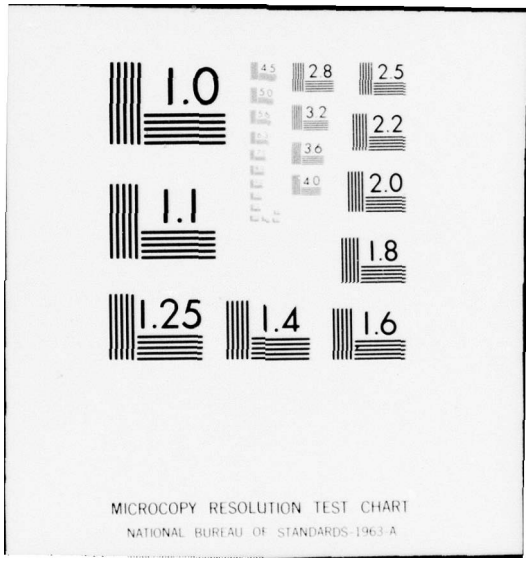
AD-A038 605 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF F/G 5/2
RECENT NAVAL POSTGRADUATE SCHOOL PUBLICATIONS.(U)
FEB 77
UNCLASSIFIED NPS-012RF77023 NL

1 OF 2
ADA038605




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

(14) NPS-012RF77023

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

(1)

ADA038605

(6) RECENT NAVAL POSTGRADUATE SCHOOL PUBLICATIONS.

(11) February 1977

(12) 153 p.

DDC
RECEIVED
APR 25 1977
B



NAVAL POSTGRADUATE SCHOOL
EXCELLENCE THROUGH EDUCATION

251 450

NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIFORNIA

NAVAL POSTGRADUATE SCHOOL
Monterey, California

Rear Admiral I. W. Linder, USN
Superintendent

Jack R. Borsting
Provost

The work reported herein was supported by various Department of Defense activities and the National Science Foundation.

Reproduction of all or part of this report is authorized.

This report was prepared by:

Robert R. Fossum
Dean of Research

Released by:

Jack R. Borsting
Provost

NAVAL POSTGRADUATE SCHOOL
Monterey, California

February 1977

This document has been prepared for personnel interested in recent documented activities at the Naval Postgraduate School.

A list of papers, reports, theses, and presentations by NPS faculty and students is included. Requests for additional information should be directed to the Defense Documentation Center, to the faculty members in the research area of interest, or to the Dean of Research.

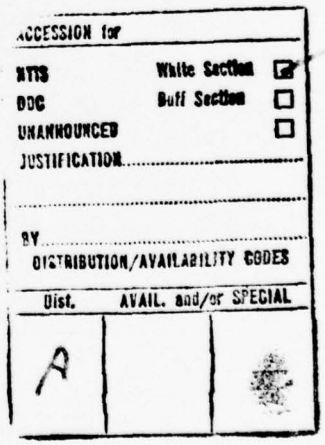


TABLE OF CONTENTS

		Page
1.	Department of Aeronautics	3
2.	Computer Science Group	25
3.	Department of Electrical Engineering	30
4.	Department of Mathematics	41
5.	Department of Mechanical Engineering	49
6.	Department of Meteorology	64
7.	Department of National Security Affairs	80
8.	Department of Oceanography	81
9.	Department of Operations Research & Administrative Science	94
10.	Department of Physics & Chemistry	144

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

CONFERENCE PRESENTATIONS

O. Biblarz, MHD Meeting, UTSI, April 1974 (AFOSR Contract), "Voltage Profiles in the Vicinity of Non-emitting Electrodes," with R. C. Dolson.

O. Biblarz, 27th Annual Gaseous Electronics Conference, Houston, Texas, October 1974, "Stabilization of a Medium Press Discharge by Turbulent Flows," with L. J. Aunchman, "Influence of Gas Turbulence on Discharge Instability," by invitation of Workshop Coordinator.

O. Biblarz, 27th Annual APS Meeting, Division of Fluid Dynamics, "Numerical Results for Thermal Blooming in Transonic Slewing," with F. Carey and H. Burden.

O. Biblarz, AIAA 11th Aerospace Meeting, Washington, 1973, "Density Changes in Laser Cavity Including Wall Reflections and Kinetics of Energy Release," with A. E. Fuhs.

O. Biblarz, APS Division of Fluid Dynamics, Yale, Connecticut, 1973, "Thermal Blooming in Supersonic/Subsonic Slewing," with A. E. Fuhs and H. Burden.

O. Biblarz, SPIE Meeting, San Diego, 1973, "Laser Internal Aerodynamics and Beam Quality," with A. E. Fuhs.

O. Biblarz and R. C. Dolson, "Voltage Profiles in the Vicinity of Non-emitting Electrodes," presented before the 14th MHD Symposium, University of Tennessee Space Institute. Published in Proceedings, April 1974.

O. Biblarz and L. J. Aunchman, "Stabilization of a Medium Pressure Discharge by Turbulent Flows," presented before the 27th Annual Gaseous Electronics Conference, Houston, Texas, 1974, the abstract published in The Proceedings and the Bulletin of the American Physical Society.

D. J. Collins, "Holographic Interferometry," D. J. Collins Lecture Series 54, February 1973, Von Karmen Institute, Belgium.

D. J. Collins, "Holographic Interferometry," D. J. Collins, "International Workshop on Three-Dimensional Image Reconstruction Techniques, July 1974, Brookhaven National Laboratory, invited lecture, abstract to appear in Proceedings.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

CONFERENCE PRESENTATIONS (CONT)

D. J. Collins, "Mathematical Foundations of Three-dimensional Reconstruction Techniques," discussion conducted and written by D. J. Collins at Workshop. Rewrite-up to appear as part of Proceedings.

A. E. Fuhs, D. L. Bailey, and P. W. Tower, "Pollution Control of Airport Engine Test Facilities," PEP AGARD-NATO, Conference on Atmospheric Pollution by Aircraft Engines, AGARD CP-125, 1973.

A. E. Fuhs and O. Biblarz, "Laser Internal Aerodynamics and Beam Quality," Society of Photographic and Instrumentation Engineers, Proceedings of 1973 Annual Meeting (in press).

A. E. Fuhs, "Density Changes in a Laser Cavity Including Wall Reflections and Kinetics of Energy Release," 1st Aerospace Sciences Meeting, Washington, D. C., 1973.

A. E. Fuhs, "Thermal Blooming in Supersonic Slewing," Fluid Mechanics Division, American Physical Society, Yale University, 1973.

A. E. Fuhs, "Thermal Blooming in Subsonic Slewing," Fluid Mechanics Division, American Physical Society, Yale University, 1973.

A. E. Fuhs, "Energetics for Aircraft Auxiliary Power Systems," AGARD Conference Proceedings, No. 104, London, Technical Editing & Reproduction Ltd., 1972.

A. E. Fuhs, "An Open Jet Wind Tunnel for External Burning with a Spinning Projectiles," AIAA/SAE 9th Propulsion Conference, Las Vegas, Nevada, 1973.

A. E. Fuhs, "External Burning Assisted Projectiles: Theory and Experiment," AIAA/SAE 9th Propulsion Conference, Las Vegas, Nevada, 1973.

A. E. Fuhs, "Diagnostics and Engine Condition Monitoring," Second Tri-service Meeting on Engine Health Monitoring, NAS, Lemoore, CA, 1973.

A. E. Fuhs, "External Burning Assisted Projectile--A Progress Report," 10th JANNAF Combustion Meeting, Newport, Rhode Island, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

CONFERENCE PRESENTATIONS (CONT)

A. E. Fuhs, "Diagnostics and Engine Condition Monitoring," presented at Second Tri-service Meeting on Engine Health Monitoring, 1973. Published by Naval Air Propulsion Test Center, Trenton, New Jersey.

A. E. Fuhs, W. Smithey, M. Naber and G. Caswell, "External Burning Assisted Projectiles--A Progress Report," 10th JANNAF Combustion Meeting, Newport, Rhode Island, 1973, (in press)

A. E. Fuhs and O. Biblarz, "Laser Internal Aerodynamics and Beam Quality," Society of Photographic & Instrumentation Engineers, Proceedings of 1973 Annual Meeting.

A. E. Fuhs, "Thermal Blooming with Transonic Slewing," Laser Propagation Workshop, Kirtland AFB, NM, AFWL, 1974.

A. E. Fuhs, "Numerical Results for Thermal Blooming in Transonic Slewing," MHD, Plasmas, and Radiation Session of APS Annual Meeting of the Division of Fluid Dynamics, Pasadena, CA, 1974.

A. E. Fuhs, "An Exact Inverse Solution to Thermal Blooming in Transonic Slewing," MHD, Plasmas, and Radiation Session of APS Annual Meeting of the Division of Fluid Dynamics, Pasadena, CA, 1974.

T. H. Gawain, "Basic Performance Limits for Propellers," Naval Postgraduate School, 1973.

T. H. Gawain, "Basic Performance Limits for Propellers," Naval Air Development Center, 1973.

T. H. Gawain, "Basic Performance Limits for Propellers," Naval Ship Research & Development Center, 1973.

T. H. Gawain, "Three Dimensional Instability in Simple Poiseuille Flow," Naval Postgraduate School, 1974.

G. H. Lindsey, "Summary of Research on Dewetting at the Naval Postgraduate School," JANNAF Structures and Mechancial Behavior Working Group 11th Meeting, 1973, CPIA Publication 239.

D. W. Netzer, "An Investigation of the Internal Ballistics of Solid Fuel Ramjets," with L. D. Boaz, 10th JANNAF Combustion Meeting, Naval War College, 1973. Published in Proceedings.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

CONFERENCE PRESENTATIONS (CONT)

D. W. Netzer, "Review of the Workshop on the Effects of Acceleration on the Combustion of Solid Propellants," 10th JANNAF Combustion Meeting, Naval War College, 1973.

D. W. Netzer, "An Investigation of the Internal Ballistics of Solid Fuel Ramjets," with C. E. Jones, III, and J. T. Phaneuf, 11th JANNAF Combustion Meeting, JPL, Pasadena, 1974.

D. W. Netzer, "Modeling Solid Fuel Ramjet Combustion," 12th JANNAF Combustion Meeting, Naval War College, Newport, R. I., 11-15 August 1975.

D. W. Netzer, "Experimental and Analytical Studies of Solid Fuel Ramjets," Workshop on Modeling Airbreathing Combustors, 11th JANNAF Combustion Meeting, JPL, Pasadena, CA, September 9-13, 1974.

D. W. Netzer, "Ammonium Perchlorate and Ammonium Perchlorate-Binder Sandwich Combustion," 12th Aerospace Science Meeting, Washington, D. C., January 30-February 1, 1974.

D. W. Netzer, "Experimental Study of the Flow Field in Solid Fuel Ramjets," JANNAF Workshop on Airbreathing Combustors, Naval War College, Newport, R. I., 12-13 August 1975.

M. F. Platzer and LT C. W. Brix, "Theoretical Investigation of Supersonic Flow Past Oscillating Cascades with Subsonic Leading-Edge Locus," AIAA Paper No. 74-14, presented at AIAA 12th Aerospace Sciences Meeting, 1974.

M. F. Platzer and LT H. G. Chalkley, "Theoretical Investigation of Supersonic Cascade Flutter and Related Interference Problems," AIAA Paper No. 72-377, presented at AIAA/ASME/SAE 13th Structures, Structural Dynamics, and Materials Conference, San Antonio, Texas, 1972.

M. F. Platzer, "Unsteady Transonic and Supersonic Cascade Flow," Proc. Workshop on Aeroelasticity in Turbomachines, Office of Naval Research Project Squid, Indianapolis, Indiana, 1972.

M. F. Platzer, L. J. Deal, and W. S. Johnson, "Experimental Investigation of Oscillatory Jet Flow Effects," paper Presented before the Symposium on Unsteady Aerodynamics, University of Arizona, 1975 and published in The Proceedings.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

CONFERENCE PRESENTATIONS (CONT)

M. F. Platzer, W. R. Chadwick and J. K. Bell, "On the Analysis of Supersonic Flow Past Oscillating Cascades," presented before the Advisory Group for Aeronautical Research and Development (AGARD) Conference on Unsteady Phenomena in Turbomachinery, Monterey, California, 1975. Published in The Proceedings, 1975, AGARD-CPP-177, Paper No. 29.

R. D. Zucker, "Demonstration of Slide-Tape Briefings for Laboratories," presented at National ASEE Annual Meeting, Iowa State University, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

JOURNAL PUBLICATIONS

R. E. Ball, "Dynamic Buckling of Shallow Spherical Shells," with J. A. Burt, Journal of Applied Mechanics, Trans. ASME, Vol. 40, Series E, No. 2 (1973).

R. E. Ball, "Fuel Tank Wall Response to Hydraulic Ram During the Shock Phase," with H. C. Power and A. E. Fuhs, AIAA Journal, Vol. 10 (1973).

R. E. Ball, "Computer Analysis of Buckling of Imperfect Shells," with B. A. Ryan, Journal of Structural Division, Proceedings ASCE, Vol. 99, No. STLO (1973).

R. E. Ball, "Some Structural Problems in Gun-Launched Rocket Motors," with D. Salinas, JANNAF Operational Serviceability and Structures and Mechanical Behavior Working Groups--1974, Combined Annual Meeting, NPS, Monterey, CA, CPIA Publication No. 253.

R. E. Ball, "A Comparison of Computer Results for the Dynamic Response of the LMSC Truncated Cone," et al., Computers & Structures, Vol. 4 (1974).

O. Biblarz, "Turbulence Effects on an Ambient Pressure Discharge," Journal of Applied Physics, 45, 66 (1974), with R. E. Nelson.

O. Biblarz, "Expl. Verification of Density Inhomogeneity...," Applied Physics Letters, 24, 132 (1974), with A. E. Fuhs and others.

O. Biblarz, "Laser Cavity Density Changes...," AIAA Journal, 12 (1974), with A. E. Fuhs.

O. Biblarz, "Laser Internal Aerodynamics and Beam Quality," with A. E. Fuhs, Proceedings of SPIE Dev. Laser Tech II, 41 (1973).

O. Biblarz, R. C. Dolson, and A. M. Shorb, "Anode Phenomena in a Collision Dominated Plasma," Journal of Applied Physics, 1975.

H. W. Burden, "The Effect of Wall Porosity on the Stability of Parallel Flows Over Compliant Boundaries," being submitted to Journal of Fluid Mechanics.

H. W. Burden, "The Effect of Wall Porosity on the Stability of Parallel Flows Over Compliant Boundaries," presentation and abstract, Bulletin of American Physical Society, 18 (1973).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

JOURNAL PUBLICATIONS (CONT)

H. W. Burden, "Thermal Blooming in Subsonic (Laser Beam Slewing," presentation and abstract in Bulletin of American Physical Society, 18 (1973).

H. W. Burden, "Numerical Results for Thermal Blooming in Transonic Slewing," A. E. Fuhs, American Physical Society, 19 (1974).

H. W. Burden, "An Exact Inverse Solution to Thermal Blooming in Transonic Slewing," A. E. Fuhs and F. E. Carey, abstract in Bulletin of American Physical Society, 19 (1974).

D. J. Collins, "Application of Holographic Interferometry to Density Field Determination in Transonic Corner Flow," R. A. Kosakowski and D. J. Collins, AIAA.

A. E. Fuhs and O. Biblarz, "Laser Cavity Density Changes with Kinetics of Energy Release," AIAA Journal, 12 (1974).

A. E. Fuhs, "Introduction to Distortion Induced Engine Instability," Distortion Induced Engine Instability, AGARD Lecture Series, No. 72 (1974).

A. E. Fuhs, O. Biblarz, J. K. Cawthra, and J. L. Campbell, "Experimental Verification of Density Inhomogeneity Due to Lasing in a Gas-Dynamic Laser," Applied Physics Letters, 24 (1974).

A. E. Fuhs, G. W. Margerum, and J. W. Leonard, "Fiber Optic and Laser Digital Pressure Transducers," Instrumentation for Air-Breathing Propulsion, Edited by A. E. Fuhs and Marshall Kingery, Vol. 34, in progress in Astronautics Series, Cambridge, MA: The MIT Press, 1974.

A. E. Fuhs and CDR W. Smithey, "External Burning Assisted Projectile," Purdue Workshop on Base Burning, in press, Vol. in AIAA Progress Series.

A. E. Fuhs, "Wave Structure of Aircraft Exhaust," submitted to Journal of Aircraft.

A. E. Fuhs, R. E. Ball, and H. L. Power, "Fuel Tank Wall Response to Hydraulic Ram During the Shock Phase," Journal of Aircraft, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

JOURNAL PUBLICATIONS (CONT)

A. E. Fuhs and O. Biblarz, "Density Changes in a Laser Cavity Including Wall Reflections and Kinetics of Energy Release," AIAA Paper No. 73-141, 11th Aerospace Sciences Meeting, Washington, D. C. 1973. (Accepted for publication in AIAA Journal).

A. E. Fuhs, O. Biblarz, and F. E. Carey, "Thermal Blooming in Supersonic Slewing," Bulletin of American Physical Society, 18 (1973), abstract only.

A. E. Fuhs, H. W. Burden and O. Biblarz, "Thermal Blooming in Subsonic Slewing," Bulletin of American Physical Society, 18 (1973), abstract only.

A. E. Fuhs, O. Biblarz, F. Carey, and H. Burden, "Numerical Results for Thermal Blooming in Transonic Slewing," Bulletin of American Physical Society, 19 (1974), abstract only.

A. E. Fuhs, H. Burden, and F. Carey, "An Inverse Solution to Thermal Blooming in Transonic Slewing," Bulletin of American Physical Society, 19 (1974), abstract only.

T. H. Gawain, "An Operational System of Grading," with G. H. Lindsey, Engineering Education, Vol. 63 (1973).

T. H. Gawain, "Some Reflections on Education for Creativity in Engineering," IEEE Transactions on Education, Vol. E-17 (1974).

R. A. Hess, "Suboptimal Control of Time Delay Systems," IEEE Transactions on Automatic Control, AC-18(6) (1973).

R. A. Hess, "Nonadjectival Rating Scales in Human Response Experiments Human Factors," 1973.

R. A. Hess, "Error Quantization Effects in Compensatory Tracking Tasks," IEEE Transactions on Systems, Man and Cybernetics, SMC-4(4) (1974).

R. A. Hess and L. W. Wheat, "A Model Based Analysis of a Display of Helicopter Landing Approach," Transactions, Systems, Man and Cybernetics, 1975.

G. H. Lindsey, "Viscoelastic Fracture of Solid Propellants in Pressurization Loading Conditions," Journal of Spacecraft and Rockets, Vol. 11, No. 10 (October 1974). (Co-authored with E. C. Francis and C. H. Carlton)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

JOURNAL PUBLICATIONS (CONT)

G. H. Lindsey, "Some Observations on Fracture Under Combined Loading," in progress in Flaw Growth & Fracture Toughness, ASTM publication STP 536, American Society for Testing and Materials, 1973.

G. H. Lindsey, "An Isotropic Theory of Dewettable Solids," Transactions of the Society of Rheology, Vol. 17, No. 3 (1973), co-authored with S. A. Murch.

G. H. Lindsey, "An Operational System of Grading," ASEE Journal of Engineering Education, Vol. 63, No. 6 (March 1973), co-authored with T. H. Gawain).

G. H. Lindsey, "Crack Trajectories in Solic Propellant Under Combined Loads," International Journal of Fracture, Vol. 11, No. 2 (April 1975), co-authored with S. A. Marinshaw.

G. H. Lindsey, "Determination of Dewetting Criterion for Non-linear Solid Propellant Stress Analysis," American Society Mechanical Engineering Journal of Engineering Materials and Technology, Vol. 97, Series H, No. 3 (July 1975), co-authored with J. E. Woods.

D. W. Netzer, "Amonium Perchlorate and Ammonium Percholorate - Binder Sandwich Combustion," with J. L. Murphy, AIAA Journal, Vol. 12, No. 1 (1974).

D. W. Netzer, "Ammonium Perchlorate Combustion: Effects of Sample Preparation; Ingredient Type, and Pressure, Temperature and Acceleration Environments," with T. G. Boggs and D. E. Zurn of N.W.C., Combined Science and Technology, 1973.

D. W. Netzer, "Nonmetallized Solid Propellant Combustion in Standard and High Acceleration Environments," with A. M. Abraham, III, Combined Science and Technology, Vol. 11, No. 1 $ 2, pp. 75-83 (1974).

D. W. Netzer, "Laser Schlieren for Study of Solid Propellant Combustion," with J. R. Andrews, accepted for publication in AIAA Journal.

M. F. Platzer, "Wind Tunnel Interference on Oscillating Airfoils in Low Supersonic Flow," Acta Mechanica 16, 1973.

M. F. Platzer, C. W. Brix, Jr. and K. A. Webster, "Linearized Characteristics Method for Supersonic Flow Past Vibrating Shells," AIAA Journal, Vol. 11 (1973).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

JOURNAL PUBLICATIONS (CONT)

M. F. Platzer, "Transonic Blade Flutter - A Survey," The Shock and Vibration Digest, Vol. 7 (1975).

M. F. Platzer and D. D. Liu, "Approximate Methods for Transonic Flow Past Finite Wedge Profiles," accepted for publication in Zeitschrift fur angewandte Mathematik und Mechanik (ZAMM).

