.

"On-Campus Evaluation of Engineering Education Programs," ABET Program Evaluator Workshop for Engineering Education in Mexico, San Antonio, Texas, October 28, 1992.

"Offshore Technology Research and Education Programs," University of Technology, Lae, Papua New Guinea, November 24, 1992.

"The Role of Database Systems in Science and Technology," Annual Meeting, Mechanical Engineering Advisory Committee, Institute of Professional Engineers-New Zealand, November 27, 1992.

"University Partnership Programs in Papua New Guinea and Indonesia," AID/APEC Workshop, Washington, D.C., December 10, 1992.

"The Role of Accreditation in Engineering Education," U.S. Coast Guard Academy, New London, Connecticut, March 12, 1993.

"Recent Developments in Contact Conductance Heat Transfer," Faculty Brown Bag Lunch Seminar, Mechanical Engineering Department, Texas A&M University, February 26, 1993.

"Thermal Enhancement Techniques for Microelectronic Systems," Keynote Address, XI UIT Congresso Nazionale sulla Trasmissione del Calore, Milano, Italy, June 25, 1993.

"Thermal Enhancement Techniques for Microelectronic Systems," Mechanical Engineering Seminar, Tokyo Institute of Technology, Ookayama, Tokyo, Japan, July 12, 1993.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, Tohoku University, Sendai, Japan, July 19, 1993.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, Hokkaido University, Sapporo, Japan, July 22, 1993.

"Thermal Contact Conductance of Non-Metallic Coatings for Hypersonic Flight," Aerodynamics Division Seminar, National Aerospace Laboratory, Chofu, Tokyo, Japan, July 26, 1993.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, University of Tsukuba, Ibaraki, Japan, July 27, 1993.

"Thermal Conductance of Coatings for I.C. Engine Applications," Materials Research Laboratory Seminar, Nissan Research and Development Center, Yokosuka, Japan, July 29, 1993.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, Rice University, Houston, Texas, September 17, 1993.

"Aerospace Engineering Education: The Next Decade," Panel Presentation, SAE Aerotech 93, Costa Mesa, California, September 29, 1993.

"The Role of Accreditation in Engineering Education," College of Engineering Seminar, Roger Williams University, Bristol, Rhode Island, October 1, 1993.

"Count Rumford: Soldier, Statesman, Scientist," Sigma Xi Distinguished Scientist Lecture, Texas A&M University, College Station, Texas, November 10, 1993.

"Offshore Technology Education Programs," First South Pacific Regional Conference on Offshore Technology, University of Technology, Lae, Papua New Guinea, November 19, 1993.

"The Internationalization of Heat Transfer," Panel Presentation, ASME Winter Annual Meeting, New Orleans, Louisiana, December 1, 1993.

"The Thermal Contact Conductance of Coated Surfaces," Mechanical Engineering Seminar, Indian Institute of Science, Bangalore, India, January 3, 1994.

"Emerging Trends in Engineering Education," George Washington University Engineering Trustees Meeting, Washington, D.C., February 25, 1994.

"Seventy-Five Years of Progress," ASME South Texas Section Honors and Awards Banquet, Houston, Texas, April 21, 1994.

"Human Resource Development for Technology Development," Management Seminar, P.T. United Tractors, Jakarta, Indonesia, July 21, 1994.

"The Role of Accreditation in Engineering Education," Engineering Council of South Africa, Johannesburg, South Africa, October 17, 1994.

"The Role of Offshore Technology in the Pacific Rim," Asian Development Bank Briefing, Manila, Philippines. January 23, 1995.

"Engineering Futures," Panel Presentation, Tau Beta Pi Regional Conference, Austin, Texas, February 4, 1995.

"Aerospace Engineering: The Dilemma and the Opportunity," AIAA Student Section Annual Banquet, Texas A&M University, College Station, Texas, April 25, 1995.

"Count Rumford: Soldier, Statesman, Scientist," Pi Tau Sigma Spring Banquet, Mechanical Engineering Department, Texas

A&M University, College Station, Texas, April 26, 1995.

