GRADUATE STUDENT THESES AND DISSERTATIONS

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Tarson, S. HL 49-1	1949		Fontaine, W.E.	Short Time Stress Rupture Characteristics of Various Steels in a High Temperature Steam Atmosphere
Carley, Harold J. HL 56-3	1956	MSME	Fontaine, W.E./ Witzell, O.W.	A Study of Wire and Tube Heat Exchangers
Howard, W. H. HL 56-2	1956	MSME	Fontaine, W.E./ Witzell, O.W.	A Study of Wire and Tube Heat Exchangers
Rudy, William J. HL 56-1	1956	MSME	Fontaine, W.E.	A Study of Wire and Tube Heat Exchangers
Holman, J.L. Monte HL 57-3	1957	MSME	Witzell, O.W.	The Effect of a Variable Diameter Flow Orifice on the Performance of a Refrigeration System
Stein, R.J. HL 57-4	1957	MSME	Fontaine, W.E./ Witzell, O.W.	The Removal of Ice from Metal Surfaces
McCullum, R.G. HL 58-10	1958	MSME	Witzell, O.W.	High Temperature Viscosity Measurements of Fluorinated Hydrocarbon Compounds in the Vapor Phase
Papanek, W.J. HL 58-12	1958	MSME	Witzell, O.W.	Convective Film Coefficients for a Wire and Tube Heat Exchanger
Wensley, R. James HL 58-11	1958	MSME	Witzell, O.W.	An Apparatus for the Determination of the Viscosity of Refrigerants in the Liquid Phase
Ahlbeck., D.R. HL 59-2	1959	MSME	Wellman, E.J.	An Investigation of Acoustical Systems by Electrical Analog Methods
Cassady, R.W. HL 59-6	1959	MSME	Fontaine, W.E.	The Techniques of Obtaining Internal Temperatures and a Temperature Profile of a Hermetic Compressor
Dahlen, Rolf J. HL 59-9	1959	MSME	Fontaine, W.E.	Climate Control with Air Source Heat Pump
Giffels, Donald J. HL 59-5	1959	MSME	Fontaine, W.E.	Performance Characteristics of Air Source Heat Pump
Roschke, E. John HL 59-3	1959	Ph.D.	Binder, R.C.	Periodic Flux Flow in Rigid and Flexible Bodies
Tsui, Chung Y. HL 59-8	1959	MSME	Wellman, E.J.	Viscosity Measurements for Several Fluorinated Hydrocarbon Vapors at Elevated Temperatures and Pressures
Ulrich, Richard D. HL 59-7	1959	Ph.D.	Fontaine, W.E.	A Study of Fluid Flow Through Flexible Orifices
Vigander, Sven HL 59-4	1959	MSME	Binder, R.C.	On the Use of Resonators as an Acoustic Muffler in Fluid Flow Machinery
Wildin, Maurice W. HL 59-10	1959	MSME	Wellman, E.J.	A Study of Dehumidification in Forced Turbulent Flow

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Barnes, G.J. HL 60-5	1960	MSME	Agnew, J.T.	Inflammability Limits of Dichlorofluoromethane-Oxygen-Hydrogen Mixtures as a Function of Initial Temperature and Pressure
Driftmyer, R.T. HL 60-8	1960	MSME	Agnew, J.T.	Explosions in Water Cooled Refrigeration Systems Equipped with a Hermetic Compressor
Houghton, Arthur V. HL 60-7	1960	Ph.D.	Witzell, O.W.	Discriminatory Optical Thermal Properties of Solids with Respect to Wavelength and Wavefront
Oberjohn, William J. HL 60-3	1960	MSME	Fontaine, W.E.	Some Design Criteria for a Finned Tube Heat Exchanger Under Natural Convection
Robinson, Charles J. HL 60-4	1960	MSME	Fontaine, W.E.	Measurement of Natural Convection Heat Transfer Coefficients for a Finned Tube Heat Exchanger
Stene, John K. HL 60-6	1960	Ph.D.	Fontaine, W.E.	A Discussion of Some Strength Characteristics of Ice at the Interface
Warner, Donald B. HL 60-9	1960	MSME	Chaddock, J.B.	Relation of Heat and Mass Transfer Coefficients in Tube Banks
Collicott, Howard E. HL 61-10	1961	Ph.D.	Fontaine, W.E.	Radiation and Free Convection Studies of Wire and Tube Heat Exchangers
Johnston, Roy C. HL 61-8	1961	MSME	Chaddock, J.B.	Radiative Heat Transfer from Finned Tube Heat Exchangers
Lowery, Richard L. HL 61-6	1961	Ph.D.	Cohen, R.	High Speed Compressor Valve Noise and Vibration Studies
Powell, C. Kendrick HL 61-9	1961	MSME	Chaddock, J.B.	Condensation Inside a Horizontal Tube with High Vapor Velocity
Siegla, Donald C. HL 61-11	1961	MSME	Chaddock, J.B.	Two-Phase Flow as Related to Condensation Processes
Wilbers, Ollie J. HL 61-7	1961	MSME	Witzell, O.W.	Viscosity Measurements for Several Fluorinated Hydrocarbon Vapors
Ansari, J.S. HL 62-12	1962	MSME	Chaddock, J.B.	Heat Exchanger Optimization Study for a Heat Pump Water Heater
Dahlen, Rolf J. HL 62-14	1962	Ph.D.	Chaddock, J.B.	A Relation Between Heat and Mass Transfer Coefficients Verified for Adiabatic Evaporation from a Cylinder
Edwards, John A. HL 62-11	1962	Ph.D.	Chaddock, J.B.	Free Convection and Radiation Heat Transfer from Fin-On-Tube Heat Exchangers
Ross, Phillip T. HL 62-15	1962	MSME	Chaddock, J.B.	A Study of the Effect of Clearance Volume on the Pumping Capacity and Efficiency of a Heat Pump Water Heater Compressor
Stoecker, W.F. HL 62-13	1962	Ph.D.	Chaddock, J.B.	Transient Behavior of Thermo-electric Refrigerators Under Step Changes in Current

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Cadman, Richard V. HL 63-24	1963	MSME	Cohen, R.	Measurement Techniques for Determining Reed Valve Oscillations
Cook, Gordon D. HL 63-25	1963	MSME	Dixon, J.R.	Environmental Effects of Plant Leaf Temperature
Dedelow, James R. HL 63-12	1963	MSME	Dixon, J.R.	A Study of a Freon Gas Lubricated Hydrostatic Thrust Bearing
Deible, Richard W. HL 63-13	1963	MSME	Dixon, J.R.	A Numerical Solution to an Inverse Heat Conduction Problem with Phase Change in a Semi-Infinite Slab
Ditzler, John W. HL 63-23	1963	MSME	Chaddock, J.B.	Forced Convection Boiling of Refrigerants in an Internally-Finned Horizontal Tube
Gluck, Rafael HL 63-8	1963	Ph.D.	Cohen, R.	Fatigue Life Index Criteria for Compressor Leaf Valve Design (Development of Fatigue Life Index as a Criterion for Evaluating Compressor Leaf Design)
Johnston, Roy C. HL 63-18	1963	Ph.D.	Chaddock, J.B.	Heat Transfer and Pressure Drop of Refrigerants Evaporating in Horizontal Tubes
McMillan, Harry K. HL 63-17	1963	Ph.D.	Fontaine, W.E.	A Study of Flow Patterns and Pressure Drop in Horizontal Two-Phase Flow
Meyer, Donald H. HL 63-19	1963	MSE	Fontaine, W.E.	The Viscosity of Superheated Steam at 400 F from One Atmosphere to Saturation Pressure
Oh, Hilario L. HL 63-22	1963	MSME	Cohen, R.	Dynamic Strains on a High Speed Compressor Discharge Valve
Pottinger, Marion G. HL 63-14	1963	MSME	Cohen, R.	Pressure Oscillations in the Exhaust Chamber of a Refrigeration Compressor
Powell, C. Kendrick HL 63-21	1963	Ph.D.	Chaddock, J.B.	The Motion of Algae in Turbulent Flow
Riley, Vincent J. HL 63-15	1963	MSME	Witzell, O.W.	The Viscosity of Liquid "Freon-11" and "Freon-22" at Temperatures to 110 C
Siegla, Donald C. HL 63-11	1963	Ph.D.	Chaddock, J.B.	Temperature Distribution and Heat Losses Within a Thermoelectric Module
Simpson, Jr., F. M. HL 63-20	1963	MSME	Chaddock, J.B.	Heat Transfer to an Air Stream in a Rotating, Hollow, Airfoil Shaped Blade
Ukrainetz, Paul R. HL 63-7	1963	Ph.D.	Cohen, R.	Compressor Valve Stress Studies in Conjunction with Accelerated Life Tests
Waterman, W.F. HL 63-16	1963	MS	Chaddock, J.B.	A Study of a Rotating Blade Heat Exchanger
Zinsmeister, George E. HL 63-4	1963	MSME	Fontaine, W.E.	Some Considerations in the Control of Environment in Fallout Shelters
Helfinstine, Robert A. HL 64-4	1964	MSME	Dixon, J.R.	The Convective Heat Transfer Coefficient of Blood

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Reams, L.A. HL 64-5	1964	MSME	Chaddock, J.B.	Heat Transfer to an Air Stream from an Airfoil Shaped Centrifugal Blower Blade
Del Bene, J.V. HL 65-18	1965	Ph.D.	Chaddock, J.B.	Stability Theory Applied to Wave Formation in a Parallel Gas-Liquid Flow
Eisele, III, Edward H. HL 65-21	1965	MSME	Fontaine, W.E.	The Determination of the Dynamic Viscosity of Several "Freon" Compounds at Temperatures in the Range, 200 F to -200 F
Hilton, Bradford H. HL 65-23	1965	MSME	Hawkins, G.A./ Chaddock, J.B.	Optimization of the Periodic Flow Heat Exchanger
McKenzie, Robert T. B. HL 65-20	1965	MSME	Chaddock, J.B.	Flow Characteristics of Solenoid Valves
Noerager, J.A. HL 65-22	1965	MSME	Chaddock, J.B.	Forced Convection Boiling of Refrigerants in Horizontal Tubes
Waterman, W.F. HL 65-19	1965	Ph.D.	Chaddock, J.B.	The Determination of Local Heat Transfer Coefficients on a Rotating Flat Blade
Coates, Donald A. HL 66-31	1966	MS	Cohen, R.	Design and Digital Computer Simulation of a Reciprocating Free Piston Electrodynamic Gas Compressor
Doige, Allan G. HL 66-25	1966	Ph.D.	Cohen, R.	A Stress and Vibration Analysis of a Leaf-Type Compressor Valve
Erth, Richard A. HL 66-26	1966	MSME	Hawkins, G.A./ Chaddock, J.B.	Tube Flow Polymers
Faulkner, Lynn L. HL 66-33	1966	MSME	Hamilton, J.F.	Stress Concentration in Refrigeration Compressor Crankshafts
Griebe, Roger W. HL 66-28	1966	MSME	Winter, E.R.F.	Performance Parameters of Thermodynamic Cycles
Michaud, Eugene R. HL 66-12	1966	MSME	Chaddock, J.B.	Forced Convection Boiling of Refrigerants in Horizontal Tubes
Otte, Allen A. HL 66-29	1966	MSME	Chaddock, J.B.	Two-Phase Flow Characteristics of Ammonia-Water Solutions in a Horizontal Tube
Pottinger, Marion G. HL 66-32	1966	Ph.D.	Cohen, R.	An Approach Using Photostress to the Plane Stress Problem of the Narrow Faced Spur Gear Tooth
Ramsey, James R.	1966	MSME	Chaddock, J.B.	Non-thesis. Research Study of Solenoid Valves
Schult, Thomas H. HL 66-27	1966	MSME	Chaddock, J.B.	Free Convection Heat Transfer from Vertical Rectangular Fin Arrays
Wambsganss, Martin W. HL 66-24	1966	Ph.D.	Cohen, R.	Mathematical Modeling and Design Evaluation of High-Speed Reciprocating Compressors
Cadman, Richard V. HL 67-33	1967	Ph.D.	Cohen, R.	A Technique for the Design of Electrodynamic Oscillating Compressors

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Chanaud, Robert C. HL 67-34	1967	Ph.D.	Cohen, R.	Experimental Study of Aerodynamically Generated Sound Due to a Rotating Disk
Gatley, William S. HL 67-26	1967	Ph.D.	Cohen, R.	Development and Evaluation of Methods for Design of Mufflers in Small Refrigeration Systems
Helfinstine, Robert A. HL 67-28	1967	Ph.D.	Leidenfrost, W.	Wave Amplitude Study for Two-Phase Flow in a Horizontal Channel
Hylton, Larry D. HL 67-30	1967	MSME	Kotansky, D.R.	A Comparison of Four Different Residential Heating Systems
Lal, Mahendra	1967	MSME	Hamilton, J.F.	Non-thesis. Research Study on Noise Analysis of a Compressor Line
Meyer, Daniel R. HL 67-29	1967	MSME	Hamilton, J.F.	Mathematical Model and Digital Computer Simulation of the Steady-State Response of a Residence
Payne, Joseph G. HL 67-32	1967	Ph.D.	Cohen, R.	Photoelastic Stress Analysis and Dynamic Simulation of Compressor Ring Valves
Soedel, Werner HL 67-31	1967	Ph.D.	Cohen, R.	Development of Methods for the Analytical and Experimental Investigation of the Large Axisymmetrical Deflection of Shallow Thin Shells of Revolution
Tsui, Chung Y. HL 67-27	1967	Ph.D.	Fontaine, W.E./ Cohen, R.	Discharge Phenomena of a Vibrating Poppet Type Valve
Burns, Larry A. HL 68-48	1968	MS	Hamilton, J.F.	Modeling and Simulation of a Twin Spool Aircraft Lift Engine
Gordon, Donald T. HL 68-47	1968	MSE	Hamilton, J.F.	The Measurement and Analysis of Liquid Viscosity Date for Eight "Freon" Refrigerants
Kinney, G. Thomas HL 68-21	1968	MSME	Hamilton, J.F.	Mathematical Simulation of the Vibration of a Refrigeration Compressor
Schwerzler, Dennis D.	1968	MSME	Hamilton, J.F.	Non-thesis. Research Study of Self-Actuated Compressor Valves
Wilson, C. Lewis HL 68-1	1968	MSME	Tree, D.R.	A Comparison of Air Content in Four Different Residential Homes
Wright, Donald HL 68-46	1968	Ph.D.	Cohen, R.	Design for Vibration of Control Mechanism of a Fluid Drive
Eisele III, Edward H. HL 69-48	1969	Ph.D.	Leidenfrost, W.	A Study of the Optimum Rotating Heat Exchanger for Heat Pump Applications
Faulkner, Lynn L. HL 69-53	1969	Ph.D.	Hamilton, J.F.	Vibration Analysis of Shell Structures Using Receptances
Jacquot, Raymond G. HL 69-49	1969	Ph.D.	Cohen, R.	A Study of Level Passages in the Transient Response of Linear Vibration Systems Subject to Random Excitation
Johnson, Carl N. HL 69-36	1969	Ph.D.	Hamilton, J.F.	Fractional Horsepower, Rotary Vane, Refrigerant Compressor Sound Source Investigation

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Khosrovani, Hooshang HL 69-50	1969	Ph.D.	Cohen, R./ Chanaud, R.	Response of a Thin Wall Cylindrical Duct to a Random Pressure Field
Kotalik, Bruce D. HL 69-29	1969	MSME	Soedel, W.	Computer Simulation of a Five Horsepower High Speed Reciprocating Compressor
Lewis, Alfred E.	1969	MSME	Cohen, R.	Non-thesis. Research Study of a Vane Vibration Indicator
McCracken, William E. HL 69-52	1969	Ph.D.	Leidenfrost, W.	An Analysis of the Effects of Resistance Thermometers in a Thermophysical Properties Instrument
Nerz, Jr., Alfred R. HL 69-1	1969	MSME	Hamilton, J.F.	Mathematical Modeling and Digital Computer Simulation of the Thermal Response of a Residence
Reynolds, Douglas D. HL 69-28	1969	MSME	Soedel, W.	Power Requirements for Chain Saw Engines
Stevenson, Martin J. HL 69-45	1969	MSME	Qvale, B.	A Computer Simulation of a Rotary Vane Compressor
Suzuki, Wayne T. HL 69-46	1969	MS	Chanaud, R.C.	Noise Reduction of a Household Refrigerator
Weisert, Wilson G.	1969	MSME	Soedel, W.	Non-thesis. Research Study of Engine and Load Stand Development
White, Edward M. HL 69-47	1969	MSME	Cohen, R.	Application of Mathematical Model to High Speed Reciprocating Compressors
Bahr, Ronald A. HL 70-47	1970	MSME	Soedel, W.	Residual Stresses in a Pressure-Displacement Converter Diaphragm Due to Boundary Contraction and Localized Plastic Deformation
Berkman, Richard L.	1970	MSME	Qvale, B.	Non-thesis. Research Study on Reed Valves and the Engine Cycle Mathematical Model
Bolleter, Ulrich HL 70-36	1970	Ph.D.	Chanaud, R.C./ Crocker, M.J.	Theory and Measurement of Modal Spectra in Hard-Walled Cylindrical Ducts
Coates, Donald A. HL 70-3	1970	Ph.D.	Cohen, R.	Design Technique for Performance Optimization of a Small Rotary-Vane Compressor
Cooper, Kenneth W. HL 70-12	1970	Ph.D.	Tree, D.R.	Predicting Energy Usage for Residential Dwellings
Dale, O. Bruce HL 70-2	1970	Ph.D.	Cohen, R.	Multi-parameter Identification and Optimization Methods for Linear Continuous Vibratory Systems
Erth, Richard A. HL 69-39	1970	Ph.D.	Tree, D.R.	Two-Phase Flow in Refrigeration Capillary Tubes: Analysis and Prediction
Flory, Lloyd E.	1970	MSME	Cohen, R./ Crocker, M.J.	Non-thesis. Research Study of a Microphone Sampling Tube
Harrison, Richard H. HL 70-16	1970	MSME	Hamilton, J.F.	Mathematical and Experimental Analysis of the Vibration of a Refrigeration Compressor

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Haseltine, John D. HL 69-42	1970	MSME	Qvale, B.	Part-Load Performance of Reciprocating Compressors
Hayden, Richard E. HL 70-23	1970	MSME	Chanaud, R.D.	Sound Generation by Turbulent Wall Jet Flow over a Trailing Edge
Kartsounes, George T. HL 70-4	1970	Ph.D.	Tree, D.R.	Flow Characteristics of Solenoid Valves
Kim, Je Chul HL 70-20	1970	Ph.D.	Qvale, B.	An Analytical and Experimental Study of Heat Transfer and Flow-Friction Characteristics for Periodically Reversing Flow Through the Porous Matrix of Thermal Regenerators
Kristiansen, Ulf HL 70-22	1970	MSME	Soedel, W.	An Investigation of Modeling Laws in Vibration with Special Attention to the Effects of Shear and Rotary Inertia
McConnell, Robert R. HL 70-6	1970	MSME	Cohen, R.	Prediction and Measurement of Instantaneous Compressor Crankshaft Speed
McQuiston, Faye C. HL 70-49	1970	Ph.D.	Tree, D.R.	Optimization of Fin-Tube and Plate-Fin Heat Transfer Surfaces Operating Under Conditions of Forced Convection
Obregon, Jamie E. HL 70-33	1970	MSME	Tree, D.R.	A Mathematical Model for the Mechanical System of an Electromagnetic Pump
Schult, Thomas H. HL 70-30	1970	MSME	Cohen, R.	Performance Optimization of a 1/3 Horsepower Rotary-Vane Compressor Using a Computer Simulation
Smith, David L.	1970	MSME	Hamilton, J.F.	Non-thesis. Research Study on Damping Characteristics of Vibration Coatings
Thornton, William R. HL 70-13	1970	MSME	Chanaud, R.C./ Crocker, M.J.	Pressure Cross-Correlation of White Noise and Turbulence in a Cylindrical Duct
Adams, John A. HL 71-15	1971	Ph.D.	Hamilton, J.F./ Soedel, W.	The Prediction of Dynamic Strain in Ring Type Compressor Valves
Buntley, Daryl F.	1971	MSME	Crocker, M.J.	Non-thesis. Research Study of Noise Produced in a 100 HP Centrifugal Fan
Burns, Larry A. HL 71-35	1971	Ph.D.	Hamilton, J.F.	Development of the Modal Beam Strip Method for the Analytical Determination of the Vibrational Characteristics of Cantilevered Plate-Like Systems Including Turbo-Machinery Blading
Chernish, Dwight L. HL 70-39	1971	MSME	Tree, D.R.	Analysis of a Comfort Control Which Uses Temperature and Humidity as Inputs
Durham, Richard L.	1971	MSME	Soedel, W.	Non-thesis. Research Study of Structures in Magnetic Fields
Gordon, Donald T. HL 71-34	1971	Ph.D.	Hamilton, J.F.	A Feasibility Study of Active Control to Improve the Performance and Vibration Characteristics of Rotor Blades
Padilla-Navas, Eduardo HL 70-34	1971	MSME	Soedel, W.	Computer Simulation of a Two-Cylinder Refrigeration Compressor with Special Attention to the Cylinder and Cavity Interaction

