CURRICULUM VITAE OF RALPH GREIF

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Education:
New York University, B.S.M.E., 1956
University of California, Los Angeles, M.S., 1958
(Thesis: Analysis of Boiling Heat Transfer Including Forced Convection
Harvard University, M.A., Ph.D., 1962
(Dissertation: The Free Piston Shock Tube)

Experience:
Staff Member, Hughes Research and Development Laboratories, Los Angeles, 1956-58.
Faculty Member, University of California at Berkeley, 1963-present.
Post Doctoral Research Fellow, Harvard University, Cambridge, 1963.
Vice-Chairman for Instruction, Mechanical Engineering Department, University of California at Berkeley, 1974-76.
Visiting Scholar, Imperial College of Science and Technology, London, 1969-70.
Visiting Professor, Technion, Israel Institute of Technology, Haifa, 1977.

Honors and Awards:
Charles Storer Storrow Fellow, Harvard University, Cambridge, 1961-62.
Post Doctoral Research Fellow, Harvard University, Cambridge, 1963.
Tau Beta Pi, College of Engineering, Excellence in Teaching, University of California at Berkeley, 1967.
Guggenheim Fellow, John Simon Guggenheim Memorial Foundation, 1969-70.
Visiting Scholar, Imperial College of Science and Technology, London, 1970.
Pi Tau Sigma, Mechanical Engineering Department, Excellence in Teaching, University of California at Berkeley, 1971.
Lady Davis Fellow and Visiting Professor, Technion, Haifa, 1977.
ASME Heat Transfer Memorial Award, American Society of Mechanical Engineers, 1985.
ASME Fellow, 1986.
Journal of Materials Processing and Manufacturing Science, Editorial Board, 1992-.
Journal of Chemical Vapor Deposition, Advisory Board, 1992-.
International Journal of Heat and Mass Transfer, Honorary Editorial Advisory Board, 1995-
International Communications in Heat and Mass Transfer, Honorary Editorial Advisory Board, 1995-
Best Paper Award, American Nuclear Society, Sixth International Meeting, NURETH, Grenoble, with P. Peterson and V. Schrock, 1994.
Research Fellowship, Japan Society for the Promotion of Science, 1995.
ASME, Dedicated Service Award, 1996
Heat Transfer Research, Editorial Advisory Board, 1997-

Professional Activities:
ASME, Heat Transfer Division, Technical Committee on Aerospace Heat Transfer, 1967-present, (Chairman, 1970-73).
ASME, Heat Transfer Division, Computer Technology Policy Committee, 1975-79.
ASME, Honors and Awards Committee, Heat Transfer Division, 1979-82, (Chairman, 1981-82).
ASME, Max Jakob Board of Awards, 1982-85 (Vice-Chairman, 1984-85).
State Doctorate Thesis Advisory Committee, France, 1983.
ASME, Associate Technical Editor, Journal of Heat Transfer, 1983-1989.
15th International Symposium on Shock Waves and Shock Tubes, Executive Committee, U.S.A., 1985.
Energy-Sources Technology Conference, ASME, Symposium on Automotive Engine Technology, Vice Chairman, 1987.

Second International Symposium on Transport Phenomena in Turbulent Flows, Scientific Advisory Committee, Japan, 1987.
University of Ottawa, Ontario, Canada, External Examiner, 1987, 1988.
ASME, Heat Transfer Division, Committee on Heat Transfer in Manufacturing and Materials Processing, 1989-.
ASME, Heat Transfer Division, Executive Committee, 1990-1995 (Chairman, 1993-94).
Genium Publishing Co., Heat Transfer and Fluid Flow Data Books, Editorial Advisory Board, 1990-96.
ASME, Basic Engineering Technical Group Operations Board, Peer Reviewer for Fellow Nominations, 1991-96.
3rd ASME/JSME Thermal Engineering Joint Conference, Conference Planning Committee, USA, 1991.
NSF Thermal Sciences Workshop: Emerging Technologies and Critical Phenomena, Steering Committee, USA, 1991.
International Conference on Transport Phenomena in Processing Conference, Organizing Committee, USA, 1992.
ASME, Heat Transfer Division, Technical Program Representative, Winter Annual Meeting, 1992.
6th International Symposium on Transport Phenomena in Thermal Engineering, International Scientific Advisory Committee, Korea, 1993.
8th International Symposium on Transport Phenomena in Combustion, Advisory Committee, USA, 1993-1995.
10th International Symposium on Transport Phenomena, Advisory Committee, Japan, 1995-97.
ASME, Heat Transfer Division, Membership Development and Recognition Committee, 1996-99.
ASME/AIChE, Max Jakob Board of Awards 1998-.
ASME, Heat Transfer Division, Council of Past Chairs, 2001 -