"Mechanical Engineering Education: The Dilemma and The Challenge" ASME North Texas Section Annual Honors and Awards Banquet, Dallas, Texas, May 11, 1995.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Currency Seminar, Texas Instruments Spring Lake Facility, Dallas, Texas, September 15, 1995.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Currency Seminar, Texas Instruments Lewisville Facility, Dallas, Texas, September 15, 1995.

"Globalization: A Case Study in Offshore technology," NSF/ERC Annual Meeting, Washington, D.C., October 23 -24, 1995.

"The Role of AIAA in the Space Enterprise," Strategic Avionics Technology Working Group - NASA/Industry National Workshop, Washington, D.C., October 24 - 26, 1995.

"International Program Review: Policies and Procedures," International Accreditation Panel, ABET Annual Meeting, Baltimore, Maryland, November 1 - 4, 1995.

"Accreditation Policies and Practices in the United States," Hong Kong Institution of Engineers Accreditation Seminar, Hong Kong, November 18, 1995.

"Recent Developments in Thermal Contact Conductance," Center for Energy Systems Research, Mechanical Engineering Department, Arizona State University, Tempe, Arizona, February 16, 1996.

"The Role of AIAA in the Space Enterprise," AIAA Phoenix Section Engineers Week Meeting, Phoenix, Arizona, February 17, 1996.

"The Role of Accreditation in Engineering Education," Engineering Seminar, American University in Cairo, Cairo, Egypt, March 10, 1996.

"ABET and HKIE Engineering Accreditation Criteria: A Comparative Review," HKIE Accreditation Seminar, Hong Kong, March 16, 1996.

"AIAA and the Space Enterprise," AIAA Vandenberg Section 30th Anniversary Banquet, Lompoc, California, March 23, 1996.

"A Time for Change: Aerospace Engineering Education for the Next Century," Faculty of Aerospace Engineering Workshop, Delft University of Technology, Delft, The Netherlands, May 21, 1996.

"The Role of Accreditation in Engineering Education," Faculty of Electrical Engineering Seminar, Delft University of Technology, Delft, The Netherlands, May 22, 1996.

"The Role of Accreditation in Engineering Education," College of Engineering Seminar, University of Central Florida, Orlando, Florida, September 20, 1996.

"The Role of Accreditation in Engineering Education," College of Engineering Seminar, Florida International University, Miami, Florida, September 27, 1996.

"Thermal Contact Conductance of Standard Electronic Modules," Mechanical Engineering Seminar, University of Nevada - Las Vegas, Nevada, October 3, 1996.

"The Role of the Education Coordinator in NSF Engineering Research Centers," NSF/ERC Annual Meeting, Washington, DC, October 29, 1996.

"Recent Developments in Thermal Contact Conductance," Thermal Sciences Seminar, Sandia National Laboratory, Albuquerque, New Mexico, December 2, 1996.

"The Thermal Contact Conductance of Coatings and Films," Keynote Address, Sixth Australasian Heat and Mass Transfer Conference, Sydney, Australia, December 11, 1996.

"Thermal Contact Conductance Problems in the Petroleum Industries," Panel Presentation, Energy Week Conference & Exhibition, George R. Brown Convention Center, Houston, Texas, January 28, 1997.

"Standards for Space Systems: At The Cross Road," Keynote Address, AIAA Strategic Standards Workshop, Washington, D.C., March 4, 1997.

"ABET Assessment of International Engineering Education Programs," Panel Presentation, ASME Mechanical Engineering Department Heads Conference, San Diego, California March 19 - 21, 1997.

"Mechanical Engineering Education for the 21st Century," Commencement Address, Polytechnic University of Catalonia (ETSEIT), Barcelona, Spain, April 16, 1997.

"Engineering and Your Future," Banquet Address, Tau Beta Pi, Texas A&M University, College Station, Texas, April 27, 1997.

"The Role of Accreditation in Engineering Education," California Maritime Institute, Vallejo, California, August 29, 1997.

"Thermal Contact Conductance of Electronic Modules," Engineering Seminar, Trinity University, San Antonio, Texas, September 28, 1997.