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Paul, Alfred S. HL 71-16	1971	MSME	Hillberry, B.S.	Study of the Resonant-Beam Machine Used to Determine the Dynamic Properties of Rubber Products
Schwerzler, Dennis D. HL 71-6	1971	Ph.D.	Hamilton, J.F.	Mathematical Modeling of a Multiple Cylinder Refrigeration Compressor
Warren, Joe E. HL 71-36	1971	Ph.D.	Hamilton, J.F.	Contributions to the Mathematical Modeling of Capacitance Microphones
Wilken, Irvin D. HL 71-19	1971	Ph.D.	Soedel, W.	Simplified Prediction of the Vibrational Characteristics of Ring-Stiffened Cylindrical Shells
Wiltshire, Frank R. HL 71-8	1971	MSME	Qvale, B.	A Test Facility for Small Two-Stroke Cycle I.C. Engines
Adair, Randy P. HL 72-20	1972	MSME	Pearson, J.T./ Qvale, B.	Instantaneous Heat Flow Through the Cylinder Walls of Reciprocating Compressors
Beldam, R. Paul HL 72-16	1972	MSME	Hamilton, J.F.	Experimental Verification of Digital Computer Rotary Compressor Simulation
Couillard, Jack L.	1972	MSME	Hillberry, B.M.	Non-thesis. Research Study of a Fluid Measurement System
Ellis, Ronald M.	1972	MSME	Crocker, M.J./ Tree, D.R./ Czarnecki, S.	Non-thesis. Research Study of Muffler Components
Elson, John P. HL 72-9	1972	Ph.D.	Soedel, W.	Gas Pressure Oscillations and Ring Valve Simulation Techniques for the Discharge Process of a Reciprocating Compressor
Gerhold, Carl H. HL 72-38	1972	MSME	Hamilton, J.F.	Mathematical Model of a Single-Cylinder Compressor
Hansen, Charles A. HL 72-17	1972	Ph.D.	Soedel, W.	Elastic-Plastic Stress Analysis of Large Axisymmetrically Deflected Shallow Thin Shells of Revolution
Hughes, J. Michael HL 72-19	1972	MSME	Qvale, B./ Pearson, J.T.	A Study of Heat Transfer and Valve Phenomena in a Reciprocating Compressor
Menkhaus, Daniel E. HL 71-32	1972	MSME	Hamilton, J.F.	Prediction of Instability in the Valve Motion of a Pneumatic Thermostat
Moaveni, Michael HL 72-1	1972	Ph.D.	Hamilton, J.F./ Cohen, R.	The Prediction of Dynamic Strain in Leaf-Type Compressor Valves with Variable Mass and Stiffness
Moore, James W. HL 72-12	1972	MSME	Crocker, M.J.	The Low Frequency Sound Radiation Characteristics of Panels and Beams
Ott, III, E. Stan HL 72-33	1972	MSME	Goldschmidt, V.W.	Convective Velocities in a Plane Jet
Reynolds, Douglas D. HL 71-28	1972	Ph.D.	Soedel, W.	Vibration Interaction of the Human Hand Arm System with Vibrating Power Tools
Seybert, Andrew F. HL 71-27	1972	MSME	Crocker, M.J.	Noise Reduction of a Residential Air Conditioner

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Stevenson, Martin J. HL 72-37	1972	Ph.D.	Tree, D.R.	An Experimental and Theoretical Investigation Technique for a Linearly Oscillating Electromagnetic Pump
Thornton, William R. HL 72-27	1972	Ph.D.	Hamilton, J.F.	Noise Identification and Reduction for a Rotary Vane Compressor
Trella, Tom J. HL 72-2	1972	Ph.D.	Soedel, W.	Computer Simulation of the Vibratory and Acoustic Behavior of a Reciprocating Compressor Discharge Valve
Uffman, William P. HL 72-39	1972	MSME	Tree, D.R.	Reduction of Noise in a Canister Vacuum Cleaner
Viebrock, Walter M. HL 72-21	1972	MSME	Crocker, M.J.	The Measurement, Loudness, Identification, and Reduction of Noise from Electric Clocks
Jones, Steven R. HL 73-17	1973	MSME	Crocker, M.J.	The Design of Acoustic Enclosures for Diesel-Powered Commercial Vehicles
McCutchan, Richard D. HL 73-39	1973	MSME	Pearson, J.T./ Leonard, R.G.	A Simple Dynamic Model of a Finned Serpentine Heat Exchanger
Mosiman, Douglas E. HL 73-20	1973	MSE	Soedel, W./ Leidenfrost, W.	The Feasibility of Rotating Hermetic Compressors
Shryock, Ronald A. HL 73-22	1973	MSME	Tree, D.R.	Acoustic Investigation of a Small Rotary Vane Compressor
Towers, David A. HL 73-24	1973	MSME	Tree, D.R.	The Reduction of Diesel Engine Noise of Commercial Vehicles by Acoustic Enclosure
Wang, Joseph S. HL 74-15	1973	Ph.D.	Crocker, M.J.	Optimization of Design of Sampling Tubes
Young, Marvin F. HL 73-31	1973	MSME	Goldschmidt, V.W.	A Turbulence Study: Convective Velocities, Energy Spectra and Turbulent Scales in a Plane Air Jet
Young, Cheng J. HL 73-18	1973	Ph.D.	Crocker, M.J.	Acoustic Analysis of Mufflers for Engine Exhaust Systems
Antman, Jeffrey D. HL 74-25	1974	MSME	Leonard, R.G./ Goldschmidt, V.W.	Mathematical Simulation of Feedback Excited Oscillations in Gas Combustion Systems
Boonstra, Richard H. HL 74-14	1974	MSE	Goldschmidt, V.W./ Leonard, R.G.	Mathematical Model, Simulation and Economic Analysis of the Steady-State Heat Gain of a Mobile Home
Chung, Jing-Yau HL 74-11	1974	Ph.D.	Crocker, M.J.	Measurement and Analysis of Diesel Engine Noise
Firth, Rowland V. HL 74-48	1974	MSME	Hamilton, J.F.	Calculations of the Natural Frequencies and Mode Shapes of a Compressor Discharge Line by Using Finite Elements
Gerhold, Carl H. HL 75-5	1974	Ph.D.	Tree, D.R.	Use of Shelters to Protect a Vehicle Pass-By Noise Measurement Facility
Helmer, Wayne A. HL 74-6	1974	Ph.D.	Tree, D.R.	Condensing Water Vapor-Air Flow in a Parallel Plate Heat Exchanger

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Jenkins, Peter E. HL 74-45	1974	Ph.D.	Goldschmidt, V.W.	A Study of the Intermittent Region of a Heated Two-Dimensional Plane Jet
LaFrance, Leo J. HL 74-35	1974	Ph.D.	Hamilton, J.F.	The Development of a Nonlinear Constrained Optimization Algorithm for Application to Simulated Systems
Reddy, Kundur H. HL 74-33	1974	Ph.D.	Hamilton, J.F./ Soedel, W.	Computer Simulation of a Reciprocating Compressor with Special Emphasis on the Prediction of Dynamic Strain in Ring Type Valves
Riley, John F. HL 74-29	1974	MSE	Goldschmidt, V.W.	A Transfer Function and Experimental Analysis of Feedback Excited Oscillations in Gas Flames
Rodda, Don E. HL 74-22	1974	MSME	Leidenfrost, W.	A Rotating Heat Exchanger for a Household Refrigerator
Sullivan, Joseph W. HL 74-53	1974	Ph.D.	Crocker, M.J.	Theory and Methods for Modeling Acoustically-Long, Unpartitioned Cavity Resonators for Engine Exhaust Systems
Wolfbrandt, Gary T. HL 74-38	1974	MSME	Hamilton, J.F.	Damping Characteristics of Mastic Type Noise and Vibration Coatings
Wolverton, Steve R. HL 74-30	1974	MSME	Soedel, W.	Application of Experimental Methods of Compressor Design
Applegate, Steven L. HL 75-6	1975	MSME	Crocker, M.J.	Noise Reduction of a Lawn Tractor Mower Assembly
Baum, Joseph M. HL 75-22	1975	MSME	Soedel, W.	Computer Simulation of a Four-Cylinder Air-Conditioning Compressor with Special Attention to Discharge Cavity Interactions
Bednar, John M. HL 75-20	1975	MSME	Hawks, K.H.	Analysis and Computer Simulation of the Passenger Heating and Air Conditioning Requirements for an Electric Car
Buehlmann, Eugen T. HL 75-13	1975	MSME	Crocker, M.J.	Combustion Noise Study on a Diesel Engine
Friley, John R. HL 75-16	1975	Ph.D.	Hamilton, J.F.	Finite Element Applications of a Precision Triangular Plate Bending Element to Linear Boundary Value Problems Governed by Extremum Principles
Gill, Daniel E. HL 75-24	1975	MSME	Soedel, W.	The Determination of the Mechanical Properties of Automobile Tires
Granger, Stede W/	1975	MSME	Hawks, K.H.	Non-thesis. Research Study of a Solar Energy Absorption System
Hamilton, Douglas C. HL 75-1	1975	MSME	Leonard, R.G.	A Design Procedure for a Discharge Air Temperature Control System
Kach, Edwin A. HL 75-26	1975	MSME	Tree, D.R./ Goldschmidt, V.W.	Augmentation of Convective Heat Transfer from Heat Exchangers by Spraying Water
Manon, Terry M. HL 74-55	1975	MSME	Leidenfrost, W.	The Design and Use of an Instrument to Determine the Boiling Heat Transfer Coefficient Within a Hollow, Airfoil Shaped Blade Under High Centrifugal Accelerations

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Mulej, Kathleen M. HL 76-4	1975	MSE	Tree, D.R.	Noise Source Identification for a Garden Tractor
Mulej, David J. HL 75-32	1975	MSME	Goldschmidt, V.W.	The Velocity of the Interface in a Plane Jet
Mutyala, Brahmji R.C. HL 75-41	1975	Ph.D.	Soedel, W.	A Mathematical Model of Helmholtz Resonator Type Gas Oscillation Discharges of Two-Cycle Engines
Sanchez-Flores, Cesar A. HL 75-25	1975	MSME	Goldschmidt, V.W.	The Measurement and Modeling of Heat Gains and Losses in a Mobile Home
Sandgren, Eric HL 75-4	1975	MSME	Ragsdell, K./ Soedel, W.	Computer Simulation of a Two-Cylinder Reciprocating Compressor and Associated Discharge System Using Acoustical Impedances
Seybert, Andrew F. HL 76-3	1975	Ph.D.	Crocker, M.J.	Estimation of Frequency Response in Acoustical Systems with Particular Application to Diesel Engine Noise
Shashaani, Reza HL 75-43	1975	Ph.D.	Vaidya, P.G.	Propagation of Supersonic Rotor Sound Radiation in Jet Engine Inlet Ducts
Singh, Rajendra HL 75-31	1975	Ph.D.	Soedel, W.	Modeling of Multicylinder Compressor Discharge Systems
White, Ralph R. HL 75-49	1975	MSE	Goldschmidt, V.W.	Seasonal Performance Measurements and Modeling of a Mobile Home Gas-Fired Furnace
Zieringer, Erhard HL 75-51	1975	MSME	Pearson, J.T.	Numerical Solutions for the Performance of Dehumidifying Heat Exchangers with Variable Circuiting
Ajagu, Chris O. HL 76-22	1976	MSME	Goldschmidt, V.W.	Fold-Over, Intermittency and Crossing Frequency of a Plane Jet Interface With and Without an Acoustic Disturbance
DeEskinazi, Jozef HL 76-6	1976	Ph.D.	Soedel, W./ Yang, H.T.	A Finite Element Model for the Stress Analysis of Pneumatic Tires in Contact with a Flat Surface
Egolf, David P. HL 76-15	1976	Ph.D.	Tree, D.R.	A Mathematical Scheme for Predicting the Electro-Acoustic Frequency Response of Hearing Aid Receiver-Earmold-Ear Systems
Feldmaier, Doug A. HL 76-24	1976	MSME	Tree, D.R.	Noise Identification of a Rotary Vane Compressor with Special Emphasis on the Cylinder Pressure
Garrett, Ronald W. HL 76-23	1976	MSME	Tree, D.R.	Heat Exchanger Performance in the Presence of Water Sprays
Jaeger, Deane B. HL 76-36	1976	MSE	Tree, D.R.	Noise Source Identification and Noise Reduction of a Small Air Cooled Internal Combustion Engine
Ling, Shih-Fu HL 76-14	1976	Ph.D.	Hamilton, J.F.	A Finite Element Method for Duct Acoustic Problems
Ross, David F. HL 76-28	1976	Ph.D.	Crocker, M.J.	An Experimental Investigation of the Normal Specific Acoustic Impedance of an Internal Combustion Engine

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Stenger, James B. HL 76-11	1976	MSME	Pearson, J.T.	Improving Temperature Control System Dynamics
Strader, Dennis L. HL 77-2	1976	MSME	Soedel, W.	Computer Simulations of the Dynamics of Refrigeration Cycles
Sydney, Craig A. HL 76-30	1976	MSME	Leonard, R.G.	Dynamic Temperature Response of Rabbits to Thermoneutral and Hyperthermic Temperatures
Tibbles, Tom T. HL 76-26	1976	MSE	Hawks, K.H.	Economy Loading of Chillers in the Purdue Air Conditioning System
Tweed, Lorne W. HL 76-2	1976	MSME	Tree, D.R.	Noise Analysis and Preliminary Design of Acoustic Enclosures for Air Cooled Internal Combustion Engines
Wang, Kuo-Shon HL 76-37	1976	Ph.D.	Vaidya, P.G.	Propagation of Finite Amplitude Higher Order Mode Sounds in Rigid and Absorbent Ducts with Particular Applications to the Multiple Pure Tone Problem
White, Robert D. HL 76-5	1976	MSME	Leidenfrost, W.	Experimental and Analytical Analysis of Boiling Heat Transfer Under High Centrifugal Acceleration
Winiarz, Marek L. HL 76-40	1976	MS	Sullivan, J.W.	Theoretical Modeling and Parameter Study of a High Frequency Acoustic Resonator
Abe, Toshiro	1977	MSME	Hamilton, J.F.	Non-thesis. Research Study of Highly-Damped Sandwich Beams
Boot, Jay L. HL 77-48	1977	Ph.D.	Pearson, J.T.	Dynamic Response Model for Cross-Flow Heat Exchangers
Buehlmann, Eugen T. HL 77-41	1977	Ph.D.	Crocker, M.J.	The Measurement of the Mach Number and the Speed of Sound in an Engine Exhaust System by an Acoustical Method
Chambers, Frank W. HL 77-31	1977	Ph.D.	Goldschmidt, V.W.	Acoustic Interaction with a Turbulent Plane Jet
Gunn, Kerry F. HL 77-33	1977	MSME	Hamilton, J.F.	A Simulation Program for Modeling and Analysis of Solar Service Water Heating Systems
Hayes, Paul A. HL 77-40	1977	MSME	Hamilton, J.F.	Experimental and Analytical Investigation of Diesel Engine Piston Impact and Noise
Hornbostel, Hermann F. HL 77-18	1977	MSME	Sullivan, J.W.	Sound Power Determination of a Truck in a Semi-Anechoic Room
Kin, John W. HL 77-15	1977	MSME	Pearson, J.T.	Terminal Unit Study for the Purdue Chilled Water System
Korenic, Branislav HL 77-46	1977	MSME	Leidenfrost, W.	Analysis of the Enhancement of Heat Transfer by Spraying Water on a Finned Condenser Coil
Laville, Fredric HL 77-35	1977	Ph.D.	Soedel, W.	Muffler Design by Scaling Using Engine Characteristics
Lee, Kuan Horng HL 77-38	1977	MSME	Leidenfrost, W.	Analysis and Design of a Refrigeration System of a 100 MWH Load Leveling Z Cl Battery

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Murphy, William E. HL 77-52	1977	MSME	Goldschmidt, V.W.	Mobile Home Air Conditioning: An Analysis of Seasonal Performance
Reed, William F. HL 77-37	1977	MSME	Hamilton, J.F.	Internal Leakage Effects in Sliding Vane, Rotary Compressors
Ryan, James R. HL 77-36	1977	MSME	Sullivan, J.W.	Design and Development of an Indoor Simulation of the SAE J366b Measurement of Exterior Truck Noise
Schultz, William W. HL 77-50	1977	MSME	Goldschmidt, V.W.	Efficiencies of Electric Service Water Heating Systems: Measurements and Modeling
Shaffer, Bradley W. HL 77-3	1977	MSME	Leonard, R.G.	Refrigerant Flow Control Using a No-Moving-Parts Fluidic Device
Steinke, Sabine HL 77-43	1977	MSME	Tree, D.R.	Compressor Noise Study of a 1.75 Horsepower Hermetically Sealed Reciprocating Compressor
Bergmann, Uwe HL 78-20	1978	MSME	Sullivan, J.W.	Investigation of a Sound Power Measurement Concept for Heavy Trucks
Cervantes de Gortari, Jaime HL 78-40	1978	Ph.D.	Goldschmidt, V.W.	An Experimental Study of the Flapping Motion of a Turbulent Plane Jet
Dhar, Manmohan HL 78-11	1978	Ph.D.	Soedel, W.	Transient Analysis of Refrigeration System
Glover, Billy W. HL 78-2	1978	MSE	Tree, D.R.	Effect of Holes in Close-Fitting Acoustical Enclosures
Hart, Gordon H. HL 78-58	1978	MSME	Goldschmidt, V.W.	The Performance of the Air Distribution System and of an Air-to-Air Heat Pump in the Heating Mode on a Mobile Home
Kaemmer, Norbert HL 78-36	1978	MSME	Crocker, M.J.	Sound Power Determination from Surface Intensity Measurements on a Cylinder
Key, Richard W. HL 78-50	1978	MSME	Tree, D.R.	Noise Study of a Lawn and Garden Tractor
Koster, John T. HL 78-34	1978	MSME	Hawks, K.H.	Part Load Performance Analysis of Centrifugal Chillers
McCann, Larry D. HL 78-54	1978	Ph.D.	Leonard, R.G.	Development of a New Operations Amplifier for Use in Pneumatic System Design
Pandeya, Prakash N. HL 78-44	1978	Ph.D.	Soedel, W.	Performance Analysis of a Positive Displacement Refrigerating Compressor
Pollak, Eytan HL 78-43	1978	Ph.D.	Soedel, W.	Performance Study of Oscillating Electrodynamic Compressors
Rauen, David G.	1978	MSME	Soedel, W.	Non-thesis. Research Study of an Underwater Breathing System
Steinke, Roland HL 78-53	1978	MSME	Hawks, K.W.	A Study of Variable Chilled Water Supply Temperatures for the Purdue Chilled Water System

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Stiller, Paul H. HL 78-35	1978	MSME	Hawks, K.H.	Utility Data Logging Systems for Department of Physical Plant, Purdue University
Tweed, Lorne W. HL 78-3	1978	Ph.D.	Tree, D.R.	The Design of Close-Fitting Acoustical Enclosures
Vogt, Scott T. HL 78-56	1978	MSME	Schoenhals, R.J.	Performance Characteristics of a Pulse Combustion Water Heater
Wang, Mun-En HL 78-19	1978	Ph.D.	Crocker, M.J.	The Application of Coherence Function Techniques for Noise Source Identification
White, Robert D. HL 78-55	1978	Ph.D.	Leidenfrost, W.	Determination of Void Fractions for Improved Boiling Heat Transfer Evaluation in Rotating Heat Exchangers
Witwer, Randall K. HL 78-39	1978	MS	Sullivan, J.W.	An Investigation of a Simulated Drive-By Noise Measurement Concept for Heavy Vehicles
Forssen, Bjorn H.	1979	MSME	Crocker, M.J.	Non-thesis. Research Study on Noise Reduction of Mufflers
Franzen, Mark F. HL 79-13	1979	MSME	Hamilton, J.F.	Mathematical Simulation of Refrigeration Compressor Vibrations
Hunckler, Charles J. HL 79-8	1979	Ph.D.	Soedel, W.	The Dynamic Behavior of an Automobile Tire
Johnson, Carl N. HL 79-35	1979	MSME	Goldschmidt, V.W.	Measurement of Energy Use and Efficiency Characteristics of a Residential Gas-Fired Water Heating System
Nakayama, Kazuhiko HL 79-15	1979	MSE	Crocker, M.J.	Prediction of the Sound Pressure Level Inside a Vibrating Rectangular Steel Box Using Statistical Energy Analysis
Narciso, Melodie M. HL 79-20	1979	MSE	Schoenhals, R.J.	Ice Formation by Injection of Cold Air into Water
Powder, Donald P. HL 79-9	1979	MSME	Soedel, W.	Measurements and Interpretation of the Vibrations of a Spring Supported Compressor
Ruhnow, Russell F. HL 79-36	1979	MSME	Tree, D.R.	Lawn Mower Deck Performance Study: Blade Noise
Thompson, James K. HL 79-39	1979	Ph.D.	Tree, D.R.	Evaluation of the Conventional and Acoustic Intensity Methods of Noise Source Identification for Small Internal Combustion Engines
Wilhelm, Dean R. HL 79-34	1979	MS	Goldschmidt, V.W.	Infiltration in Two Mobile Homes
Yen, Ming-Shih HL 79-31	1979	Ph.D.	Schoenhals, R.J.	A Study of Thermally-Induced Pumping of Carbon Dioxide Through Natural Rubber Membranes
Baugh, Thomas J. HL 80-37	1980	MSME	Soedel, W.	Noise Reduction of a Two-Cycle Engine by Exhaust Shaping
Bein., Thomas W. HL 80-33	1980	MSME	Hamilton, J.F.	A Computer Model of a Single Screw Air Compressor