International Lectures:
Imperial College of Science and Technology, London
Technical University of Denmark, Lyngby
University of Eindhoven, Eindhoven
Technion, Israel Institute of Technology, Haifa
Tel Aviv University, Tel Aviv
Arya Mehr University, Tehran
Technical University, International Heat Transfer Conference, Munich
National Taiwan University, Taipei
National University of Mexico, Mexico City
French National Center for Scientific Research, CNRS, Orleans
Hokkaido University
National Cheng Kung University, Tainan
Kyoto University, Kyoto
Kyushu University, Chikushi
Kyushu University, Kakozakhi
Technical University, International Symposium on Combustion, The Combustion Institute, Munich
Universite de Pau, Pau
International Heat Transfer Conference, Jerusalem
International Symposium on Transport Phenomena, Seoul
Universite d'Orleans, Orleans
University of Sydney, Sydney
International Heat Transfer Conference, Brighton
Tokyo Institute of Technology, Tokyo
Swiss Federal Institute, Zurich
International Heat Transfer Conference, Seoul

Technical Meetings:
Organizer and Chairman of the "Symposium on High Temperature Effects," 1968 ASME-AIChE National Heat Conference.
Organizer and Chairman of Plasma Heat Transfer Session, 1969 ASME Winter Annual Meeting.

Organizer and Chairman of Radiative Heat Transfer Session, 1976 ASME-AIChE National Heat Transfer Conference

Organizer and Chairman of Heat and Mass Transfer in Rotating Flows Session, 1979 ASME-AIChE National Heat Transfer Conference.

Invited participant at Mechanical Engineering Education Conference, Sponsored by ASME Policy Board, Education, 1980.

Co-Organizer and Co-Chairman of Heat Transfer in Enclosures Session, 1983 ASME-JSME Thermal Engineering Conference

Organizer and Chairman of Heat Transfer with Phase Change Session, 1986 ASME Winter Annual Meeting.

Co-Organizer of Heat Transfer Processes in Engine Cylinders, Panel Session, 1987 ASME, Symposium on Automotive Engine Technology.

Chairman of Steam Generators and Heat Exchanger Session, 1987 International Symposium on Natural Circulation, ASME.

Organizer and Chairman of Heat Transfer with Phase Change Session, 1988 ASME-AIChE National Heat Transfer Conference.

Co-Organizer and Co-Chairman of Phase Change Session, 1991 ASME/AIChE National Heat Transfer Conference.

Course Development and Participation:

University of California, Los Angeles, Extension, Lecturer on Thermodynamic Properties of Plasmas

Development and Introduction of a New Course, Thermodynamics of High Temperature Gases, at the University of California at Berkeley

Service to Government Agencies:

National Science Foundation, Panel Member for Program Reviews

Department of Energy, Passive and Hybrid Solar Energy Division, Program Reviews

Ph.D. Student Supervision:

C.S. Landram, Combined Gaseous Radiative Transfer and Variable Properties Effects on Nusselt Number for Turbulent Flow Through a Heated Tube, 1967.

I.S. Habib, Heat Transfer to a Radiating Gas Flowing Turbulently in a Tube: An Experimental and Theoretical Study, 1968.

G.E. Dix, Vapor Void Fractions for Forced Convection with Subcooled Boiling at Low Flow Rates, 1971.

T.C. Hsieh, The Free Piston Shock Tube and Infrared Radiation Studies, 1972.

Z. Chiba, The Study of Heat Transfer with Radiation to Gases in Turbulent Flow Within Tubes, 1972.

J.C. Lin, Absorption of Infrared Radiation by Gases, 1973.

N. Lior, Heat Transfer with Flash Evaporation in a Stream with a Free Surface, 1973.

J.A. Paterson, Heat Mass and Momentum Transport in Rotating Flows, 1973.

R.N. Smith, A Study of Convective Transport at High Schmidt or Prandtl Numbers, 1974.

J.T. Han, Boundary Layer Flow with Combustion and Thermal Radiation, 1975.

A. Hashemi, Experimental and Theoretical Studies in Infrared Radiation, 1975.

T.E. Donovan, Heat Transfer in Internal Flows Including Buoyancy and Thermal Radiation, 1976.

A.S. Rao, A Study of Submerged and Surface Horizontal Buoyant Jets, 1976.

M. Nikanjam, An Experimental and Theoretical Study of Unsteady Heat Transfer During Piston Compression, 1977.

J.T. Teng, Experimental and Theoretical Studies in Convective Transport, 1978.