"The Education of Aerospace Engineers for the Next Century," AIDAA/IAF Panel on International Aerospace Engineering Education, 48th Congress of the International Astronautical Federation, Turin, Italy, October 10, 1997.

"The ABET Accreditation Process," ABET Workshop on Engineering Education Accreditation Systems Development, ABET Annual Meeting, Washington, D.C., October 26, 1997.

"International Substantial Equivalency Visits," ABET International Evaluator Training Program, ABET Annual Meeting, Washington, D.C., October 29, 1997.

"The ERC Education Coordinator: Challenges and Opportunities," NSF ERC Annual Meeting, Washington, D.C., November 2, 1997.

"The Role of Accreditation in Engineering Education," Engineering Seminar, Rowan University, Trenton, New Jersey, December 3, 1997.

"Mechanical Engineering Education for the 21st Century," School of Sciences and Engineering Seminar, American University in Cairo, Cairo, Egypt, March 15, 1998.

"The Role of Accreditation and Evaluation in Engineering Education," School of Sciences and Engineering Seminar, American University in Cairo, Cairo, Egypt, March 16, 1998.

"Experimental Techniques for Thermal Contact Resistance Measurements," School of Sciences and Engineering Seminar, American University in Cairo, Cairo, Egypt, March 17, 1998.

"Thermal Control in Avionics Systems," School of Sciences and Engineering Seminar, American University in Cairo, Cairo, Egypt, March 19, 1998.

"Thermal Control in Electronics Systems," Mechanical Engineering Seminar, Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong, March 23, 1998.

"Thermal Contact Resistance in Heat Exchangers," Dinner Address, Houston Process Heat Exchange Society, Houston, Texas, April 22, 1998.

"A New Approach to Engineering Education: Engineering Criteria 2000," College of Engineering Seminar, University of Central Florida, Orlando, Florida, October 2, 1998.

"The Role of Accreditation and Evaluation in Engineering Education," Mechanical Engineering Seminar, University of California - Riverside, Riverside, California, October 12, 1998.

"A Review of HKIE Accreditation Criteria for Engineering Education Programs," HKIE Seminar, Hong Kong Institution of Engineers, Hong Kong, October 20, 1998.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, Clemson University, Clemson, South Carolina, November 13, 1998.

"A New Approach to Engineering Education: Engineering Criteria 2000," Seminar, Agencia per a la Qualitat del Sistema Universitari a Catalunya, Barcelona, Spain, December 2, 1998.

"The Role of Accreditation in Quality Education Programs," Institute Seminar, Institut de Ciències de l'Educació, Universitat Politècnica de Catalunya, Barcelona, Spain, December 2, 1998.

"Mechanical Engineering Education for the 21st Century," Plenary Address, XIII Congreso Nacional de Ingeniería Mecánica, Terrassa, Spain, December 3, 1998.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, Universidade Federal do Rio de Janeiro, Brazil, December 15, 1998.

"Recent Developments in Thermal Contact Conductance," Mechanical Engineering Seminar, Universidade Federal de Santa Catarina, Brazil, December 17, 1998.

"Industrial Engineering for the 21st Century," Symposium on Industrial Engineering, Unitech, Tegucigalpa, Honduras, February 19, 1999.

"A Review of HKIE Accreditation Criteria for Engineering Education Programs," HKIE Seminar, Hong Kong Institution of Engineers, Hong Kong, September 20, 1999.

"The Role of Evaluation and Accreditation in Engineering Education," Keynote Address, Symposium on Assessment of Engineering and Technical Education in Saudi Arabia, Dhahran, Saudi Arabia, November 23, 1999.

"Aerospace Heat Transfer: Issues and Goals," Aerospace and Mechanical Engineering Colloquium, San Diego State University, San Diego, California, April 5, 2001.

"Aerospace Heat Transfer Issues in 2001," Mechanical Engineering Department Seminar, University of Nevada, Las Vegas, Nevada, April 26, 2001.

"The Design of the Mars Airplane," Rancho High School Program, Las Vegas, Nevada, April 26, 2001.

"The Role of Evaluation and Accreditation in Engineering Education," School of Engineering Seminar, American University of Sharjah, United Arab Emirates, May 29, 2001.