H. L. Power, "Magnus Effect on Spinning Bodies of Revolution," with J. D. Iversen, AIAA Journal, Vol. 11, No. 4 (1973).

R. D. Zucker, "Slide-tape Briefings for Laboratories," ERM Magazine, publication of ERM Division of ASEE, Vol. 6, No. 4 (1974).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

TECHNICAL REPORTS AND NOTES

R. E. Ball, "A Comparison of Several Computer Solutions to Three Structural Shell Analysis Problems," with R. F. Hartung, Air Force Flight Dynamics Laboratory, Technical Report AFFDL TR-73-15, 1973.

R. E. Ball, "Transient Axial Response of a Gun-Launched Rocket Motor Case During Launch," with D. Salinas, Technical Report NPS59Zc73011A, 1973.

R. E. Ball, "Design Buckling Curves for Gun-Launched Rockets," with D. Salinas, Technical Report NPS59Zc73081A, 1973.

R. E. Ball, "FY 73 Hydraulic Ram Studies," with A. F. Fuhs and H. L. Powers, Technical Report NPS57Fu74021, 1974.

R. E. Ball, "Prediction of the Response of the Exit Wall of the NWC 50 Cubic Feet Tank to Hydraulic Ram," Technical Report NPS57Bp74031, 1974.

R. E. Ball, "Radial Pressure on a Gun-Launched Motor Case Due to Slumping Propellant," with D. Salinas, Technical Report NPS59Zc74031, 1974.

R. E. Ball, "A Discussion of Dynamic Crack Propagation in Bent Plates," Technical Report NPS57Bp74041, 1974.

R. E. Ball, "Natural Frequencies of Bonded and Unbonded Propellants in Three-and-Five-Inch Rocket Motors," Technical Report NPS57Bp74051, 1974.

R. E. Ball, "Aircraft Fuel Tank Vulnerability to Hydraulic Ram: Modification of the Northrup Finite Element Computer Code BR-1 to Include Fluid-Structure Interaction--Theory and User's Manual for BR-1HR," Technical Report NPS57Bp74071, 1974.

O. Biblarz, "Gas Properties Computational Procedure Suitable for Electronic Calculators," Technical Report NPS57Zi-74071A, with J. R. Andrews.

O. Biblarz, "Electrogasdynamic Spectral Anemometer," Technical Report NPS57Zi74112A.

O. Biblarz, "Electrohydrodynamics (EHD) Research," Technical Report NPS57Zi73021A.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

TECHNICAL REPORTS AND NOTES (CONT)

O. Biblarz and R. C. Dolson, "Electrode Loss Mechanism in MHD Generators," Technical Report NPS57Zi75052A, 1975.

A. E. Fuhs, "Density Inhomogeneity in a Laser Cavity Due to Energy Release," Technical Report NPS57Fu72051A, 1972. Published in AIAA Journal, II (1973).

T. H. Gawain, "An Alternative Formulation of the Lifting Line Wing Equation and Its Solution," Technical Report NPS57Gn73121A, 1973.

T. H. Gawain, "On the Axiomatic Foundations of Dimensional Analysis," Technical Report NPS57Gn74051, 1974.

R. A. Hess, "A Revised Design Concept for the A-7E Approach Power Compensator System," 1973.

D. M. Layton, "Quarterly - Surface Effect Ship Program Office."

D. M. Layton, "Evaluation of the XR-3 Testcraft," Technical Report NPS57Ln73011B, January 1973.*

D. M. Layton, "Evaluation of the XR-3 Testcraft," Technical Report NPS57Ln73041B," April 1973.*

D. M. Layton, "Evaluation of the XR-3 Testcraft," Technical Report NPS57Ln73101B," October 1973.*

D. M. Layton, "Evaluation of the XR-3 Testcraft," Technical Report NPS57Ln73122B," December 1973.*

*Joint report with Professor G. J. Thaler, Electrical Engineering Department.

D. M. Layton, "Testing the XR-3 Captured Air Bubble Testcraft," 16 mm. sound color movie, 22 minutes, SPECIAL, Naval Air Systems Command, October 1973.

D. M. Layton, "Flight Evaluation Techniques Program," Technical Report NPS57Ln73121B, December 1973.

D. M. Layton, "QUARTERLY--Surface Effect Ship Program Office I, II, III, IV," 1974.

D. M. Layton, "ANNUAL-Surface Effect Ship Program Office," December 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

TECHNICAL REPORTS AND NOTES (CONT)

D. M. Layton, "SPECIAL-Naval Ship Research & Development Center, July 1974 - XR-3 Turning Performance."

G. H. Lindsey, "Viscoelastic Analysis Method for Rocket Motors Containing Cracks," Technical Report NPS57Li-73031A, 1973.

D. W. Netzer, "Ammonium Percholrate and Ammonium Perchlorate-Binder Sandwich Combustion," J. L. Murphy, Technical Report NPS57Nt73021A, 1973.

D. W. Netzer, "Internal Ballistics of Solid Fuel Ramjets," L. D. Boaz, C. E. Jones III, Technical Report NPS57Nt-72091B, 1973.

D. W. Netzer, "An Investigation of the Internal Ballistics of Solid Fuel Ramjets," L. D. Boaz, Technical Report NPS57Nt73031A, 1973.

D. W. Netzer, "An Investigation of Solid Propellant Combustion in Standard and High Acceleration Environments," with M. Abraham, III, O. A. Klahr, and R. R. Gerhardt, Technical Report NPS57Nt74031, 1974.

D. W. Netzer, "Flow Characteristics in Solid Fuel Ramjets," with J. T. Phaneuf, Jr., Technical Report NPS57Nt74081, 1974.

D. W. Netzer, "The Development of an Optically Active Laser Schlieren System with Application to High Pressure Solid Propellant Combustion," J. R. Andrews, Technical Report NPS57Nt75082, 1975.

D. W. Netzer, "Modification of an Ambient Air Quality Model for Assessment of U.S. Naval Aviation Emittants," with K. I. Weal, Technical Report NPS57Nt75071A, 1975.

D. W. Netzer, "An Investigation of the Flow in Turbojet Test Cells and Augmenters," J. D. Hayes, Technical Report NPS57Nt75101, 1975.

H. L. Power, A. E. Fuhs, and R. E. Ball, "FY 73 Hydraulic Ram Studies," Technical Report NPS57Fu74021, 1974.

H. L. Power, "FY 74 Experimental Hydraulic Ram Studies," Technical Report NPS57Ph74081, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

TECHNICAL REPORTS AND NOTES (CONT)

H. L. Power, "Spinning Missile Magnus Force Measurement," Technical Report NPS57Ph74111, 1974.

H. L. Power, "FY 74 Experimental Hydraulic Ram Studies," Technical Report NPS57Ph74081, 1974.

H. L. Power, "FY 75 Experimental Hydraulic Ram Studies," Technical Report NPS57Ph75061, 1975.

R. P. Shreeve, "Calibration of Flow Nozzles Using Traversing Pitot-Static Probes," Technical Report NPS57Sf73071A, 1973.

R. P. Shreeve, "Report on the Testing of a Hybrid (Radial-toOAxial) Compressor," Technical Report NPS57Sf73112A, 1973.

R. P. Shreeve, "Calculation of Turbine Rotor Blade Characteristics--Profile 4," Technical Report W/DP-57Sf30201, 1973.

R. P. Shreeve, "Estimation of Rotor-Face Inlet Conditions and Inlet Blockage Factor for General Atomic Corp. Helium Compressor," Technical Report GA-RPS7405-1, 1974.

R. P. Shreeve, "Analysis of the Performance of the General Atomic Corp. Helium Compressor," Technical GA-RPS7405-2, 1974.

R. P. Shreeve, "Analysis of the Cavitation Onset in the Rotor Blading of the Mark 14 Energy Absorber," Memorandum EA-RPS7408-2, 1974.

R. P. Shreeve, "Program to Calculate Non-Uniform Cylindrical Flow in an Annulus," Memorandum GA-RPS7406-1, 1974.

R. P. Shreeve, "Analysis of the Cavitation Onset in the Rotor Blading of the Mark 14 Energy Absorber," Memorandum EA-RPS7408-1, 1974.

R. P. Shreeve, "Flow into a Transonic Compressor Rotor, Part 1 - Analysis," Technical Report NPS57Sf74081, 1974.

M. H. Vavra, "Design Report of Hybrid Compressor and Associated Test Rig," Technical Report NPS57Va73071A, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

TECHNICAL REPORTS AND NOTES (CONT)

M. H. Vavra, "Redesign of the Low Speed Three-Stage Axial Flow Compressor Test Facility," Technical Report NPS57Va73121A, 1973.

M. H. Vavra, "Calculating Procedure of Sea-Level Static Performance of Two-Spool Afterburning Bypass Jet Engine," Technical Report NPS57Va73061A, 1973.

M. H. Vavra, "Calculating Method for Multi-Stage Axial Compressors with Impulse Blading and Constant Tip Diameter," 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

THESES DIRECTED

J. C. Bitzburger, "Two-Dimensional Analysis of Fluid-Structural Interaction by Method of Finite Differences - Hydraulic Ram, The Fuel Tank Problem," Master's Thesis, 1974, (Advisor: R. E. Ball).

C. M. Holm, "Hydraulic Ram Pressure Measurements," Master's Thesis, 1975, (Advisor: R. E. Ball).

D. L. Saba, "Stress Concentrations Around Holes in Laminated Fibrous Composites," Master's Thesis, June 1975, (Advisor: M. H. Bank).

R. S. Alves, "Stress Concentration in Fibrous Composite Material," Master's Thesis, 1975, (Advisor: M. H. Bank).

M. M. Oudekerk, "Experimental Investigation of the Starting Process of Short Diffusers for Gas Dynamic Lasers," Master's Thesis, 1975, (Advisor: O. Biblarz).

J. R. Osani, "High Pressure Electric Discharge Convection Laser, a Preliminary Study," Master's Thesis, 1974, (Advisor: O. Biblarz).

R. G. Bettinger, "Application of Holographic Interferometry to the Exterior Ballistic Flow Field in the Muzzle Environment of a Twenty Millimeter Cannon," Master's Thesis, 1975, (Advisor: D. J. Collins).

W. F. Harrison, "On the Stability of Poiseuille Flow," Engineer's Thesis, 1975, (Advisor: T. H. Gawain).

R. W. Maloney, "The Effect of Seal Shape Variations Upon the Performance of the XR-3 Captured Air Bubble Testcraft," Master's Thesis, 1975, (Advisor: D. M. Layton).

W. M. Leins, "XR-3 Center of Gravity Characteristics," Master's Thesis, 1975, (Advisor: D. M. Layton).

G. H. Davis, Jr. and P. J. Valovich, Jr., "Investigation of a Cessna 310H Aircraft for Academic Investigation of Flying Qualities and Performance Characteristics," Master's Thesis, 1973, (Advisor: D. M. Layton).

P. Dabbieri, "Data Reduction System for XR-3 Testcraft," Master's Thesis, 1973, (Advisor: D. M. Layton).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

THESES DIRECTED (CONT)

W. F. Beldin, "CAB Performance with Membrane Seals," Master's Thesis, 1973, (Advisor: D. M. Layton).

J. F. O'Malley, "Conversion of the XR-3 Testcraft to an Air Spring Seal Configuration," Master's Thesis, 1973, (Advisor: D. M. Layton).

J. L. Feeney, "XR-3 Data Acquisition System for Performance Evaluation," Master's Thesis, 1973, (Advisor: D. M. Layton).

W. T. Broadhurst, "Installation and Validation of an Airborne Data Acquisition System Aboard a Cessna 310H for Use as a Flying Laboratory," Master's Thesis, 1974, (Advisor: D. M. Layton).

S. S. Hoxie, "The Implementation of a Fixed Bases Helicopter Simulation in the Investigation of an Automatic Scan System," Aeronautical Engineer's Thesis, 1974, (Advisor: D. M. Layton).

R. F. Johnson and M. B. Kelley, "Data Acquisition System for Aircraft Flying Qualities Investigation," Master's Thesis, 1974, (Advisor: D. M. Layton).

D. P. Gauthier, "Effects of Short Period Angle of Attack Oscillation on Air-To-Ground Weapons Dive Delivery Accuracy," Master's Thesis, 1974, (Advisor: D. M. Layton).

A. Yates, "Computerized Data Reduction for In-Flight Laboratory," Master's Thesis, 1974, (Advisor: D. M. Layton).

J. H. Roberts, "Turning Performance of the XR-3 Captured Air Bubble Testcraft," Master's Thesis, 1974, (Advisor: D. M. Layton).

L. R. Ammerman, "Evaluation of an Integrated Electronic Instrument Display for Helicopter Hover Operations Using a Six-Degree-of-Freedom Fixed Base Simulation," Master's Thesis, 1975, (Advisor: D. M. Layton).

W. H. Siren, "A Flight Test Determination of the Static and Dynamic Longitudinal Stability of the Cessna 310H Aircraft," Master's Thesis, 1975, (Advisor: D. M. Layton).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

THESES DIRECTED (CONT)

J. P. Kennedy, "Time Sharing Effects on Pilot Tracking Performance," Master's Thesis, 1975, (Advisor: D. M. Layton).

G. W. Wicks and M. P. Waite, "Development of a Miniature Digital Telemetry System," Master's Thesis, 1975, (Advisor: D. M. Layton).

R. M. Eddy, "A Survey of the Pressure Distribution Within the Plenum Chamber of the XR-3 Testcraft," Master's Thesis, 1975, (Advisor: D. M. Layton).

J. S. Payne, "Air Pressure Loads on the Rear Seal of the XR-3 Captured Air Bubble Testcraft," Master's Thesis, 1975, (Advisor: D. M. Layton).

S. A. Marinshaw, "Combined Loading Fracture Trajectories of Viscoelastic Materials," Aeronautical Engineering Thesis, June 1973, (Advisor: G. H. Lindsey).

D. A. Hallwachs, "An Investigation into Methods of Detecting Dewetted Zones in Solid Rocket Propellants Using Holographic Interferometry," Aeronautical Engineering Thesis, June 1973, (Advisor: G. H. Lindsey).

R. E. Kapernick, "Evaluation of the Fracture Postulate for Viscoelastic Materials," Master's Thesis, December 1973, (Advisor: G. H. Lindsey).

J. E. Kane, "Sequence Effects in Predicting Fatigue Damage of High Performance Aircraft," Master's Thesis, June 1974, (Advisor: G. H. Lindsey).

R. A. Kish, "A Critical Analysis of Fatigue Crack Propagation Data for 2004 - T3 Aluminum," Aeronautical Engineering Thesis, December 1974, (Advisor: G. H. Lindsey).

D. M. Vidrine, "A Sequential Strain Monitor and Recorder for Use in Aircraft Fatigue Life Prediction," Aeronautical Engineering Thesis, June 1975, (Advisor: G. H. Lindsey).

W. F. Savage, "A Critical Examination of Two Classical Assumptions in Fatigue Monitoring of Aircraft," Master's Thesis, September 1975, (Advisor: G. H. Lindsey).

L. D. Boaz, "Internal Ballistics of Solid Fuel Ramjets," Master's Thesis, March 1973, (Advisor: D. W. Netzer).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

THESES DIRECTED (CONT)

J. L. Murphy, "A Color Schlieren Study of Ammonium Perchlorate Binder Sandwich Combustion," Master's Thesis, March 1973, (Advisor: D. W. Netzer).

C. E. Jones, "Investigation into the Variation of the Internal Ballistics of a Solid Fuel Ramjet Through Combustion Design," Master's Thesis, September 1973, (Advisor: D. W. Netzer).

M. Abraham, "Nonmetallized Solid Propellant Combustion in High Acceleration Environments," Master's Thesis, September 1973, (Advisor: D. W. Netzer).

O. A. Klahr, "Application of Laser Schlieren and Monochromatic Photography to Solid Propellant Combustion Research," Master's Thesis, December 1973, (Advisor: D. W. Netzer).

C. C. Failla, "Velocity, Kinetic Energy, and Pressure Deviations Resulting from the Adaptation of a Secondary Propellant Chamber on a 30-06 Rifle Barrel," Master's Thesis, December 1973, (Advisor: D. W. Netzer).

R. R. Gerhardt, "Schlieren Study of Composite Propellant Combustion," Master's Thesis, March 1974, (Advisor: D. W. Netzer).

J. T. Phaneuf, "An Experimental Investigation of the Internal Ballistics of Solid Fuel Ramjets," Master's Thesis, June 1974, (Advisor: D. W. Netzer).

K. I. Weal, "Modification of an Ambient Air Quality Model for Assessment of U. S. Naval Aviation Emittants," Master's Thesis, June 1975.

J. D. Hayes, "An Investigation of the Flow in Turbojet Test Cell Augmenters," Master's Thesis, September 1975, (Advisor: D. W. Netzer).

G. C. Speakman, "Flow Field Calculations in Turbojet Test Cells," Master's Thesis, June 1975, (Advisor: D. W. Netzer).

J. R. Andrews, "The Development of an Optically Active Laser Schlieren with Application to High Pressure Solid Propellant Combustion," Aeronautical Engineering Thesis, September 1975, (Advisor: D. W. Netzer).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

THESES DIRECTED (CONT)

R. J. Naughton, "An Application of Holographic Interferometry to Gun Barrel Erosion," Aeronautical Engineering Thesis, December 1974, (Advisor: D. W. Netzer).

C. W. Brix, Jr., "Method of Characteristics Studies of Supersonic Flow Past Vibrating Cascades and Shells," Engineer's Thesis, 1973, (Advisor: M. F. Platzer).

L. J. Deal, "Gust Alleviation Studies Using Fluidically Controlled Jet Flaps," Engineer's Thesis, 1974, (Advisor: M. F. Platzer).

C. M. Tankersley, "An Experimental Investigation of Incompressible Flow Past Jet-Flapped Airfoils In and Out of Ground Effect," Master's Thesis, 1974, (Advisor: M. F. Platzer).

J. G. O'Brien, "An Evaluation of the Pulse-Jet Engine for Naval Applications," Master's Thesis, 1974, (Advisor: M. F. Platzer).

P. B. Schlein, "A Theoretical Study of Unsteady Transonic Interference Effects," Ph.D. Thesis, 1975, (Advisor: M. F. Platzer).

W. R. Chadwick, "Unsteady Supersonic Cascade Flows Including Nonlinear Thickness Effects," Ph.D. Thesis, 1975, (Advisor: M. F. Platzer).

J. R. Bell, "Supersonic Compressor Blade Flutter Studies," Engineer's Thesis, 1975, (Advisor: M. F. Platzer).

W. R. Solms, "Measurement of Stage and Blade Row Performance of Axial Turbines with Subsonic and Supersonic Stator Exit Conditions," Master's Thesis, 1975, (Advisor: R. P. Shreeve).

D. J. Anderson, "Velocity Measurements in a Transonic Compressor Using a Calibrated Pressure Probe," Master's Thesis, 1975, (Advisor: R. P. Shreeve).

F. Palka, "Tape-Slide Lecture Packages for Use in Aero Laboratories," Master's Thesis, 1973, (Advisor: R. D. Zucker).

D. S. Wallace, "Preparation of Slide-Tape Lecture Programs for Use in Aero Laboratories," Master's Thesis, 1973, (Advisor: R. D. Zucker).

NAVAL POSTGRADAUTE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

THESES DIRECTED (CONT)

A. E. Bellinoff, "Sound-Slide Programmed Learning," Master's Thesis, 1974, (Advisor: R. D. Zucker).

F. D. Schwikert, "Evaluation of Slide-Tape Lecture Programs Used in Aero Laboratories," Master's Thesis, 1975, (Advisor: R. D. Zucker).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF AERONAUTICS

BOOKS

R. D. Zucker, Textbook on "Fundamentals of Gas Dynamics" written especially for self-paced instruction.

A. E. Fuhs and Marshall Kingery, Editors, Instrumentation for Air Breathing Propulsion, (Cambridge, MA, MIT Press, 1974).

A. E. Fuhs, Lecture Series Director and Editor, Distortion Induced Engine Instability, AGARD LS-72, 1974.

A. E. Fuhs, Editor, Diagnostics and Engine Health Monitoring, Proceedings of AGARD PEP 43rd Meeting, Liege, Belgium, 1974.

M. H. Vavra, Aero-Thermodynamics and Flow in Turbomachines, John Wiley and Sons, Inc., NY, being republished to be available in early 1975.

M. F. Platzer, Editor, Prediction Methods for Jet V/STOL Propulsion Aerodynamics, Proceedings of a Workshop sponsored by the Naval Air Systems Command, July 28-31, 1975, Vol. I and II.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

COMPUTER SCIENCE GROUP

CONFERENCE PRESENTATIONS

B. E. Allen and G. L. Barksdale, Jr., "MUNIX, An Environment for Software Development and Real-Time Execution," Ninth International Conference on System Sciences, 1976, Honolulu, Hawaii.