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Clark, Jr., George A. HL 80-38	1980	MSME	Sullivan, J.W.	Surface Radiated Noise Investigation of an Eight-Horsepower Air-Cooled Internal Combustion Engine
Cole, Vernon G. HL 80-36	1980	MSME	Crocker, M.J.	Prediction of the Noise Reduction of a Rectangular Steel Box Using Statistical Energy Analysis
Dhar, Bimal HL 80-43	1980	MSME	Soedel, W.	Transient Gas Pulsation Model of Helmholtz Type Pulse Combustion Devices
Hirahara, Takuho	1980	MSE	Hamilton, J.F.	Non-thesis. Research Study on the Operating Crank Shaft Deflection of a Compressor
Jenkins, Steven T. HL 80-12	1980	MSME	Soedel, W.	Reduction of Transmitted Vibration Forces Through the Support Springs of a Compressor
Korenic, Branislav HL 80-47	1980	Ph.D.	Leidenfrost, W.	Augmentation of Heat Transfer by Evaporative Cooling to Reduce Condensing Temperatures
Ku, Jentung HL 80-29	1980	Ph.D.	Leidenfrost, W.	Determination of Two-Phase Friction Factors for Void Fraction and Boiling Heat Transfer Evaluation
Kuehlert, Heinrich F. HL 80-5	1980	MSME	Schoenhals, R.J.	Development of Performance Testing Procedures for Evaluation of Room-Size Electrically Heated Thermal Energy Storage Unit
Lamb, Glenn HL 81-1	1980	MS	Tree, D.R.	Seasonal Performance of Air Conditioners: An Analysis of the DOE Test Procedures - Thermostat and Measurement Errors
Lin, Chao Ping HL 80-44	1980	MS	Schoenhals, R.J.	Development of Performance Testing Procedures for Evaluation of Electrically Heated Thermal Energy Storage Central Units
McGary, Michael HL 80-2	1980	MSME	Crocker, M.J.	Noise Source Identification of Diesel Engines Using Surface Intensity Measurements
Moallemi, M. Karim HL 81-2	1980	MSME	Goldschmidt, V.W.	Visualization and Characterization of a Two-Dimensional Turbulent Jet
Murphy, William E. HL 80-20	1980	Ph.D.	Goldschmidt, V.W.	Analysis of Cycling Effects of Residential Air Conditioners
Nishioka, Kazumitsu HL 80-3	1980	Ph.D.	Soedel, W.	Nonlinear Analysis of Electromagnetic Linear Motor Compressors
Oler, James W. HL 80-6	1980	Ph.D.	Goldschmidt, V.W.	Coherent Structures in the Similarity Region of a Two Dimensional Turbulent Jet: A Vortex Street
Prasad, Marehalli G. HL 80-27	1980	Ph.D.	Crocker, M.J.	Acoustical Modeling of Automotive Exhaust Systems
Reinhart, Thomas E. HL 80-39	1980	MSME	Crocker, M.J.	Noise Source Identification of Diesel Engines Using Acoustic Intensity Measurements
Sohaney, Richard C. HL 80-10	1980	MSME	Sullivan, J.W.	Analytical and Experimental Model to Predict Valve Train Vibrations in Internal Combustion Engines

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Thomas, Steven B. HL 80-15	1980	MS	Tree, D.R./ Goldschmidt, V.W.	A Study of the Test Method for Prediction of Air Conditioning Equipment Seasonal Performance
Thomas, Flint O. HL 80-32	1980	MS	Goldschmidt, V.W.	Effect of Nozzle Geometry on Acoustic Interaction with a Turbulent Plane Jet
Wang, Yiren S. HL 80-17	1980	MSME	Sullivan, J.W.	Analysis and Reduction of Noise of a Portable Air Compressor
Allen, James J. HL 81-26	1981	Ph.D.	Hamilton, J.F.	Use of Harmonic Basis Functions in Acoustic Finite Elements
Kung, Lin-E. HL 81-24	1981	MSME	Sullivan, J.W.	Noise Source Identification of a Lawn Mower Engine by Conventional and Ordinary Coherence Function Methods
Mathur, Gopal P. HL 81-30	1981	Ph.D.	Crocker, M.J.	Vibration and Sound Energy Flow in Three-Dimensional Box-Like Structures
Nguyen, Han V. HL 81-6	1981	MSME	Goldschmidt, V.W.	Seasonal Performance Characteristics of Air Conditioners: Analysis of the DOE Test Procedures
Offerman, Klaus HL 81-3	1981	MSME	Tree, D.R.	Time Constants and the Performance of a Heat Pump in the Cooling Mode Under Different Test Conditions
Padmanabhan, Ranganathan HL 82-12	1981	MSME	Schoenhals, R.J.	An Experimental and Analytical Study of Capillary Tube-Suction Line Heat Exchanger
Tung, Vincent T.C. HL 81-17	1981	MSME	Crocker, M.J.	Combustion Noise of a Diesel Engine
Chang, Yuan-Bin HL 82-21	1982	Ph.D.	Soedel, W.	A Finite Element Program for Predicting the Dynamic Response of the Axisymmetric Shell Structure "DRASS"
Elter, Michael HL 82-6	1982	MSME	Schoenhals, R.J.	Development of Performance Testing Procedures for Evaluation of Electrically Heated Thermal Energy Storage Central Units
Gonzalez, Gonzalo J. HL 83-7	1982	MSME	Goldschmidt, V.W.	Modeling and Testing of Helically Finned-Tube Cross-Flow Heat Exchangers with Baffling Surfaces, Operating at Moderately Low Reynolds Number Fired Water Heater
Hylton, Peter D. HL 82-42	1982	MSME	Hamilton, J.F.	High Speed Rotor Dynamics Using Fluid Film Journal Bearings
Laster, W. Ray HL 82-7	1982	MSME	Schoenhals, R.J.	A Study of Testing Procedures Developed for Room Size, Off Peak Electrical Thermal Energy Storage Units
Lee, Yong-Chun HL 82-37	1982	Ph.D.	Sullivan, J.W.	The Lumped Parameter Method for Elastic Impact Problems
Lin, Tsing-Fa HL 82-30	1982	Ph.D.	Hawks, K.	Theoretical and Experimental Study of Heat Transfer Characteristics of Cabinet Calorimeter System
O'Neal, Dennis HL 82-45	1982	Ph.D.	Tree, D.R.	The Effect of Frost Formation on the Performance of a Parallel Plate Heat Exchanger

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Pande, Lalit HL 82-18	1982	Ph.D.	Crocker, M.J.	Engineering Applications of Plane Wave Duct Acoustics
Pate, Michael B. HL 82-11	1982	Ph.D.	Tree, D.R.	A Theoretical and Experimental Analysis of Capillary Tube-Suction Line Heat Exchangers
Saljnikov, Aleksander V. HL 82-8	1982	MSME	Tree, D.R.	Experimental Analysis of Some of the DOE Test Procedure Set-Up Measurement Errors for Unitary Air Conditioners and Heat Pumps
Wang, Yiren S. HL 82-47	1982	Ph.D.	Crocker, M.J.	Transmission of Sound Through a Cylindrical Shell and a Light Aircraft Fuselage
Yee, Victor HL 82-33	1982	Ph.D.	Soedel, W.	Analytical and Experimental Study of High Speed Rotary Sliding Vane Compressor Dynamics with Application to Transfer Slot Design
Anand, N.K. HL 83-26	1983	Ph.D.	Tree, D.R.	Numerical Simulation of Single Tube Heat Exchangers
Azimi, Saeed	1983	Ph.D.	Hamilton, J.F.	Connection of Continuous Elements by the Receptance Method
Bittle, Becky B. HL 83-44	1983	MSME	Goldschmidt, V.W.	Heat Pump Seasonal Performance: Study of the Test Method and Some Test Data
Buffa, II, Joseph HL 83-3	1983	MSME	Crocker, M.J.	Determination of Sound Power of Machines Using Intensity Methods
Forssen, Bjorn H. HL 83-23	1983	Ph.D.	Crocker, M.J.	Determination of Transmission Loss, Acoustic Velocity, Surface Velocity, and Radiation Efficiency by the Use of Two Microphone Techniques
Heitman, Karen E. HL 83-42	1983	MSME	Bernhard, R.J.	Investigation of the Noise Transmission into a Light Aircraft Cabin Using the Two-Microphone Sound Intensity Technique
Kashima, Koji HL 83-47	1983	MS	Tree, D.R.	Non-thesis. Transient Analysis of Direct Cooling-Type Refrigerator Freezer
Lee, James J. HL 83-32	1983	Ph.D.	Soedel, W.	Computer Simulation of Pulsations in a Gas Fired Pulse Combustion Device and Predictions of Their Exhaust Noise for Single and Dual Combustion Chamber Designs
Miller, Joseph L. HL 83-46	1983	MSME	Hamilton, J.F.	A Simulation Program for Modeling and Analysis of an Air Conditioning System
Momin, Zafar A. HL 83-19	1983	MSME	Hamilton, J.F.	Finite Element Techniques in Wave Propagation Analysis
Neckowicz, Theodore HL 83-5	1983	MSME	Goldschmidt, V.W.	Refrigerant Flow Measurements - Application of Hot-Wire Anemometry
Rusnock, Paul HL 83-12	1983	MSME	Cipra, R.J.	Automatic Mesh Generation for Planar Surfaces and Finite Element Analysis
Scharf, Roland R. HL 83-8	1983	MSME	Goldschmidt, V.W.	Reversing Valve Flow Leakage Measurement and Analysis Performance

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Thomas, Flint O. HL 83-37	1983	Ph.D.	Goldschmidt, V.W.	Development of a Two-Dimensional Turbulent Jet Under Natural and Excited Conditions
Yang, Joseph C. H. HL 83-31	1983	Ph.D.	Hamilton, J.F.	Computer Aided Design of Multicylinder Reciprocating Compressor
Beckermann, Christoph HL 84-9	1984	MSME	Goldschmidt, V.W.	Analysis of Submerged Combustion Chamber Gas-Fired Water Heaters
Belth, Michael I.	1984	MSME	Tree, D.R.	Design of a Split System Heat Pump for Testing of the Performance of Each Component
Blinka, John HL 84-31	1984	Ph.D.	Soedel, W.	A Numerical Method for the Analysis of Stress Wave Propagation in Elastic Solids
Chen, Sheng-Chih HL 84-38	1984	Ph.D.	Tree, D.R.	Transient Modeling of Heat Exchangers
Gupta, Nishi HL 84-5	1984	MSME	Bernhard, R.J.	Analysis of the Transient Motion of a Compressor
Hampton, III, John C.	1984	MSME	Goldschmidt, V.W.	Investigation of a Hydropowered Refrigeration System
Hegedes, Michael J.	1984	MS	Hamilton, J.F.	Non-thesis. Research Study of Small Refrigeration Compressors
Herrick, Brett	1984	MSME	Bernhard, R.J.	Non-thesis. Research Study of Scaled Stiffness Matrices
Hipskind, J. Tim HL 84-28	1984	MSME	Goldschmidt, V.W.	Analysis of Natural Cooling Cycle Design
Huang, H.C. Gary HL 84-1	1984	Ph.D.	Schoenhals, R.J.	Heat Transfer in a Pulse Combustion Water Heater
Kung, Lin-E.	1984	Ph.D.	Soedel, W.	Vibration Transmission of Structures
Lennarson, James A.	1984	MSME	Hawks, K.H.	Non-thesis. Research Study of Heating Ventilation and Air Conditioning Control
Marshall, Steven E. HL 84-27	1984	MSME	Bernhard, R.J.	Investigation of Acoustic Resonance in Cavities
Maxwell, Gregory HL 84-34	1984	Ph.D.	Goldschmidt, V.W.	Non-thesis. Mathematical Modeling of an Instantaneous Gas Fired Water Heater
Tom, Steve T. HL 84-10	1984	Ph.D.	Hawks, K.H.	Demand Controlled Economizer Cycles: A Direct Digital Control Scheme for HVAC Systems
Waser, Max HL 84-6	1984	MSME	Hamilton, J.F.	Noise Transmission Characteristics of the Hermetic Shells of Fractional Horsepower Refrigerant Compressors
Bubel, Greg M. HL 85-19	1985	MSME	Starkey, J.M.	Optimum Vibration Isolation for Resonance Pass Through and Steady-State Conditions
Hagan, James P. HL 85-29	1985	MSME	Tree, D.R.	Analytical and Experimental Study of a Prototype Recirculation Boiler

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Jankov, Dusan HL 85-17	1985	MSME	Soedel, W.	Valve Failure Detection in Refrigeration Compressors
Karam, Doug	1985	MSME	Krousgrill, C.M.	Non-thesis. Research Study on Noise Source Identification
Kipp, Carl R. HL 85-26	1985	MSME	Bernhard, R.J.	Prediction of Sound Fields in Acoustical Cavities Using the Boundary Element Method
McLaughlin, Kevin HL 85-6	1985	MSME	Shoureshi, R.	Temperature-Entropy Bond Graphs for Dynamics and Control of Refrigerators
Price, Stephen M. HL 85-18	1985	MSME	Bernhard, R.J.	Identification of High Frequency Noise Paths and Noise Mechanisms in Reciprocating Hermetic Compressors
Seidel, Manfred HL 85-10	1985	MSME	Bernhard, R.J.	Transient Vibrations of Compressor Discharge Tubes
Weiss, Bruce W. HL 85-16	1985	MSME	Tree, D.R.	Time Constants and Analysis of DOE Test Procedures for a Heat Pump in the Heating and Cooling Mode
Allaei, Daryoush HL 86-32	1986	Ph.D.	Soedel, W.	Vibration Analysis of Shells of Revolution Deviating from Axisymmetry with Application to Tires
Banduric, Robert D. HL 86-25	1986	MSME	Tree, D.R.	A Reliability Study of Cooling Systems Serving Computer Rooms
Carey, David M. HL 86-6	1986	MSME	Shoureshi, R.	Dynamic Modeling and Optimal Control Design of Passive and Active Electro-Magnetic-Acoustic Transducers
Denton, Nancy HL 86-36	1986	MSME	Bernhard, R.J.	Investigation of Air Mover Noise Testing Method
Green, Edward R. HL 86-43	1986	MSME	Bolton, J.S.	Normal Incidence Sound Transmission Through Panel Constructions Containing Relatively Stiff, Partially Reticulated, Plastic Foam
Grzymala, Thomas HL 86-7	1986	MSME	Tree, D.R.	Refrigerant Mass and Mass Flow Rate for Each Component in a Split Heat Pump System
Idem, Stephen A.	1986	Ph.D.	Goldschmidt, V.W.	An Instantaneous Condensing Gas-Fired Water Heater: Modeling and Performance
Kim, Jong Shik HL 86-4	1986	Ph.D.	Soedel, W.	Three Dimensional Transient Stress Wave Propagation in a Plate with Application to Compressor Valve Failure Analysis
Krasson, William L. HL 86-42	1986	MSME	Bolton, J.S.	Noise Mechanisms of Turbochargers
Larsen, David W. HL 86-39	1986	MSME	Hamilton, J.F.	High Speed Rotor Dynamics of Systems Using Fluid Film Journal Bearings
Larson, David A.	1986	MSME	Bernhard, R.J.	Non-thesis. Research Study on Internal Combustion Engine Noise Sources
Lee, Warburg N. HL 86-44	1986	MSME	Goldschmidt, V.W.	Characterization of Heat Transfer, Pressure Drops and Mass Leakage Within a Reversing Valve

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Mickol, John D. HL 86-40	1986	MSME	Bernhard, R.J.	An Investigation of Energy Transmission Due to Flexural Wave Propagation in Lightweight, Built-up Structures
Nguyen, Han V. HL 86-41	1986	Ph.D.	Goldschmidt, V.W.	Reversing Valve Heat Transfer and Pressure Drops and Their Effect on the Steady-State Performance of a Heat Pump
Offhaus, Carl HL 86-28	1986	MSME	Goldschmidt, V.W.	Performance of Flueway Baffles in Gas-Fired Water Heaters
Perez, Ronald A.	1986	MSME	Shoureshi, R.	Non-thesis. Research Study on Active Adaptive Noise Cancellation in Ducts
Roys, Byron HL 86-16	1986	MSME	Soedel, W.	On the Acoustics of Shell Enclosed Compressors with Special Attention to Gas Pulsations on the Suction Side
Speer, Edward D. HL 86-33	1986	MSME	Tree, D.R.	Modeling and Experimental Verification of Commercial Steam Cooking Kettles
Alissi, Michael S. HL 87-34	1987	MSME	Schoenhals, R.J.	The Effect of Ambient Temperature, Ambient Humidity, and Door Openings on Household Refrigerator Energy Consumption
Beaty, Mike A. HL 87-36	1987	MSME	Krousgrill, C.M.	Energy Losses to Friction in a Reciprocating Refrigerator Compressor
Borchers, Torsten HL 87-30	1987	MSME	Bernhard, R.J.	Investigation of Noise Mechanisms in Dishwasher Appliances
Bruer, Christina V. HL 87-46	1987	MSME	Bolton, J.S.	Measurements and Predictions of the Effect of Damping Layers on the Dynamic Response of Beams
Chung, H. Arthur HL 87-35	1987	MSME	Hamilton, J.F.	Linear and Nonlinear Mathematical Modeling of the Steady State Vibration of Sealed Refrigeration Compressors
Dohner, Jeffrey L. HL 87-43	1987	Ph.D.	Shoureshi, R.	The Three-Dimensional Active Attenuation of Sound
D'Valentine, Mark HL 87-18	1987	MSME	Goldschmidt, V.W.	A Combined Appliance: Performance and Modeling
Farley, Kenneth J.	1987	MSME	Schoenhals, R.J.	Performance and Energy Consumption of a Household Refrigerator-Freezer
Galloway, Jesse	1987	MSME	Goldschmidt, V.W.	Performance Benefits and Influence on Controls in a Non-Azeotropic Refrigerant Mixture Heat Pump
Gardner, Bryce K. HL 87-20	1987	MSME	Bernhard, R.J.	Noise Source Identification Using a Numerical/Experimental Helmholtz Integral Equation Method
Graf, Peter L. HL 87-45	1987	Ph.D.	Shoureshi, R.	Semi-Active and Active Control of Frame Vibration in Automotive Vehicles
Huang, Shyh-Chin	1987	Ph.D.	Soedel, W.	Effects of Coriolis Acceleration on the Vibrations of Spinning Structures
Kohrman, Glenn J. HL 87-41	1987	MSME	Bernhard, R.J.	An Investigation of a Sound Power Measurement Fixture for Internal Combustion Engines