"Thin-Film Insulation and Thermal Contact Conductance Between Material Layers," Tenmar, Inc./Paragon Engineering, Houston, Texas, June 22, 2001.

"The History of Heat Transfer," Engineering and Technology Management Session, International Mechanical Engineering Congress and Exposition, New York, New York, November 12, 2001.

"A Mission to Mars," Distinguished Public Lecture, Hong Kong Polytechnic University, Hong Kong, May 22, 2002.

"Aerospace Heat Transfer Issues," Mechanical Engineering Seminar, Hong Kong Polytechnic University, Hong Kong, May 23, 2002.

"The Role of Evaluation and Accreditation in Engineering Education," Mechanical Engineering Luncheon Address, Pontificia Universidad Católica de Chile, November 12, 2002.

“Implementing Change in ASME,” Panel Presentation, ASME Modern History Centennial Retrospection Round Table, ASME International Mechanical Engineering Congress and Exposition, New Orleans, Louisiana, November 17, 2002.

“What does the Future Hold?” College of Engineering Honors Convocation, University of Nevada, Las Vegas, Nevada, April 8, 2003.

“NASA Ames Research Center and the Future,” Pi Tau Sigma Banquet, Mechanical Engineering Department, Texas A&M University, College Station, Texas, April 24, 2003.

“Picture Your Future,” Commencement Address, College of Engineering, Arizona State University, Tempe, Arizona, May 16, 2003.

“The Role of Evaluation and Accreditation in Engineering Education,” Mechanical Engineering Luncheon Address, United Arab Emirates University, Al Ain, Abu Dhabi, UAE, October 12, 2003.

“Aerospace Heat Transfer Issues,” Aerospace Engineering Seminar, San Diego State University, San Diego, California, April 8, 2004.

“The Role of Evaluation and Accreditation in Engineering Education,” Engineering Seminar, Board of Engineers - Malaysia, Kuala Lumpur, Malaysia, July 8, 2004.

“The Role of Evaluation and Accreditation in Engineering Education,” Engineering Seminar, Board of Engineers - Malaysia, Johor-Bahru, Malaysia, December 5, 2005.

“The Role of Evaluation and Accreditation in Engineering Education,” Mechanical Engineering Luncheon Address, United Arab Emirates University, The Petroleum Institute, Abu Dhabi, UAE, December 11, 2005.

“The Role of Evaluation and Accreditation in Engineering Education,” Engineering Seminar, Accreditation Board for Engineering Education in Korea (ABEEK), Seoul, Korea, November 30, 2006.

“The Role of Evaluation and Accreditation in Engineering Education,” Engineering Luncheon Address, Petroleum Institute of Abu Dhabi, UAE, December 8, 2006.

“Count Rumford: Soldier, Statesman, Scientist,” Mechanical Engineering Seminar, Tufts University, February 1, 2007.

“Engineering Education in the Gulf Region,” School of Engineering Seminar, American University of Sharjah, Sharjah, UAE, February 7, 2007.

“Engineering Education in Transition,” Keynote Address, ICEET International Conference, Kuwait City, Kuwait, April 8, 2007.

“Engineering Education – Dilemma and Challenge,” Keynote Address, Fourth IEEE-GCC Conference & Exhibition, Towards Techno-Industrial Innovations, Manama, Kingdom of Bahrain, November 14, 2007.

“The Washington Accord: Engineering Education Assessment Procedures,” Board of Engineers Malaysia, Shah Alam, Malaysia, December 2, 2007

“Accreditation of Engineering Education Programs in the Unites States,” Engineering Seminar, BITS Pilani University, Dubai, UAE, December 16, 2007.

“Engineering Education in Transition,” School of Engineering Seminar, Pontificia Universidad Católica de Chile, Santiago, Chile, January 16, 2008

“Engineering Education in the Gulf Region,” Institute Seminar, The Petroleum Institute, Abu Dhabi, UAE, April 6, 2008.

“Attracting Professionals from other Disciplines into Aerospace Careers,” Panel Presentation, Working Together to Build the Aerospace Workforce of Tomorrow, AIAA Annual Meeting, Washington, DC, May 13, 2008.