G. D. Gibbons, "PDPS: An Application of Heuristic Search Methods to the Processing of a Nondeterministic Programming Language," Third International Joint Conference on Artificial Intelligence, Stanford, 1973.

G. A. Kildall, "The General Purpose Computer as a Personal Tool," Mini Micro Computer Symposium, United States Naval Academy, 1975, pp. 37-43.

G. A. Kildall, "Resident Microcomputer Software Development: A Case Study," Proceedings of the 1975 Western Electronic Show and Convention, 1975, pp 1-5.

G. A. Kildall, "Engineering Microcomputer Software," AFIPS National Computer Conference, 1975.

G. A. Kildall, "Systems Languages: Management's Key to Controlled Software Evolution," Western Electronics Conference, 1974 and 1975.

G. A. Kildall, "Unified Approach to Global Program Optimization," ACM Symposium on Principles of Programming Languages, Proceedings, 1973.

G. A. Kildall, "Microcomputer Software Design-A Checkpoint," presented at the AFIPS National Computer Conference, Anaheim, 1975.

U. R. Kodres, "Logic Circuit Layout," Proceedings of Summer Seminar on Design Automation of Computers, Center of Advanced Studies, Belgrade, Yugoslavia, 1974.

U. R. Kodres, "Microcomputers in Tactical Data Systems," CMS-2 User Group Meeting, San Diego, CA.

U. R. Kodres, and W. L. McCracken, "Design Study of a Microcomputer Based Avionics Navigation System," Proceedings of Second Annual Symposium of Computer Architecture, University of Houston, 1975.

V. M. Powers, "High-Level Languages for Microcomputers," Microcomputer Technology Task Group Meeting, Naval Electronics Laboratory Center, San Diego, CA, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

COMPUTER SCIENCE GROUP

JOURNAL PUBLICATIONS

G. A. Kildall, "High-Level Language Simplifies Microcomputer Programming," Electronics Magazine, 1974.

V. M. Powers, "Pen Direction Sequences in Character Recognition," Pattern Recognition, Pergamon Press, 1973.

TECHNICAL REPORTS

B. E. Allen and G. L. Barksdale, Jr., "Design Considerations for the NPS Signal Processing and Display Laboratory Multiprocessing Operating System," NPS72An75111, 1975.

G. L. Barksdale, Jr. and W. B. Meyer, "TPS, A Text Processing System, Primer and Reference Manual," NPS-72Ba760111, 1976.

V. M. Powers, "Control Structures in Digital Processes," NPS-52Pw73081A, 1973.

V. M. Powers, "A Navigation Microcomputer and Shipboard Information Distribution," NPS-72Pw76011, 1976.

THESES DIRECTED

J. Antonelli, "Updating the Navy Environmental Protection Data Base to Incorporate a Cost Figure for an Oil Spill," Master's Thesis, June 1975. (Advisor: M. U. Thomas)

R. E. Beal, "An Investigation of a Method of Obtaining a Phase Coherence Numeric," Master's Thesis, 1974. (Advisor: G. A. Rahe)

R. M. Clautero, "Generalized Approach for Evaluating Data Base Organization and Indexing Methods," Master's Thesis, 1975. (Advisor: N. F. Schneidewind)

E. Coulter and D. J. Parker, "Machine Independence - The Problems of Portability," Master's Thesis, 1974. (Advisor: G. A. Kildall)

J. W. Cowan, "An Implementation of an Iterative Global Flow Analysis Algorithm," Master's Thesis, 1975. (Advisor: G. A. Kildall)

J. C. Davis, II, "Current Alternatives for a Cockpit Calculator for Tactical Aircraft Pilots," Master's Thesis, 1975. (Advisor: R. Panholzer)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

COMPUTER SCIENCE GROUP

THESES DIRECTED (cont'd)

R. H. Ekstrom and W. H. Reinhardt, "A Microprocessor-based Communications Information System," Master's Thesis, 1975. (Advisor: V. M. Powers).

T. J. Giardina, "An Interactive Graphics Approach to the Flight Deck Handling Problem," Master's Thesis, 1974. (Advisor: G. A. Rahe)

T. F. Green, "Software Error Detection Model," Master's Thesis, 1975. (Advisor: N. F. Schneidewind)

M. Harris, "A Prototype Ring Interface for the NPS Data Communication Ring," Master's Thesis, 1974. (Advisor: R. H. Brubaker)

J. A. Hawley, III and W. D. Meyer, "MUNIX, A Multiprocessing Version of UNIX," Master's Thesis, 1975. (Advisor: B. E. Allen)

R. C. Hilzer, "NANCEE: An Approach to Barrier Sonobuoy Pattern Optimization," Master's Thesis, 1974. (Advisor: D. E. Harrison, Jr.)

C. G. Honour, "A Computer Solution to the Daily Flight Schedule Problem," Master's Thesis, 1974. (Advisor: U. R. Kodres)

B. Janov and V. Johns, "All Application Digital Computer Operating System Design and Specification," Master's Thesis, 1974. (Advisor: G. L. Barksdale, Jr.)

A. K. Johnson and K. P. Woolley, "A Simulation of a Computer Graphics-Aided Aircraft Handling System," Master's Thesis, 1975. (Advisor: G. M. Raetz)

R. P. Johnson and J. H. Kirkham, "The System 360 Software Interface for the Naval Postgraduate School Computer Ring System," Master's Thesis, 1974. (Advisor: G. L. Barksdale, Jr.)

R. E. Joy, "Implementation of an Adaptive Scheduling Algorithm for the MUNIX Operating System," Master's Thesis, 1975. (Advisor: G. L. Barksdale, Jr.)

H. A. Jupin, "The Ballistics Processor a Multiple Processor, Airborne Tactical System," Master's Thesis, 1975. (Advisor: U. R. Kodres)

K. Killam, "A GPSS Simulation of a Demand Access Communication System," Master's Thesis, 1974. (Advisor: G. Howard)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

COMPUTER SCIENCE GROUP

THESES DIRECTED (cont'd)

T. C. Kral, "A Process Controller for a Hierarchial Process Structured Operating System," Master's Thesis, 1975. (Advisor: B. E. Allen)

D. Larson, "Computer Data Security," Master's Thesis, 1974. (Advisor: G. L. Barksdale)

T. P. B. Linhares, "Distributed Microcomputer Airborne Tactical System," Master's Thesis, 1975. (Advisor: U. R. Kodres)

N. Lukasczyk, "An Investigation of Selection Methods for a Simple Program Flow Analysis Algorithm," Master's Thesis, 1974. (Advisor: G. A. Kildall)

D. MacFarlane, "A Text Processing System," Master's Thesis, 1974. (Advisor: G. L. Barksdale)

M. T. Marsh, "Memory Management for Paged, Hierarchical Memory in a Multiprocessing Computer System," Master's Thesis, 1975. (Advisor: B. E. Allen)

J. S. Meserve and R. E. Stewart, "Implementation and Testing of the NPS Data Communication Ring," Master's Thesis, 1975. (Advisor: G. M. Raetz)

G. W. Montgomery, "System Test Methodology," Master's Thesis, 1975. (Advisor: N. F. Schneidewind)

J. P. Moore and D. B. Rainsberger, "The Design of a Celestial Navigation Microcomputer with Thoughts on an Integrated Information Distribution System," Master's Thesis, 1975. (Advisor: V. M. Powers)

D. W. Murray and L. J. Sims, "An Interactive Computer Model to Assist Marine Corps Enlisted Personnel Assignments," Master's Thesis, 1975. (Advisor: K. T. Marshall)

A. Pease, "A No-Drop Bomb Scoring System Using Microcomputers," Master's Thesis, 1974. (Advisor: U. R. Kodres)

L. R. B. Pedroso, "ML80: A Structured Machine Oriented Microcomputer Programming Language," Master's Thesis, 1975. (Advisor: G. A. Kildall)

J. P. Pennell, "An Investigation of the Use of Microcomputers to Aid the Pilot in the Solution of the Ballistics Problem," Master's Thesis, 1975. (Advisor: U. R. Kodres)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

COMPUTER SCIENCE GROUP

THESES DIRECTED (cont'd)

J. F. Renninger, "Reduction of AUTODIN/NIDN Line Disciplines to Programmed Control Logic," Master's Thesis, 1975. (Advisor: V. M. Powers)

L. N. Schofield, "Design Approach for a Computer Graphics System Application to Torpedo Tracking and Evaluation," Master's Thesis, 1975. (Advisor: V. M. Powers)

R. J. Simpson, "Remote Batch Entry System Utilizing Microcomputer and Television Display," Master's Thesis, 1974. (Advisor: R. H. Brubaker)

J. E. Tarver, "Feasibility Study for Establishing an Automated Data Base System for Naval Electronics Engineering Center, Vallejo," Master's Thesis, 1975. (Advisor: S. H. Parry)

L. A. Thorpe, "Implementation of an Interactive Graphics Display in a Multiprogramming Environment," Master's Thesis, 1976. (Advisor: G. M. Raetz)

V. Underwood, "An Investigation of the Parameters for Register Allocation During Compilation," Master's Thesis, 1974. (Advisor: G. A. Kildall)

R. Van Houten, R. P. Hansen and R. E. Sonnenberg, "A Design of a Personnel Training Information System for the U. S. Marine Corps," Master's Thesis, 1975. (Advisor: N. F. Schneidewind)

J. C. Winther and D. M. Kruse, "Virtualization of the PDP 11/50," Master's Thesis, 1975. (Advisor: B. E. Allen)

E. Wortmann, "Design and Implementation of a Ring Interface/Host Adapter for an IBM System 360," Master's Thesis, 1974. (Advisor: G. A. Kildall)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

CONFERENCE PROCEEDINGS

R. W. Burton, "The Crossed-Dipole Structure of Aircraft in an Electromagnetic Pulse Environment," paper presented and Proceedings of the International Conference on Electromagnetic Noise, Interference and Compatibility, AGARD, NATO, October 1974.

R. W. Burton and R. W. P. King, "Induced Currents in Single and Crossed Wires," paper read before the International Union of Radio Science Annual Meeting, Boulder, Colorado, October 1974.

S. G. Chan, "On Survivability Calculation of Probabilistic Communication Networks," Proceeding of the 16th Midwest Symposium on Circuit Theory, Waterloo, Canada, April 1973.

S. Jauregui, "Some Sigint Related Programs at the Naval Postgraduate School," presented at the NAVELEC PME-107 and EE Department, NPS, sponsored Signals Symposium, February 1974 at Naval Postgraduate School, Monterey.

S. Jauregui, "What is HULTEC?" presented at the NAVELEX PME-107 and EE Dept. NPS Sponsored HULTEC Symposium, June 1975 at NPS, Monterey.

D. E. Kirk, H. A. Titus, and G. Mitschang, "Locating with Fixed Sensor Having Observations of Signal Angle of Arrival and Doppler Shifted Frequency," Proceedings of the Sixth Symposium on Nonlinear Estimation Theory and Its Applications, 1975.

D. E. Kirk, and H. A. Titus, "Evaluation of Linear Estimators for Nonlinear Systems," Proceedings of the Ninth Asilomar Conference on Circuits, Systems and Computers, 1975.

J. B. Knorr, "Slot Line Transitions," Proceedings of Asilomar Conference on Circuits, Systems and Computers, 1973.

J. B. Knorr, "Hybrid Mode Analysis of Planar Lives," Proceedings of the Eighth Asilomar Conference on Circuits, Systems and Computers, 1974.

J. B. Knorr, "Coupler Design Using Dispersive Transmission Lives," Proceedings of the Eighth Asilomar Conference on Circuits, Systems and Computers, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

CONFERENCE PRESENTATIONS
(cont'd)

J. E. Ohlson, "Impulse Excitation of Dynamic Systems," IEEE International Symposium on Information Theory, 1973.

J. E. Ohlson and A. Rutherford, "Transient Characteristic of the First-Order Phase-Locked Loop Under Noise Excitation," Third International Symposium on Information Theory, Tallium, Estonia, USSR, June 1973. pp. 234-236 of Proceedings.

J. E. Ohlson, "Optimum Filtering and Detection in Impulse Noise," Seventh Hawaii International Conference on System Sciences, Honolulu, Hawaii, 1974, pp. 93-94 of Proceedings.

J. E. Ohlson, "On Double Loops in Carrier Synchronization," NATO Advanced Study Institute on New Directions in Signal Processing in Communication and Control, England, August 5-17, 1974.

J. E. Ohlson, "New Directions in Nonlinear Filtering," NATO Advanced Study Institute on New Directions in Signal Processing in Communications and Control, 1974.

S. R. Parker, "The Effects of Correlation and Structure on Quantization Noise in Digital Filters," Proceedings of the IEEE Arden House Workshop on Signal Processing, January 1974.

S. R. Parker, "Statistical Error Bounds Due to Finite Precision Arithmetic in Digital Filters," Proceedings of the 16th Midwest Symposium on Circuit Theory, 1973.

S. R. Parker, "Correlated Noise in Digital Filters," Proceedings of the IEEE Conference on Decision and Control.

T. F. Tao, "Proton Bombardment of PbTe and PbSnTe and Their Isochronal Annealing," Proceedings of IEEE Conference on Electron Device Techniques, May 1973.

T. F. Tao, "Study of PbSnTe Heterojunction Diodes," Proceedings of International Conference on the Physics of Semimetals and Narrow Gap Semi-Conductors, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

CONFERENCE PRESENTATIONS

(cont'd)

T. F. Tao, "Pb-Sn Chalcogenide Alloy Thin Film Photoconductive Detectors," Proceedings of Electro-Optical Systems Design, 1973.

T. F. Tao, "Feasibility Study of PbTe and PbSnTe Infrared Charge Coupled Imager," Proceedings of Charge Coupled Device Applications Conference, 1973.

T. F. Tao, V. Iamsaad, S. Holmes, B. B. Freund, L. Saetre and T. Zimmerman, "Sampled Analog CCD Recursive Comb Filters and Their Applications," paper presented at the 1975 International CCD Applications Conference and published in the Conference Proceedings, 1975.

T. F. Tao and S. Holmes, "Hardware Signal Processor Development--Session Summary," Proceedings of 9th Asilomar Conference on Circuits, Systems and Computers, 1975.

G. J. Thaler, "Identification of System Dynamics with Multiple Integrators," Proceedings of Princeton Conference on Information Sciences and Systems, March 1973.

G. J. Thaler, "Low Order Models for Dynamic Systems," Proceedings of Allerton Conference on Circuit and System Theory, October 1973.

G. J. Thaler, "Parameter Plane Methods for Linear Systems with Time Delay," Proceedings of Allerton Conference on Circuit and System Theory, October 1973.

G. J. Thaler, "Time Delay in Regulating Systems," Asilomar Conference on Circuits, Systems and Computers, 1973.

G. J. Thaler, "Design of Deadbeat Controllers with Polynomial Inputs," Proceedings of Princeton Conference on Information Sciences and Systems, March 1974.

G. J. Thaler, "Steady State Decoupling and Design of Linear Multivariable Systems," Milwaukee Symposium on Automatic Control, March 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

JOURNAL PUBLICATIONS

R. W. Burton, "On the Productivity of Collegiate Research," International Quarterly Journal on Improving College and University Teaching, 1973.

R. W. Burton, "Proximity Effects for Parallel Rectangular Conductors in Non-Transmission-Line Mode," IEEE Transactions on Antennas and Propagation, Vol. AP-21, No. 4 July, 1973.

R. W. Burton and R. W. P. King, "Induced Currents and Charges on Thin Cylinders in a Time-Varying Electromagnetic Field," IEEE Transactions on Electromagnetic Compatability, Vol. EMC-17, No. 3, pp. 149-55, 1975.

R. W. Burton and R. W. P. King, "Measured Currents and Charges on Thin Crossed Antennas in a Plane-Wave Field," IEEE Transactions on Antennas and Propagation, Vol. AP-23, No. 5, pp. 657-64, 1975.

A. R. Cannon, C. T. Stelzried and J. E. Ohlson, "Faraday Rotation Observations During the 1970 Pioneer 9 Solar Occultation," The Deep Space Network, Vol. XVI, TR 32-1526, 1973, pp. 87-93.

S. G. Chan and L. Phung, "Necessary and Sufficient Conditions for the Realizability of Biquadratic Functions," IEEE Transactions on Circuits and Systems, Vol. CAS-21, No. 2, pp. 197-98, 1974.

S. G. Chan, N. K. Bose and L. Phung, "Necessary and Sufficient Conditions for the Realizability of Biquadratic Functions," IEEE Transactions on Circuits and Systems, Vol. CAS-22, No. 2, pp. 154-5, 1975.

J. M. Geist, "Search Properties of Some Sequential Decoding Algorithms," IEEE Transactions on Information Theory, Vol. IT-19,1973.

D. E. Kirk, "Notes on Linear Programming," book review, Control Systems Society Newsletter, 1974.

J. B. Knorr, "End Effect in a Shorted Slot," IEEE Transactions on Microwave Theory and Techniques, Vol. MIT-21,1973.

J. B. Knorr, "The Effect of Surface Metal Adhesive on Slot Line Wavelength," IEEE Transactions on Microwave Theory and Techniques, Vol. MIT-21, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

JOURNAL PUBLICATIONS (cont'd)

J. B. Knorr, "Consequences of Symmetry in the Computation of Characteristic Modes for Conducting Bodies," IEEE Transactions on Antennas and Propagation, Vol. AP-21 1973.

J. B. Knorr, "Slot Line Transitions," IEEE Transactions on Microwave Theory and Techniques, Vol. MIT-22,1974.

J. B. Knorr, "Hybrid Mode Analysis of Planar Lines," Proceedings of the Eighth Asilomar Conference on Circuits, Systems, and Computers, 1974.

J. B. Knorr, "Coupler Design Using Dispersive Transmission Lines," Proceedings of the Eighth Asilomar Conference on Circuits, Systems, and Computers, 1974.

J. B. Knorr, "Analysis of Coupled Slots and Coplanar Strips," IEEE Transactions Microwave Theory Techniques, Vol. MTT-23, No. 7, pp. 541-48, 1975.

J. B. Knorr, "Spectral Domain Calculation of Microstrip Characteristic Impedance," IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-23, No. 9, p. 725-28, 1975.

J. E. Ohlson, "On Signal Fluctuations in Tracking Systems," IEEE Transactions on Aerospace and Electronic Systems, Vol. AES-9, No. 2, pp. 187-196, 1973.

J. E. Ohlson, "Phase-Locked-Loop Operation in the Presence of Impulsive and Gaussian Noise," IEEE Trans. on Comm., Vol. COM-21, No. 9, pp. 991-996, 1973.

J. E. Ohlson, "On the Optimum Radiometer," Radio Science Vol. 8, No. 10, pp. 841-844, 1973.

J. E. Ohlson and J. Swett, "Digital Radiometer Performance," IEEE Trans. on Aerospace and Electronic Systems, Vol. AES-9, No. 6, pp. 864-874, 1973.

J. E. Ohlson and A. Rutherford, "Transient Statistics of the First-Order Phase-Locked Loop," IEEE Trans. on Comm. Vol. COM-22, No. 5, pp. 698-703, 1974.

J. E. Ohlson, G. Levy and C. T. Stelzried, "A Tracking Polarimeter for Measuring Solar and Ionospheric Faraday Rotation of Signals from Deep Space Probes," IEEE Trans. on Inst. and Meas., Vol. IM-23, No. 2, pp. 167-177, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

JOURNAL PUBLICATIONS (cont'd)

J. E. Ohlson, "Polarization Tracking of a Partially Coherent Signal Using a Double Loop," IEEE Trans. Comm., Vol. COM-22, No. 9, 1975, pp. 859-866.

J. E. Ohlson, "A Correlation Polarimeter for Noise-Like Signals," IEEE Trans. Aero. and Elec. Syst., Vol. AES-12, No. 2, pp. 246-254, 1976.

J. E. Ohlson, "On Double-Loops in Carrier Synchronization," New Directions in Signal Processing in Communication and Control," edited by J. K. Skwirzynski, Noordhoff, Leyden, pp. 467-72, 1975.

J. E. Ohlson and W. F. Williams, "System for Interference Signal Nulling by Polarization Adjustment," U. S. Patent No. 3,883,872, May 13, 1975.

S. R. Parker and S. Yakowitz, "Computer of Bounds for Digital Filter Quantization Errors," IEEE Transaction on Circuit Theory, Vol. CT-20, 1973.

S. R. Parker, "Introduction to System Theory, S. W. Director and R. A. Rohrer, The McGraw-Hill Book Company," book review Circuits and Systems Society Newsletter, vol. 7, 1973.

John Powers and LT Robert D. Brown, Jr., "Investigation of Critical Angle Ultrasonic Phenomena by Bragg Diffraction of Laser Light," Journal of the Acoustical Society of America, 57 (2): 347-350, 1975.