K.H. Chu, Infrared Radiation Studies Including Applications to Piston Compression, 1978.

D. Abdollahian, A Study of Heat Transfer in the Nucleate, Transition, and Inverted Annular Film Boiling Regions During Reflooding, 1979.

W. Peake, Dispersed Flow Film Boiling During Reflooding, 1979.

C.S. Wang, Heat and Mass Transfer from a Rotating Disk with Phase Change, 1979.

H. Heperkan, An Experimental and Theoretical Study of Heat Transfer with Combustion, 1980.

A. Mertol, Heat Transfer and Fluid Flow in Thermosyphons, 1980.

J.B. Woodard, An Experimental and Theoretical Study of Heat Transfer in Constant Volume and Compression-
Expansion Systems Including the Effects of Flame Propagation, 1982.
M.W. Nansteel, Natural Convection in Enclosures, 1982.
J.P. Coutier, Laminar Convection with Buoyancy in Tube Flows with a Surrounding Liquid Medium, 1983.
S.R. Vosen, Unsteady Heat Transfer During the Interaction of a Laminar Flame with a Cold Wall, 1983.
A. Lavine, A Three Dimensional Analysis of Natural Convection in a Toroidal Loop, 1985.
C.H. Stern, An Experimental Study of the Flow and Heat Transfer in a Toroidal Thermosyphon, 1986.
M. Choi, Studies of Heat and Mass Transfer During Chemical Vapor Deposition, 1987.
W.M. Huang, An Experimental and Numerical Study of Heat and Mass Transfer with Combustion, 1987.
F. Miller, An Experimental and Theoretical Investigation of the Radiant Heating of a Particle Suspension, 1988.
J.H. Lu, Unsteady Heat Transfer During Flame-Wall Interactions, 1990.
Y.T. Lin, Studies of Flow, Heat Transfer and Particle Motion during Chemical Vapor Deposition, 1991.
J. Hwang, Flame Deposition Processes in Materials Manufacturing, 1991.
O. Ezekoye, Experimental and Theoretical Studies of Heat Transfer with Combustion, 1991.
S.Y. Joh, Studies of Heat Transfer and Flow in the Modified Chemical Vapor Deposition Process Including Effects of Chemistry, 1993.
H.C. Tsai, A Study of Transport Phenomena in External Chemical Vapor Deposition Processes, 1994.
M.M. Kilgo, The Influence of Ambient Medium Density on Laser Ablation Processes, 1995
J.S. Zeng, Experimental and Theoretical Analysis of Transport Processes in a Nano-Structured Medium Aerogel, 1995
A.L. Robinson, Radon Entry in Buildings: Effects of Atmospheric Fluctuations and Building Structural Factors, 1996.
S. Jeong, Energy Coupling and Plume Dynamics During High Power Laser Heating of Metals, 1997.
C.K. Wu, Flow and Heat Transfer in External Chemical Vapor Deposition Including the Effects of Chemistry, 1997.
L. Gabour Stewart, An Experimental and Theoretical Investigation of Flow and Particle Transport During Periodic Short Duration Back Flow Filtration, 1997.
F. Kusnadi, A Study of Convective Thermophoretic and Electrophoretic Transport with Chemical Vapor Deposition, 1997.
T. R. Shiu, Thermal-Mechanical Behavior of Laser Heated Glass, 1999
S. L. Chou, A Study of Fluid Flow, Heat Transfer and Particle Deposition in Chemical Vapor Deposition Processes, 1999.
S. Mao, Experimental and Theoretical Studies of Picosecond Laser Interactions with Electronic Materials Laser Ablation, 2000.
J. Yoo, Enhanced Mass Removal due to Phase Explosion during High Irradiance Nanosecond Laser Ablation of Silicon, 2000.
F. Hsu, Thermophoretic Transport in Chemically Reacting Flows, 2000.
J. Chung, Chip-Level Electronics Cooling and Diagnostics (Infrared Thermal Velocimetry), 2002
R. Gamble, Decoupling, Complexity and Importance in the Design and Analysis of Complex Transport Systems, 2002
X. Zeng, Laser Ablation of Electronic Materials Including the Effects of Energy Coupling and Plasma Interactions, 2005
Liu, C, A Study of Particle Generation During Laser Ablation with Applications, 2005
Wen, Sy-Bor, Laser-Surface Ablation including Radiation, Gas Dynamics and Ionization,
Lee, Ming-Tsang, Transport Phenomena in a Reformer with Micro-Power Applications,

Faculty Supervised:

Professor M. Choi
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