"Engineering Education in Transition," College of Engineering Seminar, Hong Kong University of Science and Technology, Kowloon, Hong Kong, June 17, 2008.

"Outcomes-Based Accreditation of Engineering Programmes," Keynote Address, UGC Symposium on Outcomes-Based Approaches in Student Learning - Quality Education, Quality Outcomes: The Way Forward for Hong Kong", Hong Kong Polytechnic University, Kowloon, Hong Kong, June 18, 2008.

"The Role of Engineering Education in Technological Development," Keynote Address, 2nd Saudi Engineering Forum, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, March 29, 2009.

"Outcomes Based Accreditation of Engineering Programs," College of Engineering Seminar, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, March 30, 2009.

"The Role of Engineering Education in Technological Development," College of Engineering Seminar, King Faisal University, Dammam, Saudi Arabia, March 31, 2009.

"Current Engineering Education Issues and Accreditation", Keynote Address, Symposium on Engineering Education 2009, UAE University, Al Ain, Abu Dhabi, UAE, May 17, 2009

"Outcomes Based Accreditation of Engineering Programs," Accreditation Workshop, Symposium on Engineering Education 2009, UAE University, Al Ain, Abu Dhabi, UAE, May 18, 2009.

"Outcomes Based Accreditation of Engineering Programs," Institute Seminar, The Petroleum Institute, Abu Dhabi, UAE, May 21, 2009.

"NASA Ames Research Center/AIAA Historic Site Dedication," NASA Ames Research Center, Moffett Field, California, August 2, 2009

"Engineering Education in Transition ", Distinguished Lecture Series, Texas A&M University at Qatar, Doha, Qatar, October 20, 2009

The Role of Thermal Contact Conductance in Engineering Analysis," Southwest Research Institute Seminar, San Antonio, Texas, October 27, 2009.

Panel Presentation, "Innovations in Aerospace Technology," Conrad Foundation Innovation Summit Program, NASA Ames Research Center, Moffett Field, CA April 9, 2010

"Engineering Education Competition" University Seminar, University of Technology, Lae Papua New Guinea, August 5, 2010

"Engineering Accreditation in the United States," Mechanical Engineering Seminar, University of Technology, Lae, Papua New Guinea, August 6, 2010.

"Engineering Education in Transition," University Seminar, Hong Kong Polytechnic University, Hong Kong, February 3, 2012

"The Role of Basic Sciences and Mathematics in Engineering Curricula," Engineering Faculty Seminar, Hong Kong Polytechnic University, Hong Kong, March 9, 2012.

"Engineering Education in Transition," Mechanical and Industrial Engineering Seminar, Sultan Qaboos University, Muscat, Oman, May 12, 2012.

"The ABET Accreditation Process," College of Engineering Seminar, Sultan Qaboos University, Muscat, Oman, May 16, 2012.

"The ABET Accreditation Process," College of Engineering Seminar, PNG University of Technology, Lae, Papua New Guinea, August 24, 2013..

“Engineering Education in Papua New Guinea,” PNG Ministry of Education. Port Moresby, Papua New Guinea, August 30, 2013.

“The Role of Materials in Contact Resistance”, College of Engineering Seminar, Naval Postgraduate School, Monterey, California, April 24, 2014.

“Engineering Education: The Dilemma and the Challenge”, Worcester Polytechnic University, College of Engineering Seminar, Worcester, Massachusetts, May 5, 2015.

Research Programs (Principal Investigator/Project Director):

"Closed Circuit Television Facilities for the Mechanical and Aerospace Engineering Department," Rutgers University, NSF Institutional Scientific Equipment Program, \$6,800, January 1, 1969-December 31, 1971.

"Thermal Resistance of Metallic Junctions," Rutgers University Research Council, \$4,170, March 1, 1970-August 31, 1974.

"An Experimental Investigation of the Evaporation and Condensation Film Coefficients in Horizontal Tubes for HTME Applications," (with V. Sernas), U.S. Department of Interior, Office of Saline Water, \$56,676, June 1, 1971-August 31, 1972.