V. M. Powers, "Pen Direction Sequences in Character Recognition," Pattern Recognition, Vol. 5 (1973).

T. F. Tao, "Photoconductivity in $Pb_{1-x}Sn_xTe$ Thin Films," Journal of Nonmetals, 2 (1973)

T. F. Tao, "Interband Magneto-Optical Studies in PbSnTe Alloys," Journal of Nonmetals, 1 (1973).

T. F. Tao, "Proton Bombardment and Isochronal Annealing of p type $Pb_{0.76}n_{0.24}Te$,"Journal of Applied Physics, 45 (1974).

G. J. Thaler, "Automatic Gain Control Systems," Trans. of AASRC, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

JOURNAL PUBLICATIONS, (cont'd)

G. J. Thaler, "Computer Determination of Low Order Models for High Order Systems," Computers and Electrical Engineering, Vol. 2, pp. 117-23, 1975.

C. J. Waylan and J. E. Ohlson, "Optimum Position Estimation Using Multiple-Frequency OMEGA," IEEE Trans. on Aero. and Elec. Syst., Vol. AES-11, No. 1, 1975.

C. J. Waylan and J. E. Ohlson, "Maximum-Likelihood Estimation in a Four-Frequency OMEGA Experiment," NAVIGATION: Journal of the Institute of Navigation, Vol. 22, No. 3, 1975.

S. J. Yakowitz, "On Sequential Search for the Maximum of an Unknown Function," Journal of Mathematical Analysis and Applications, Vol. 41, 1973.

S. J. Yakowitz, "A Stochastic Model for Daily River Flows in an Arid Region," Water Resources Research, Vol. 9, 1973.

S. J. Yakowitz, "Multiple Hypothesis Testing by Finite Memory Algorithms," The Annals of Statistics, Vol. 2, 1974.

TECHNICAL REPORTS AND NOTES

R. W. Burton, "The Crossed-Dipole Structure of Aircraft in an Electromagnetic Pulse Environment," Technical Rept. No. NPS-52Zn74091, 1974.

J. H. Duffin, "An Air Pollution Simulation Model to Study Effect of Navy Produced Air Pollutants From Naval Air Rework and Flight Operations Centers," a report to Naval Air Rework Facility, 1973.

J. H. Duffin, "A General Program to Digitally Record Jet Engine Test Cell Emission Instrumentation Output on Magnetic Discs, Read Discs Into a Wang 200B Computer and Use Data for Calculational-Reporting Purposes," a report to Naval Air Rework Facility, North Island, 1974.

J. H. Duffin, "The Navy Environmental Prediction Data Base Program," Research Note, Naval Research Review, 1974.

D. B. Hoisington, and C. E. Carroll, "Improved Sweep Waveform Generator for Bistatic Radar," NPS-52Hs72081, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

TECHNICAL REPORTS AND NOTES (cont'd)

D. E. Kirk, J. R. Ward and H. A. Titus, "Evaluation of State Estimators and Predictors for Fire Control Systems," NPS Technical Rept. NPS-52Ki74101.

G. A. Myers and J. Bilodeau, "Detection of Signals in Noise Using Single Channel Receivers," NPS-30Mv3081, 1975.

G. M. Myers and M. Wasuita, "An Analysis of the Response of Digital Demodulators to Frequency Shift Keyed Signals," NPS-52W75121, 1975.

G. M. Myers and R. Peltus, "Detectability of a Single Side-band Spread Spectrum Radio Signal," NPS-52P75121, 1975.

T. G. Price, "Balanced Computer Systems," Technical Report 88, Digital Systems Lab., Stanford University, 1974.

T. G. Price, "The Effect of the Central Processor Service Time Distribution on Processor Utilization in Multi-programmed Computer Systems," Technical Note 44, Digital Systems Lab., Stanford University, 1974.

T. G. Price, "Probability Models of Multiprogrammed Computer Systems," Ph.D. Dissertation, Stanford University, 1974.

D. A. Stentz, "A Chronological Study of the Measurement of the Optical Properties of Ocean Water and An Atlas of the Diffuse Attenuation Coefficient, k, of Tropical Atlantic Ocean Waters," Technical Rept. NPS-52Sz75061, 1975.

G. J. Thaler, "Steady State Decoupling and Design of Linear Multivariable Systems," NASA Rept. NGR 05-017-010.

G. J. Thaler and A. Gerba, "Automatic Control of Surface Effect Ships: A Study of Some Effects of Trade-Off Between Thrust Power and Fan Power," 1974.

G. J. Thaler and A. Gerba, "CAB Computer Studies: A Summary of Miscellaneous Information and Techniques," 1974.

G. J. Thaler and A. Gerba, "Sidewall Broaching Study for the 100-B CAB Craft Operating in Sea State 3," 1974.

H. Titus and C. Dittmar, "The Application of Extended Kalman Filtering to the Position Location Reporting System, 1975. NPS-52Ts75121.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

THESES DIRECTED

S. Alexander, "An Investigation of Phase-Front Distortion from a Complex Target," 1975. (Advisor: D. Hoisington)

D. O. Ayers, "Reliability of Computer Generated HFDF Bearing Returns for the AN/FRD-10," 1974.(Advisor: S. Jauregui.) CONFIDENTIAL

D. E. Bienlien, "A Frequency-Division Multiplex System for Use in Shipboard Internal Voice Communications," 1975. (Advisor: D. Hoisington)

N. Boudreaux, "Design Optimization of MIS Devices for Infrared Solid-State Imaging," 1974. (Advisor: T. F. Tao)

R. J. Bowman, "The Peculiarities of Submarine Communications," 1974. (SECRET) (Advisor: S. Jauregui.)

M. J. Duncan, "Design of a Repeater-Jammer Experiment for a Monopulse Radar," 1975. (Advisor: D. Hoisington)

D. C. East, "An Open-Ocean Electromagnetic Spectrum Scenario for the Evaluation of ESM Receiver Requirements on the Navy ES-3A (TASES) Aircraft," 1975. (SECRET) (Advisor: S. Jauregui)

R. A. Finley, "Refinements of the Seal Subroutines and Fan Air Flow Maps for the XR-3 Loads and Motions Program," 1974. (Advisor: A. Gerba)

G. T. Forbes, "Validation of the Nonlinear Six Degree of Freedom Mathematical Model of the XR-3 Captured Air Bubble Surface Effect Ship in Calm Water," 1974. (Advisor: A. Gerba)

P. D. Frazer, "The Electronic Warfare Application of Special Purpose Microprogrammed Minicomputers," 1974. (Advisor: S. Jauregui)

B. Freund, "Impremention of Comb Filters by Sampled Analog Techniques," 1975. (Advisor: T. F. Tao.)

C. Garret, "A Spread Spectrum Communication System," 1974. (Advisor: S. Jauregui)

U. S. Grant, "Study of Heave Acceleration/Velocity Control for the Surface Effect Ship," 1974. (Advisor: G. J. Thaler)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

THESES DIRECTED (cont'd)

V. Iamsaad, "Charge Coupled Devices for Analog Signal Processing," 1974. (Advisor: T. F. Tao)

J. E. Kirzl, C. J. Thomas, V. J. McCartney, "System Definition of the Sensor, Data Link, and Surface Terminal Requirements for the Tactical Airborne Signals Exploitations System, (TASES)," (SECRET) 1974. (Advisor: S. Jauregui)

E. Kislali, "IF Filter Optimization for CW/FM Radar," 1975. (Advisor: D. Hoisington)

R. Koehler, "Modelling UHF Antenna Coupling on Aircraft MSAE," 1975. (Advisor: R. W. Adler and S. Jauregui)

C. A. LaVarre, "Thermographic Imaging of Electromagnetic Fields," 1975 and also NPS Technical Report, No. NPS-52Zn75121. (Advisor: R. W. Burton).

E. J. McDowell, "Measurement of Current and Charge Distributions and Input Impedances of the Crossed-Dipole Transmitting Antenna," 1975 and NPS Technical Report, No. NPS-52Zn75031. (Advisor: R. W. Burton).

R. E. McWey, "Signal Processing and Characterization of the Audio Evoked Cortical Response," 1974. (Advisor: G. H. Marmont)

W. R. Mitchell, "Investigation to Optimize Captured Air Bubble Surface Effect Ship Digital Simulation for Irregular Sea Conditions," 1974. (Advisor: A. Gerba)

E. J. Ohlert, "A Study of Display Devices for Feedback of Meaningful Information to Electroencephalogram Subjects," 1975. (Advisor: G. H. Marmont)

J. Poliakon, "A Survey of Matched Filter and Correlation Devices with an Evaluation of Two Digital Correlators," 1975. (Advisor: T. F. Tao)

T. A. Reglein, "Feature Selection for the Identification of Bauded Signals," 1975. (Advisor: S. Jauregui)

R. Renzelman, "Study of Infrared Solid-State Imagers Using Charge Transport Devices with an Evaluation of Two Digital Correlators," 1974. (Advisor: T. F. Tao)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF ELECTRICAL ENGINEERING

THESES DIRECTED (cont'd)

J. C. Ross, "A Wideband RF Application of Fiber Optics," 1974. (Advisor: S. Jauregui)

R. C. Spencer, "Resonance of Electromagnetic Waves on Cross-Monopole Wire Structures," 1975. (Advisor: R. W. Burton)

R. D. Stanga, "Digital Simulation as an Approach to ESM Software Development," 1975. (Advisor: S. Jauregui)

W. E. Stockslager, "Computer Modeling of the Electroencephalogram," 1974. (Advisor: G. H. Marmont)

R. D. Stolt, "Wideband Analog Propagation in a Fiber Optic System," 1974. (Advisor: S. Jauregui)

E. R. Wicklander, "An Analysis of Electroencephalograms," 1975. (Advisor: G. H. Marmont).

BOOKS

R. D. Strum and J. R. Ward, Electric Circuits and Networks, Quantum Publishers, 1973.

G. J. Thaler, Automatic Control: Classical Linear Theory, Dowden, Hutchinson and Ross, 1974.

R. W. Burton, The Strategy of Electromagnetic Conflict, R. E. Fitts, Editor, United States Air Force Academy Press, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

JOURNAL PUBLICATIONS

C. Comstock and P. W. Dunne, "Second Order Equations with Two-Point and Integral Boundary Conditions," to appear in Journal of Mathematical Analysis Applications.

C. Comstock and L. P. Solomon, "Two-time Methods Applied to Underwater Acoustics," Journal of Acoustics Society of America, 54 (1973).

C. Comstock and R. W. Wilson, Professional Opportunities in Mathematics, Mathematical Association of America, 1974.

C. Comstock, "Singular Perturbations of the Wave Equation," Applicable Analysis 5 (1975) 117-123.

C. Comstock, G. C. Hsiao, "Singular Perturbations for Difference Equations," to appear in Rocky Mountain Journal of Math.

C. Comstock, J. G. Taylor, "Force Annihilation Conditions for Variable Coefficient Lanchester-Type Equations of Modern Warfare: I Mathematical Theory," submitted to Naval Research Logistics Quarterly.

C. Comstock, C. P. Chang, J. B. Tupaz, R. T. Williams, "Barotropic Instability in a Spacially Varying Mean Flow," to be submitted for publication.

C. Comstock, L. H. Sibul, "Stochastic Differential Equations and Their Application to Randomly Varying Control Systems," International Journal of Control.

C. Comstock, A. Zargary, J. E. Brock, "On the Delayed Hot Water Problem," Journal of Heat Transfer, 96 (1974) 166-171.

R. Franke, "On the Minimum Number of Points Required by Certain Cubature Formulas," Bulletin of the Calcutta Mathematical Society.

R. Franke, "Locally Determined Smooth Interpolation at Irregularly Spaced Points in Several Variables," Journal of the Institute for Math. and Its Applications.

R. Franke (with E. L. Bell), "A Numerical Comparison of Symmetric Toeplizt Equation Solving Algorithms," IEEE Transactions on Acoustics, Speech and Signal Processing.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

JOURNAL PUBLICATIONS
(cont'd)

R. Franke, "Numerical Solution of Large Sparse Systems of Algebraic and Implicitly Defined Stiff Differential Equations," in preparation.

R. Franke, "Minimal Point Cubatures of Precision Seven for Symmetric Planar Regions," SIAM Journal of Numerical Analysis, 10 (1973).

R. Franke, "On the Convergence of an Algorithm for Rational Chebyshev Approximation," Rocky Mountain Journal of Math.

H. B. Marks, "Minimum Storage Solution of Capacitated Rooted Trees," International Journal of Computer Science.

L. Moore, "On Extending the Computational Capacity of the Baseline Generator for Role Differentiation," submitted to American Sociological Review.

I. B. Russak, "Sufficient Conditions for Problems with State Inequality Constraints," AMS Notices.

I. B. Russak, "Second Order Necessary Conditions for Problems with State Inequality Constraints," SIAM Journal of Control, Vol. 13, No. 2 (1975), 17 pages.

I. B. Russak, "Second Order Necessary Condition for General Problems with State Inequality Constraints," Journal of Optimization Theory and Applications, Vol. 17, No. 1-2, (1975) 45 pages.

I. B. Russak, "Relations Among the Multipliers for Problems with Bounded State Constraints," accepted for publication, SIAM, Journal of Control.

I. B. Russak, "An Indirect Sufficiency Proof for Problems with Bounded State Variables," accepted for publication, Pacific Journal of Mathematics, 20 pages.

A. L. Schoenstadt, "On a New Stability Criterion," Bulletinul Institutuli Politechnic din Iasi, Tomul xx(xxiv), Fasc. 1-2, Sectia I, 1974, p. 73-77.

A. L. Schoenstadt, "The Binary Signature Model for Identification of Targets by Unattended Sensors," submitted to Military Operations Research Society (MORS).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

JOURNAL PUBLICATIONS
(cont'd)

A. L. Schoenstadt, "A Non-Linear Relay Model for Post-Stall Oscillations," AIAA Journal of Aircraft, Vol. 12, No. 7, July 1975, p. 572-577.

A. L. Schoenstadt and R. T. Williams, "The Computational Stability Properties of the Shuman Pressure Gradient Averaging Technique," to appear in Journal of Computational Physics.

A. M. Shorb, "Anode Phenomena in Collision-Dominated Plasmas," (with O. Biblarz and R. C. Dolson) submitted to Physics of Fluids, 1974.

A. M. Shorb, "The Condition Number of a Randomly Selected Square Matrix Increases with Dimension," submitted 1974.

A. M. Shorb, "Nonstandard Analysis and Independence in Set Theory," submitted to Journal of Symbolic Logic, 1975.

P. C. C. Wang, "A Statistical Procedure for Determining Battle Outcome Utilizing Semi-Markov Process," Proceedings of the 19th Conference of U. S. Army Mathematicians, (1973) pp. 961-971.

P. C. C. Wang and W. E. Bleick, "Asymptotic of Stirling Number of the 2nd Kind," Proceedings of American Mathematical Society, (1974) pp. 575-580.

P. C. C. Wang and H. Medwin, "A Stochastic Model for Sound Speed Fluctuation in the Upper Ocean Due to Bubbles," Quarterly of Applied Mathematics of the American Mathematical Society, Brown University, pp. 411-423 (1975).

P. C. C. Wang, "Variance Estimation for the Analysis of Stationary Radiated Noise," Notices of American Mathematical Society, 20 (1973).

P. C. C. Wang and W. E. Bleick, "Asymptotics of Stirling Numbers of the 2nd Kind," Notices of American Mathematical Society, 20 (1973).

P. C. C. Wang and H. Medwin, "Stochastic Models on the Scattering of Sound By Bubbles in the Upper Ocean," Notices of American Mathematical Society, 20 (1973).

P. C. C. Wang and W. E. Bleick, "Asymptotics of Stirling Numbers of the 2nd Kind," Proceedings of the American Mathematical Society, 48, p.518 (1975).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

JOURNAL PUBLICATIONS
(cont'd)

P. C. C. Wang, "Characterization of Poisson Distribution," Journal of Discrete Mathematics, 13 pp. 83-94 (1975).

P. C. C. Wang, "Overlapping Patterns in a Bernoulli Sequence," to appear in the Journal of Discrete Mathematics.

M. D. Weir, Hewitt-Nachbin Spaces, North-Holland Mathematics Studies, North-Holland Publishing Company, 1975, vii + 270 pages.

C. O. Wilde, "Characterization of Finite Amenable Transformation Semigroups," Vol. XV, Part 1 (1973), Journal of the Australian Mathematical Society.

C. O. Wilde and O. A. Hahs, "A Graduate Education Program for Operational ASW," United States Naval Institute Proceedings, (1973), Vol. 99.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

CONFERENCE PROCEEDINGS

F. Faulkner, "On Finding Solutions which Dominate Equilibrium Solutions to Some N-Person Differential Games," Proceedings of the Fourteenth Biennial Seminar of the Canadian Mathematical Congress, p. 155-168, Springer-Verlag, New York, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

TECHNICAL REPORTS AND NOTES

W. E. Bleick, "A Proposed Guidance System for a Cruise Missile Using TDOA Radio Beacons," NPS Technical Report, NPS-53B173071A, 1973.

C. Comstock, "A Study of Recent Numerical Methods for the Barotropic Primitive Equations," NPS Technical Report, No. NPS-53Cs76014, 1976.

C. Comstock, "Solving the Linear Balance Equation," NPS Technical Report, No. NPS-53Zk74061, 1974.

F. Faulkner and T. Rosmond, "Direct Solution of Elliptic Equations by Block Cyclic Reduction and Factoralization," EPRF Technical Note, No. 20, 1975.

F. Faulkner, "The Numerical Solution of the Helmholtz Equation on a Sphere," NPS Technical Report, No. NPS-53Fa76025, 1976.

R. Franke, "An Analysis of Algorithms for Hardware Evaluation of Elementary Functions," NPS Technical Report, No. NPS-53Fe73051A, 1973.

R. Franke, "Minimal Point Cubatures of Precision Seven for Symmetric Planar Regions, Revisited," NPS Technical Report, No. NPS-53Fe74071, 1974.

R. Franke, "On the Convergence of an Algorithm for Rational Chebyshev Approximation," NPS Technical Report, No. NPS-53Fe73111A, 1973.

R. Franke, "Some Methods for Approximating Functions of Several Variables," NPS Technical Report, No. NPS-53Fe74051, 1974.

R. Franke, "The Specification of Algorithms," NPS Technical Report, No. NPS-53Fe75071, 1975.

R. Franke, "Locally Determined Smooth Interpolation at Irregularly Spaced Points in Several Variables," NPS Technical Report, No. NPS-53Fe75041, 1975.

T. Jayachandran, "A Plan for Monitoring Reliability Growth for the Trident I (C-4) Program," 1974.

T. Jayachandran and W. M. Woods, "C-3 Reliability Program," Final Report, Task #55865, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

TECHNICAL REPORTS AND NOTES
(cont'd)

T. Jayachandran and L. R. Moore, III, "The Performance Characteristics of Some Reliability Growth Models," Technical Report, NPS-53Jy74122, 1974.

L. D. Kovach, "A Survey of Methods of Teaching Mathematics," NPS Technical Report, NPS-53Kv73121A, 1973.

I. B. Russak, "Continued Results Concerning the Improvements Realizable Through the Use of Variable Thrust Together with Engine Gimbaling for a Particular Interceptor Missile," NPS Technical Report, NPS-53Ru74091, 1974; and NPS-53Ru74061, 1974.

I. B. Russak, "Preliminary Results Concerning the Improvements Realizable Through the Use of Variable Thrust Together with Engine Gimbaling for a Particular Interceptor Missile," NPS Technical Report, NPS-53Ru73091A, 1973.

I. B. Russak, "Second Order Necessary Conditions for General Problems with State Inequality Constraints," NPS Technical Report, NPS-53Ru73062A, 1973.

A. L. Schoenstadt, R. T. Williams, L. L. Davidson, B. C. Stauffer and K. G. Dunning, "A Numerical Model for the Effect of Ocean Waves on the Adjacent Airflow," NPS Technical Report, NPS-53Zh75102, 1975.

A. L. Schoenstadt and R. T. Williams, "The Computational Stability Properties of the Shuman Pressure Gradient Averaging Technique," Technical Report, NPS-53Ah51Wu75091, 1975.

M. D. Weir, "Hewitt-Nachbin Spaces," Notas De Matematica, North-Holland Publishing Company.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MATHEMATICS

THESES DIRECTED

D. Hinsman, "Application of a Finite Element Method to the Barotropic Primitive Equations," Master's Thesis, 1975, Advisor: C. Comstock.

Chang Heup Choi, "Prediction Intervals for Correlated Samples," Master's Thesis, 1974, Advisor: T. Jayachandran.

Patrick A. Toffler, "An Investigation of the Relative Effectiveness of the Personalized System of Instruction At the Naval Postgraduate School," Master's Thesis, 1975, Advisor: M. D. Weir.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MECHANICAL ENGINEERING

CONFERENCE PRESENTATIONS

T. E. Cooper, R. S. Field, and J. F. Meyer, "Liquid Crystal Thermography and Its Application to the Study of Convective Heat Transfer," presented at the 15th National Heat Transfer Conference, San Francisco; published in the Journal of Heat Transfer, Vol. 97, Series C, No. 3 (1975).