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Kuehl, Steven HL 87-26	1987	MSME	Goldschmidt, V.W.	Study, Validation and Improvement of a Model for Sizing a Capillary Tube for an Air-Conditioning/Heat Pump System
McKellar, Michael G. HL 87-44	1987	MSME	Tree, D.R.	Failure Diagnosis for a Household Refrigerator
Meyer, William A. HL 87-16	1987	MSME	Thompson, H.D.	An Investigation into Heat Transfer Processes in a Small Hermetic Refrigeration Compressor
Milner, Joseph R. HL 87-24	1987	Ph.D.	Bernhard, R.J.	Acoustic Shape Optimization
Mizerik, Robert L. HL 87-31	1987	MSME	Tree, D.R.	Mathematical Model of a Closed Loop Boiler with Experimental Verification
Mollo, Christopher G. HL 87-25	1987	MSME	Bernhard, R.J.	A Numerical Method for Analyzing the Optimal Performance of Active Noise Controllers
Srikanth, Ramanujam HL 87-17	1987	MSME	Thompson, H.D.	How the Design of the Suction Return Affects Compressor Efficiency
Warner, Jay V. HL 87-42	1987	MSME	Bernhard, R.J.	Active Control of Sound Fields in Three-Dimensional Enclosures
Albright., Michael F. HL 88-33	1988	MSME	Bolton, J.S.	Identification & Measurement of Forces Which Produce Noise in the Internal Combustion Engine
Bhansali, Anil P.	1988	MSME	Hittle, D.C.	Energy Use Estimates of Ice Storage and Cold Air Distribution Systems in Large Commercial Buildings
Bublitz, Mark C. HL 88-18	1988	MSME	Tree, D.R.	Modeling and Experimental Verification of Vapor Condensing Commercial Cooking Equipment
Dietschi, Urs D. HL 88-23	1988	MSME	Bolton, J.S.	Identification, Assessment and Control of Noise Sources in a Domestic Vacuum Cleaner
Durchholz, Anthony J.	1988	MSME	Starkey, J.M.	Non-thesis. Research Study on Dynamic Substructuring: An Automotive Application
Kim, Jong Hyuk HL 88-6	1988	Ph.D.	Soedel, W.	Simulation of a High Speed Hermetic Compressor with Special Attention to Gas Pulsations in Three Dimensional Continuous Cavities
Krueger, Manfred HL 88-14	1988	MSME	Hamilton, J.F.	Theoretical Simulation and Experimental Evaluation of an Hermetic Rolling Piston Rotary Compressor
Lin, Hong-Yuh HL 88-17	1988	Ph.D.	Hamilton, J.F.	A Time Domain Approach for Noise Source Identification in Periodic Systems
Seidel, Detlev K. HL 88-21	1988	MS	Davies, P.	Time Series Modeling of Non-Linear Systems
Skok, Holger HL 88-32	1988	MSME	Ramadhyani, S./ Schoenhals, R.J.	Buoyancy Driven Flow and Heat Transfer in a Side-Facing Open Cavity with Application to Heat Transfer in a Household Refrigerator

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Smith, David C. HL 88-26	1988	MSME	Bernhard, R.J.	Noise Control Design of Vibrating Structures Using the Direct Boundary Element Method
Smith, Clarence C. HL 88-27	1988	MSME	Kokini, K.	Transient Thermal Fracture of Bonded Dissimilar Materials
Wakeland, Jack F. HL 88-19	1988	MSME	Tree, D.R.	Evaporator Simulation
Waters, David E. HL 88-25	1988	MSME	Bernhard, R.J.	An Investigation of Adaptive Digital Signal Processing Techniques Applied to Active Noise Control
Wohlever, J. Chris HL 88-24	1988	MSME	Bernhard, R.J.	Vibrational Power Flow Analysis of Rods and Beams
Haydock, Paul M. HL 88-31	1989	MSME	Hittle, D.C.	Model of a Humidification System Using Steam Injection
Bouchillon, M. Scott HL 89-10	1989	MSME	Shoureshi, R.	Optimal Tuning for Adaptive Hydraulic Engine Mounts
Camejo, Pedro J. HL 89-37	1989	MSME	Hittle, D.C.	An Expert System for the Design of Heating, Ventilating and Air Conditioning Systems
de Souza Damasceno, Guido HL 89-13	1989	Ph.D.	Goldschmidt, V.W.	Interrelationship of Charge, Operating Conditions, and Type of Expansion Device on an Air/Air Heat Pump System
Gray, Scott D. HL 89-20	1989	Ph.D.	Starkey, J.M.	Structural Dynamics Modification, Optimization, and Substructure Separation
Hsu, Mau-Pin HL 89-12	1989	Ph.D.	Soedel, W.	Investigation of Natural Mode Measurement on Shells Using Hand Held Transducers with Special Attention to Compressor Shells
Jacobi, Anthony M.	1989	Ph.D.	Goldschmidt, V.W.	High Efficiency Boilers: Condensation and Transient Behavior
Mandic, Douglas S. HL 89-31	1989	MSME	Jones, J.D.	Adaptive Active Control of Enclosed Sound Fields in Elastic Cylinders Via Vibrational Inputs
Pidaparti, Ramana M.V. HL 89-22	1989	Ph.D.	Yang, H.T./ Soedel, W.	Modeling and Fracture Prediction in Rubber Composites
Ro, Hee Seung HL 89-36	1989	Ph.D.	Soedel, W.	Modeling and Interpretation of Fatigue Failure Initiation in Rubber Related to Pneumatic Tires
Stallard, Laura HL 89-25	1989	MSME	Shoureshi, R.	Model Based Expert Systems for Failure Detection and Identification of Household Refrigerators
Ufford, Donald A. HL 89-38	1989	MSE	Bernhard, R.J.	Development of a Digital Signal Processing Technique to Determine the Number of Incoherent Sources in a System with Application to an Automotive Powertrain
Wagner, John R. HL 89-11	1989	Ph.D.	Shoureshi, R.	Nonlinear Observer Design and Failure Diagnostics for Thermofluid Systems

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Wolfert, J. Jeff HL 89-33	1989	MSME	Shoureshi, R.	Real Time Structural Parameter Identification with Applications for the Optimal Tuning of Adaptive Hydraulic Engine Mounts
Andrews, Robert W. HL 90-18	1990	MSME	Jones, J.D.	Noise Source Identification in Twin-Screw Compressors
Batta, George R. HL 90-32	1990	Ph.D.	Shoureshi, R.	Real-Time Adaptive Active Control of Sound Fields
Bekker, John E. HL 90-12	1990	MSE	Meckl, P.H.	Humidity Control System
Berther, Thomas HL 90-6	1990	MSME	Davies, P.	Condition Monitoring of Check Valves in Reciprocating Pumps
Boyd, Brian S.	1990	MSE	Bolton, J.S.	A Special Analysis Approach to Obtaining Transient Response of Plates
Brown, Delores E. HL 90-15	1990	MSME	Sherman, P.	Noise Source Identification of a Multi-Cylinder Reciprocating Automotive Air Conditioning Compressor
Caris, John C. HL 90-16	1990	MSME	Starkey, J.M.	An Improved Method for Optimal Design of Vehicle Body Mounts
Deol, Raj K.	1990	MSME	Shoureshi, R.	Non-thesis. Research Study of Experimental Investigation of Actuators for Self-Tuning Hydraulic Engine Mounts
Dolin, Ronald M. HL 90-29	1990	Ph.D.	Bernhard, R.J.	Integrating Modeling, Analysis, and Optimization into a Shape Variable Engineering Design Process
Dubrouillet, James N. HL 90-5	1990	MSME	Goldschmidt, V.W./ Jones, J.D.	Noise Control on a Pulse Furnace
Koai, Kwang-Lu HL 90-21	1990	Ph.D.	Soedel, W.	Mathematical Modeling of Twin Screw Compressors with Special Attention to Gas Pulsations in Three-Dimensional Gas Paths
Konieczny Jr., Peter HL 90-17	1990	MSME	Bolton, J.S.	Development of a Noise Prediction Scheme for Low-Noise Centrifugal Blowers
Liles, Gregory D. HL 90-8	1990	MSME	Bernhard, R.J.	An Investigation of Structural Dynamic Shape Optimization
Nasr, Karim J.	1990	MSME	Hittle, D.C.	Energy Use Estimates of Ice Storage/Heat Recovery Systems in Large Office Buildings
Rogers, C. Shawn HL 90-27	1990	MS	Tree, D.R.	Algebraic Modeling of Components and Computer Simulation of Refrigerator Steady-State Operation
Stutts, Daniel S. HL 90-31	1990	Ph.D.	Soedel, W.	A Study of Horizontal and Vertical Forces Generated by Rolling Tires
VanDoren, Vance J. HL 90-30	1990	Ph.D.	Shoureshi, R.	The Iterative Least Squares Parameter Estimation Technique for Intermittent Systems with Applications to Intelligent Building Control

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Chang, Peter S.	1991	MSME	Jones, J.D.	Non-thesis. Research Study on Active Control of Rotorcraft Interior Noise
Ferren, W. Brent HL 91-24	1991	MSME	Bernhard, R.J.	An Investigation of the Active Control of Structure-borne Road Noise in Automobile Cabins
Frabotta, Joseph HL 91-9	1991	MSME	Jones, J.D.	Investigation of Noise Generation Mechanisms and Transmission Paths of Fractional Horsepower Reciprocation Piston and Rolling Piston Compressors
Horner, Jeffrey B. HL 91-4	1991	MSME	Meckl, P.H.	Active Vibration Control of Coupled Structures
Huang, David T.-Y. HL 91-20	1991	Ph.D.	Soedel, W.	On the Free and Forced Vibration of Plate-shell Combinations Using the Receptance Method
Ochsner, Scott D. HL 91-25	1991	MSME	Bernhard, R.J.	Structure-borne Noise Modeling of Automotive Suspension and Vehicle Systems
Rice, Stephen H. HL 91-5	1991	MSME	Goldschmidt, V.W./ Tree, D.R.	Evaluation of an Alternative Refrigerant
Scheper, Christine M. HL 91-10	1991	MSME	Bernhard, R.J.	An Investigation of the Behavior of Adaptive Recursive Algorithms Applied to the Control of Modal Systems
Shiau, Nae-Ming HL 91-3	1991	Ph.D.	Bolton, J.S.	Multi-Dimensional Wave Propagation in Elastic Porous Materials with Applications to Sound Absorption, Transmission and Impedance Measurement
Stell, James D. HL 91-23	1991	Ph.D.	Bernhard, R.J.	Active Noise Control in Finite Length Waveguides
Takeuchi, Yoshimi R. HL 91-13	1991	MSME	Kokini, K.	Thermal Fracture of Ceramic Thermal Barrier Coatings
Thrasher, Mark A. HL 91-17	1991	MSME	Jones, J.D.	A Fundamental Characterization of Shape Memory Alloy Actuators for Use in Hand Protheses
Van Wyk, Kenric D. HL 91-22	1991	MSE	Bolton, J.S.	Models for the Characterization of the Acoustical Properties of Asphalt Surfaces
Wahl, Thomas J. HL 91-11	1991	MSME	Bolton, J.S.	The Prediction and Analysis of Transient Structural Responses
Zen Ruffinen, Mark A. HL 91-8	1991	MSME	Goldschmidt, V.W./ Jones, J.D.	Noise Source Identification on a Pulse Furnace with Potential Methods of Noise Control
Ball, Jeffrey K.	1992	MSE	Jones, J.D.	Non-thesis. Research Study on Active Control of the Divergence of Aircraft Wing Models
Bouthier, Oliver M. HL 92-18	1992	Ph.D.	Bernhard, R.J.	Energetics of Vibrating Systems
Hallman, Darren L. HL 92-31	1992	MSME	Bolton, J.S.	Generalized Techniques for the Application of Nearfield Acoustical Holography in Industrial Measurement Environments

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Holliday, William M. HL 92-4	1992	MSME	Goldschmidt, V.W./ Jones, J.D.	Noise Control on a Pulse Furnace
Hu, Ziqiang HL 92-11	1992	Ph.D.	Bolton, J.S.	Measurement and Prediction of Sound Propagation Over an Absorbing Plane (Final Report)
Huff, Jr., John E. HL 92-35	1992	MSE	Jones, J.D.	Development of a Measurement Technique to Evaluate Rotor Chatter in Twin Screw Compressors
Kim, Han Jun HL 92-24	1992	Ph.D.	Soedel, W.	Computer Simulation of Gas Pulsation Generated Sound in Compressors
Kim, Sung Jin HL 92-32	1992	Ph.D	Jones, J.D.	A Study of Piezoelectric Actuators for Active Noise and Vibration Control
Kompella, Murty S. HL 92-13	1992	Ph.D.	Bernhard, R.J.	Improved Multiple-Input/Multiple Output Modeling Procedures with Consideration of Statistical Information
Laux, Peter C. HL 92-7	1992	MS	Davies, P.	The Identification of Signal Parameters that Influence the Perception of Sound Quality
McKellar, Michael G. HL 92-17	1992	Ph.D.	Tree, D.R./ Hamilton, J.F.	Optimization of a Household Refrigerator Considering Alternative Refrigerants
Nickel, David A. HL 92-26	1992	MSE	Krousgrill, C.M./ Sadeghi, F.	Analysis of the Dynamics of an X-Ray Tube Rotor
Rahmani, Karim HL 92-5	1992	Ph.D.	Shoureshi, R.	Development and Implementation of a Fuzzy Optimal Expert Controller for Intelligent Buildings
Roggenkamp, Timothy J. HL 92-15	1992	Ph.D.	Bernhard, R.J.	An Investigation of the Indirect Measurement of Broadband Force Spectra
Rooke, Steven P. HL 92-12	1992	Ph.D.	Goldschmidt, V.W.	Study of Heat Pump Operating Parameters Related to Controls and Performance Including Variable Speed and Transient Effects
Scott, Wesley D. HL 92-34	1992	MSE	Tree, D.R.	Experimental Simulation of Refrigerator Steady-State Operation Using Alternative Cycles and Alternative Refrigerants
Sinha, Arvind K. HL 92-33	1992	Ph.D.	Kokini, K.	Transient Thermal Fatigue of Ceramic Composites
Torcellini, Paul A. HL 92-6	1992	Ph.D.	Shoureshi, R.	Supervisory Control for Intelligent Building Systems
Tsoi, Wan HL 92-21	1992	MSME	Bolton, J.S.	Acoustical Modeling of Polymide Foams
Wiederhold, Jason H. HL 92-10	1992	MSME	Bernhard, R.J.	Indirect Measurement of Forces Exciting Engine-Like Structures
Adams, Glynn P. HL 93-23	1993	Ph.D.	Soedel, W.	Modelling and Computer Simulation of Rotor Chatter and Oscillating Bearing Forces in Twin Screw Compressors

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Beauvilain, Thierry A. HL 93-17	1993	MSME	Bolton, J.S.	Multipole Sources for the Active Control of Radiated Sound Fields
Case, Michael M. HL 93-14	1993	MSME	Kokini, K.	Mechanisms of Interface Crack Initiation in Multilayer Ceramic Thermal Barrier Coatings Under Thermal Loads
Chang, Seo-il HL 93-21	1993	Ph.D.	Bajaj, A.K.	Studies in Non-Linear Multi-Mode Responses of Harmonically Excited Rectangular Plates with Internal Resonances
Cho, Phillip E. HL 93-20	1993	Ph.D.	Bernhard, R.J.	Energy Flow Analysis of Coupled Structures
Cuhat, Daniel R.	1993	MSME	Davies, P.	Non-thesis. Development of a Multi-Point Measurement System for Flexible Structures
Heatwole, Craig M. HL 93-22	1993	MSME	Bernhard, R.J.	Parametric Studies of the Active Control of Structure-Borne Road Noise
Hollingsworth, Larry D. HL 93-18	1993	MSME	Bernhard, R.J.	Performance Prediction of Active Mount Vibration Control Using Finite Element Methods
Liu, Zheji HL 93-11	1993	Ph.D.	Soedel, W.	Simulation of a Variable Speed Compressor with Special Attention to Supercharging Effects
Liu, Zheji HL 93-12	1993	Ph.D.	Soedel, W.	Instructions of the Computer Simulation Program (A Supplementary Report)
Masters, Alan R. HL 93-5	1993	MSME	Jones, J.D.	Design Guidelines for Embedded Piezo-Actuators in a Layered Composite Structure
Mirth, David R. HL 93-1	1993	Ph.D.	Ramadhyani, S.	Experimental Studies and Mathematical Modeling of Chilled-Water Cooling Coils
Morris, F. Bruce HL 93-6	1993	MSME	Braun, J.E.	Experimental and Simulated Performance of Optimal Control of Building Thermal Storage
Priebe, Michael	1993	MSME	Shoureshi, R.	Non-thesis. Research Study of Adaptive Control of Electro-Hydraulic Actuators
Raman, Arvind HL 93-25	1993	MSME	Bajaj, A.K.	A Study of the Response of Nonlinear Systems to Nonstationary Excitations
Rutterman, Daniel J. HL 93-1	1993	MSME	Meckl, P.	Experiments on Active Vibration Control of Coupled Flexible Structures
Santiago, Teresa HL 93-15	1993	MSME	Bernhard, R.J.	Active Control of the Directivity of a Noise Source
St. Onge, Jeffrey D. HL 93-10	1993	MSME	Goldschmidt, V.W./ Jones, J.D.	Evaluation, Prototyping, and Modeling of Multiplex Heat Pump Systems
Surella, Matthew M. HL 93-9	1993	MSME	Krousgrill, C.M.	The Effects of Clearance Gaps on Torsional Drivetrain Dynamics
Abram, Kwin R. HL 94-11	1994	MSME	Bernhard, R.J.	Indirect Measurement of Internal Engine Forces

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Brackney, Larry J.	1994	Ph.D.	Shoureshi, R.	Automated Reasoning Techniques for Intelligent Control of Building Systems
Bunker, Byron J. HL 94-13	1994	MSME	Franchek, M.	Multivariable Control of an Engine-Dynamometer System
Conrad, Daniel C. HL 94-22	1994	Ph.D.	Soedel, W.	The Fundamentals of Automatic Washing Machine Design Based Upon Dynamic Constraints
DeVries, Loren A. HL 94-16	1994	MSME	Bolton, J.S.	Acoustical Holography in Spherical Coordinates for Noise Source Identification
Drees, Kirk H. HL 94-21	1994	MSE	Braun, J.E.	Modeling and Control of Area Constrained Ice Storage Systems
Kang, Yeon June HL 94-25	1994	Ph.D.	Bolton, J.S.	Studies of Sound Absorption By and Transmission Through Layers of Elastic Noise Control Foams: Finite Element Modeling and Effects of Anisotropy
Niu, Weiguang HL 94-4	1994	MSE	Franchek, M.	Robust Controller Design for Highly Coupled Multivariable Systems
Ryan, Matthew W. HL 94-17	1994	MSME	Franchek, M.	Adaptive Passive Vibration Control
Sonti, Venkata R. HL 94-5	1994	Ph.D.	Jones, J.D.	Analysis of Flat and Curved Piezo-Actuators for Vibration Control of Cylindrical Shells
Tarplee, Jennifer L. HL 94-12	1994	MSME	Goldschmidt, V.W.	Study of Refrigerant Charge Effects in a Prototype Multiplex Heat Pump
Thompson, James A. HL 94-1	1994	MSME	Starkey, J.M.	The Development of an Experimental Test Stand to Measure the Stiffness Characteristics and Dynamic Response of a Driveline System
Warren, Donald G. HL 94-18	1994	MSME	Goldschmidt, V.W.	A Computer Model for Gas-Fired Tubular Heat Exchangers with Experimental Validations
Brown, Daniel V. HL 95-9	1995	MSME	Mongeau, L.	The Design, Construction, and Validation of a Small, Low-Speed, Quiet Wind Tunnel with Application to Noise from the Flow Over a Cavity
Davis, Coby L.	1995	MSME	Braun, J.E.	Non-thesis. Evaluation of Steady-State Detectors for Fault Detection and Diagnostics
Douglas, Jon D. HL 95-21	1995	MSME	Braun, J.E.	A Cost-Based Method for Comparing Alternative Refrigerants Applied to R-22 Systems
Gardner, Bryce K. HL 95-4	1995	Ph.D.	Bolton, J.S.	External System Modeling with Application to Vibro-Acoustic Optimization
Green, Edward R. HL 95-1	1995	Ph.D.	Bolton, J.S.	An Examination of "Smart" Foams for Active Noise Control
Keeney, Kevin R.	1995	MSME	Braun, J.E.	Building Characteristics and Control Strategies for the Use of Building Thermal Mass in Cooling