"Analysis of Resonance Tubes," (with Przirembel, C.E.G.), U.S. Army - Picatinny Arsenal, \$22,842, May 1, 1973-June 30, 1974.

"Supplementary Closed Circuit Television Facilities for the Mechanical and Aerospace Engineering Department," Rutgers University, NSF Instructional Scientific Equipment Program, \$36,200, June 1, 1973-May 30, 1975.

"An Experimental and Analytical Investigation of Heat Transfer to Thin Water Films on Horizontal Tubes," NSF Grant, \$39,000, January 1, 1975-July 1977.

"Evaluation of Energy Use in Charlottesville, Schools and Public Buildings," HUD-City of Charlottesville Urban Observatory, \$20,000, April 1, 1977-December 31, 1977.

"Evaluation of Energy Use and the Energy Use Reporting Systems in Virginia State Agencies and Institutions," Commonwealth of Virginia, \$30,000, June 1, 1978-June 30, 1980.

"Evaluation of Energy Use in Albemarle County Public Buildings and Facilities," Albemarle County, \$15,000, April 1, 1978-June 30, 1980.

"An Experimental and Innovative Training Project: A Rehabilitation Engineering Graduate Trainee-ship Program," (with Thacker, J. G.), HEW-RSA, \$519,200, February 1, 1979-January 30, 1984.

"An Energy Audit and Consumption Evaluation of Virginia Public Buildings," (with Scott, T.), DOE-Commonwealth of Virginia, \$210,000, April 1, 1979-August 30, 1980.

"Analysis of Thermal Conductance of Dissimilar Metal Contacts," NSF, \$75,000, April 1979-January 1983.

"Fourteenth International Symposium on Space Technology and Science," Tokyo, Japan, NSF, \$2,000, May 28-June 2, 1984.

"Heat Transfer in Thermal Systems Seminar - Phase II," NSF, Taipei, Taiwan, \$25,000, January 5-18, 1986.

"Effective Thermal Conductivity of Laminated and Composite Materials for Electric Discharge Machining," (with Peterson, G. P.), AGIE Corporation, Locarno, Switzerland, \$24,785, June 1, 1986-December 31, 1986.

"Scholarly Research in Aerospace Power," (with D. B. Patton), USAF WPAFB Aerospace Power Division, \$2,107,254, February 1986-February 1990.

"Engineering Research Experience for Women and Minority Undergraduates," NSF, \$40,000, June 1, 1987-November 30, 1988.

"Improving Thermal Contact Conductance Through Use of Thin Metallic Coatings," (with G. P. Peterson), NASA, \$44,726, February 21, 1988-February 20, 1989.

"Colombian Petroleum Institute Educational and Technical Assistance Program - Phases I and II," (with Von Gonten, D.), ECOPETROL, \$307,794, March 1, 1988-December 31, 1989.

"Engineering Research Experience for Women and Minority Undergraduates," NSF, \$80,000, March 1, 1988-February 28, 1990.

"Improving the Performance and Reliability of Microelectronic Devices Through Enhanced Thermal Control," (with G. P. Peterson), Texas Advanced Technology Program, \$218,500, May 1, 1988-August 31, 1990.

"Thermal Contact Conductance and Conductivity of Anodized Coatings," (with G. P. Peterson), IBM Corporation, Austin, \$10,000, April 1-October 1, 1988.

"Thermal Conductivity Measurement Facility," (with G. P. Peterson), Department of Energy Used Equipment Grant, \$20,544, August 1988.

"High Vacuum Test Chamber," (with G. P. Peterson), Department of Energy Used Equipment Grant, \$19,620, December 1988.

"Technology Business Development Internship Program," Colombian Petroleum Institute/ECOPETROL, \$24,764, September 1, 1988-May 31, 1989.

"High Vacuum Pumping System," (with G. P. Peterson), Department of Energy Used Equipment Grant, \$23,843, July, 1989.

"Thermal Contact Conductance of Finned Interfaces", (with G. P. Peterson), Foster-Miller Corp., \$1,500, May 1989-June 1989.