G. R. Edwards, "A Plausible Explanation for Unusually Mechanical Effects in Zinc-Based Particulate Composites," presented at the ASM Symposium on Creep of Dispersion Strengthened Alloys, Detroit, Michigan, 1974.

G. R. Edwards (co-authored with and presented by J. Perkins), "Thermomechanical Characterization of Alloys Exhibiting Martensitic Thermoelasticity," presented at the International Symposium on Shape Memory Effects and Applications, Toronto, May 1975 and published in the Proceedings.

G. R. Edwards (co-authored with and presented by J. Perkins),"Martensitic Transformation Cycling Debris and Strain-Reversible Martensitic Deformation Effects (Shape Memory Effects) in Ni-Ti Alloys," ASM 1975 Materials Science Symposium, Cincinnati, Ohio, November 1975.

A. E. Fuhs and A. Roberts, "Analysis of Propulsion for Gun Launched Projectiles," 12th Joint Army Nasa Air Force (JANNAF). Propulsion Meeting 1975.

A. E. Fuhs, A. Roberts, H. L. Hodgkins, H. C. Fein, and P. J. Waltrup, "An Evaluation of Performance of External Burning Assisted Projectiles," (U), 11th JANNAF Combustion Meeting Proceedings, 1974. Paper is classified confidential. CPIA Publication 261, December 1974.

A. E. Fuhs, D. L. Bailey, and P. W. Tower, "Pollution Control of Airport Engine Test Facilities," PEP AGARD-NATO, Conference on Atmospheric Pollution by Aircraft Engines, AGARD CP-125, pp. 14-1 to 14-31, 1973.

CONFERENCE PRESENTATIONS

A. E. Fuhs, W. Smithey, M. Naber, G. Caswell, "An Open Jet Wind Tunnel for External Burning with Spinning Projectiles," AIAA Paper No. 73-1225, AIAA/SAE 9th Propulsion Conference, Las Vegas, Nevada, November 1973.

A. E. Fuhs, W. Smithey, M. Naber, and G. Caswell, "External Burning Assisted Projectile: Theory and Experiment," AIAA Paper No. 73-1193, AIAA/SAE 9th Propulsion Conference, Las Vegas, Nevada, November 1973.

A. E. Fuhs, "Diagnostics and Engine Condition Monitoring," Paper presented at Second Triservice Meeting on Engine Health Monitoring, November 14-15, 1973, Proceedings published by Naval Air Propulsion Test Center, Trenton New Jersey.

A. E. Fuhs, Gordon W. Margerum, John W. Leonard, "Fiber Optic and Laser Digital Pressure Transducers," Vol. 34, AIAA Progress Series in Aeronautics and Astronautics, Instrumentation for Airbreathing Propulsion, MIT Press, 1974, pp. 217-224.

A. E. Fuhs, W. Smithey, M. Naber, and G. Caswell, "External Burning Assisted Projectile - A Progress Report," 10th JANNAF Combustion Meeting, Newport, Rhode Island, August 1973, CPIA Publication 243, December 1973, pp. 193-206.

A. E. Fuhs and O. Biblarz, "Density Changes in a Laser Cavity Including Wall Reflections and Kinetics of Energy Release," AIAA Paper No. 73-141, 11th Aerospace Sciences Meeting, Washington, D. C., January 1973, AIAA Journal 12, pp. 1083-1089, 1974.

A. E. Fuhs and O. Biblarz, "Laser Internal Aerodynamics and Beam Quality," Society of Photographic and Instrumentation Engineers, Proceedings of 1973 Annual Meeting, Vol. 41, Developments in Laser Technology - II, SPIE, pp. 59-70.

A. E. Fuhs, "Introduction to Distortion Induced Engine Instability," AGARD LS 72, 1974, pp. 1-19.

C. J. Garrison, "Dynamic Response of Floating Bodies," presented at the Offshore Technology Conference, Houston, Texas, 1974, and published in the Proceedings, Paper Number O.T.C. 2137.

C. J. Garrison, "Wave Forces on Large Volume Structures -- a Comparison Between Theory and Model Test," Paper No. O.T.C. 2137, presented at the Offshore Technology Conference, Houston, Texas, 1974 and published in the Proceedings.

C. J. Garrison, "Numerical Solution of Free-Surface Flow Problems," Proceedings of the 10th Symposium on Naval Hydrodynamics, 1974.

C. J. Garrison, "Computation of Hydrodynamic Forces on Large Immersed and Semi-immersed Structures," Short course presentation, Structures in the Ocean - Fixed and Floating Structures of Steel and Concrete in Hostile Seas, Sept. 17-22, 1973, University of Cal, Berkeley, CA.

T. M. Houlihan, "Optical Propagation in the Marine Environment," presented at the 4th California Polytechnical Measurement Science Conference, Section 74-5, and published in the Proceedings, 1974.

CONFERENCE PRESENTATIONS

T. M. Houlihan, and K. L. Davidson, "Laser Propagation in the Marine Boundary Layer," presented at the annual meeting of Sea Systems Command, Hydro-Mechanics Advisory Committee (SEAHAC) Annual Meeting, Section 74-8, 1975, and published in the Proceedings.

M. D. Kelleher, "The Generation of Liquid Aerosols for the Visualization of Oscillatory Flows," with O. M. Griffin, S. E. Ramberg and C. W. Votaw, Proceedings of the 5th International Congress on Instrumentation in Aerospace Simulation Facilities (1973). (IEEE Publication 73CHO 784-9 AES).

M. D. Kelleher, R. J. Hansen, R. C. Little and M. M. Ruschman, "Stability and the Laminar-to-Turbulent Transition in Pipe Flows of Drag-Reducing Polymer Solutions," International Conference on Drag Reduction, Cambridge, England, 1974.

M. D. Kelleher, "Effects of Gravity on Gas-Loaded Variable Conductance Heat Pipes," to be read at the 2nd International Heat Pipe Conference, Bologna, Italy, 1976.

P. J. Marto, "Condensation Heat Transfer as Occurs in Rotating Heat Pipes and in Naval Condensers," to be read at the 2nd International Heat Pipe Conference, Bologna, Italy, 1976.

R. E. Newton and D. L. Atchison, "Response of a Ring-stiffened Cylinder to an Acoustic Blast Wave," to be read at the Second International Symposium on Finite Element Methods in Flow Problems, Rapallo, Italy, 1976.

D. H. Nguyen, "Transient Solutions of the Nonlinear Nuclear Reactor with Various Feedbacks," presented at Am. Nucl. Soc., (1974).

D. H. Nguyen, "Space-Time Solutions of Nonlinear Reactor Dynamics by Finite Element Method," presented at Am. Nucl. Soc., (1975).

D. H. Nguyen, "Space-Time Solutions of Multigroup Nonlinear Reactor Dynamics Equations by NRK Method," to be presented at the American Nuclear Society Annual Meeting, Toronto, Canada, June 1976.

R. H. Nunn and L. H. Smith, "Aerodynamic Characteristics of Axisymmetric Body Undergoing a Uniform Pitching Motion," presented at American Institute of Aeronautics and Astronautics (AIAA) 8th Fluid and Plasma Dynamics Conference, 1975, AIAA Paper number 75-838.

A. J. Perkins and G. R. Edwards, "Thermomechanical Characterization of Alloys Exhibiting Martensitic Thermoelasticity," presented at the International Symposium on Shape Memory Effects and Applications, Toronto, May 1975, and published in the Proceedings.

A. J. Perkins, "A Case History Approach to Teaching a Materials Engineering Service Course," presented at ASEE Materials Division Symposium on Courses in Materials Emphasizing Engineering, 1975 ASEE Annual Meeting, Colorado State University, July 1975.

CONFERENCE PRESENTATIONS

A. J. Perkins and G. R. Edwards, "Martensitic Transformation Cycling Debris and Strain-Reversible Martensitic Deformation Effects (Shape Memory Effects) in Ni-Ti Alloys," ASM 1975 Materials Science Symposium, Cincinnati, Ohio, Nov. 1975.

A. J. Perkins and G. R. Edwards, "Thermomechanical Characteristics Limiting the Mechanical Utility of Strain-Reversible Martensitic Deformation (Shape Memory Effects) in Ni-Ti Alloys," TMS-AIME 1976 Annual Meeting Las Vegas, Feb. 1976.

D. Salinas and D. H. Nguyen, "Finite Element Solutions of a Nuclinear Nuclear Reaction Dynamics Problem," Proceedings of the First International Conference on Computational Methods in Nonlinear Mechanics (1974).

D. Salinas, "Some Structural Problems in Gun Launched Rocket Motors," (co-authored with R. E. Ball) presented at JANNAF Meeting at NPS, February 1974.

D. Salinas, "The Finite Element Method," presented at the American Meteorological Society Meeting at NPS, Oct. 1973.

T. Sarpkaya, "Potential Flow of Curved Jet Deflectors," with G. Hiriart, Proceedings of Canadian Congress of Applied Mechanics, Montreal, 1973.

T. Sarpkaya, "On the Performance of Hydrofoils in Dilute Polyox Solutions," presented at the International Conference on Drag Reduction, University of Cambridge, published in The Proceedings of the British Hydromechanics Research Association (BHRA) 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MECHANICAL ENGINEERING

JOURNAL PUBLICATIONS

J. E. Brock, "An Integral Equation Describing Conjugate Transient Heat Transfer in Fluid Flow Through Insulated Pipes," (with A. Zargary) International Journal of Heat Mass Transfer, Vol. 16, (1973).

J. E. Brock, "Two Fundamental Points in Mechanics," International Journal of Mechanical Engineering Education, Vol. 2, No. 1, (1974).

J. E. Brock, "On the Delayed Hot Water Problem," with C. Comstock and A. Zargary, Journal of Heat Transfer, Vol. 96, Ser. C, No. 2, (1974).

J. E. Brock, "Analytic Treatment of Minimum Weight Design of Cantilevers," Journal of Applied Mechanics, Vol. 41, Ser. E, No. 2, (1974).

J. E. Brock, "Dunkerley-Mikhlin Estimates of Gravest Frequency of a Vibrating System," (in type), ASME Paper 76-APM-33, to appear in Journal of Applied Mechanics.

J. E. Brock, "Asymmetric Moment Loading of Annular Elastic Plates," (in type), to appear as "Design Data" in Journal of Applied Mechanics.

J. E. Brock, "Some Remarks on Plates and Shells," (in type), to appear in International Journal of Mechanical Engineering Education.

J. E. Brock, "The Inertia Tensor for a Spherical Triangle," Journal of Applied Mechanics, Vol. 42, Ser. E, No. 1, March 1975, P. 239, (Vol. 97 of Trans. ASME).

T. E. Cooper, "An Experimental Investigation of the Temperature Field Produced by a Cryosurgical Cannula," with W. K. Petrovic, submitted and accepted for publication in the ASME Journal of Heat Transfer.

T. E. Cooper, and R. G. Katz, "Liquid Crystal Display of the Temperature Fields produced by Radio-Frequency Emitting Electrodes," presented and published by the ACEMB.

G. R. Edwards, T. R. McNelley and O. D. Sherby, "High Temperature Texture Strengthening in Zinc," Scripta Metallurgica, 8, (1974), 475-480.

G. R. Edwards, with A. J. Perkins, "Review: Microstructural Control in Lead Alloys for Storage Battery Applications," Journal of Materials Science, 10 (1975), 136-158.

G. R. Edwards, with A. J. Perkins, C. R. Such, J. M. Johnson and R. P. Allen, "Thermomechanical Characteristics of Alloys Exhibiting Martensitic Thermoelasticity," in Shape Memory Effects in Alloys, New York, Plenum (1975), P. 273-304.

JOURNAL PUBLICATIONS

G. R. Edwards and A. J. Perkins, "Suggestions for Applying a Phenomenological Approach to Investigation of Mechanical Behavior in SME Alloys," in Shape Memory Effects in Alloys, New York, Plenum (1975), P. 445-450.

G. R. Edwards, A. J. Perkins and J. M. Johnson, "Characterizing the Shape Memory Effect Potential of Ni-Ti Alloys," Scripta Metallurgica, 9, (1975), P. 1167-1171.

G. R. Edwards, with I. C. Huseby, S. E. Hsu, T. R. McNelley, D. Francois, J. C. Shyne and O. D. Sherby, "Yield Points and Strain Aging in Hexagonal-Based Particulate Composites," Metallurgical Transactions, 6A, (1975), P. 2005-2008.

G. R. Edwards, T. R. McNelley and O. D. Sherby, "Diffusion-Controlled Deformation of Particulate Composites," Philosophical Magazine, 32, (1975), P. 1245-1264.

A. E. Fuhs, R. E. Ball, H. L. Power, "Fuel Tank Wall Response to Hydraulic Ram During the Shock Phase," J. of Aircraft, 10, P. 571-572, 1973.

A. E. Fuhs and O. Biblarz, "Density Changes in a Laser Cavity Including Wall Reflections and Kinetics of Energy Release," AIAA Paper No. 73-141, 11th Aerospace Sciences Meeting, Washington, D.C., January 1973, AIAA Journal, 12, P. 1083-1089, 1974.

A. E. Fuhs, O. Biblarz, J. K. Cawthra, and J. L. Campbell, "Experimental Verification of Density Inhomogeneity due to Lasing in a Gas Dynamic Laser," Applied Physics Letters, 24, 1 February 1974, P. 132-134.

A. E. Fuhs, O. Biblarz, and F. E. Carey, "Thermal Blooming in Supersonic Slewing," Bulletin of American Physical Society, 18, P. 1485, November 1973. Abstract only.

A. E. Fuhs, O. Biblarz, and H. W. Burden, "Thermal Blooming in Subsonic Slewing," Bulletin of American Physical Society, 18, P. 1490, November 1973. Abstract only.

A. E. Fuhs, "Wave Structure of Aircraft and Missile Exhausts," Journal of Aircraft, 1975, P. 689-690.

A. E. Fuhs, H. Burden, F. Carey, "An Exact Inverse Solution to Thermal Blooming in Transonic Slewing," Bulletin of American Physical Society, 19, (1974).

A. E. Fuhs, O. Biblarz, F. Carey and H. Burden, "Numerical Results for Thermal Blooming in Transonic Slewing," Bulletin of American Physical Society, 19, (1974).

A. E. Fuhs and W. Smithey, "External Burning Assisted Projectile," To appear in American Institute of Aeronautics and Astronautics (AIAA) Progress Series. (in press).

C. J. Garrison, "Hydrodynamics of Large Objects in the Sea - Part I: Hydrodynamic Analysis," Journal of Hydronautics, AIAA, Vol. 8, No. 1, (1974).

C. J. Garrison, "Nonlinear Wave Forces on Vertical Cylinders," Journal of Hydraulics Div., Proc. ASCE, Vol. 99, HY7, (1973).

JOURNAL PUBLICATIONS

C. J. Garrison, "Wave Forces on Pile Including Diffraction and Viscous Effects," Journal of Hydraulics Div., ASCE, Vol. 100, No. HY8, (1974).

C. J. Garrison, "Impulsive Hydrodynamics of Submerged Bodies," Journal of Engineering Mechanics Division, ASCE, Vol. 100, No. EM3, (1974).

C. J. Garrison, "Hydrodynamics of Large Objects in the Sea, Part II: Motion of Free-Floating Bodies," Journal of Hydronautics, 1975.

C. J. Garrison, F. H. Gehrman and B. T. Perkinson, "Wave Forces on Bottom-Mounted Large Diameter Cylinders," Journal of the Waterways, Harbors and Coastal Engineering Divisions, Vol. 101, No. WW4, Nov 1975.

C. J. Garrison, with V. S. Rao, "Interaction of a Train of Regular Waves with a Rigid Submerged Spheroid," Journal of Ship Research, SNAME, (in press).

P. J. Marto, "Laminar Film Condensation on the Inside of Slender, Rotating, Truncated Cones," Journal of Heat Transfer, 95, No. 2, (1973).

R. E. Newton, "Finite Element Analysis of Two-Dimensional Added Mass and Damping," in Finite Elements in Fluids, London, John Wiley & Sons, 1975.

R. E. Newton, "Degeneration of Brick-Type Isoparametric Elements," International Journal for Numerical Methods in Engineering, Vol. 7, (1974).

R. E. Newton, D. W. Chenault, III, and D. A. Smith, Jr., "Finite Element Solution for Added Mass and Damping," University of Alabama Huntsville Press, Huntsville, AL, 1974.

D. H. Nguyen, "Stability of Nuclear Reactors with Changes in Eigen Value," Nuclear Science Engineering, 50, (1973).

D. H. Nguyen, "The New Equilibrium State of a Perturbed Nuclear Reactor with Negative Feedback," Nuclear Science Engineering, 52, (1973).

D. H. Nguyen, "Stability Analysis of the Nonlinear Nuclear Reactor," International Journal of Control, 1974.

D. H. Nguyen, "Transient Solutions of the Nuclear Reactor with Various Feedback," Trans. American Nuclear Society, 18, (1974).

D. H. Nguyen, "The Time-Dependent Nuclear Reactor with Feedback," Nuclear Science & Engineering, 55, (1974).

D. H. Nguyen, with D. Salinas, "Finite-Element Solutions of a Nonlinear Nuclear Reactor Dynamics Problem," Proceedings of the International Conference on Computational Methods in Nonlinear Mechanics, Austin, Texas, 1974.

D. H. Nguyen, with D. Salinas, "Finite Element Solutions of Space-Time Nonlinear Reactor Dynamics," Nucl. Sci. Eng., to appear.

R. H. Nunn, "Jet Penetration at a Sonic Throat," with K. E. Frick, Journal of Spacecraft, 10, No. 12, (1973).

JOURNAL PUBLICATIONS

J. Perkins, "Lattice Transformations Related to Unique Mechanical Effects," presented at ASM Symposium on Phase Transformations in Less Common Metals; A Dialogue, Cleveland, Ohio, 1972, Metallurgical Transactions, 4, (1973), P. 2709-2721.

J. Perkins, "Morphology of Widmanstatten Precipitates at Early Stages of Development," Metallography, 6, (1973), P. 185-193.

J. Perkins, "Phonon Nucleation of Lattice Transformations in Solids," presented at Pittsburgh Diffraction Conference, 1972, published in Scripta Metallurgica, Vol. 8, (1974), P. 31-34.

J. Perkins, "Review: Microstructural Control in Lead Alloys for Storage Battery Application," with G. R. Edwards, Journal of Materials Science, 10, (1975), P. 136-158.

J. Perkins, Editor, "Shape Memory Effects in Alloys," (Proceedings, International Symposium on Shape Memory Effects and Applications, Toronto, 1975), Plenum, (1975).

J. Perkins, "The Nature of Martensite: Matrix Interfaces in Beta-Brass Alloys," The Philosophical Magazine 30, (1974), P. 379-388.

J. Perkins, "On Composite Crystallographic Transformations," Scripta Metallurgica, Vol. 8, (1974), P. 439-444.

J. Perkins, "Substructure of Cu-Zn-Al Martensite," Metallography, 7, (1974), P. 345-356.

J. Perkins, "Strain Triggering of Shear Transformations by the Stress Field of Unstable Lattice Vibration Modes," Scripta Metallurgica, 8, (1974), 9, P. 75-978.

J. Perkins, "Residual Stresses and the Origin of Reversible (Two-Way) Shape Memory Effects," Scripta Metallurgica, 8, (1974), P. 1469-1476.

J. Perkins, G. R. Edwards, C. R. Such, J. M. Johnson and R. R. Allen, "Thermomechanical Characterization of Alloys Exhibiting Martensitic Thermoelasticity," in Shape Memory Effects in Alloys, New York, Plenum, (1975), P. 273-304.

J. Perkins and G. R. Edwards, "Suggestions for Applying a Phenomenological Approach to Investigation of Mechanical Behavior in SME Alloys," in Shape Memory Effects in Alloys, New York, Plenum, (1975), P. 445-450.

J. Perkins and G. R. Edwards, "Characterizing the Shape Memory Effect Potential of Ni-Ti Alloys," Scripta Metallurgica, 9, (1975), P. 1167-1171.

J. Perkins and R. A. Bornholdt, "SEM Examination of Corrosion Product Morphology for Anodically Polarized Zinc," Metallography, 8, (1975), P. 401-409.

JOURNAL PUBLICATIONS

J. Perkins and R. A. Bornholdt, "Corrosion Product Morphology in Anodic Electrocrystalization of Zinc Oxide in Sea Water," Corrosion Science, (in press, 1976).

J. Perkins and J. M. Todd, "Corrosion of Zinc Anodes in Seawater," Naval Engineers Journal, (in press), (1976).

T. Sarpkaya, P. G. Rainey and R. E. Kell, "Flow of Dilute Ploymer Solutions About Circular Cylinders," Journal of Fluid Mechanics, 57, Part 1, (1973).

T. Sarpkaya, "A Pneumatic Vortes Angular Rate Sensor--Analysis and Experiments Automatics," Journal of the International Federation of Automatic Control, 9, No. 1, (1973).