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Kim, Yoon-Ki HL 95-20	1995	MSME	Soedel, W.	The Analysis and Simulation of Gas Pulsations in a Valve-Muffler System of a Rolling Piston Compressor
Morse, Phillip R. HL 95-19	1995	MSME	Starkey, J.M.	Development and Verification of a Force-Based Roll Center Model for Vehicle Suspensions
Navarro de Andrade, Joao Eduardo	1995	MS	Goldschmidt, V.	Investigation of Rotary Compressor Oil Carry-Over
Oh, Joon-Yeon	1995	MSME	Bolton, J.S.	Non-thesis. Finite Element Models for Sound Transmission
Pan, Fumin HL 95-14	1995	Ph.D.	Jones, J.D.	A Study of Piezoelectric Transducers in Application to Active Control of Reciprocating Compressor Noise
Piedmonte, Michael D. HL 95-11	1995	MSME	Meckl, P.H.	Discrete Multivariable Vibration Control of a Flexible Beam Using Model Reference QFT
Rossi, Todd M. HL 95-13	1995	Ph.D.	Braun, J.E.	Detection, Diagnosis, and Evaluation of Faults in Vapor Compression Cycle Equipment
Shahin, Ali R. HL 95-17	1995	Ph.D.	Jones, J.D./ Meckl, P.H.	Modeling and Control of Shape Memory Alloy Actuators to Reduce Vibration in a Building Model
Silverstein, Brian R.	1995	Ph.D.	Davies, P.	Monitoring of Valve Condition in Reciprocating Pumps by Analysis of Vibration Signatures
Wahlberg, Curtis J.	1995	MSME	Goldschmidt, V.W.	A Compressor Performance Evaluation of Hydrocarbon Refrigerants
Wang, Peishuh -F. HL 95-10	1995	Ph.D.	Davies, P.	Development of Experimental Model Building Techniques
Yim, Denny M. HL 95-12	1995	MSME	Bolton, J.S.	Influence of Surface Variables on Motor Vehicle Passby Noise Measurements
Aldrin, John C. HL 96-2	1996	MSME	Soedel, W.	Investigation of Vibration Control Systems Applied to Automatic Washer Suspension Design
Becker, Richard L. HL 96-4	1996	MSME	Starkey, J.M.	The Effects of Free-Play on Torsional Drive-line Dynamics
Bitsie, Fernando HL 96-9	1996	Ph.D.	Bernhard, R.J.	The Structural-Acoustic Energy Finite Element Method and Energy Boundary Element Method
Buhr, Craig A.	1996	MSME	Franchek, M.	Noncollocated Adaptive-Passive Vibration Control Using Self-Tuning Vibration Absorbers
Danforth, III, Robert J. HL 96-14	1996	MSME	Mongeau, L.	Sound Transmission Through Road Vehicle Primary Bulb Seal Assemblies
de Bedout, Juan M.	1996	MSME	Franchek, M.	Adaptive-Passive Noise Control with Self-Tuning Helmholtz Resonators
Hallman, Darren L. HL 96-3	1996	Ph.D.	Bolton, J.S.	Nearfield Acoustical Holography for Interior Spaces

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Hamilton, G. Kent	1996	MSME	Franchek, M.	Robust Controller Design for Internal Combustion Engines
Kurth, Scott W. HL 96-13	1996	MSME	Bernhard, R.J.	The Effect of Nonlinearities on Active Noise Control Systems
Lai, Peter Chang-Ching HL 96-8	1996	Ph.D.	Soedel, W.	A General Procedure for the Analysis of Gas Pulsations in Thin Compressor or Engine Manifolds and Thin Shell Type Mufflers
Minner, Brian L. HL 96-6	1996	MSME	Braun, J.E.	Design Optimization for Thermoacoustic Cooling Systems
Montgomery, Stephen W. HL 97-11	1996	MSME	Goldschmidt, V.W./ Franchek, M.A.	Thermal Performance of Clothes Dryers: Vacuum Drying
Temple, Keith A. HL 96-7	1996	Ph.D.	Goldschmidt, V.W.	Thermal and Internal Acoustic Model of a Helmholtz Type Pulse Combustion Furnace
Banerjee, Bappaditya HL97-5	1997	Ph.D.	Bajaj, A.K./ Davies, P.	Dynamics of Multi Degree-of-Freedom Stationary and Nonstationary Nonlinear Systems
Bezemek, Jacklyn D. HL 97-9	1997	MSE	Mongeau, L.	Aeroacoustic Source Characterization Method with Applications to Flow-Excited Cavity Pressure Fluctuations and Computer Cooling Fan Noise
Breuker, Mark HL97-29	1997	MSME	Braun, J.E.	Evaluation of a Statistical, Rule-Based Fault Detection and Diagnostics Method For Vapor Compression Air Conditioners
D'Souza, Jason M. HL 97-15	1997	MSME	Starkey, J.M.	A Full-Vehicle Force-Based Steady-State Cornering Model
Erb, Geoffrey A. HL 97-8	1997	MS	Starkey, J.M.	The Effects of Clearances on the Frequency Response of a Two-Degree-of-Freedom System
Glass, John W.	1997	MSME	Franchek, M.	NARMAX Modeling and Robust Feedback Control of Internal Combustion Engines
Haid, Daniel A. HL97-21	1997	MSME	Mongeau, L.	Sound Source Identification Method for Turbomachinery
Halm, Nils HL97-31	1997	MSME	Groll, E.A./ Braun, J.E./ Tree, D.R.	Mathematical Modeling of Scroll Compressors
Harris, Daniel HL97-19	1997	Ph.D.	Goldschmidt, V.W.	Heat Transfer Processes of Serpentine Tubular Heat Exchangers
Hartwig, Troy J. HL 97-12	1997	MSME	Bolton, J.S.	Measurements of the Acoustical Properties of Asphalt Surfaces in the Presence of Wind and Temperature Gradients
Heatwole, Craig M. HL 97-7	1997	Ph.D.	Bernhard, R.J./ Franchek, M.A.	Robust Feedback Control of Flow Induced Structural Radiation of Sound
Herman, Paul A. HL 97-6	1997	Ph.D.	Franchek, M.A.	Performance Enhancement of Regulating Systems Via Actuator Saturation

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Hommema, Scott E. HL97-33	1997	MSME	Goldschmidt, V.W.	Condensation Heat Transfer in Pulsating Flow
Huff, Jr., John E. HL 97-2	1997	Ph.D.	Bernhard, R.J.	Analysis of Structural Systems in the Mid Frequency Range
Johnson, Joel Scott HL97-30	1997	MSME	Mongeau, L.	An Experimental Study of Flow-Excited Cavity Resonance Suppression Techniques
Koffman, Scott J.	1997	Ph.D.	Franchek, M.A.	A Modified Gaussian Neural Network and Growth/Training Algorithm for On-Line Identification of Nonlinear Dynamic Systems
Kook, Hyungseok HL97-32	1997	Ph.D.	Mongeau, L.	Prediction and Control of the Interior Pressure Fluctuations in a Flow-Excited Helmholtz Resonator
Lai, Heng Yi HL97-34P	1997	Ph.D.	Bolton, J.S.	Modeling of Acoustical Properties of Limp Fibrous Materials
LeRoy, Jason HL97-25	1997	MSME	Groll, E./ Braun, J.	Capacity and Power Demand of Unitary Air Conditioners and Heat Pumps Under Extreme Temperature and Humidity Conditions
Mercer, Nicholas S. HL 97-3	1997	MSME	Starkey, J.M.	Analysis of the Characteristics and Response of an Engine Equipped with Nonlinear Engine Mounts Subjected to Variable Applied Loads
Moebs, Gregory B. HL97-28	1997	MSME	Bolton, J.S./ Davies, P.	De-Dopplerization and Visualization of Sound Fields Emitted by Moving Noise Sources
Potter, Patrick HL97-24	1997	MSME	Starkey, J.	The Effects of Suspension Turning on the Limit Handling Behavior of High Performance Vehicles
Song, Heuk-Jin (Bryan)	1997	MSME	Soedel, W.	Investigation of Liquid Hammer By Modal Analysis
Takeuchi, Yoshimi R. HL 97-10	1997	Ph.D.	Kokini, K.	Multiple Surface Fracture of Ceramic Thermal Barrier Coatings Under Transient Thermal Loads
West, Jonathan D. HL97-23	1997	MSE	Braun, J.	Evaluation of Methods For Controlling Ice Storage Systems
Weston, Adam HL97-27	1997	MSME	Mongeau, L.	Measurements and Predicting of the Fluctuating Thrust of a Vane Axial Waterjet Pump
Wyatt, Chancelor	1997	MSME	Krousgrill, C.M.	Non-thesis. Acoustical Measurements of High Speed Spindle
Alves, Goldino S.	1998	Ph.D.	Krousgrill, C./ Shoureshi, R.	A Feedback Control of Non-Minimum Phase Systems with Applications to Piezo-Driven Active Noise Control
Barbee, Angela	1998	MSME	Krousgrill, C.	Non-thesis. Analysis of Automotive Mirror Shake
Causey, Andrew HL 98-12	1998	MSME	Braun, J./ Groll, E.	Non-thesis. Compressor Load Stand: Commissioning and Control Strategies
Choules, Brian D.	1998	Ph.D.	Kokini, K	Thermal Fracture of Ceramic Coatings Under High Heat Flux with Time-Dependent Behavior

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Gangopadhyay, Anupam	1998	Ph.D.	Meckl, P.	Load Compensation in a Lean Burn Natural Gas Vehicle
Gilmer, Deidre M. HL98-14P	1998	MSME	Bernhard, R.J.	Signature Recovery Techniques With Applications to Engine Valve Trains
Groom, Richard S. HL98-21P	1998	MSME	Bernhard, R.J.	A Model Quality Improvement Process Applied to Statistical Energy Analysis
Katragadda, Srinivas HL98-18	1998	MSME	Bolton, J. S.	A Model for Sound Absorption by and Sound Transmission Through Limp Fibrous Layers
Kostek, Theodore M.	1998	MSME	Franchek, M.	Hybrid Noise Control in Ducts
Laux, Peter C. HL98-10	1998	Ph.D.	Davies, P.	Using Artificial Neural Networks to Model the Human Annoyance to Sound
McCabe, Sarah A.	1998	Ph.D.	Davies, P.	Nonlinear Digital System Identification Application Vibrating Structures
Montgomery, Kent HL98-17	1998	MSME	Braun, J.	Development of Analysis Tools for the Evaluation of Thermal Mass Control Strategies
Shah, Minesh A.	1998	Ph.D.	Franchek, M.	Steady State Adaptive Fueling Control of Internal Combustion Engines
Skowron, Erick B. HL98-20P	1998	MSME	Goldschmidt, V.W./ Groll, E.A.	Investigation of Refrigerant/Oil Flow Through Suction Accumulators
Smith, Lane R.	1998	MSME	Franchek, M.A.	Nonlinear Modeling and Robust Control of a Single Cylinder I.C. Engine for Hybrid Vehicle Applications
White, Seth W. HL98-22	1998	MSME	Davies, P./ Bajaj, A.	Dynamic Modeling and Measurement of Occupied Car Seats and Seating Foam
Yun, Richard J. HL98-13	1998	MSME	Bolton, J.S.	Development of a New Sound Transmission and Numerical Optimization of Sound Absorption and Transmission
Albert, David S.	1999	MSME	Franchek, M./ Bernhard, R,/ Krousgrill, C.	Non-thesis. Active Control of Transmission Loss in Lightly Damped Panels
Block, Brian	1999	MSME	Franchek, M.	Non-thesis. Magneto-Rheological Fluid Damper Modeling
Comstock, Matthew HL99-20	1999	MSME	Braun, J.	Development of Analysis Tools for the Evaluation of Fault Detection and Diagnostics in Chillers
Cuhat, Daniel R. HL99-12P	1999	Ph.D.	Davies, P.	Multi-Point Vibration Measurement Using PVDF Piezoelectric Film with Application to Direct Sensing of Modes in A Structure
Deignan, Paul B. HL99-9	1999	MSME	Meckl, P.	Virtual Sensing: The Development of a Methodology for Internal Combustion Engine Torque Estimation
Han, Fei HL99-8	1999	Ph.D.	Bernhard, R./ Mongeau, L.	Prediction of Flow-Induced Sound and Vibration Using the Energy Flow Analysis Method

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Hasselbring, D. Blake HL99-6P	1999	MSME	Starkey, J.	A Substructuring Technique to Predict Axle Vibration Due to Housing and Drive Train Component Interaction
Ingram, Grant A. HL99-11P	1999	MSME	Franchek, M./ Chiu, G.	Improving Operator Perception of Machine Response
Marcus, Bradley F. HL99-25TP	1999	MSME	Groll, E./ Goldschmidt, V.W.	Effects of Applications on Reliability of Performance of Unitary Split Systems
May, Philip G. HL99-3	1999	MSME	Davies, P./ Bolton, J.S.	Assessment of Refrigerator Sound Quality
Memering, Douglas HL99-21	1999	MSME	Meckl, P.	The Application of Adaptive Control Algorithms to the Low Idle Governor of a Heavy Duty Engine
Pitla, Srinivas S. HL99-10	1999	MSME	Ramadhyani, S./ Groll E.	Heat Transfer From In-Tube Cooling of Supercritical Carbon Dioxide
Ramamurthy, Sundar	1999	MSME	Sadeghi, F./ Krousgrill, C.	Noise and Vibration in Rolling Bearing Systems Lubricated with Grease
Whiting, Ian HL99-22	1999	MSME	Franchek, M.	Feasibility Study of Hydraulic Pump Parameter Estimation Via Measurement of Pump Electrical Capacitance
Blake, Lesli HL2000-1P	2000	MSE	Franchek, M./ Goldschmidt, V.	Micron-Sized Particle Adhesion on Surfaces and Effects of Oil Presence on Adhesion
Chaturvedi, Nitin HL 2000-15	2000	MSME	Braun, J.	Analytical Tools for Dynamic Building Control
Chen, Yu HL2000-17P	2000	Ph.D.	Groll, E.A.	Mathematical Modeling of Scroll Compressors
Chen, Bin HL 2000-16	2000	MSME	Braun, J.E.	Evaluating the Potential of On-Line Fault Detection and Diagnostics for Rooftop Air Conditioner
Cunningham, Patrick J. HL 2000-23	2000	MSME	Franchek, M.A.	Automated Speed Controller Synthesis for Internal Combustion Engines
de Bedout, Juan M.	2000	Ph.D.	Franchek, M.	Sequential Multivariable Feedback Controller Design for Fault-Tolerant Applications
Fang, Lei HL2000-8P	2000	Ph.D.	Goldschmidt, V.W./ Abraham, J.	A Computational and Experimental Investigation of Clamshell Heat Exchangers in Residential Gas Furnaces
Glass, John W. HL 2000-24	2000	Ph.D.	Franchek, M.A.	Frequency Based Nonlinear Controller Design for Regulating Systems Subject to Time Domain Constraints
Hagenmeyer, Lorenz	2000	MSME	Bajaj, A	Non-thesis. Occupied Car Seats Dynamics
Kim, Yoon-Ki	2000	Ph.D.	Soedel, W.	Forced Response of Tires with Mass Nonuniformities Using Ring Models
Maulik, Indranil	2000	MSME	Mongeau, L./ Braun, J.	Effect of Body Forces on Thermodynamic Cycles

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Montgomery, Stephen W. HL 2000-21	2000	Ph.D.	Goldschmidt, V.W./ Franchek, M.A.	Surface Microscopy and Particle Adhesion
Palmer, Andrew HL 2000-12	2000	MSME	Yao, B.	Indirect Adaptive Robust Control of Nonlinear Systems with Application to Electro-Mechanical/Hydraulic Systems
Pizzo, Alaina HL 2000-20	2000	MSME	Franchek, M.	Multivariable Modeling and Robust Control Technology
Robinson, Douglas M. HL2000-7	2000	Ph.D.	Groll, E.A.	Modeling of Carbon Dioxide Based Air-to-Air Conditioners
Servis, Brian K. HL2000-2P	2000	Ph.D.	Krousgrill, C./ Davies, P./ Bajaj, A.	The Onset of Squeal Vibrations Resulting from a Coupled Mode Instability
Singh, Rajiv HL 2000-18	2000	MSME	Davies, P./ Bajaj, A.	Dynamic Modeling of Polyurethane Foam and Development of System Identification Methodologies
Stroh, David J. HL2000-11	2000	MSME	Franchek, M.	Transient and Steady-State Adaptive Fueling Control of Internal Combustion Engines
Unglenieks, Robert J. HL 2000-22	2000	Ph.D.	Bernhard, R.J.	Estimation of Flexural Wave Energy Parameters Using Wavenumber Transform Techniques
Wang, Shuo HL2000-9	2000	Ph.D.	Bernhard, R.	High Frequency Energy Flow Analysis Methods: Numerical Implementation, Applications, and Verification
Zhao, Wei HL 2000-14	2000	Ph.D.	Frankel, S./ Mongeau, L.	A Numerical Investigation of Sound Radiated from Subsonic Jets with Application to Human Phonation
Alexander, Aaron	2001	MSME	Mongeau, L.	Non-thesis. Micro-Channel Heat Exchangers for Thermoacoustic Coolers
Anderson, Michael	2001	MSME	Davies, P.	Non-thesis. Sound Quality Inside Earth Moving Equipment Cabs
Bu, Fanping HL 2001-9	2001	Ph.D.	Yao, B.	Nonlinear Model Based Coordinated Adaptive Robust Control of Electro-Hydraulic Systems
Chang, Eric	2001	MSME	Krousgrill, C./ Sadeghi, F.	Vibration of Angular Contact Bearings Lubricated with Grease
DeBoer, Christopher HL 2001-14	2001	MSME	Yao, B.	Energy-Savings Control of Electrohydraulic Systems with Over-Redundant Programmable Valves
Feist, Jeffrey HL 2001-21	2001	MS	Bernhard, R.J./ Mongeau, L.	Noise Control and Speech Intelligibility Improvement of a Toll Plaza
Grinnip, Roger HL 2001-23	2001	MSME	Mongeau, L.	Numerical Investigation of High Amplitude One-Dimensional Acoustic Standing Waves
Klos, Jake HL 2001-1P	2001	MSME	Bernhard, R.	Modeling Cylindrical Shell Dynamics Using Energy Flow Methods: An Analytical and Experimental Validation
Li, Gang HL 2001-19P	2001	MSME	Braun, J./ Groll, E./ Frankel, S.	A Numerical and Experimental Investigation of Refrigerant Flow Control Devices

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Li, Daqing HL 2001-7	2001	MSME	Groll, E.A.	Theoretical and Experimental Investigation of a Carbon Dioxide Based Air Conditioning System
Padmanabhan, Hemanth	2001	MSME	Franchek, M.	Non-thesis. Engine Diagnostics
Reedy, John T. HL 2001-13	2001	MSME	Chiu, G./ Yao, B.	Design and Control of High Performance Electrohydraulic Systems
Roecker, Ryan	2001	MSME	Franchek, M.	Non-thesis. Engine Diagnostics
Shinde, Ninad	2001	MSME	Chiu, G.	Feasibility Study for the Design and Fabrication of a Mesoscale Pulse Tube Refrigerator
Song, Bryan (H.J.) HL 2001-15	2001	Ph.D.	Bolton, J.S.	Measurement and Enhancement of Acoustical Properties of Porous Materials
Sun, Zeqiang HL 2001-8	2001	MSME	Groll, E.A.	CO2 Flow Boiling Heat Transfer in Horizontal Tubes
Sun, Hong HL 2001-11P	2001	Ph.D.	Chiu, G.	Motion Synchronization of Multi-Cylinder Electro-Hydraulic Lift Systems
Williams, Keith A. HL 2001-16	2001	Ph.D.	Chiu, G./ Bernhard, R.J.	An Investigation of the Design and Control of Shape Memory Alloy Adaptive Tuned Vibration Absorbers
Witman, Robert D. HL 2001-10	2001	MSME	Chiu, G.	Java Based Multi User Interface and Remote Control For Telemicroscopy
Baek, Joo Seok HL 2002-10	2002	Ph.D.	Groll, E.A./ Lawless, P.B.	Development of a Carbon Dioxide Based Field Deployable Environmental Control Units to Replace HCFC-22 or HFC-134a Units
Brown, Jeremiah L.	2002	MSME	Franchek, M.A.	Information Synthesis with Application to Electromechanical Systems
Buehler, Patarick J.	2002	MSME	Franchek, M.A.	Fault Detection, Isolation and Identification Via Information Synthesis
Cho, Yon Thung	2002	MSME	Bolton, J.S.	Spherical Acoustical Holography
Dawson, Jeffrey D. HL 2002-4P	2002	MSME	Bernhard, R.J.	An Investigation of the Feasibility of Fluidics for Active Noise Control
Doughty, Timothy HL 2002-19	2002	Ph.D.	Davies, P.	System Identification of Modes in Nonlinear Structures
Garimella, Phanindra V.	2002	MSME	Yao, B.	Nonlinear Adaptive Robust Observer for a Class of Nonlinear Systems with Application to the Velocity Control of Hydraulic Cylinder
Harms, Todd M. HL 2002-13	2002	Ph.D.	Groll, E.A./ Braun, J.E.	Charge Inventory System Modeling Validation on Unitary Air Conditioners
Horton, W. Travis HL 2002-3	2002	Ph.D.	Groll, E.A.	Modeling of Secondary Loop Refrigeration Systems on Supermarket Applications