"Texas Drying Research Consortium," (with Seyed-Yagoobi, J., and Page, R. H.), Texas Energy Research and Applications Program, \$538,109, June 1, 1989-May 31, 1993.

"Determination of the Thermal Contact Conductance and Adhesion Characteristics of Cold Plate Thermal Test Pads," (with G. P. Peterson), Rockwell Corporation, \$98,000, July 3, 1989-January 30, 1990.

"Surface Measurement Facilities" (with G. P. Peterson) Department of Energy Used Equipment Grant, \$52,906, September, 1989.

"Innovative Concepts for Energy Efficient Industrial Processes" (with Peterson, G. P., and Seyed-Yagoobi, J.) Texas Advanced Technology Programs, \$120,000, November 1989-December 1991.

"Thermal Contact Conductance through Layers of Aluminum Alloys", (with Peterson, G. P.), Alcoa Research and Development, \$10,000, December 1989-December 1990.

"Thermal Contact Conductance of Linerboard," (with Peterson, G. P., and Seyed-Yagoobi, J.), Beloit Corporation, \$30,000, January 1, 1990 - December 30, 1991.

"Thermal Conductance of Diamond Coated Thermal Test Pads", (with Peterson, G. P.), EER, \$24,000, February 1, 1990 - August 31, 1990.

"Engineering Research Experience for Women and Minority Undergraduates", NSF, \$42,500, May 1, 1990 - April 30, 1991.

"Engineering Research Experience in Offshore Technology", (with Flipse, J. E.), NSF, \$28,500, May 1, 1990 - April 30, 1991.

"Thermal Enhancement Techniques for SEM Guide Ribs/Card Rails," (with Peterson, G. P.), U.S. Office of Naval Research, \$343,000, December 1990 - December 1993.

"Thermal Characteristics of Space Battery Materials," TEES/Center for Space Power, \$7,000, January 1991 - December 1991.

"Engineering Research Experience for Women and Minority Undergraduates," (with Turner, W. D.) Texas Education Association, \$35,500, December 1, 1990 - August 31, 1991.

"Engineering Research Experience for Women and Minority Undergraduates," NSF, \$85,000, June 1, 1991 - May 30, 1993.

"Engineering Research Experience in Offshore Technology", (with Flipse, J. E.), NSF, \$36,000, May 1, 1991 - April 30, 1992.

"Measurements of the Thermal Conductivity of Printed Circuit Boards," IBM, \$27,000, June 1, 1991 - December 31, 1992.

"An Assessment of the Research Experience for Undergraduates (REU) Program in Engineering," NSF, \$69,145, September 1, 1991 - December 31, 1992.

"An Investigation of Thermal Enhancement Techniques for Navy SEM Guide Ribs and Card Rails," TEES/Center for Space Power, \$110,556, December 1, 1991 - November 30, 1993.

"Engineering Research Experience in Offshore Technology," (with Seymour, R. J.), NSF, \$55,000, May 1, 1992-April 30, 1992.

"Engineering Awareness Program in Offshore Technology for High Potential High School Students," (with Seymour, R. J.), NSF, \$90,000, May 1, 1992 - April 30, 1994.

"REU Engineering Ethics Component," NSF REU Supplement, \$19,000, May 1, 1992 - May 30, 1996.

"An Assessment of U.S.-Germany Cooperative Programs in Mechanical Engineering," (with Page, R. H.), NSF, \$44,607, January 1, 1992 - December 31, 1992.

"An Asian Pacific Economic Cooperation (APEC) Partnership between The Offshore Technology Research Center (TAMU/UT) and Institut Teknologi Bandung (ITB) Indonesia," (with Seymour, R. J.), NSF/AID, \$100,000, October 1, 1992 - September 30, 1996.

"An Asian Pacific Economic Cooperation (APEC) Partnership between The Offshore Technology Research Center (TAMU/UT) and The Papua New Guinea University of Technology (UNITECH)," (with Seymour, R. J.), NSF/AID, \$100,000, October 1, 1992 - September 30, 1997.

"Engineering Research Experience in Offshore Technology for Undergraduates," (with Seymour, R. J.), NSF, \$157,500, June 1, 1993 - May 31, 1997.