T. Sarpkaya, "Lift and Drag Measurements on a Hydrofoil in Dilute Polyox Solutions Nature," (London) 241, (1973).

T. Sarpkaya, "On the Art of Advancing the Science of Fluidics," Journal of Dynamic Systems, Measurements and Control 95(G2), (1973).

T. Sarpkaya, "On a Stagnation Condition for Combining or Branching Inviscid Flows," Journal of Fluid Mechanics, 59(3), (1973).

T. Sarpkaya, "Effect of the Adverse Pressure Gradient on Vortex Breakdown," AIAA Journal, 12(5), (1974).

T. Sarpkaya, "On the Analysis of Target-Type Thrust Reversers," AIAA Journal, Vol. 13, No. 2, Feb 1975, P. 185-192.

T. Sarpkaya, "Wave Forces and Periodic Flow About Cylinders Proceedings of the 14th International Conference on Coastal Engineering," Copenhagen, Vol. 1, P. 271-274, (1974).

T. Sarpkaya, "Impingement on Axisymmetric Curved Deflectors Proceedings of the Finite Element Methods in Flow Problems," (Univ. of Alabama Press), Vol. 1, P. 153-157, (1974).

T. Sarpkaya, "On the Performance of Hydrofoils in Dilute Polyox Solutions Proceedings of the International Conference on Drag Reduction," Univ. of Cambridge, BHRA Press, Vol. 1, 1-13, (1974).

T. Sarpkaya, "An Inviscid Model of Two-Dimensional Vortex Shedding for Transient and Asymptotically Steady Separated Flow Over an Inclined Plate," Journal of Fluid Mechanics, Vol. 68, Mar 1975, 109-130.

T. Sarpkaya, "On the Stability of Developing Laminar Pipe Flow Subjected to Axisymmetric and Non-Axisymmetric Disturbances," Journal of Fluid Mechanics, Vol. 68, Mar 1975, P. 345-352.

JOURNAL PUBLICATIONS

T. Sarpkaya, "Forces on Cylinders and Spheres in a Sinusoidally Oscillating Fluid," Journal of Applied Mechanics of ASME, Vol. 42, Mar 1975, P. 32-37.

T. Sarpkaya, "Finite Element Analysis of Jet Impingement on Axisymmetric Curved Deflectors," Finite Elements in Fluids, Vol. 1, P. 265-279, John Wiley & Sons, (1975).

T. Sarpkaya, "Forces on Cylinders Near a Plane Boundary in a Sinusoidally Oscillating Fluid," Fluid Mechanics in Petroleum Engineering, Published by ASME, Dec 1975, P. 43-47.

T. Sarpkaya, "Vortex Shedding and Resistance in Harmonic Flow About Smooth and Rough Circular Cylinders," Proceedings of the International Conference on the Behavior of Offshore Structures, The Norwegian Institute of Technology, Trondheim, August 1976.

T. Sarpkaya, "In-Line and Transverse Forces on Cylinders in Harmonic Flow at High Reynolds Numbers," Proceedings of the 8th Offshore Technology Conference, Houston, Texas, Paper No. 2533, May 1976.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MECHANICAL ENGINEERING

TECHNICAL REPORTS AND NOTES

J. E. Brock, "Report of Vibrations of Main Steam Piping," Unit No. 3, Turkey Point Power Plant, Florida Light & Power Co., (Report to Bechtel Power Corp.) , 1973.

J. E. Brock, "The Centroid and Inertia Tensor for a Spherical Triangle," NPS-59Bc74111A, 1974.

J. E. Brock, "DM Approximations for the Gravest Frequency of a Vibrating System," TR NPS-59Bc7511, Naval Postgraduate School, November 1975.

J. E. Brock, "Dunkerley-Mikhlin Estimates of Gravest Frequency of a Vibrating System, TR NPS-59Bc75101, Naval Postgraduate School, October 1975.

T. E. Cooper, "A Technique for Measuring the Thermal Conductivity of Past High Explosive Materials," with R. C. Murray, UCID-16197 (1973).

T. E. Cooper, "An Analytical Model for Predicting the Daily Temperature Cycle of Container Stored Ordnance," with A. H. Wirzburger, NPS-59Cg73061A (1973).

T. E. Cooper, "NWL/NPS Study Group on Naval Gunnery," with R. H. Nunn and A. J. Perkins, NPS-59Nn74011B, 1974.

T. E. Cooper, "A Liquid Crystal Thermographic Study of a Heated Cylinder in Cross Flow," with R. J. Field and J. F. Meyer, NPS-59Cg74111.

G. R. Edwards, with J. Perkins and N. Hills, "Materials Approaches to Ship Silencing," NPS-59Ps74061 (1974).

G. R. Edwards, T. R. McNelley and O. D. Sherby, "Diffusion Controlled Deformation of Particulate Composites," Joint NPS/Stanford U. Technical Report ONR Contract No. N-00014-75C-0662, Aug. 1975.

T. M. Houlihan and D. B. Tyler, "Development of an Oil/Water Pollution Monitor," NPS-59Hm75071A, 1975.

M. D. Kelleher, "A Method to Predict the Thermal Performance of Printed Circuit Board Mounted Solid State Devices," NPS-59Kk75071A, 1975.

P. J. Marto, " The Thermal Performance of Air-Cooled Circuit Boards Used in Standard Electronic Package Designs," with M. D. Kelleher, NPS-59Mx74051, 1974.

R. H. Nunn, "NWL/NPS Study Group on Naval Gunnery," with C. F. Rowell, NPS-59Nn73101B, 1973.

TECHNICAL REPORTS AND NOTES

R. H. Nunn, T. E. Cooper and A. J. Perkins, "NWL/NPS Study Group on Naval Gunnery," NPS-59Nn74011B, 1974.

R. H. Nunn, "Dynamics of Liquid Propellant Handling Systems," NPS-59Nn 74101B, 1974.

R. H. Nunn and E. J. Gibson, "Dynamics of LPG Loading Systems," NPS-59Nn 75061A, 1975.

R. H. Nunn, F. L. Sheppard, J. K. Hartman, and M. D. Kelleher, "Thermo-economic Analysis of Vapor Power Systems," NPS-59Nn75062A.

R. H. Nunn and L. H. Smith, "Aerodynamic Characteristics of Axisymmetric Body in Uniform Pitching Motion," NPS-59Nn75021A, 1975.

J. Perkins, R. H. Nunn and T. E. Cooper, "NWL/NPS Study Group on Naval Gunnery," NPS-59Nn74011B, 1974.

J. Perkins, G. R. Edwards, and N. Hills, "Materials Approaches to Ship Silencing," Technical Report NPS59Ps74061, 1974.

D. Salinas, "Transient Axial Response of a Gun Launched Rocket Motor Case During Launch," co-authored with R. E. Ball, NPS-59Zc73011A, 1973.

D. Salinas and R. E. Ball, "Design Buckling Curves for Gun Launched Rockets," NPS-59Zc73081A, 1973.

D. Salinas and R. E. Ball, "Radial Pressure on a Gun Launched Motor Case Due to Slumping Propellant," NPS-59Zc74031, 1974.

T. Sarpkaya and O. Tuter, "Periodic Flow About Bluff Bodies, Part 1: Forces on Cylinders and Spheres in a Sinusoidally Oscillating Fluid," NPS-59S174091, 1974.

T. Sarpkaya, "An Analytical and Experimental Study of the In-line and Transverse Oscillations of a Circular Cylinder in Uniform Flow," NPS-59S175051.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF MECHANICAL ENGINEERING

THESES DIRECTED

H. L. Crego, "Fundamental Frequency by a 3D-FEM Procedure," Master's Thesis. Master's Thesis, 1975, Advisor: J. E. Brock.

S. Goktun, "The Drag and Lift Characteristics of a Cylinder Placed Near a Plane Surface," Master's Thesis, 1975, Advisor: T. E. Cooper.

C. H. Gnerlich, "The Convective Heat Transfer Behavior of a Heated Cylinder Located Near a Plane Surface," Master's Thesis, 1975, Advisor: T. E. Cooper.

E. Kosemen, "Thermal Studies of a Heated Cylinder Placed Near a Plane Surface," Master's Thesis, 1975, Advisor: T. E. Cooper.

J. M. Johnson, "Thermomechanical Characteristics of Nitinol," Master's Thesis, 1975, Advisor: G. R. Edwards.

F. L. Youngblood, "Characterizing and Controlling the Metallurgical Properties of a Cu-Mu Alloy for Ship Silencing Applications," Master's Thesis, 1975, Advisor: G. Edwards.

L. E. Rhine, "A Regenerative Carbon Dioxide Gas Dynamic Laser," Master's Thesis, 1975, Thesis Advisor: A. E. Fuhs.

D. R. Donoghue, "An Experimental Analysis of a Cylindrical Shock Wave for Use in a Cylindrical Gas Dynamic Laser," Master's Thesis, 1975, Thesis Advisor: A. E. Fuhs.

C. L. Peterson, "Flow Visualization Studies of the XFV-12A," Master's Thesis, 1975, Advisor: A. E. Fuhs.

J. E. Faltisco, "Oscillating Flow Past a Circular Cylinder," Master's Thesis, 1975, Advisor: C. J. Garrison.

J. B. Field, "Experimental Determination of Forces on an Oscillating Cylinder," Master's Thesis, 1975, Advisor: C. J. Garrison.

G. W. Smith, "Second-Order Wave/Body Interaction," Master's Thesis, 1975, Thesis Advisor: C. J. Garrison.

B. D. Tyler, "Development of an Oil-Water Pollution Monitoring System," Master's Thesis, 1975, Thesis Advisor: T. M. Houlihan.

J. P. Melanephy, "A Fluidic Control System for a Jet-Flap Airfoil," Master's Thesis, 1975, Thesis Advisor: T. M. Houlihan.

W. H. Batts, Jr., "Investigation of Gravitational Effects on a Variable Conductance Heat Pipe Utilizing Liquid Crystal Thermography," Master's Thesis, 1975, Thesis Advisor: M. D. Kelleher.

D. L. Flentie, "An Experimental Study of Taylor-Goertler Vortices in a Curved Rectangular Channel," Master's Thesis, 1975, Thesis Advisor: M. D. Kelleher.

L. V. Hiep, "The Influence of Drilled Cavities on Natural Convection Heat Transfer from a Horizontal Surface," Master's Thesis, 1975, Thesis Advisor: M. D. Kelleher.

T. P. Naydan, "Investigation of a Variable Conductance Heat Pipe," Master's Thesis, 1975, Thesis Advisor: M. D. Kelleher.

A. Penkitti, "The Influence of ARtificial Cavities on Natural Convective Heat Transfer from a Horizontal Surface," Master's Thesis, 1975, Thesis Advisor: M. D. Kelleher.

E. J. Gibson, "Experimental Investigation of the Fluid Dynamic Characteristics of Liquid Propellant Gun Loading Systems," Master's Thesis, 1975, Thesis Advisor: R. H. Nunn.

F. L. Sheppard, "Thermoeconomic Analysis of Environmental Vapor Power Systems," Master's Thesis, 1975, Thesis Advisor: R. H. Nunn.

L. H. Smith, "Aerodynamic Characteristics of an Axisymmetric Body Undergoing a Uniform Pitching Motion," Ph.D. Dissertation, 1975, Advisor: R. H. Nunn.

F. L. Youngblood, "Characterizing and Controlling the Metallurgical Properties of a Cu-Mn Alloy for Ship Silencing Applications," Master's Thesis, 1975, Thesis Advisor: A. J. Perkins.

R. R. Allen, "Transmission Electron Microscopic Studies of Shape Memory Structures in NiTi Alloys," Master's Thesis, 1975, Thesis Advisor: A. J. Perkins.

J. M. Todd, "Nucleation and Growth of Anodic Electrocrystallized Products on Ship Hull Zinc in Salt Water Solutions," Master's Thesis, 1975, Thesis Advisor: A. J. Perkins.

R. B. Bubeck, "Transient Thermal Stress Analysis of Composite Structures Including Continuously Varying Properties," Master's Thesis, 1975, Thesis Advisor: P. Pucci.

C. R. Santos Alves, "Stress Concentration in Fibrous Composite Material B," Master's Thesis, 1975, Thesis Advisor: D. Salinas.

R. A. Olsen, "Effective Methods for Solution of Nonlinear Reactor Dynamics Problems Using Finite Elements," Master's Thesis, 1975, Thesis Advisor: D. Salinas.

V. T. Tam, "Beams on Nonlinear Foundations," Master's Thesis, 1975, Thesis Advisor: D. Salinas.

S. Vudhivai, "Stress Concentration in Glass-Epoxy Composite Plates," Master's Thesis, 1975, Thesis Advisor: D. Salinas.

J. T. Fry, "Harmonic Motion of Cylinders in Uniform Flow," Master's Thesis, 1975, Thesis Advisor: T. Sarpkaya.

D. W. Meyers, "Transverse Oscillations of a Circular Cylinder in Uniform Flow," Master's Thesis, 1975, Thesis Advisor: T. Sarpkaya.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS

C. P. Chang, "Equational Boundary Layer and the Intertropical Convergence Zone." Paper presented at 8th Technical Conference on Hurricanes and Tropical Meteorology, Key Biscayne, May 14-17, 1973, Bulletin American Meteorology Society, Vol. 54 (1973).

C. P. Chang, "Effect of a CISK Parameterization on Tropical Wave Growth," with T. M. Piwowar. Paper Presented at Fall Annual Meeting, AGU, San Francisco, December 10-13, 1973, EOS, 54 (11)(1973).

C. P. Chang, "Equatorial Waves and ITCZ." Paper presented at Atmospheric and Oceanic Sciences Colloquim, University of Michigan, Ann Arbor, June 1974.

C. P. Chang and F. T. Jacobs, "A Diagnostic Model for Estimating Large-Scale Tropical Flow Patterns from Satellite Cloud Brightness." Paper presented before the Fall Annual Meeting of American Geophysical Union, San Francisco, December 1974. Abstract printed in Transactions, Vol. 56 (November 1974).

C. P. Chang, "Dynamics of Tropical Waves." Paper presented at Geophysical Fluid Dynamics Seminar, Yale University, New Haven, February 1975.

C. P. Chang, "Vertical Structure of Equatorial Waves Forced by Heating." Paper presented at 9th Technical Conference on Hurricanes and Tropical Meteorology, Miami, May 1975, Bulletin American Meteorology Society, 56 (1975).

C. P. Chang, "Spectrum Analysis of Easterly Waves in the Western Pacific During Two Contrasting Periods of Sea-Surface Temperature Anomalies." Paper presented at Fall Annual Meeting, AGU, San Francisco, December 1975, Transactions, 57 (1975).

C. P. Chang, "Barotropic Instability of a Spatially-Varying Mean Flow." Paper presented at Conference on Atmospheric and Oceanic Waves and Stability, Seattle, March 1976, Bulletin of American Meteorology Society, 57 (1976).

C. P. Chang, "Study of Planetary and Synoptic-Scale Waves of the Northern Summer Monsson." Paper presented at GARP Study Conference on Numerical Modeling of the Tropics, Exeter, U.K., April 1976.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

K. L. Davidson, "Describing Meteorological Conditions for Optical Propagation, Minutes - Meteorology Group, Range Commanders Council 35th Meeting," 1973.

K. L. Davidson and T. M. Houlihan, "Laser Propagation in the Marine Boundary Layer," Proceedings of the Ordnance Hydroballistics Activities Committee Meeting, 1973.

K. L. Davidson, "Turbulence Studies in Marine Boundary Layer," West Coast Small Scale Air-Sea Interaction Conference, San Francisco, October 21-22, 1974.

K. L. Davidson, "Small Scale Turbulence Properties in the Marine Boundary Layer," American Geophysical Union, Fall Annual Meeting, San Francisco, December 1974, Trans. Am. Geophysical Union, 55 (12)(1974).

K. L. Davidson, "A Numerical Model of Wind Wave Coupling," American Geophysical Union, Fall Annual Meeting, San Francisco, December 1974, Trans. Am. Geophysical Union, 55 (12)(1974).

K. L. Davidson, "Results from Overwater Turbulence and Propagation Studies," Technical Review, High Energy Laser Program (AMS-405), NOL, Washington, D. C. February 1975.

K. L. Davidson, "Shipboard Measurements of Small Scale Turbulence Properties," with T. Houlihan, International Congress on Instrumentation in Aerospace Simulation Facilities, Ottowa, Ontario, Canada, September 1975.

K. L. Davidson, "Estimating Optically Relevant Turbulence Parameters from Indirect Measurements," AFWL Electro-Optics Division Seminar, Kirtland AFB, New Mexico, August 1975.

K. L. Davidson, "Shipboard Measurements of Small Scale Turbulence Properties," with T. Houlihan, Fall Annual Meeting AGU, San Francisco, December 1975, Transactions of Am. Geophysical Union, 56 (1975).

K. L. Davidson, "Laser Propagation in the Marine Boundary Layer," with T. Houlihan, Annual Report, Naval Sea Systems Command Hydromechanics Advisors Committee (SEAHAC), 2 (Confidential) (February 1975).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

K. L. Davidson, "Shipboard Measurements of Small Scale Turbulence Properties," with T. Houlihan. Presented at the International in Aerospace Simulation Facilities, October 1975.

K. L. Davidson, "Turbulence Effects Upon Laser Propagation in the Marine Boundary Layer," with T. Houlihan. Presented in Proceedings of the Fourth Biennial Symposium on Turbulence in Liquids, October 1975.

K. L. Davidson, "Results on Optically Relevant Turbulence Properties in Marine Boundary Layer," with T. Houlihan. Presented in Proceedings, SPIE/SPSE Symposium, Reston, VA, March 1976.

R. L. Elsberry, "Development Experiments with a Simple Hurricane-Ocean Interaction Model," with N. A. S. Pearson and L. B. Corgnati, 8th Tech. Conf. on Hurricanes and Tropical Meteorology, Key Biscayne, Bull. Am. Meteorol. Soc., 54(2) (1973).

R. L. Elsberry, "Oceanic Thermal Response to a Stationary, Time-Dependent Hurricane Model," with T. S. Fraim, Annual Fall Meeting, AGU, San Francisco, December 1973.

R. L. Elsberry, "Typhoon and Tropical Storm Intensity Forecasts Using Statistical Regression Equations," with G. G. Coltrane and P. L. Krueger, Annual Meeting Meteorological Society, Honolulu, January 1974, Bull. Am. Met. Soc., 54(10) (1973).

R. L. Elsberry, W. M. Gray, and E. J. Harrison, Jr., "Simulation of Development of Mesoscale Convection Regions by Artificial Heat Sources," Proceedings of the International Tropical Meteorological Meeting, 1974.

R. L. Elsberry, "Numerical Simulation of Ocean Thermal Response to Hurricane Passage," with T. S. Fraim, R. N. Trapnell, Jr., and S. H. Grigsby, Ninth Technical Conference on Hurricanes and Tropical Meteorology, Bull. Amer. Meteor. Soc., 56(2) (1975).

R. L. Elsberry, "Vertical Heat Fluxes Associated with the Depending Mixed-Layer During the Cooling Season," with N. T. Camp, Second Conference on Ocean-Atmosphere Interactions, Bull. Amer. Meteor. Soc., 57(1) (1976).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

G. J. Haltiner, "Numerical Weather Prediction," with R. T. Williams. Presented at the 54th Annual Meeting, AMS, Honolulu, January 1974.

G. J. Haltiner, "A Variation Procedure for Obtaining Global Balance Winds." Presented at the World Meteorological Conference on Four-Dimensional Data Assimilations, Paris, France, November 1975.

R. L. Haney, "A Numerical Investigation of the Long-Term Transient Behavior in a Coupled Atmosphere Ocean Model," with W. R. Lambertson and R. T. Williams. Presented at the 2nd Conference on Numerical Prediction, American Meteorology Society, 54(7) (1973).

R. L. Haney, "The Energy Transformations in a Numerical Ocean Circulation Model." Presented at the AI 2nd Conference on Numerical Prediction, American Meteorological Society, Monterey, CA, Bulletin Am. Meteorological Society, 54(7) (1973).

R. L. Haney, "Numerical Simulation of the Coupled North Pacific Ocean-Atmosphere System." Presented at NORPAX Co-Principal Investigators Meeting, Fleet Numerical Weather Central, Monterey, August 19-21, 1974.

R. L. Haney, "The Energy Transformations in a Numerical Simulation of Oceanic Mesoscale Eddies." Presented at MODE Scientific Council Meeting, University of Rhode Island, August 26-28, 1974.

R. L. Haney, "Modeling the Oceanic Wind Mixed Layer." Presented at the Fall Annual Meeting of the AGU, San Francisco, December 12-18, 1974 and published in Trans. AGU, 55 (1974).

R. L. Haney, "Model Improvements and Plans for Initial Value Predictions." Presented at NORPAX Co-Principal Investigators Meeting, Scripps Institution of Oceanography, La Jolla, California, March 19-20, 1975.