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Johnson, Timothy HL 2002-18	2002	MSME	Adams, D.E.	Analysis of Dynamic Transmissibility as a Feature of Structural Damage Detection
Jovane, Miguel	2002	MSME	Braun, J.E./ Groll, E.A.	Non-thesis. Phase Optimization Separator
Kim, Jun-Hyeung HL 2002-14	2002	MSME	Groll, E.A./ Braun, J.E.	Performance Comparison of a Unitary Split System Using Microchannel and Fin-Tube Outdoor Coils
Liu, Song	2002	MSME	Yao, B.	Non-thesis. Optimal energy-saving control of electro-hydraulic systems using programmable valves
McGee, Gavin HL 2002-12P	2002	MSME	Adams, D.E.	Characterization of Nonlinearity in a Tire-Vehicle Suspension System
Ortiz, Thomas HL 2002-17	2002	Ph.D.	Groll, E.A.	Development of New Model for Investigation of the Performance of Carbon Dioxide as a Refrigerant for Residential Air Conditioners
Park, Junhung HL 2002-1	2002	Ph.D.	Mongeau, L.	Effects of Mechanical Properties of Sealing Systems on Aerodynamic Noise Generation Inside Vehicles
Thorpe, Sonya HL 2002-5	2002	MSME	Bernhard, R.J.	Non-thesis. Waveguide Models of the Vibration of Toroids; Waveguide Models of the Vibration of Cylinders
Trutassannawin, Suwat	2002	MSME	Groll, E.A.	Non-thesis. Testing of Transcritical CO_2 Breadboard Air Conditioning Systems
Zhang, Zhaoyan HL 2002-16	2002	Ph.D.	Mongeau, L./ Frankel, S.	Experimental Study of Sound Generation by Confined Jets with Application to Human Phonation
Anders, Jonathan W. HL 2003-9	2003	MSME	Franchek, M./ Meckl, P.	An Instrumental Variable Approach to Nonlinear Model-based Adaptive Control of Engine Speed
Buhr, Craig A.	2003	Ph.D.	Fleeter, S./Franchek, M.A.	Active Control of Rotating Stall in Compressors
Duraiswamy, Shivkumar	2003	MSME	Chiu, G.T.-C.	Nonlinear Adaptive Nonsmooth Dynamic Surface Control of Electro-Hydraulic Systems
Haroon, Muhammad N. HL 2003-17	2003	MSME	Adams, D.E.	Nonlinear System Identification of a Tire-Vehicle Suspension System Using Response Transmissibility
Hubacher, Beat HL 2003-24	2003	MSME	Groll, E.A.	Experimental and Theoretical Performance Analysis of Carbon Dioxide Compressors
Ippili, Rajani HL 2003-5	2003	MSE	Davies, P./ Bajaj, A	System Identification of Quasi-Static Foam Behavior and Its Application in the Prediction of Static Equilibrium Position of a Car Seat Occupant
Kankatala, Veerabhadra	2003	MSME	Mongeau, L.	Non-thesis. Friction Based Vibrations
Kim, Yong Joe HL 2003-15	2003	Ph.D.	Bolton, J.S.	Visualization of Tire Vibration and Sound Radiation and Modeling of Tire Vibration with an Emphasis on Wave Propagation

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Martin, Brett G. HL 2003-4	2003	MSME	Meckl, P.	The Use of Information Theory in Input Space Selection for Modeling and Diagnostic Applications
Mercer, Kevin B. HL 2003-3	2003	MSME	Braun, J.E.	Modeling and Testing Strategies for Evaluating Ventilation Load Reduction Technologies
Merrill, Kyle	2003	MSME	Chiu, G.T.-C.	Perturbation Observer Design and Cylinder Piston Velocity Estimation for Electro-Hydraulic Systems
Nataraju, Madhura HL 2003-7	2003	MSME	Adams, D.E.	A Transitionary Nonlinear Dynamic Approach for Modeling and Simulating Damage Evolution in a Cantilevered Structure
Osburn, Andrew W. HL 2003-25	2003	Ph.D.	Chiu, G.T.-C./ Franchek, M.A.	Performance Enhancement of Internal Combustion Engines Using Crank-Angle Domain Control
Ponnambalam, Tharanivel V.	2003	MSME	Mongeau, L.	Numerical Investigation of Heat Transfer and Streaming Due to High Amplitude Standing Waves in Cylindrical Tubes
Song, Jinho HL 2003-26	2003	Ph.D.	Bolton, J.S.	Nonfibrous Sound Absorbing Materials
Suh, Sanghoon HL 2003-16	2003	Ph.D.	Mongeau, L./ Bolton, J.S.	Comparison of the Performance of Absorbing and Rigid-Edged Barriers by Using Experimental and Numerical Methods
Sundararaman, Shankar HL 2003-8	2003	MSME	Adams, D.E.	Structural Diagnostics Through Beamforming of Phased Arrays: Characterizing Damage in Steel and Composite Plates
Yoo, Taewook	2003	MSME	Mongeau, L.	The Performance of Sound Barriers with Jagged Edges
Bendapudi, Satyam HL 2004-12	2004	Ph.D.	Braun, J.E.	Development and Evaluation of Modeling Approaches for Transients in Centrifugal Chillers
Deng, Rong HL 2004-10	2004	Ph.D.	Davies, P./Bajaj, A.	Modeling and Characterization of Flexible Polyurethane Foam
Freeman, Timothy HL 2004-7	2004	MSME	Adams, D.E.	Reduction of Vehicle Chassis Vibrations Using the Powertrain System as a Multi-Degree-of-Freedom Dynamic Absorber
Hastings, Aaron HL 2004-15	2004	Ph.D.	Davies, P.	Sound Quality of Diesel Engines
He, Lei	2004	MSME	Bolton, J.S.	Non-Thesis: Acoustic Arrays
Hundhausen, R. Jason HL 2004-8	2004	MSME	Adams, D.E.	Mechanical Loads Identification and Diagnosis for a Standoff Metallic Thermal Protection System Panel in a Semi-Realistic Thermo-Acoustic Operating Environment
Lawrence, Thomas M. HL 2004-2	2004	Ph.D.	Braun, J.E.	Methodologies for Evaluating Demand-Controlled Ventilation Retrofits in HVAC Applications
Lee, Moohyung HL 2004-21	2004	Ph.D.	Bolton, J.S.	Acoustical Visualization of Aeroacoustic Sources
Li, Yaoyu HL 2004-5	2004	Ph.D.	Chiu, G.T.-C.	Active and Adaptive-Passive Control of Acoustic Impedance Matching with Thermoacoustic Cooling Applications

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Li, Haorong HL 2004-14	2004	Ph.D.	Braun, J.E.	A Decoupling-Based Unified Fault Detection and Diagnosis Approach for Packaged Air Conditioners
Mennem, Rex C.	2004	Ph.D.	Krousgrill, C.M.	Parametrically Excited Vibrations in Spiral Bevel Geared Systems
Mynderse, James	2004	MSME	Chiu, G.	Design and Control of a Steering Wheel Vibration Simulator for Human Perception Testing
Park, Jeong-il HL 2004-16P	2004	Ph.D.	Adams, D.E.	Mathematical Modeling and Simulation of a Multi-Cylinder Automotive Compressor
Puri, Tarun HL 2004-20	2004	MSME	Davies, P.	Integration of Polyurethane Foam and Seat-Occupant Models to Predict the Settling Point of a Seat Occupant
Thomson, Scott HL 2004-9	2004	Ph.D.	Mongeau, L./Frankel, S.	Fluid Structure Interactions Within the Human Larynx
Thornton, William	2004	MSME	Bernhard, R.	Non Thesis: Tire/Pavement Interaction Noise
Yang, Li HL 2004-13	2004	MSME	Braun, J.E.	The Impact of Fouling on the Performance of Filter-Evaporator Combinations and Rooftop Air Conditioners
Yang, Chulho HL 2004-11	2004	Ph.D.	Adams, D.E.	Experimental Embedded Sensitivity Functions for Use in Mechanical System Identification
Badagnani, Vincent HL 2005-10	2005	MSME	Mongeau, L./Bolton, J.S.	Method for Predicting the Acoustic Spectra of Axial Flow Fans
Bertsch, Stefan HL 2005-13P	2005	MSME	Groll, E.A.	Theoretical and Experimental Investigation of a Two Stage Heat Pump Cycle for Nordic Climates
Cheng, Hung Ming	2005	Ph.D.	Chiu, G. T.-C.	Encoding of Sampled-Data Systems: Applications to Finite Wordlength Controller Implementation and Adaptive Sampling of Atomic Force Microscopy
Chervil, Rudy	2005	MSME	Heber, A./Braun, J./ Groll, E.	Air Pollutant Emissions and Mitigation by Diet Manipulation at Two High-Rise Layer Barns
Cook, Douglas HL 2005-16	2005	MSME	Mongeau, L.	Computational Models of Fluid Flow, Structural Vibration and Fluid Structure Interactions of Human Phonation
Gallant, Donald P. HL 2005-7	2005	MSME	Davies, P.	An Experimental Study of the Perceptual Attributes of Tonal Sounds and Annoyance with Application to Automotive Component Noise
Garimella, Phanindra V.	2005	Ph.D.	Yao, B.	An Adaptive Robust Framework for Model-Based Fault Detection
Geveci, Mert HL 2005-8	2005	Ph.D.	Bernhard, R.J.	Robust Cylinder Health Monitoring for Internal Combustion Engines
Ingram, Grant A.	2005	Ph.D.	Chiu, G./Franchek, M.	Lean Nox Trap Modeling for Lean Burn Engine Control and Improved Fuel Economy

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Kess, Harold HL 2005-15	2005	MSME	Adams, D.E.	Investigation of Operational and Environmental Variability Effects on Damage Detection Algorithms in Heterogeneous (Woven Composites) Plates
Kim, Jun-Hyeung HL 2005-14	2005	Ph.D.	Groll, E.A.	Analysis of a Bowtie Compressor with Novel Capacity Modulation
Kim, Jeong-Woo HL 2005-6	2005	Ph.D.	Bolton, J.S.	Sound Transmission Through Lined, Composite Panel Structures: Transversely Isotropic Poro-Elastic Model
Kostek, Theodore M. HL 2005-3P	2005	Ph.D.	Franchek, M.	Aging of Zeolite Based Automotive Hydrocarbon Traps with Applications to Diagnostics
Kuo, Yan-Fu	2005	MSME	Chiu, G. T.-C.	Non-thesis: Equivalent System Mass Analysis and Reduction for Urine and Solid Waste Treatment for Advanced Life Support
Kwak, Jaeho (Tony)	2005	Ph.D.	Yao, B.	Modeling and Control of an Electromechanical Brake (Brake-by-Wire) System
Lau, Josephine	2005	MSME	Chen, Y.	The Performance of Floor-Supply Displacement Ventilation in Workshop Configurations with Measurements and Simulation Studies
Liu, Song	2005	Ph.D.	Yao, B.	Automated Modeling and Energy Saving Adaptive Robust Control of Electro-Hydraulic Systems with Programmable Valves
Paek, Insu HL 2005-17	2005	Ph.D.	Mongeau, L./Braun, J.E.	Performance Characterization of Thermoacoustic Cooler Components and Systems
Totsuka, Kenji	2005	MSME	Chiu, G.T.-C.	Tone Curve Stabilization for Color Electrophotography
Widdle, Jr., Richard D. HL 2005-9	2005	Ph.D.	Davies, P	Measurement and Modeling of the Mechanical Properties of Polyurethane Foam
Yu, Tao	2005	MSME	Bolton, J. S.	Non-Thesis: Acoustics
Yum, Kiho	2005	Ph.D.	Bolton, J.S.	Control of Structural-Acoustic Radiation From Tires by Structural Modification
Zhang, Zhao	2005	MSME	Chen,Y.	A Study on Transport and Distribution of Indoor Particulate Matter
Zhou, Xiaotang HL 2005-12	2005	Ph.D.	Braun, J.	Dynamic Modeling of Chilled Water Cooling Coils
Cho, Yon Thong	2006	Ph.D.	Bolton, J.S.	Holographic Projection of Sound Fields Based on Spatially-Limited Data Sets
Cunningham, Patrick J. HL 2006-17P	2006	Ph.D.	Meckl, P.	Monitoring Diesel Particulate Filters
Deignan, Paul B. HL 2006-19	2006	PhD	Meckl, P./King, G.	Information-Theoretic System Identification

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Gosselin, Jennifer	2006	MSME	Chen,Y.	A Ventilated Window for Indoor Air Quality Improvement in Residential Buildings
Hugenroth, Jason J. HL 2006-8P	2006	Ph.D.	Braun, J.E./Groll,E.A./ King, G.	Liquid Flooded Ericsson Cycle Cooler
Jaques, Janette HL 2006-13	2006	MSME	Adams, D.E.	Headrest Rattle: Nonlinear Model Identification and Analysis
Johnson, Timothy HL 2006-20P	2006	Ph.D.	Adams, D.E.	Diagnostics of Bead Area Damage in Rolling Tire Durability
Kim, Uiji HL 2006-9	2006	Ph.D.	Mongeau, L./Krousgrill, C.	Friction-Induced Vibrations and Squeal of Glass-Run Window Sealing Systems
Lee, Kyoung-Hoon HL 2006-16	2006	Ph.D.	Davies, P.	Perception of Tones in Machinery Noise and Its Influence on Annoyance
Lee, Kyoung-ho HL 2006-18	2006	Ph.D.	Braun, J.	Demand-Limiting Control Using Building Thermal Mass in Commercial Buildings
Lee, Kyoung Ho HL 2006-18	2006	Ph.D.	Braun, J.	Demand-Limiting Control Using Building Thermal Mass in Commercial Buildings
Li, Daqing HL 2006-4	2006	Ph.D.	Groll, E.A.	Investigation of an Ejector-Expansion Device in a Transcritical Carbon Dioxide Cycle for Military ECU Applications
Lim, Jimin	2006	Ph.D.	Bolton, J.S./Bernhard, R.J./Krousgrill, C.M.	Statistical Energy Analysis for a Compact Refrigeraton Compressor and Model Improvement
McKinsey, Joshua	2006	MSME	Chiu, G. T.-C.	Interfacing a Force-Feedback Joystick With Hydraulic Robot Arm
Mohrfeld, Jaclynn	2006	MSME	Franchek, M.A.	Systematic Feedforward Transient Fueling Identification for Internal Combustion Engines
Park, Jong Beom	2006	Ph.D.	Mongeau, L.	Instantaneous Orifice Discharge Coefficients of Driven Physical Models of the Human Larynx
Shen, Bo HL 2006-1	2006	Ph.D.	Groll, E.A./Braun, J.E.	Improvement and Validation of Unitary Air Conditioner and Heat Pump Simulation Models at Off-Design Conditions
Trutassanawin, Suwat	2006	Ph.D.	Groll, E.A./Garimella,S.	A Miniature Scale Refrigeration System for Electronics Cooling
White, Jonathan HL 2006-7P	2006	MSME	Adams, D.E.	Impact and Thermal Damage Identification in Metallic Honeycomb Thermal Protection System Panels Using Active Distributed Sensing with the Method of Virtual Forces
Zanartu Salas, Matias HL 2006-10	2006	MSE	Mongeau, L./Wodicka, P.l	Influence of Acoustic Loading on the Flow Induced Oscillations of Single Mass Models of the Human Larynx

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Ackers, Spencer HL 2007-4	2007	MSME	Adams, D.E.	A Method for Crack Detection In a Wheel End Spindle Using Broadband Modal Excitation
Ali, Gazi N.	2007	Ph.D.	Allebach, J./Chiu, G.	Image Quality Analysis of Electrophotographic Printers for Banding Measurement and Forensic Application
Andruska, Adam	2007	MSME	Peterson, K.	The Design, Analysis, and Control of a Two Dimensional Hyper-Redundant Robot Interacting with an Elastic Environment
Blanc, Arthur HL 2007-2	2007	Ph.D.	Bernhard, R.J.	Validation of Vibro-Acoustic Numerical Models
Chen, Xi	2007	MSME	Chen. Y.	A Numerical Study on Decontaminating Unoccupied Airliner Cabins
Haroon, Muhammad HL 2007-12	2007	Ph.D.	Adams, D.E.	A Methodology for Mechanical Diagnostics and Prognostics to Assess Durability of Ground Vehicle Suspension Sytems
Israr, Ali	2007	Ph.D.	Chiu, G.	Tactual Transmission of Phonetic Features
James, Scott HL 2007-11	2007	MSME	Meckl, P.	Diesel Engine Diagnostics Using Singular Spectrum Analysis
Joshi, Alok A. HL 2007-13	2007	Ph.D.	Meckl, P./King, G./Jennings, K.	Strategies for Data-Based Diesel Engine Fault Diagnostics
Jovane, Miguel HL 2007-7	2007	Ph.D.	Braun, J.E./Groll, E.A.	Modeling and Analysis of a Novel Rotary Compressor
Marshall, Andrew J. HL 2007-10	2007	MSME	Davies, P.	A Preliminary Investigation into the Perceptual Characteristics of Low Level Sonic Booms Heard Outdoors
Mejia, Paloma HL 2007-9	2007	MSME	Mongeau, L.	Experimental and Numerical Investigation of Separated-Reattached Flows Behind Uniform and Notched Spoilers
Robinson, Daniel	2007	MSME	Bernhard, R.J.	Effect of Low Frequency Sound on Resonant Sound Insulation and Rattle Systems
Spencer, Mychal HL 2007-5	2007	MSME	Mongeau, L.	Indirect Determination of the Strain and Stress in Physical Models of the Vocal Folds Using Digital Image Correlation
Stites, Nick HL 2007-3	2007	MSME	Adams, D.E.	Minimal-Sensing, Passive and Semi-Active Load and Damage Identification Techniques for Structural Components
Sundararaman, Shankar HL 2007-6	2007	Ph.D.	Adams, D.E.	Numerical and Experimental Investigations of Practical Issues in the Use of Wave Propagation for Damage Identification
Wang, Liangzhu	2007	Ph.D.	Chen, Y.	Coupling of Multizone and CFD Programs for Building Airflow Distribution and Contaminant Transport Simulations
Wichman, Adam HL 2007-8	2007	MSME	Braun, J.E.	Evaluation of Fault Detection and Diagnosis Methods for Refrigeration Equipment and Air-Side Economizers
Wright, Anthony (Tony)	2007	MSME	Groll, E.	Non-thesis. Rapid-fire Combustion Engine

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Zhang, Zhao	2007	Ph.D.	Chen, Y.	Modeling of Airflow and Contaminant Transport in Enclosed Environments
Zhang, Tengfei	2007	Ph.D.	Chen, Y.	Detection and Mitigation of Contaminant Transport in Commercial Aircraft Cabins
Prewett, Emily	2008	MSME	Adams, D.E.	Non-thesis. Modeling and Identification of Damage in Composite Materials
Sasidharan, Premjee HL 2008-1	2008	MSME	Meckl, P.	Development of an Electronic Fuel Injection System for a Small Electric Power Unit
Sathe, Abhijit	2008	Ph.D.	Groll, E.A.	Miniature-Scale Diaphragm Compressor for Electronics Cooling
Zhong, Zhipeng HL 2008-3	2008	Ph.D.	Braun, J.E.	Combined Heat and Moisture Transport Modeling for Residential Buildings
Bertsch, Stefan	2008	Ph.D.	Groll, E.A.	Refrigerant Flow Boilding in Microchannel Evaporators
Yoo, Taewook HL2008-4	2008	Ph.D.	Bolton, J.S.	The Modeling of Sound Absorption by Flexible Micro-Perforated Panels
Surve, Pranati HL 2008-5	2008	MSECE	Meckl, P.	Diesel Particulate Filter Diagnostics Using Correlation and Spectral Analysis
Kulkarni, Anup HL 2008-6	2008	MSME	Shaver, G.	Investigation of High Efficiency, Ultra-Low Emission, Advanced Mode Diesel Combustion in a Validated, Flexible and Computationally Efficient Whole Engine Model
Shah, Chintan HL 2008-9	2008	MSME	Meckl, P.	Particulate Matter Load Estimation in Diesel Particulate Filters
Peters, Jeffrey T.	2008	MSME	Mongeau, L./ Ivantysnova, M.	Non-thesis. Noise Control in Hydraulic Systems
Jiang, Hao	2008	Ph.D.	Adams, D.E.	Material Damage Modeling and Detection in a Thin Metallic Sheet and Sandwich Panel Using Passive Acoustic Transmission
Liu, Feng	2009	Ph.D.	Chiu, G.	Modeling and Control of a Two Component Development Process for Xerography
Hong, Kwan Woo HL 2009-2	2009	Ph.D.	Bolton, J.S.	Acoustical Estimation of Macroscopic Properties of Poroelastic Materials
Kusmanto, Robin HL 2009-3	2009	MSME	Adams, D.E.	Modeling and Simulation of an Optimized Wireless Network in a Naval Ship System of Systems
Brush, Ethan	2009	MSME	Adams, D.E.	Development of a Dynamic Model for Subsurface Damage in Sandwich Composites
Chandrachud, Neha HL 2009-4	2009	MSECE	Meckl, P.	Classification of the Health of Diesel Engines Using Sparse Linear Discriminant Analysis
Bunce, Michael HL 2009-5	2009	MSME	Shaver, G.	Optimization of Soy-Biodiesel Combustion in a Modern Diesel Engine