"Engineering Research Experience for Women and Minority Undergraduates," NSF, \$164,000, June 1, 1993 - May 31, 1996.

"Offshore Technology Outreach Program with Prairie View A&M University," (with Seymour, R. J.), NSF, \$150,000, December 1, 1993 - November 30, 1996.

"Engineering Awareness Program in Offshore Technology for High Potential High School Students," (with Seymour, R. J.), NSF, \$90,000, May 1, 1994 - April 30, 1996.

"An Investigation of the Thermal Contact Resistance of SEM E Guide Ribs and Card Rails," ONT/NSWC-Crane, \$99,000, September 7, 1994 - September 6, 1996.

"APEC Workshop on Offshore Technology," APEC/USAID, \$ 57,457, December 1, 1994 - December 31, 1995.

"A Technical/Market Assessment of Heat Exchanger Technology," (with Andrews, M. J.), Heat Transfer Research, Inc., \$105,000, January 1, 1995 - December 31, 1996.

"An Investigation of the Thermal Contact Resistance of SEM E Guide Ribs and Card Rails," DOD/ONR/ASSERT, \$185,900, July 1, 1995 - June 30, 1998.

"Engineering Research Experience in Offshore Technology for Technology Students," (with Seymour, R. J.), NSF, \$210,000, January 1995 - May 2000.

"Experimental Determination of Thermal Conductivity for Selected Materials," ONR-NSWC-China Lake, \$2,400, January 1, 1995 - December 30, 1995.

"Thermal Conductivity/Thermal Conductance of Microelectronic Adhesive Materials," Texas Instruments, \$25,000, May 1, 1995 - December 31, 1996.

"Thermal Enhancement of Standard Electronic Modules," Rockwell International, \$80,000, September 1, 1995 - August 31, 1997.

"New Technology Development for Shell-and-Tube Heat Exchangers," (with Andrews, M. J.), Texas Advanced Technology Program, \$146,358, November 1995 - October 1997.

"An Engineering Awareness Program in Offshore Technology for High Potential High School Students," (with Roessett, J.), NSF, \$125,841, December 1, 1995 - April 30, 1999.

"Engineering Research in Offshore Technology for Undergraduates," (with Roessett, J. M.), NSF, \$169,500, May 1, 1996 - April 30, 1999.

"Engineering Research Experience in Offshore Technology for Graduate Students," (with Roessett, J. M.), NSF, \$150,484, June 1, 1997 - May 31, 2001.

"Joint Thermal Conductance of Vapor Deposited Coatings and Low Pressure Contacts," (with Madhusudana, C. V.),

Australian Research Council, A\$120,000, 1/95 - 12/98.

"Egyptian Channel System PhD Program," El-Menia University, Egyptian Consulate, Washington, D.C., \$18,000, 10/97 - 8/99.

"Thermal Contact Conductance of Ceramic Crystals for Secondary Solar Collectors," TEES CSP/NASA Lewis, \$34,500, 9/97 - 5/99.

"High Thermal Conductivity Dielectric Material Literature Search," Texas Instruments, \$9,000, 9/96 - 1/97.

"Ruhr University Graduate Student Exchange Program," DAAD, Bochum, Germany, \$97,000, 1/98 - 12/04.

"Educational Assistance and Senior Engineering Leadership for the American University of Sharjah," Emirate of Sharjah, United Arab Emirates, \$3,534,943, 9/98 - 8/04.

"Effective Thermal Conductivity of Polymeric Materials," 3M Corporation, \$10,000, 6/98 - 12/05.

"Thermal Conductivity/Thermal Contact Conductance Testing Agreements," \$216,000, 9/96 - 12/09.

"Intergovernmental Personnel Act Agreement," NASA Ames Research Center, \$1,055,953, 2/99 – 8/05.

"Thermal Conductance of an Interstitially Insulated Pipe," OTRC Marine Mineral Service, Marotta and Fletcher, \$78,000, 7/04-6/06.

"Thermal Barrier Coatings for Deep Water Offshore Pipelines", FMC Technologies, Inc., Fletcher, \$13,500, 9/2011 – 8/2016