R. L. Haney, "The Relationship Between the Evolution of a Sea Surface Temperature Anamaly and Its Vertical Structure." Presented at NORPAX Co-Principal Investigators Meeting, University of California Conference Center, Lake Arrowhead, California, October 29-31, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

R. L. Haney, "Preliminary Experiments in the Numerical Prediction of Large-Scale Sea Surface Temperature Anamolies." Presented at the Fall Annual Meeting of the AGU, San Francisco, December 8-12, 1975 and published in Trans. AGU, 56 (1975).

F. L. Martin, "Development of Model Atmospheres for Aerothermodynamic Calculations," with C. F. Markarian. Presented at the 19th Annual Technical Meeting, Institute of Environmental Sciences, Mt. Prospect and published in the Proceedings, 1973.

R. J. Renard, "Further Testing and Evaluation of the Navy's MOHATT Scheme for Forecasting the Motion of Tropical Cyclones," with J. F. Wilson, D. A. Woxland, and S. K. Rinard. Presented at the 8th Technical Conference on Hurricanes and Tropical Meteorology, Key Biscayne and published in Bull. Am. Meteorol. Soc., 54(2) (1973).

R. J. Renard, "Objective Predictions of the Motion of Eastern North Pacific Tropical Cyclones." Presented at the Annual Meeting, Mexican Geophysical Union, Ensenada, CA, 29 May - 3 June 1973.

R. J. Renard, "Research in Synoptic-Scale Analysis and Forecasting of Marine Fog at the Naval Postgraduate School." Presented at the 2nd Annual Conference on Marine Fog, Naval Postgraduate School, Monterey, January 1974.

R. J. Renard, "Marine Fog Frequencies." Presented at the Climatology Conference and Workshop of the American Meteorological Society, Asheville, N.C., October and Abstract published in Bull. Am. Meteorol. Soc., 55(7) (1974).

R. J. Renard, "Proposed Navy-Related Weather Operations and Research for the United States' Scientific Mission in Antarctica." Presented by the National Science Foundation, Polar Meteorology Workshop, Reno, Nevada, May and published in the Proceedings, 1975.

R. J. Renard, "Recommendations for Antarctic and Arctic Areas," with W. Schwerdtfeger. Presented by the National Science Foundation, Polar Meteorology Workshop, Reno, Nevada and published in the Proceedings, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

R. J. Renard, "Evaluation of the 1973-74 EPANALOG Tropical Cyclone Forecasts for the Northeastern Pacific Ocean Area," with J. D. Jarrell and S. K. Rinard. Presented at the 9th Technical Conference on Hurricanes and Tropical Meteorology, Miami, Florida and published in Bull. Am. Meteorol. Soc., Abstract, 56(2) (1975).

R. J. Renard, "Climatological Marine-Fog Frequencies from a Synthesis of the Elements of the Visibility-Weather Group in Random-Ship Synoptic Reports." Presented at the 3rd Annual Conference on Physics of Marine Fog, Naval Electronics Lab Center, San Diego, CA, Program Summary, January 1975.

R. J. Renard, "A New Look at the Climatological Frequencies of Marine Fog." Presented at the 9th Annual Congress of the Canadian Meteorological Society, University of British Columbia, Vancouver, B.C. and published in an Abstract: Atmos., 13 (1975).

R. J. Renard, "A Computerized Model for the Objective Analysis of Atmospheric and Ocean Fronts." Presented at the Office of Naval Research Workshop on Oceanic Fronts, University of Washington Conference Center at Lake Wilderness, Wash., Program Summary, November 1975.

R. J. Renard, "Marine-Fog Diagnosis and Climatology from Synoptic Weather Reports and Weather Satellite Observations Over the North Pacific Ocean." Presented at the 4th Conference on Marine Fog, Lab of Atmos. Phy., Desert Research Institute, Reno, Nevada, Program Summary, January 1976.

R. J. Renard, "A New Approach to the Determination of Climatological Marine-Fog Frequencies with Application to the Summer Fog Season of the North Pacific Area," with G. R. Willms. Presented at the 2nd Conference, Am. Meteor. Soc. on Ocean-Atmosphere Interactions, Seattle, Washington and published in Bull. Am. Meteor. Soc., 57(1) (1976).

C. L. Taylor and R. J. McClur, "The Relationship of Temperature Inversions to Marine Advection Fog." Paper presented at the Third Annual Conference of the Physics of Marine Fog, 1975, and published as Technical Report NPS51Mc74091.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

M. S. Tracton and T. Klopfenstein, "Evaluation of the Fleet Numerical Weather Central Operational Primitive Equation Model in Forecasting Extratropical Cyclogenesis." Paper presented at the Fifth Conference in Weather Forecasting and Analysis, 1974.

R. T. Williams, "A Numerical Investigation of the Long-Term Transient Behavior in a Coupled Atmosphere Ocean Model," with W. R. Lambertson and R. L. Haney. Paper presented at the 2nd Conference on Numerical Prediction, American Meteorological Society, Monterey, CA and published in Bull. Am. Meteorol. Soc., 54(7) (1973).

R. T. Williams, "Numerical Simulation of Steady-State Fronts." Paper presented at the 2nd Conference on Numerical Prediction, American Meteorological Society, Monterey and published in Bull. Am. Meteorol. Soc., 54(7) (1973).

R. T. Williams, "Effect of Horizontal Wind Shear on CISK," with T. G. Robertson. Paper presented at the Fall Annual Meeting, AGU, San Francisco and published in EOS, 54(11) (December 1973).

R. T. Williams, "Numerical Weather Prediction," with G. J. Haltiner. Paper presented at the 54th Annual Meeting, AMS, Honolulu, Jaunary 1974.

R. T. Williams, "Simulation of Atmospheric Fronts Using Flux-Corrected Transport," with L. A. Baker, D. L. Book and S. A. Piacsek. Paper presented at Spring Annual Meeting, Am. Geophysical Union, Washington and published in Trans., AGU, 55(4) (1974).

R. T. Williams, "Formation of Hydraulic Jumps in a Rotating Stratified Atmosphere," with R. P. Kurth. Paper presented at the Fall Annual Meeting, Am. Geophysical Union, San Francisco and published in Trans., AGU, 55(12) (1974).

R. T. Williams, "A Numerical Model of Wind Wave Coupling," with A. L. Schoenstadt and others. Paper presented at the Fall Annual Meeting, Am. Geophysical Union, San Francisco and published in Trans., AGU 55(12) (December 1974).

R. T. Williams, "Computational Stability Properties of the Shuman Pressure Gradient Averaging Technique," with A. L. Schoenstadt. Paper presented at the Fall Annual Meeting, Am. Geophysical Union, San Francisco and published in Trans., AGU, 56(12) (December 1975).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

CONFERENCE PRESENTATIONS (CONT)

R. T. Williams, "The Inclusion of Moisture in a Numerical Model of Steady State Fronts," with C. J. Cornelius, Jr. and D. F. Glevy. Paper presented at the Fall Annual Meeting, Am. Geophysical Union, San Francisco and published in Trans., AGU, 56(12) (December 1975).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

JOURNAL PUBLICATIONS

C. P. Chang, "A Dynamic Model of the Intertropical Convergence Zone," Journal of Atmospheric Science, 1973.

C. P. Chang, "On the Depth of the Equatorial Planetary Boundary Layer," Journal of Atmospheric Science, 1973.

C. P. Chang, "A Note on the Laterally Faced Wave Motion in the Tropics," Journal of Meteorology, Society of Japan, 1974.

C. P. Chang and T. M. Piwowar, "Effect of a CISK Parameterization on the Tropical Wave Growth," Journal of Atmospheric Science, 1974.

C. P. Chang and R. T. Williams, "On the Short Wave Cutoff of CISK," Journal of Atmospheric Science, 1974.

C. P. Chang, F. T. Jacobs and B. B. Edwards, "A Diagnostic Model for Estimating Large-Scale Flow Patterns in the Tropical Upper Troposphere from Satellite Cloud Brightness Data," Monthly Weather Review, Vol. 103 (June 1975).

C. P. Chang, "Vertical Structure of Equatorial Wave Forced by Heating." Paper presented before the Ninth Technical Conference on Hurricane and Tropical Meteorology, Miami, May 1975. Abstract, Bulletin of the American Meteorological Society, Vol. 56, No. 2 (February 1975).

C. P. Chang, "Vertical Structure of Waves Maintained by Internally-Induced Cumulus Heating," Journal of Atmospheric Science, 33 (1976).

C. P. Chang, "Forcing of Stratospheric Kelvin Waves by Tropospheric Heat Sources," Journal of Atmospheric Science, 33 (1976).

C. P. Chang, "A Case of Cross-Equatorial Displacement of a Vortex," with E. Maas, Jr., Monthly Weather Review, 104 (1976).

K. L. Davidson, "Descriptions for Wind Profiles and Wind Fluctuation (gust) Statistics Over Ocean Waves," Handbook for Offshore Planning, Marine Technology Society, 1973.

K. L. Davidson and A. J. Frank, "Wave-related Fluctuations in the Airflow Above Natural Waves," Journal of Physical Oceanography, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

JOURNAL PUBLICATIONS (CONT)

K. L. Davidson, "Shipboard Measurements of Small Scale Turbulence Properties," Meeting on Optical Propagation Through Turbulence, WG3-1 - WG4-3 (1974).

K. L. Davidson, "Observational Results on the Influence of Stability and Wind-Wave Coupling on Momentum Transfer and Turbulent Fluctuations Over Ocean Waves," Boundary-Layer Meteorology, 1974.

K. L. Davidson and T. M. Houlihan, "Signal Lamps of the Future." To be published, Office of Naval Research Review, 1974.

K. L. Davidson and T. M. Houlihan, "Laser Transmissions in the Marine Environment." To be published, Naval Engineers Journal, 1974.

K. L. Davidson, L. B. Corgnati, Jr., and N. A. S. Peerson, "A Quasi-Empirical Model of the Hurricane Boundary Layer," Journal of Geophysical Research, Vol. 79, No. 21 (1974).

K. L. Davidson and J. M. McCollough, "Experiments in Initialization of a Global P. E. Model." To be published, Journal of Applied Meteorology, 1975.

K. L. Davidson, "Descriptions for Wind Profiles and Wind Fluctuation (gust) Statistics Over Ocean Waves," Handbook for Offshore Port Planning, Marine Technology Society, September 1974.

K. L. Davidson and T. Houlihan, "Laser Propagation in the Marine Boundary Layer," Proceedings of the Ordnance Hydroballistics Activities Committee Meeting," Newport, R. I., October 1974.

K. L. Davidson and T. Houlihan, "Signal Lamps of the Future." Accepted for publication in Office of Naval Research Review.

K. L. Davidson and T. Houlihan, "Laser Transmission in the Marine Environment." Accepted for publication in Naval Engineers Journal.

K. L. Davidson and R. Stricker, "Temporal Variations and Spectral Properties of Wind and Temperature Near the Surface Over the Tropical Ocean," Boundary-Layer-Meteorology (accepted for publication).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

JOURNAL PUBLICATIONS (CONT)

K. L. Davidson and E. Crittenden, "Laser Transmission in the Marine Environment," Naval Research Reviews, February 1976.

R. L. Elsberry, "Simulation of Development of Mesoscale Convection Regions by Artificial Heat Source," with E. J. Harrison and W. M. Gray. Presented at the International Tropical Meteorology Meeting, Nairobi, Preprint Volume, Part I, American Meteorological Society, 1974.

R. L. Elsberry, "A Quasi-Empirical Model of the Hurricane Boundary Layer," with N. A. S. Pearson and L. B. Corgnati, Journal of Geophysical Research, 79(21) (1974).

R. L. Elsberry, G. G. Coltrane and P. L. Krueger, "Stastical Forecasts of 24, 48 and 72 H Typhoon and Tropical Storm Intensity Changes," Journal of Applied Meteorology, 14(4) (1975).

R. L. Elsberry, "A Mixed-layer Model fo the Oceanic Thermal Response to Hurricanes," with T. S. Fraim and R. N. Trapnell, Jr., Journal of Geophysical Research, 81(6) (1976).

G. J. Haltiner and J. M. McCollough, "Experiments in the Initialization of a Global Primitive Equation Model," Journal of Applied Meteorology, September 1975.

G. J. Haltiner and R. T. Williams, "Some Recent Advances in Numerical Weather Prediction," Monthly Weather Review, 103 (1975).

G. J. Haltiner, Y. K. Sasaki and E. H. Barker, "A Variational Procedure for Obtaining Global Balanced Winds," Proceedings of the JOC Study Group Conference on Four Dimensional Data Assimilation, Paris, 11 (1976).

R. L. Haney, "A Numerical Study of the Response of an Idealized Ocean to Large-Scale Surface Heat and Momentum Flux," Journal of Physical Oceanography, Vol. 4, No. 2 (1974).

R. L. Haney and others, "A Numerical Experiment With Steady Forcing and Simplified Geometry," MODE Hot Line News, No. 57, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

JOURNAL PUBLICATIONS (CONT)

R. L. Haney and J. M. Wright, Jr., "The Relationship Between the Grid Size and the Coefficient of Nonlinear Lateral Eddy Viscosity in Numerical Ocean Circulation Models," Journal of Computational Physics, October 1975.

R. L. Haney, "The Role of Surface Mixing in the Seasonal Variation of the Ocean Thermal Structure," with R. W. Davies, Journal of Phys. Ocean., 6 (1976).

R. J. Renard and others, "Forecasting the Motion of North Atlantic Tropical Cyclones by the Objective MOHATT Scheme," Monthly Weather Review, Vol. 101, No. 3 (1973).

R. J. Renard and others, "Analogue Forecasting of East Pacific Tropical Cyclones." To be published, Monthly Weather Review, 1974.

R. J. Renard, J. J. Jarrell and C. J. Mauck, "Forecasting Tropical Cyclone Motion Over the Northeastern Pacific Ocean by an Analog Scheme," Monthly Weather Review, 101 (August 1975).

M. S. Tracton, "The Role of Cumulus Convection in the Development of Extratropical Cyclones," Monthly Weather Review, 101 (1973).

R. T. Williams and others, "Radiative Instability of a Cloudy Planetary Atmosphere," Icarus, 19 (1973).

R. T. Williams and C. P. Chang, "On the Short-Wave Cutoff of CISK," Journal of Atmospheric Science, 31(3) (1974).

R. T. Williams, "Numerical Simulation of Steady State Fronts," Journal of Atmospheric Science, 1974.

R. T. Williams, "Some Recent Advances in Numerical Weather Prediction," with G. J. Haltiner, Monthly Weather Review, 103(7) (1975).

R. T. Williams and R. P. Kurth, "Formation of Discontinuities in a Stratified, Rotating Atmosphere." Accepted by the Journal of Geophysical Research, 1975.

R. T. Williams and A. L. Schoenstadt, "The Computationed Stability Properties of the Shuman Pressure Gradient Averaging Technique," Journal of Comp. Phys. (1976).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

TECHNICAL REPORTS AND NOTES

C. P. Chang, "Application of Satellite Cloud Brightness Data for Large-Scale Tropical Analysis: A Correlation Study of Brightness and 200mb Divergence," Technical Report NPS51Cj74081, 1974.

C. P. Chang, A. Schoenstadt, T. Williams, and others, "A Numerical Model for the Effect of Ocean Waves on the Adjacent Airflow," Technical Report NPS53Zh75102, October 1975.

R. L. Elsberry, G. G. Coltrane and P. L. Kruger, Jr., "Typhoon and Tropical Storm Intensity Forecasts for 24, 48 and 72 Hours Using Statistical Regression Equations," Environmental Research Facility Technical Note No. 15, March 1974.

R. L. Elsberry, N. A. S. Pearson and L. B. Corgnati, "A Quasi-Empirical Model of the Hurricane Boundary Layer," Technical Report NPS51Es74011A, 1974.

R. L. Elsberry, "Feasbility of an Operational Tropical Cyclone Prediction Model for the Western North Pacific Area," Technical Report NPS51Es75051, 1975.

R. L. Elsberry and R. T. Schnoor, "Monthly Heat Budget Calculations for the Eastern North Pacific Ocean Using Synoptic Scale Data," Technical Report NPS51Es75061.

G. J. Haltiner and R. T. Williams, "Recent Advances in Numerical Weather Prediction," Technical Report NPS51HaWu74081, 1974.

F. L. Martin, "Development of Regional Extreme Model Atmospheres for Aerothermodynamic Calculations (II)," Technical Report NPS51Mr73071A, 1973.

F. L. Martin, "Oceanic Extreme Model Atmospheres for Aerothermodynamic Calculations (III)," Technical Report NPS51Mr-74091A, 1974.

F. L. Martin, "A Mathematical Description of a Technique for the Retrieval of Atmospheric Temperature Profiles from Reported Clear-Column (CO_2) Radiances Associated with BTPR Scan Spots," Technical Report, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

TECHNICAL REPORTS AND NOTES (CONT)

F. L. Martin, "Description of a Two-Cloud Radiative Model Applicable to the FNWC, Primitive Equation Forecast System," Technical Report, 1975.

F. L. Martin, "Extrapolation from Raw to Clear-Column Radiances Using VTPR Scan-Spot Arrays," Technical Report, 1975.

R. J. Renard, "The Use of Meteorological Satellites for Discerning Marine Fog," with R. T. Wallace, Technical Report NPS51Wa75031.

R. J. Renard and T. Harding, "Tropical Cyclone Steering Trajectories (HATRACK and MOHATT), Naval Weather Service Numerical Environmental Products Manual, NAVAIR 50-IG-522, Naval Weather Service Command, June 1975.

R. J. Renard, J. J. Jarrell, and C. J. Mauck, III, "The Navy's Analog Scheme for Forecasting Tropical Cyclone Motion Over the Northeastern Pacific Ocean," Environmental Prediction Research Facility Technical Paper, No. 6-75, April 1975.

R. J. Renard, "Climatology Aspects of the Analysis and Prediction of Fog," Technical Report to Naval Air Systems Command.

R. J. Renard, R. E. Englebretson and J. S. Daughenbaugh, "Climatological Marine-Fog Frequencies Derived from a Synthesis of the Visibility-Weather Group Elements of the Transient-Ship Synoptic Reports," Technical Report NPS51-Rd75041 (presented for NASC 70C), April 1975.

R. J. Renard, "A Coevaluation of FNWC's Fog Probability Forecasts and the NPS Marine-Fog Climatology for the North Pacific Fog Regions in Summer," Technical Report NPS51Rd-75081, August 1975.

R. J. Renard, "Use of the NOAA-2 Digitized Satellite Data for Diagnosing Marine Fog in the North Pacific Ocean Area," with R. E. Hale, Technical Report NPS51Hl75091, 1975.

C. L. Taylor and R. J. McClure, "The Relationship of Temperature Inversions to Marine Advection Fog," Technical Report NPS51Mc74091, and presented at Third Conference of the Physics of Marine Fog, San Diego, CA, January 1975.

R. T. Williams, "Numerical Simulation of Steady-State Fronts," Technical Report NPS51Wu73081A, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

TECHNICAL REPORTS AND NOTES (CONT)

R. T. Williams and G. J. Haltiner, "Recent Advances in Numerical Weather Prediction," Technical Report NPS51-HaWu74081, 1974.

R. T. Williams and A. V. Monaco, "An Atmospheric Global Prediction Model Using a Modified Arakawa Differencing Scheme," Technical Report NPS51Wu75041, 1975.

R. T. Williams, C. J. Cornelius, Jr. and D. F. Glevy, "The Inclusion of Moisture in a Numerical Model of Steady-State Fronts," Technical Report NPS51Wu75051, 1975.

R. T. Williams and R. P. Kurth, "Formation of Discontinuities in a Stratified, Rotating Atmosphere," Technical Report NPS51Wu75031, 1975.

R. T. Williams and A. L. Schoenstadt, "The Computational Stability Properties of the Shuman Pressure Gradient Averaging Technique," Technical Report NPS53Zh51Wu75091, 1975.

R. T. Williams and others, "A Numerical Model for the Effect of Ocean Waves on the Adjacent Airflow," Technical Report NPS53Zh75102, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF METEOROLOGY

MASTER'S THESES

H. M. Dyck, "Test and Evaluation of a VTPR Retrieval System from Clear-Column NOAA-2 Radiances," Master's Thesis, 1975, (Advisor: F. L. Martin).

W. T. Spaeth, "Heat Budget Paramaterization for the FNWC Primitive Equation Model Using Data for 15 July 1974," Master's Thesis, March 1975, (Advisor: F. L. Martin).

W. T. Myers, "Heat Budget Parameterization for the FNWC Primitive Equation Model Using Data for 15 July 1974," Master's Thesis, September 1975, (Advisor: F. L. Martin).

W. T. Myers, "Heat Budget Parameterization for the FNWC Primitive Equation Model Using Data for 15 April 1974," Master's Thesis, September 1975, (Advisor: F. L. Martin).

T. W. Beahan, "Heat Budget Parameterization for the FNWC Primitive Equation Model, Using Data for 15 July 1974," Master's Thesis, September 1975, (Advisor: F. L. Martin).

C. J. Mauck, III, "Forecasting Northeastern Pacific Tropical Cyclone Tracks Using an Analog Scheme," Master's Thesis, September 1974, (Advisors: R. J. Renard and J. J. Jarrell).