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Cook, Doug HL 2009-6	2009	Ph.D.	Mongeau, L. and Naurman, E.	Systematic Structural Analysis of Human Vocal Fold Models
Chang, Hoyt	2009	MSME	Li, K. M.	Non-Thesis: Environmental Acoustics
Jessop, Andrew HL 2009 – 8	2009	MSME	Li, K. M.	A Study of the Effects of Panel Stiffness on Transmission of Low-Frequency Sound
Wulf, Tanya HL 2009-9	2009	MSME	Bernhard, R.	A Study of the Effect of Innovatively Textured Portland Cement Concrete Roadway Surfaces on Tire-Pavement Noise
Chen, Li-Jen HL 2009-10	2009	Ph.D.	Mongeau, L.	Investigations of Mechanical Stresses Within Human Vocal Folds During Phonation
McKay, Shawn	2009	Ph.D.	Adams, D.E.	A Control Theory Based Hybrid Architecture to Anticipate and Shape Adversarial Behavior
Swift, S. Hales	2009	MSME	Davies, P.	Non-thesis: Potential Health Effects of Aircraft Noise
Mazumdar, Sagnik	2009	Ph.D.	Chen, Y.	Transmission of Airborne Contaminants in Airliner Cabins
Snyder, David	2009	MS	Shaver, G.	Non-Thesis: Model-Based Biodiesel Blend Estimation in Diesel Engines
Gul, Kamran HL 2009-11	2009	Ph.D.	Adams, D.E.	Modeling and Analysis of Engine Cold-Test Cells for Optimizing Driveline Design for Structural Reliability and Engine Assembly Defect Diagnostics
Kim, Woohyun HL 2009-12	2009	MSME	Braun, J.	Evaluation of a Virtual Refrigerant Charge Sensor
Hou, Kang	2009	MSME	Bolton, J.S.	Measurement and Modeling of Micro-Perforated Panels
Modiyani, Rajani HL 2010-1	2010	MSME	Shaver, G.	Effect of Intake Valve Closure Timing on Effective Compression Ratio and Gas Exchange Process of a Modern Diesel Engine
Joshi, Gauri HL 2010-2	2010	MSME	Davies, P./Bajaj, A.K.	Planar Whole-Body Vibratory Response of a Nonlinear Multi-Body Model of a Seat-Occupant System with Polyurethane Foam
Zuo, Wangda	2010	Ph.D.	Chen, Y.	Advanced Simulations of Air Distributions in Buildings
Kumar, Vijay	2010	MSME	Rhoads, J.	Non-Thesis: Vibration Attenuation and Amplification
White, Jonathan	2010	Ph.D.	Adams, D.E.	Operational Monitoring of Horizontal Axis Wind Turbines with Inertial Measurements
Shin, Yoon-Shik	2010	Ph.D.	Bolton, J.S.	Numerical and Experimental Investigation of Noise from Small Scale Axial Fans Focusing on Inflow Condition and Acoustic Source Type
Zwink, Brandon	2010	MSME	Adams, D.E.	Nondestructive Evaluation of Composite Material Damage Using Vibration Reciprocity Measurements
Bhat, Chaitanya HL 2010-3	2010	MSME	Meckl, P.	Influence of Electronic Injection Parameters on Combustion-Induced Noise in a Small Diesel Engine

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Deshmukh, Yash HL 2010-4	2010	MSME	Davies, P./Bajaj, A.	Measurement of Foam Properties and Modeling of Layered Foam Systems
Cummins, Josh	2010	MSME	Adams, D.E.	Center of Gravity effects Using Forced Vibration Response Operational Data
Gayaka, Shreekant	2010	Ph.D.	Yao, B.	An Adaptive Robust Approach to Actuator Fault-Tolerant Control in Pressence of Uncertainties and Input Constraints
Budde, Carson	2010	MSME	Adams, D.E.	Impact Force Identification for Composite Helicopter Blades Using Minimal Sensing
Snyder, David HL 2010-5	2010	Ph.D.	Shaver, G.	Soy-Based Biodiesel Blend Estimation and Accommodation in a Modern Diesel Engine
Zanartu, Matias	2010	Ph.D.	Wodicka, G.	Acoustic Coupling in Phonation and its Effect on Inverse Filtering of Oral Airflow and Neck Surface Acceleration
Yoder, Nathanael	2010	Ph.D.	Adams, D.E.	The Robust Detection of Cracks in Complex Aerospace Structures using Nonlinear Vibro-Acoustic Modulation
Mohanty, Amit	2010	Ph.D.	Yao, B.	Some Generalizations to the Theory of Adaptive Robust Control and Its Application
Shih, Hsin-Chien	2010	MSME	Yao, B.	Non-Thesis: Modeling and Conttrol of an Electro-Hydraulic Arm
More, Shashikant HL 2010-7	2010	Ph.D.	Davies, P.	Aircraft Noise Characteristics and Metrics
Hengeveld, Derek	2010	Ph.D.	Braun, J./Groll, E.	Development of a System Design Methodology for Robust Thermal Control Subsystems to Support Responsive Space
Jitendra Gupta	2010	Ph.D.	Chen, Y.	Respiratory Exhalation/Inhalation Models and Prediction of Airborne Infection Risk in an Aircraft Cabin
Schultz, Ryan E. HL 2010-10 P	2010	MSME	Meckl, P.	Light-Off Temperature Shift as a Detection Method of Catalyzed Diesel Particulate Filter Nonmethane Hydrocarbon Oxidation Efficiency Degradation
Tong, Bao HL 2010-11	2010	MSME	Li, K.M.	Sound Field of a High Speed Airborne Source in a Horizontally Stratified Fluid Medium Above an Impedance Plane
Satkoski, Chris A. HL 2010-12	2010	MSME	Shaver, G.	Modeling, Estimation, and Control of a Piezoelectric Actuated Fuel Injector
McGuire, Sarah	2010	MSME	Davies, P.	Non-thesis: Effects of Aircraft Noise
Eberhardt, Frank HL 2011-1	2011	MSME	Bolton, J.S./Davies, P.	Study of the Feasibility of Estimating Combustion Noise Radiation in Reverberant Environments
Kadade, Ravindra HL 2011-3	2011	MSME	Meckl, P.	Fault Detection Using Spectal Methods: Wavelets and Correlation Techniques
Kuo, Yan-Fu	2011	Ph.D.	Chiu, G.	Improving Tone Consistency and Reducting Calibration

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
				Frequency for Color Electrophotography
Bell, Ian HL 2011-4	2011	Ph.D.	Braun, J. and Groll, E.	Theoretical and Experimental Analysis of Liquid Flooded Compression in Scroll Compressors
Houtteman, Matthew	2011	MSME	Adams, D.E.	Applications of Eigenmode Coupling to Damage Detection in Beams
Butner, Charles M.	2011	MSME	Adams, D.E.	Investigation of the Effects of Bolt Preload on the Dynamic Response of a Bolted Interface
Meyer, Alan	2011	MSME	Adams, D.E.	Damage Identification for Healthy Monitoring of Ground Vehicle Through Active Probing of Vehicle Response
DiPetta, Tiffany	2011	MSME	Adams, D.E.	Development and Verification of a Diagnostic Cleat for Detecting Faults in MilitaryWheeled Vehicles
Leffler, Robert	2011	MSME	Groll, E.	Power Plant Waste Heat Rejection and Utilization Options
Wang, Miao	2011	Ph.D.	Chen. Y.	Modeling Airflow and Contaminant Transport in Enclosed Environments with Advanced Models
Shin, Hyun Jun	2011	MSME	Bolton, J.S.	The Use of Microperforated Materials as Duct Liners
Choi, Won Hong	2011	MSME	Bolton , J.S.	Influence of the Cavity Mode on Tire Surface Vibration
Troxel, Ned	2011	MSME	Yao, B.	Precision Motion Control of Electro-Hydraulic Systems with Energy Recovery
Mathison, Margaret M. HL 2011-5	2011	Ph.D.	Braun, J./Groll, E.	Modeling and Evaluation of Advanced Compression Techniques for Vapor Compression Equipment
More, Ranjit HL 2011-6 P	2011	MSME	Meckl, P.	Diagnostics of Advanced Diesel Fuel Injectors
Chen, Yiyuan	2011	MSME	Yao, B.	Modeling and Precise Control of an Electro-Hydraulic System with Energy-Recovering via Valve and Accumulator Reconfiguration
Vargo, Matt	2011	MSME	Braun, J.	Non-thesis: Compressor Performance Testing
Nasir Bilal	2011	Ph.D.	Adams, D.E.	Design Optimization of the Suction Manifold of a Reciprocating Compressor Using Uncertainty and Sensitivity Analysis
Jaques, Janette (married name "Meyer")	2011	Ph.D.	Adams, D.E.	Using Impact Modulation to Identify Loose Bolts in a Satellite Structure
Huang, Andrew	2011	MSME	Li, K.M.	Non-thesis: Environmental Acoustics
Koeberlein, Ed HL 2011-8	2011	MSME	Shaver, G.	Physics-Based Modeling and Estimation of Exhaust Manifold Filling Dynamics on a Diesel Engine Equipped With Flexible Intake Valve Actuation
Lee, Ki Sup	2011	Ph.D.	Chen, Y.	Air Distribution Effectiveness and Thermal Stratification with Stratified Air Distribution Systems

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Robbins, Tyler	2011	MSME	Adams, D.E.	Development and Verification of Data Analysis Strategies for Characterizing Military Helmet-Head Performance
Meyer (Jaques), Janette	2011	Ph.D.	Adams, D.E.	Using Impact Modulation to Identify Loose Bolts in a Satellite Structure
Liu, Sheng	2011	Ph.D.	Li, K.M.	The Propagation of Sound from a Monopole and Directional Source Near a Layered Ground
Kim, Nicholas HL 2011-10	2011	MSME	Bolton, J.S.	Numerical Modeling of Microperforated Acoustical Materials
Liu, Yangfan	2011	MSME	Bolton, J.S.	Sound Field Reconstruction and its Application in Loudspeaker Sound Radiation Prediction
Xue, Guangqing	2011	MSME	Chen, Y.	Design Tool for Under-Floor Air Distribution System
Kumar, Vijay	2011	Ph.D.	Rhoads, J.	Nontraditional Methods of Mass Sensing using Isolated and Coupled Microcantilevers
Dana, Scott R.	2011	MSME	Adams, D.E.	Detection of Blade Damage and Ice Accretion for Health Monitoring of Wind Turbines Using Integrated Blade Sensors
Adi, Gayatri HL 2012-1	2012	Ph.D.	Shaver, G.	Closed Loop Control for Biodiesel Blends in Mixing-Controlled Combustion
Marshall, Andrew J. HL 2012-2	2012	Ph.D.	Davies, P.	Development of a Model of Startle Resulting from Exposure to Sonic Booms
Stricker, Karla HL 2012-3	2012	Ph.D.	Shaver, G.	Turbocharger Map Reduction and Estimation of Effective Compression Ratio in a Modern Diesel Engine Utilizing Flexible Intake Valve Actuation
Shaffer, Bryce	2012	Ph.D.	Groll, E.	Performance Analysis of Non-Metallic Dry Runnng Scroll Compressors
Kincaid, Nicholas	2012	MSME	Groll, E.	Non-Thesis: Humidity Ratio Detection as a Means of Dryer Cycle Termination
Wang, Bryan	2012	MSME	Adams, D.	Kinematic Center of Gravity Estimation Method of Ground Vehicle Based on Dynamic Measurements
Faussett, Tom	2012	MSME	Groll, E.	Non-Thesis: Optimizing Refrigerant Distribution in a Evaporator of a Large Room Cooling System
McGuire, Sarah HL 2012-4	2012	Ph.D.	Davies, P.	Modeling Aircraft Noise Induced Sleep Disturbance
Lee, Hsu Chew	2012	MSME	Li, K.M.	A Study of Low Speed Flow Noise nd Its Reduction by Numerical Simulations
Bradshaw, Craig	2012	Ph.D.	Groll, E.	A Miniature-Scale Linear Compressor for Electronics Cooling
Meyer, Rick	2012	Ph.D.	Adams, D.	Modeling and Control of a Fuel Cell-Battery Hybrid Vehicle
Mynderse, James A.	2012	Ph.D.	Chiu, G.	Two Degree-of Freedom Hysteresis Compensation for a Dynamic Mirror with Antagonistic Piezoelectric Stack

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
				Actuation
Schultz, Ryan A.	2012	MSME	Bolton, J.S.	Effect of Solid Phase Properties on the Acoustical Performance of Poroelastic Materials
Myderse, James A.	2012	Ph.D.	Chiu, G.	Two Degree-of-Freedom Hysteresis Compensation for a Dynamic Mirror with Antagonistic Piezoelectric Stack Actuation
Dare, Tyler	2012	Ph.D.	Bernhard, R	Generation Mechanisms of Tire-Pavement Noise
Belt, B. Whitney HL 2012-7	2012	MSME	Shaver, G.	High Voltage Energy Stoarge System Design for a Parallel-Through-The-Road Plug-In Hybrid Electric Vehicle
Bhalerao, Pranav	2012	MSME	Meckl, P	Analysis and Compensation of Fuel Quantity Variation in Multipulse Fuel Injection
Kocher, Lyle HL 2012-6	2012	Ph.D.	Shaver, G.	Physically-based Modeling, Estimation and Control of the Gas Exchange and Combustion Processes for Diesel Engines Utilizing Variable Intake Valve Actuation
Ramaraj, Sugirdhalakshmi (Sugi) HL 2012-8	2012	MSME	Groll, E.	Vapor Compression Cycle Enhancements for Cold Climate Heat Pumps
Ruikar, Neha HL 2012-10	2012	MSME	Shaver, G.	FPGA Model Based Within-a-Cycle Estimation of Rate Shaping for a Piezoelectric Fuel Injector
Shen, Jin Hl 2012-11	2012	MSME	Shaver, G.	Within-A-Cycle Flow Rate Estimation for Piezoelectric Fuel Injection
Warman, Benjamin	2012	MSME	Meckl, P.	Data Analysis of Diesel Engine Faults
Giacomoni, Clothilde HL 2012-12	2012	MSME	Davies, P.	Sound Quality of Supersonic Aircraft Noise as Heard Indoors and its Impact on Annoyance
Inamdar, Harshad	2012	MSME	Groll, E.	Performance Comparison of Two-Phase Fluids in Heat Pumps for Electroics Cooling
Hall, Carrie HL 2012-13	2012	Ph.D.	Shaver, G.	Fuel-Flexible Combustion Control of Modern Compression-Ignition and Spark-Ignition Engines
Underwood, Sara	2012	Ph.D.	Adams, D.E.	Subsurface Damage Detection in Sandwich Composites using Three-Dimensional Laser Vibrometry Measurements with Nonlinear Vibration Response Characteristics
Inamdar, Harshad	2012	MSME	Groll, E.	Performance Comparison of Two-Phase Fluids in Heat Pipes for Electronics Cooling
Foertsch, Kevin HL 2013-1	2013	MSME	Davies, P.	The Number-of-Events as a Predictor Variable in Aircraft Noise Annoyance Models
Nyika, Simbarashe HL 2013-2	2013	MSME	Braun, J.	Development, Validation and Application of General Gray-Box Models for Ductless and Ducted Residential Heat Pumps
Sutjiono, Raymond HL 2013-3 P	2013	MSME	Meckl, P.	Real-Time On-Board Indirect Light-Off Temperature Estimation as a Detection Technique of Diesel Oxidation Catalyst Effectiveness Level

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Ruhno, Amanda	2013	MSME	Groll, E.	Non-thesis: Minerva Built in Cavity Heat Distribution Analysis Model
Spicer, Tom	2013	MSME	Groll, E.	Non-thesis: Centripetal Moisture Extraction in a Vertical Axis Washing Machine
Kultgen, Derek	2013	MS	Groll, E., Hutzell, W., Motevalli, V.	Assessing the Energy Reduction Potential of a Cold Climate Heat Pump
Van Alstine, Dan	2013	Ph.D.	Shaver, G.	Control-Oriented Modeling and Operating Range Expansion of Premixed Charge Compression-Ignited Combustion in a Multi-Cylinder Diesel Engine with Flexible Valve Actuation and Variable Fuel Reactivity
Viswanathan, Arun	2013	MSME	Bolton, J.S.	Non-thesis: Study of the Effect of Grazing Flow on the Performance of Microperforated and Perforated Panels
Holloway, Seth	2013	MSME	Horton, W.T.	An Annual Performance Comparison of Various Heat Pumps in Residential Applications
Song, Yuanpei	2013	MSME	Braun, J., Groll, E.	Modeling and Experimental Validation of a Multi-Port Vapor Injected Scroll Compressor
Hayward, Michael HL 2013-4	2013	MSME	Davies, P.	Identification and Modification of Dominant Noise Sources in Diesel Engines
Berdy, David	2013	Ph.D.	Rhoads, J.	Kinetic Energy Harvesting from Low Frequncy Sources
Garg, Akash	2013	MSME	Shaver, G.	Exhaust Thermal Management Using Intake Valve Closing Timing Modulation
Salunke, Akhil	2013	MSME	Rhoads, J.	Control of Impacting Dynamical Systems
Railkar, Nishigandha	2013	MSME	Shaver, G.	Investigation of Operating Range Capability of Gasoline Fueled Compression Ignition
Vagha, Aniket HL2013-8	2013	MSME	Meckl, P.	Strategy for Health Monitoring and Fault Detection in Heavy Duty Diesel Engines
Flueckiger, Scott	2013	Ph.D.	Groll, E.	Multiscale Simulation of Thermocline Energy Storage for Concentrating Solar Power
Tao, Hongdan HL2013-7	2013	Ph.D.	Li, K.M.	Propagation of Sound in the Vicinity of Rigid Porous Interfaces
Kim, Woohyun	2013	Ph.D.	Braun, J.	Fault Detection and Diagnosis for Air Conditioners and Heat Pumps Based on Virtual Sensors
Shirsikar, Sai HL2013-5	2013	MSME	Meckl, P.	Estimation of Fueling Variation in Multipulse Injection
Jessop, Andrew	2013	Ph.D.	Bolton, J.S.	Near-Field Pressure Distributions to Enhance Sound Transmission Through Multi-Layer Materials
Lu, Lu	2013	Ph.D.	Yao, B.	A Performance-Oriented Multi-Loop Control of Systems with Constraints and Uncertainties

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Paripovic, Jelena	2013	MSME	Davies, P.	Characterization and Modeling of Materials Used in Improvised Explosive Devices
Caskey, Stephen	2013	MSME	Groll, E.	Cold Climate Field Test Analysis of an Air-Source Heat Pump with Two-Stage Compression and Economizing
Pathak, Anchalika	2013	MSME	Groll, E.	Non-thesis: Design and Construction of an Organic Rankine Cycle Test Stand
Viswanathan, Arun	2013	MSME	Bolton, J. S.	Study of the Effect of Grazing Flow on the Performance of Microperforated and Perforated Panels
Ruhno, Amanda	2013	MSME	Groll, E.	Minerva Built in Cavity Heat Distribution Analysis Model
Spicer, Tom	2013	MSME	Groll, E.	Centripetal Moisture Extraction in a Vertical Axis Washing Machine
Magee, Mark	2014	MSME	Shaver, G.	Exhaust Thermal Management Using Cylinder Deactivation and Late Intake Valve Closing
Jatana, Gurneesh	2014	Ph.D.	Lucht, R./Shaver, G.	High-Speed Diode-Laser-Absorption Measurements of Gas Dynamics for Diesel Engines
Yang, Jinpu	2014	MSME	Meckl, P.	Non-thesis: Noise Study in Diesel Engines
Rai, Aakash	2014	Ph.D.	Chen, Y.	Ozone-Initiated Chemistry in Indoor Environment
Le, Dat	2014	Ph.D.	Shaver, G.	Physically-based Modeling, Estimation, and Control of Piezoelectric Fuel Injection during Rate Shaping Operation
Miller, Jacob	2014	MSME	Rhoads, J.	Non-thesis: The Thermomechanical Responses of Composite Energetic Materials to Acoustic and Ultrasonic Excitation
Varanasi, Srinivas	2014	Ph.D.	Bolton, J.S.	Sound Attenuation Characteristics of Cellular Metamaterials
Liu, Wei	2014	MSME	Chen, Y.	Experimental and Numerical Study of the Air Distribution in an Airliner Cabin
Woods, Daniel	2014	MSME	Rhoads, J.	The Thermomechanical, Near-Resonant Response of Energetic Materials
Fain, David	2014	MSME	Shaver, G.	Operating Range Characterization and Expansion of Premixed Charge Compression-Ignited Combustion in a Multi-Cylinder Diesel Engine with Variable Valve Actuation, Variable Fuel Reactivity & Revised Turbomachinery
Bach, Christian HL 2014-1	2014	Ph.D.	Groll, E./Braun, J./Horton, T.	Refrigerant Side Compensation for Air-Side Maldistribution of Evaporators and Its Effects on System Performance
Stuart, Nicholas (Nico)	2014	MSME	Groll, E.	Non-thesis: Heat Exchanger Performance Optimization
Quock, Matthew	2014	MSME	Groll, E.	Non-thesis: Heat Exchanger Performance Optimization
Jin, Mingang	2014	Ph.D.	Chen, Y.	Building Airflow Simulations with Fast Fluid Dynamics
Zhou, Keqin	2014	MSME	Meckl, P.	NO and NO_2 Modeling for Diesel Oxidation Catalyst at Different Thermal Aging Levels

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Jadhav, Bilwa	2014	MSME	Shaver, G.	Integration and Implementation of High-Voltage Energy Storage Sub System for a Parallel-Though-The-Road Plug-In Hybrid Electric Vehicle
Sakamoto, Nicholas HL 2014-3	2014	MSME	Bolton, J.S.	The Prediction of Airborne and Structure-Borne Noise Potential for a Tire
McMullen, Andrew	2014	MSME	Davies, P.	Assessment of Noise Metrics for Application to Rotorcraft
Cheung, Howard HL 2014-4	2014	Ph.D.	Braun, J.	Inverse Modeling of Vapor Compression Equiipment to Enable Simulation of Fault Impacts
Tayal, Prateek	2014	MSME	Meckl, P.	Light Off Temperature Based Approach to Determine Diesel Oxidation Catalyst Effectiveness Level and the Corresponding Outlet NO and NO_2 Characteristics
Roberts, Leighton	2014	MSME	Shaver, G.	Analysis of the Impact of Early Exhaust Valve Opening and Cylinder Deactivation on Aftertreatment Thermal Management and Efficiency for Compression Ignition Engines
Ding, Chuan	2014	Ph.D.	Shaver, G.	Thermal Efficiency and Emission Analysis of Advanced Thermodynamic Strategies in a Multi-Cylinder Diesel Engine Utilizing Valve-Train Flexibility
Upathumchard, Ularee HL 2014-6	2014	MSME	Groll, E.	Waste Heat Recovery Options in a Large Gas-Turbine Combined Power Plant
Sobecki, Brandon HL 2014-7	2014	MSME	Davies, P	Development of Sound Quality Metrics for Gear Rattle in Diesel Engines
Yuill, David HL 2014-8	2014	Ph.D.	Braun, J.	Development of Methodologies for Evaluating Performance of Fault Detection and Diagnostics Protocols Applied to Unitary Air-Conditioning Equipment
Cao, Rui HL 2014-9	2014	MSME	Bolton, J.S.	Investigation of a Fully Coupled Spinning Tire-Wheel Model
Peng, Yuan HL 2014-10	2014	MSME	Li, K.M.	Propogation of Wind Turbine Noise Through Wakes and Turbulent Atmosphere
Shi, Zhu	2015	MSME	Chen, J. & Chen, Y.	Numerical Simulation and Characterization of Jet Flows in Indoor Environments
Chen, Chun	2015	Ph.D.	Chen, J.	Modeling Person-to-Person Contaminant Transport in Enclosed Environments
Wang, Haojie	2015	MSME	Chen, Y.	Modeling on Single-Sided Wind Driven Natural Ventilation
Dharkar, Supriya	2015	MSME	Groll, E.	CO_2 Heat Pumps in Commercial Building Applications with Simultaneous Heating and Cooling Demand
Wani, Chaitanya	2015	MSME	Groll, E.	Non-thesis: Organic Rankine Cycle Using Scroll Expander
Hiremath, Jagdish HL 2015-1	2015	MSME	Meckl, P.	Development of UREA-SCR Dosing Control Strategies for a Diesel Electric Hybrid Car

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Yang, Mingda	2015	MSME	Yao, B.	Non-thesis: Modeling and Control of a Hydraulic Arm
Woodland, Brandon HL 2015-5	2015	Ph.D.	Braun, J.	Methods of Increasing Net Work Output of Organic Rankine Cycles for Low-Grade Waste Heat Recovery with a Detailed Analysis Using a Zeotropic Working Fluid Mixture and Scroll Expander
Flachs, Michelle	2015	MSME	Rhoads, J.	Non-thesis: Vibration Reduction in Vertical Axis Washing Machines
Righetti, Nicholas	2015	MSME	Groll, E.	Non-thesis: Thermally Integrated Appliances: Free Standing Range Induction Double Oven
Whitman, Joshua	2015	MSME	Groll, E.	Non-thesis: Design of a Small Scale Cooling System for Application in Countertop Kitchen Appliances
Bhattiprolu, Udbhau HL 2015-3	2015	Ph.D.	Davies, P. & Bajaj, A.	Modelling and Measurement of the Response of a Beam Interacting with a Polyurethane Foam Foundation
Kung, Yi-Shu	2015	Ph.D.	Qu, M.	An Integrated System of Vapor-Compression Chiller and Absorption Heat Pump: Experiment, Modeling, and Energy and Economic Evaluation
Cao, Jiajun HL 2015-2	2015	MSME	Meckl, P.	Analysis and Simulation of Nonlinearities in Noise Attenuation Model for a Diesel Engine
Tong, Bao HL 2015-4	2015	Ph.D.	Li, K.M.	Prediction and Reduction of Aircraft Noise in Outdoor Environments
Reddy, Lalitya	2015	MSME	Tzempelikos, T.	Non-thesis: Visual Comfort Studies in Open Plan Offices
Halbe, Mayura	2015	MSME	Shaver, G.	Analysis and Algoithm Development for Diesel Engine Systems Utilizing Variable Valve Actuation to Enable Premixed Charge Compression Ignition and Cylinder Deactivation
Zhao, Weikang	2015	MSME	Yao, B.	Non-thesis: Modeling and Control of a Hydraulic Arm
Bansal, Kunal	2015	MSME	Groll, E. & Braun, J.	Modeling and Evaluation of Scroll Expanders for a Liquid-Flooded Ericsson Power Cycle
Wang, Yuntian (Lucius)	2015	MSME	Shaver, G.	Increasing the High Load Limit of Effective Premixed Charge Compression Ignition Via Intake Valve Closure Modulation and Late Injection
Schneemann, Jason	2015	MSME	Groll, E.	Non-thesis: Sustainable Water Systems at the ReNEWW (Retrofitted Net-Zero Energy, Water and Waste) Home
Tripathi, Astitva	2015	Ph.D.	Bajaj, A. & Rhoads, J.	On Computational Synthesis and Dynamic Analysis of Nonlinear Resonant Systems with Internal Resonances
Wagner, Caleb	2015	MSME	Davies, P.	Non-thesis: Sound Quality of Rotorcraft
Vasudevan, Jebaraj HL 2015-6	2015	MSME	Braun, J., Horton, W.T. & Groll, E.	Training and Evaluation of Virtual Sensors for Rooftop Units

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Kim, Donghun HL 2015-7	2015	Ph.D.	Braun, J.	Development and Applications of Models and Algorithms for Model-Predictive Control in Builings
Azizi, Yousof HL 2015-8	2015	Ph.D.	Bajaj, A. & Davies, P.	Development of a Multi-Body Nonlinear Model for a Seat-Occupant System
Hung, Yu-Wei	2015	MSME	Horton, W. T.	Non-thesis: Development of Research Facilities for Chilled Beam Testing
Krishna, Abhinav HL 2015-9	2015	Ph.D.	Groll, E.	Analysis of a Rotating Spool Expander for Organic Rankine Cycle Application
Wang, Xiaoshen	2015	MSME	Groll, E.	Non-thesis: Performance Evaluation of Different Valve Control Strategies for Building HVAC Systems
Lee, Seungkyu HL 2015-10	2015	Ph.D.	Bolton, J.S.	Application of Microperforated Elements in Axial Fan Noise Control and Silencer Design
Carr, Daniel HL 2015-11	2015	MSME	Davies, P.	Two Laboratory Studies of People's Responses to Sonic Booms and Other Transient Sounds as Heard Indoors
Shi, Tongyang	2015	MSME	Bolton, J.S.	Non-thesis: Equivalent Source Methods for Noise Source Visualization
Covarrubias, A.J.	2015	MSME	Horton, W. T.	Non-thesis: Central Heating and Cooling Plant Optimization
Cai, Jie	2015	Ph.D.	Braun, J.	A Low Cost Multi-Agent Control Approach for Building Energy System Management
Balasubramanian, Shambhavi HL 2016-1	2016	MSME	Meckl, P.	Fuel Type Estimation Using Fuel System Parameters
Gao, Mengqi	2016	MSME	Chiu, G. & Allebach, J.	Toner Usage Prediction for Laser Electro-Photographic Printers
Lumpkin, Domenique	2016	MSME	Groll, E.	Non-thesis: Performance of an Air Cycle Heat Pump
Kesto, Nathan	2016	MSME	Groll, E.	Non-thesis: Dryer End-of-Cycle Detection
Kumra, Anurag	2016	MSME	Chiu, G.	Non-thesis: Functional Inkjet Printing-Back Pressure Volume Modulation and Print Mask
Nayyar, Soumya	2016	MSME	Shaver, G.	Implementation and Analysis of Reverse Breathing, Rebreathing and Cylinder Deactivaton for Aftertreatment Thermal
Accorsi, Felipe HL 2016-2	2016	MSME	Groll, E.	Experimental Characterization of Scroll Expander for Small-Scale Power Generation in an Organic Rankine Cycle
Graham, Todd	2016	MSME	Groll, E.	Non-thesis: TIRA – Thermally Integrated Residential Appliances
Graban, Allison	2016	MSME	Groll, E.	Non-thesis: Heat Pump Dryer
Deshpande, Ameya	2016	MSME	Meckl, P.	Exhaust Temperature Management

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Bae, Yeon Jin HL 2016-3	2016	Ph.D.	Horton, W.T.	Integrated Design Tool of Building System Optimization for Building Life Cycle Cost
Chan, Ying-Chieh	2016	Ph.D.	Tzempelikos, T.	Integrated Analysis of Building Perimeter Zones with Multi-Functional Façade Systems
Liu, Yangfan	2016	Ph.D.	Bolton, J.S.	Efficient Modeling of Sound Source Radiation in Free-Space and Room Environments
Venkatachalam, Sanjeev	2016	MSME	Horton, W.T.	Non-thesis: Modeling of Desiccant Wheel-Based Cooling System
Keivan Esfahani, Darioush	2016	MSME	Li, K.M.	Non-thesis: Gear Vibration Analysis
Lu, Xueting (Sylvia)	2016	MSME	Shaver, G.	Improving Fuel Economy During High Load Diesel Engine System Operation Through Valve Train Flexibility
Panuganti, Chaitanya	2016	MSME	Shaver, G.	Control-Oriented Modeling Validation, and Analysis of a Natural Gas Engine Architecture
Chen, Li	2016	MSME	Horton, W.T.	Non-thesis: Assessment of Alternative Technologies for Sustainable Housing Developments
Taylor, Alex	2016	MSME	Shaver, G.	Modelling and Control of a Parallel Through-the-Road Plug-In Hybrid Vehicle
Vora, Ashish	2016	MSME	Shaver, G.	Modeling the Impact of Battery Degradation Within Lifecycle Cost Based Design Optimization of Heavy-Duty Hybrid Electric Vehicles
Gupta, Rohinish HL 2016-4	2016	MSME	Meckl, P.	Modelling and Control of a Parallel Through-the-Road Plug-In Hybrid Vehicle
Thomas, Josiah	2016	MSME	Chiu, G.	Non-thesis: High Speed 1 Bit Feedback Control
Aguuilera, Giovanny	2016	MSME	Boor, B.	Characterization of Particle Emissions from Desktop 3D Printers: A Look at the Effect of Part Design and Build Pathing
Czapla, Nicholas	2016	MSME	Groll, E.	Performance Testing of a Unitary Split-System Heat Pump Utilizing an Energy Recovery Expansion Device
Miller, Jacob	2016	Ph.D.	Rhoads, J.	The Themomechanical Response of Composite Energetic Material Under High- and Low-Frequency Mechanical Excitations
Jeon, Bonggil HL 2016-5	2016	Ph.D.	Horton, W.T.	A Method for Slecting HVAC Retrofit Solutions for Existing Small- and Medium-Sized Commercial Buildings
Kulkarni, Mukta HL 2016-6	2016	MSME	Meckl, P.	Determining Fuel Type From Estimates of Bulk Modulus using Rail Pressure Measurements
Chen, Wei Tai	2016	MSME	Chiu, G.	Non-thesis: Real-Time Defect Detection of Roll-to-Roll Thin Film Process

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Woods, Daniel	2016	MSME	Rhoads, J.	On the Use of Mechanical and Acoustical Excitations for Selective Heat Generation in Polymer-Bonded Energetic Materials
Kim, Janghyun	2016	Ph.D.	Braun, J.	Evaluating the Performance of Passive Chilled Beams with Respect to Energy Efficiency and Themal Comfort
Kim, Nicholas	2016	Ph.D.	Bolton, J.S.	Optimal Design of Sound Absorbing Systems with Microperforated Panels
Konstantzos, Iason HL 2016-7	2016	Ph.D.	Tzempelikos, T.	A Human-Centered Approach for the Design of Perimeter Office Spaces Based on Visual Environment Criteria
Yeum, Chul Min	2016	Ph.D.	Dyke, S.	Computer Vision-Based Structural Assessment Exploiting Large Volumes of Images
Mitra, Eeshan HL 2017-1	2017	MSME	Krousgrill, C.	Effects of Time-Varying Mesh Stiffness and It's Modifications on Planetary Gear Dynamics
Liu, Haotian	2017	MSME	Groll, E.	Performance Analysis of an Updraft Tower System for Dry Cooling in Large-Scale Power Plants
Yang, Bin	2017	Ph.D.	Groll, E.	Modeling of an Oil Free Carbon Dioxide Compressor Using Sanderson-Rocker Arm Motion (S-RAM) Mechanism
Lai, Dayi	2017	Ph.D.	Chen, Y.	Modeling Thermal Comfort in Outdoor Environments
Bi, Youyi HL 2017-2	2017	Ph.D.	Davies, P.	An Interdisciplinary Approach for Understanding Information Utilization in Engineering and Product Design
Bhangale, Suyash	2017	MSME	Groll, E.	Non-thesis: Performance Testing of Unitary Split-System Heat Pump
Linden, Aaron	2017	MSME	Groll, E.	Non-thesis: In Home Hydroponic Appliance
Small, Sarah	2017	MSME	Groll, E.	Non-thesis: Thermally Integrated Residential Appliance
Jin, Xing	2017	Ph.D.	Shaver, G.	Physics-Based Computationally Efficient Battery Degradation Model and Electric Machine Sealing Strategy for Hybrid Electric Vehicle Design Optimization
Novotny, Whitney	2017	MSME	Rhoads, J.	Inkjet Printing of Metallic Initiators
Nyenhuis, Andria	2017	MSME	Groll, E.	Non-thesis: Rainwater Storage Appliances
Brenn, Nicholas	2017	MSME	Groll, E.	Non-thesis: Data Mining at the ReNEWW House
Bajaj, Nikhil	2017	Ph.D.	Rhoads, J.	Microresonator-Based Sensors with Feedback-Enabled Nonlinerities
Jain, Kaushal HL 2017-4	2017	MSME	Meckl, P.	Modeling of NH_3 Stoarage in Vanadia-Based SCR Catalyst for Urea-Dosing Control in a Diesel-Electric Hybrid Car
Tao, Hongcheng	2017	MSME	Gibert, J.	Non-thesis: Dynamic Behavior of Discontinuous Metamaterial Unit Cells

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Joshi, Mrunal	2017	MSME	Shaver, G.	Diesel Engine Cylinder Deactivation for Improved Systems Efficiency While Maintaining Elevated Aftertreatment Temperatures
Liu, Wei	2017	Ph.D.	Chen, Y.	Inverse Design of Enclosed Environment by CFD-Based Adjoint Method
Udani, Janav	2017	AAEMS	Arrieta, A.	Non-thesis: Dynamics and Control of Bi-Stable Structures
Hollkamp, John	2017	MSME	Semperlotti, F.	Non-thesis: Model-Order Reduction of Lumped Parameter Systems Via Fractional Calculus
Blatchley, Tim	2017	MSME	Braun, J.	Secondary Loop Residential Heat Pump Design, Performance, and Cost Analysis Utilizing R290
Anderson, Aaron Hl 2017-6	2017	MSME	Arrieta, A.	Design of a Twisting Multi-Stable Actuator
Menghmalani, Yeshaswi	2017	MSME	Jain, N.	Dynamic Modeling and Validation of Power Generators
Henry, Ashwin HL 2017-9	2017	MSAAE	Arrieta, A.	Performance Augmentation of Compliance-Based Morphing Wings Through Optimization and Nonlinearity
Van Voorhis, Matthew	2017	MSME	Shaver, G.	Implementation of Aftertreatment System to Enable Tailpipe Emissions Measurements of a Variable Valve Actuation Enabled Camless Diesel Engine
Fleck, Trevor	2017	MSME	Rhoads, J.	Additive Manufacturing of Energetic Materials and Its Uses in Various Applications
Cao, Rui	2017	Ph.D.	Bolton, S.	Investigation of Noise and Vibration in Tires Through Analytical Modeling, Tests, and Simulations
Paripovic, Jelena HL 2018-1	2018	Ph.D.	Davies, P.	Identification of the Low Frequency Dynamic Behavior of Surrogate Explosive Materials
Hjortland, Andrew	2018	Ph.D.	Braun, J.	Automated Fault Detections, Diagnostics, Impact Evaluation, and Service Decision-Making for Direct Expansion Air Conditioners
Angre, Harshil HL 2018-3	2018	MSME	Meckl, P.	Control of UREA Dosing for UREA SCR System in a Diesel-Powered Vehicle
Bahman, Ammar	2018	Ph.D.	Groll, E.	Analysis of Packaged Air Conditioning System for High Temperature Climates
Hahn, Jaesik	2018	Ph.D.	Reid, T.	How Heat Affects Human Hair: Thermal Characterization and Predictive Modeling of Flat Ironing Results
Heitkamp, Caleb	2018	MSME	Rhoads, J.	Experimental Wave and Material Property Measurements for an Elastomer Binder and Particulate Composite Material
Kyle, Trevor	2018	MSME	Rhoads, J.	Synthesis of Inhomogeneous Waves Using the Least-Squares Method
Lavernia, Alejandro	2018	MSME	Groll, E.	Micro-Scale Waste Heat Recovery from Stationary Internal Combustion Engines by Sub-Critical Organic Rankine Cycle Utilizing Scroll Machinery

NAME	YEAR	DEGREE	PROFESSOR(S)	TITLE
Patil, Akash	2018	MSME	Braun, J.	Development and Evaluation of Automated Virtual Refrigerant Charge Sensor Training Kit
Wagner, Danielle	2018	MSME	Boor, B.	Dynamics of Fine and Ultrafine Particulate Matter in Biomass Burrning Kitchens in Western Kenya: Field Sampling Methodology and Modeling Framework
Akash, Kumar	2018	MSME	Jain, N.	A Closed-Loop Framework for Increasing Trust in Human-Machine Interactions
Sadeghi, Amir	2018	Ph.D.	Karava, P.	Visual Preferences and Human Interactions with Shading and Electric Lighting Systems
Panicker, Malavika	2018	MSME	Meckl, P.	Non-thesis: Control of an Adaptive Refrigeration Cycle
Chowgule, Revati	2018	MSME	Davies, P.	Non-thesis: Characterization of the Dynamics of CONFOR Foam Undergoing Impulsive Excitation
Jaramillo, Rita	2018	Ph.D.	Braun, J.	A Multi-Agent Control Approach for Optimization of Central Cooling Plants
You, Ruoyu	2018	Ph.D.	Chen, Y.	Investigating Airflow Distribution and Contaiminant Transport in Commercial Aircraft Cabins
Karthikeyan, Ganesh Ram Ramanujam	2018	MSME	Cappelleri, D.	Software In-the-Loop Simulation for Custom Aerial Vehicles
Odstrcil, Troy	2018	MSME	Shaver, G.	Variable Valve Actuation Strategies for Improving Aftertreatment System Efficiency in Modern Diesel Engines over the Heavy-Duty Federal Test Procedure Certification Cycle
Ramesh, Aswin	2018	Ph.D.	Shaver, G.	Utilization of Variable Valve Actuation to Improve Fuel Efficiency and Aftertreatment Thermal Management in Diesel Engines