R. E. Englebretson, "A Synthesis of the Elements of Random-Ship Synoptic Report to Derive Climatological Marine-Fog Frequencies," Master's Thesis, September 1974, (Advisor: R. J. Ranard).

J. S. Daughenbaugh, "Further Development and Application of the Naval Postgraduate School's Program for Deriving Marine-Fog Frequencies," Master's Thesis, March 1975, (Advisor: R. J. Renard).

R. T. Wallace and R. J. Renard, "The Use of Meteorological Satellites for Discerning Marine Fog," Master's Thesis and Technical Report NPS51Wa75031, March 1975, (Advisor: R. J. Renard).

D. E. Maher, "Experiments with a 5-Level Primitive Equation Atmospheric Model Using Analytically Determined Fields," Master's Thesis, 1974, (Advisor: R. T. Williams).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF NATIONAL SECURITY AFFAIRS
(FORMERLY DEPARTMENT OF GOVERNMENT & HUMANITIES)

CONFERENCE PRESENTATIONS

R. H. Stolfi, chaired a panel on Arms Transfers at the annual meeting of the International Studies Association in Washington, D. C., 21-22 February 1975.

R. H. Stolfi, presented a paper, "Influence Over the Use of Violence Gained Through Arms Transfer to Developing States," before the annual meeting of the American Political Science Association, September 1975.

TECHNICAL REPORTS AND NOTES

R. H. Stolfi, Director of Defense Research and Engineering, Weapons Technology Coordinating Paper, Vol. VIII, Subject Area Document, "Eurasian Communist Countries and Free World Weapons Technology," (Secret), 1973.

R. H. Stolfi, "SEAL Team Combat Operations in Vietnam," in preparation.

R. H. Stolfi, Consultant and Contributor to "Final Report of the Army Materiel Command Committee - Armament," 1974. (Modified and approved for public release well after the date noted above.)

R. H. Stolfi, Consultant and Contributor to "Weapons System Evaluation Group, Report on the War in the Middle East," 1974.

R. S. Stolfi, Consultant and Contributor to "Report of the Task Force on Gun System Acquisition," Defense Science Board, Office of the Director of Defense Research & Engineering, 1975.

THESES DIRECTED

R. De Mont and T. White, "Analysis of the Combat Empirical Tank Damage Data of the October 1973 War," Master's Thesis, 1974, (Advisor: R. H. Stolfi).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

JOURNAL PUBLICATIONS

R. S. Andrews and O. B. Wilson, Jr., "Measurement of Visco-elastic Properties of Sediments Using a Torsionally Vibrating Probe," Physics of Sound in Marine Sediments, (L. Hampton, ed.) Plenum Press, N.Y., 1974.

R. H. Bourke and J. G. Pattullo, "Seasonal Variation of the Water Mass Along the Oregon-Northern California Coast," Limnology and Oceanography, 19(2), (1974).

E. C. Haderlie, "Growth Rates, Depth Preference and Ecological Succession of Some Sessile Marine Invertebrates in Monterey Harbor," The Veliger, 17 (Supplement), 1974.

E. C. Haderlie, J. C. Mellor, C. S. Minter, III, and G. C. Booth, "The Sublittoral Benthic Fauna and Flora off Del Monte Beach, Monterey, CA," The Veliger, 17(2), 1974.

E. C. Haderlie and J. C. Mellor, "Settlement, Depth Preference and Growth Rates of Bankia Setacea (Tryon) in Monterey Bay," The Veliger 15(4), 1973.

E. C. Haderlie, "Fouling Communities in the Intertidal Zone on Wooden and Concrete Pilings at Monterey, CA," has been accepted for inclusion in the 4th International Congress on Marine Foulding and Corrosion to be held in France in June 1976 and will be published as part of the Proceedings.

E. C. Haderlie, "Phylum Platyhelminthes," in Light's Manual: Intertidal Invertebrates of the Central California Coast, 3rd Edition, R. I. Smith and J. T. Carlson, editors, V. C. Press, 1975.

E. C. Haderlie, "Phylum Nemertes (Rhynchocolla)," In Light's Manual: Intertidal Invertebrates of the Central California Coast, 3rd edition, R. I. Smith and J. T. Carlson, editors, V. C. Press, 1975.

E. C. Haderlie, "Wood Boring Marine Animals from the Gulf of Eilat," Israel Journal of Zoology (23: 57-59), 1974.

R. G. Paquette and R. H. Bourke, "Observations on the Coastal Current of Arctic Alaska," Journal of Marine Research 32(2), 1974.

E. B. Thornton and R. L. Krahpohl, "Water Particle Velocities Measured Under Ocean Waves," Journal of Geophysical Research, Vol. 79, No. 6, 1974, pp. 847-852.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

JOURNAL PUBLICATIONS (Cont'd.)

E. B. Thornton and R. J. Calhoun, "Closure to Spectral Resolution of Breakwater Reflected Waves," Journal of Waterways, Harbors and Coastal Engineering, ASCE, WW2, 1974.

E. D. Traganza and R. P. Stewart, "Seasonal Volume Reverberation Model of the North Atlantic and North Pacific Oceans," Journal Underwater Acoustics, 23(3), 1973.

E. D. Traganza, J. C. Radney and K. J. Graham, "A Convenient High Temperature Dry Combustion Thermal Conductivity Instrument for the Determination of Carbon in Marine Zooplankton," Marine Chemistry, 1975.

S. P. Tucker, "Spectral Radiance Meter," Exposure, 1(3), 1973.

S. P. Tucker, "Underwater Optical Target," Exposure, 3(3), 1975.

J. B. Wickham, "Observations of the California Countercurrent," Journal of Marine Research, 33(2), 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

CONFERENCE PROCEEDINGS

R. S. Andrews and E. W. Shaar, Jr., "Mineralogy of Selected World Soil Samples and Implications as to Abrasion and Corrosion Potential of Soil on Military Ordnance," Proceedings of the 11th National Conference on Environmental Effects on Aircraft and Propulsion Systems, Naval Air Propulsion Test Center, New Jersey, 1974.

R. H. Bourke and L. M. Thorne, "The Role of Heat Exchange and Thermal Advection on Sea-Surface Temperature Change at OWS NOVEMBER," presented at annual fall meeting of the American Geophysical Union, 1974. Abstract published in Transactions, American Geophysical Union, 1975.

E. C. Haderlie, "Destructive Marine Wood and Stone Borers in Monterey Bay," presented at the Third International Biodegradation Symposium, Kingston, R.I., 1975; published in the Proceedings.

D. F. Leipper, "Some Features of the California Coastal Atmosphere," Proceedings Coastal Zone Management and the Western States Future, Marine Technology Society, Los Angeles Region Section, Newport Beach, CA, 1973.

D. F. Leipper, "Oceanography, The Navy and People," Proceedings, Marine Technology Society 9th Annual Conference, 1973.

R. G. Paquette, R. H. Bourke, and W. R. Corse, "The Source of Temperature Mesostructure in the Ocean Near the Arctic Ice Margin," presented at the fall annual meeting of the American Geophysical Union, San Francisco, 1974. Abstract published in Transaction, American Geophysical Union, Vol. 56 (1975).

W. C. Thompson and R. C. Smith, Jr., "Wave Groups in Ocean Swell," Proceedings, International Symposium on Ocean Wave Measurement and Analysis, New Orleans, LA, 1974.

W. C. Thompson, "Period by the Wave-Group Method," Proceedings of the 13th Coastal Engineering Conference, American Society of Civil Engineers, 1972, Vancouver, B.C. Canada, Chap. 55, (1973).

E. B. Thornton, "Distribution of Sediment Transport Across the Surf Zone," Proceedings of the 13th Coastal Engineering Conference, American Society of Civil Engineers, 1972, Vancouver, B.C. Canada, Chap. 55, (1973).

E. B. Thornton and L. S. Romer, "Comparison of Hydraulic and Numerical Tidal Models," Proceedings of the Symposium on Modeling Technqiues, American Society of Civil Engineers. 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

CONFERENCE PROCEEDINGS (Cont'd)

E. D. Traganza and K. J. Graham, "ATP in Marine Zooplankton," ATP Methodology Conference, San Diego, CA. Abstract printed by Science Application Incorporated Technology Company, San Diego, CA, 1975.

E. D. Traganza and J. C. Radney, "Biochemical Relationships of Secondary Biomass and Dissolved Inorganic Nutrients," Proceedings of the American Geophysical Union, Annual Meeting, San Francisco, 1975.

J. B. Wickham, "Structure of the California Counterflows," paper presented at the fall annual meeting, American Geophysical Union, San Francisco, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

THESES DIRECTED

G. L. Austin, "Some Interrelationships of West Coast Fog and Synoptic Scale Meteorological Parameters: A Limited Statistical Study," Master's Thesis, 1974. Advisor: G. H. Jung.

D. E. Baugh, "RNA/DNA Ratios in the Estimation of Growth Stages of Oceanic Zooplankton Populations," 1974, Master's Thesis. Advisor: E. D. Traganza.

R. E. Blumberg, "Mesoscale Spatial and Temporal Variations of Water Mass Characteristics in the California Current Region Off Monterey Bay in 1973-1974," Master's Thesis, 1975. Advisor: J. B. Wickham.

J. G. Bodie, "Formation and Development of Beach Cusps on Del Monte Beach, Monterey, California," Master's Thesis, 1974. Advisor: R. H. Bourke and R. S. Andrews.

J. W. Bonnett, "Analysis of the Lindquist Ocean Wave Follower," Master's Thesis, 1975. Advisor: N. E. J. Boston.

R. L. Brown, "Geostrophic Circulation Off the Coast of Central California," Master's Thesis, 1974. Advisor: R. H. Bourke.

F. L. Bub, "Surf Zone Wave Kinematics," Master's Thesis, 1974. Advisor: E. B. Thornton.

D. Buchanan, "Ocean Hydroclimate: Its Influence on Climate," Master's Thesis, 1974. Advisor: D. F. Leipper.

C. J. Cox, "Increasing the At-Sea Operational Applicability of Oceanographic Research Reports," Master's Thesis, 1973. Advisor: D. F. Leipper and R. L. Bechlemayr.

W. R. Corse, "An Oceanographic Investigation of Mesostructure Near Arctic Ice Margins," Master's Thesis, 1974. Advisor: R. G. Paquette.

A. J. Compton, "A Study of the Bioluminescence of a Deep Scattering Layer Organisms (Euphausia Pacifica) in Monterey Bay, California," Master's Thesis, 1974. Advisor: S. P. Tucker and C. R. Dunlap, III.

L. F. Diddlemeyer, "The Distribution of Suspended Particulate Matter off the California Coast from San Francisco Bay to Cape San Martin," Master's Thesis, 1975. Advisor: S. P. Tucker.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

THESES DIRECTED (Cont'd)

W. Donat, III, "Subtidal Cement Piling Fauna in Monterey Harbor, California," Master's Thesis, 1975. Advisor: E. C. Haderlie.

W. P. Donnelly, Jr., "Bathymetric Interference of Long Range Low Frequency Sound Propagation," Master's Thesis, 1975. Advisor: R. H. Bourke.

L. R. Elliott, "An Investigation of Various Parameters Which May Affect the Mixed Layer Depth in the Ocean," Master's Thesis, 1973. Advisor: G. H. Jung.

K. E. Evans, "Two Methods for the Numerical Calculation of Acoustic Normal Modes in the Ocean," Master's Thesis, 1973. Advisor: G. H. Jung.

L. A. Ferraz, "Tidal and Current Prediction for the Amazon's North Channel Using a Hydrodynamical-Numerical Model," Master's Thesis, 1975. Advisor: S. P. Tucker.

T. J. Fitzgerald, "Comparison of Fleet Numerical Weather Central Acoustic Prediction System with the Integrated Carrier Acoustic Prediction System (ICAPS)," Master's Thesis, 1974. Advisor: R. H. Bourke & C. K. Roberts.

D. D. Frydenlund, "Structural Geology of the Continental Margin Off Point Ano Neuvo, California," Master's Thesis, 1974. Advisor: J. J. von Schwind & R. S. Andrews.

J. J. Galvin, "Kinematics of Surf Zone Breaking Waves: Measurement and Analysis," Master's Thesis, 1975. Advisor: E. B. Thornton.

R. E. Greer, "Mesoscale Components of the Geostrophic Flow and Its Temporal and Spatial Variability in the California Current off Monterey Bay in 1973-1974," Master's Thesis, 1975. Advisor: J. B. Wickham.

T. D. Greeson, "Mass, Salt, and Heat Transport Across 40°N Latitude in the Atlantic Ocean Based on IGY Data and Dynamic Height Calculations," Master's Thesis, 1974. Advisor: G. H. Jung.

S. H. Grigsby, "The Response of a Two-Layer Hydrothermodynamic Ocean Model to a Simulated Moving Hurricane," Master's Thesis, 1975. Advisor: D. F. Leipper

J. B. Hagen, "Acoustic Fluctuations Due to Shallow Water Thermal Microstructure," Master's Thesis, 1974. Advisor: E. B. Thornton.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

THESES DIRECTED (Cont'd)

J. S. Hamlin, Jr., "Structure of the Upper Monterey Submarine Fan Valley," Master's Thesis, 1974. Advisor: R.S.Andrews and J. J. von Schwind.

J. E. Hollister, "Currents in Monterey Submarine Canyon," Master's Thesis, 1975. Advisor: R. S. Andrews and R. G. Paquette.

M. L. Hooks, "Submersible Oriented Platform for Deep Ocean Sediment Stidoes (SOPDOSS)," Master's Thesis, 1974. Advisor: R. S. Andrews and R. W. Prowell.

J. G. Hughes, "The Spatial and Temporal Variation of Sound Speed in the California Current System off Monterey, California," Master's Thesis, 1975. Advisor: J. B. Wickham.

J. G. Hughes, "The Statistics of Sound Speed Variations Near the Boundary of the California Countercurrent," Master's Thesis, 1975. Advisor: J. B. Wickham.

H. K. Jones, "The Effect of a Plane Boundary on Wave-Induced Forces Acting on a Submerged Cylinder," Master's Thesis, 1975. Advisor: E. B. Thornton and T. Sarpkaya.

L. K. Kane, II, "Measurement and Analysis of Temporal Variations of Salinity in Shallow Water," Master's Thesis, 1974. Advisor: N. E. J. Boston and E. B. Thornton.

A. E. Karrer, "The Descriptive and Dynamic Oceanography of the Mesostructure Near Arctic Ice Margins," Master's Thesis, 1975. Advisor: R. G. Paquette.

J. L. Keithly, "A Study of the Benthic Algae in the Kelp Bed Off Del Monte Beach, Monterey, California," Master's Thesis, 1974. Advisor: E. C. Haderlie.

M. T. Korbet, "Shallow Water Acoustic Amplitude Fluctuations at 35 and 65 KHz," Master's Thesis, 1974. Advisor: W. W. Denner.

S. B. Kramer, "Measurement of Viscoelastic Properties of Some Recent Marine Sediments by a Torsionally Oscillating Cylinder Method," Master's Thesis, 1973. Advisor: R. S. Andrews.

S. E. Larson, "A Statistical Verification of a Ten Year Series of Computed Surface Wind Conditions Over the North Pacific and North Atlantic Oceans," Master's Thesis, 1974. Advisor: G. H. Jung.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

THESES DIRECTED (Cont'd)

L. A. Mahaffy, Jr., "Investigation of the Statistics of Ocean Current Speeds," Master's Thesis, 1974. Advisor: R. G. Paquette.

K. A. Mahumed, "Apparent Surface Currents Over the Monterey Submarine Canyon Measured by the Method of Towed Electrodes," Master's Thesis, 1973. Advisor: R. G. Paquette.

J. C. Minard, "A Study of the Effect of Internal Wave Induced Turbulence on Small Scale Temperature Structure in Shallow Water," Master's Thesis, 1973. Advisors: N. E. J. Boston and E. B. Thornton.

F. Misciasci, Jr., "Fog Occurrence and Forecasting at Two North Pacific Ocean Stations, May and June, 1953," Master's Thesis, 1974. Also, Technical Report NPS-58Mi74101. Advisor: D. F. Leipper.

G. K. Nifontoff, "Analysis of Wave-Induced Errors in Turbulent Flux Measurements," Master's Thesis, 1975. Advisor: E. B. Thornton.

R. T. Pearson, "A Computer Simulation Model of Seasonal Variations in Ocean Production for a Region of Upwelling," Master's Thesis, 1974. Advisor: E. D. Traganza.

T. W. Perkins, "Accuracy Requirements of Environmental Parameters in an Active Sonar Performance Model," Master's Thesis, 1974. Advisor: R. H. Bourke and L. R. Bechelmayr.

C. A. Peterson, "Examples of a West Coast Fog Sequence," Master's Thesis, 1974. Also, Technical Report NPS-58Lr75091. Advisor: D. F. Leipper.

B. W. Platz, Jr., "A Comparison of Satellite Images Capable of Detecting Ocean Surface Features," Master's Thesis, 1975. Advisor: J. B. Wickham and E. B. Thornton.

J. W. Powell, "An Investigation of Surface and Internal Wave-Induced Turbulence in Shallow Water Thermal Microstructure," Master's Thesis, 1974. Advisor: E. B. Thornton.

K. M. Rabe, "Spectral Analysis of the Energy Exchange at OWS NOVEMBER," Master's Thesis, 1975. Advisor: R. H. Bourke.

J. C. Radney, "Measurement of Zooplankton Biomass by Carbon Analysis for Application in Sound Scattering Models," Master's Thesis, 1974. Advisor: E. D. Traganza.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

THESES DIRECTED (Cont'd)

J. A. Reise, "A Drift Bottle Study of the Southern Monterey Bay," Master's Thesis, 1973. Advisor: W. C. Thompson.

D. P. Richardson, "The Kinematics of Water Particle Velocities of Breaking Waves Within the Surf Zone," Master's Thesis, 1973. Advisor: E. B. Thornton.

R. F. Rodrigues, "Upwelling at Cabo Frio (Brazile)," Master's Thesis, 1973. Advisor: D. F. Leipper.

P. D. Shuman, "1973 Variations of Hurricane Heat Potential in the Philippine Sea and the Gulf of Mexico," Master's Thesis, 1974. Advisor: D. F. Leipper.

R. T. Simril, "High Frequency Temperature Fluctuations in the Atmospheric Boundary Layer," Master's Thesis, 1975. Advisor: N. E. J. Boston.

R. C. Smith, Jr., "Ocean Swell Wave Groups from Wave Record Analysis," Master's Thesis, 1974. Advisor: W. C. Thompson. Also, Technical Report NPS 58SmTh74031.

D. H. Smith, "Origin and Development of Beach Cusps at Monterey Bay, California," Master's Thesis, 1973. Advisor: R. H. Bourke.

W. E. Solomon, Jr., "An Evaluation of the Integrated Column Scattering Strength Used in Current Fleet Range Prediction Models," Master's Thesis, 1974. Advisor: E. D. Traganza.

C. H. Spikes, "A Gravimetric Survey of the Santa Cruz-Ano Neuvo Point Continental Shelf and Adjacent Coastline," Master's Thesis, 1973. Advisor: R. S. Andrews and J. J. von Schwind.

L. M. Thorne, "The Effects of Heat Exchange and Thermal Advection on the Rate of Change of Temperature at Ocean Weathern Station NOVEMBER," Master's Thesis, 1974. Advisor: R. H. Bourke.

R. N. Trapnell, Jr., "Ocean Thermal Structure Response to a Moving Hurricane Model," Master's Thesis, 1974. Advisor: D. F. Leipper and R. L. Elsberry.

M. E. C. Viera, "Time-Series Study of sanding in Ventura Harbor, California," Master's Thesis, 1974. Also, Technical Report NPS-58ViTh74032. Advisor: W. C. Thompson.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

THESES DIRECTED (Cont'd)

S. E. Wheeler, "Marine Fog Impact on Naval Operations," Master's Thesis, 1974. Also Technical Report NPS-58Wh74091. Advisor: D. F. Leipper.

J. L. Wiggins, "Implications of the Emerging Law of the Sea to the U. S. Navy," Master's Thesis, 1974. Advisor: N. E. J. Boston and R. von Pagenhardt.

W. B. Woodson, III, "A Bottom Gravity Survey of the Continental Shelf Between Point Lobos and Point Sur, California," Master's Thesis, 1973. Advisor: R. S. Andrews and J. J. von Schwind.

G. L. York, "Statistical Studies of World-Wide Secchi Data," Master's Thesis, 1974. Also Technical Report NPS-58Tx74031. Advisor: S. P. Tucker.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

ABSTRACTS PUBLISHED

N. E. J. Boston, "Small Scale Oceanic Structure in Shallow Water," published in EOS Transactions, IUGG, 1975.

R. H. Bourke and L. M. Thorne, "The Role of Heat Exchange and Thermal Advection on Sea-Surface Temperature Change at OWS NOVEMBER," presented at annual fall meeting of the American Geophysical Union, 1974. Abstract published in Transactions, American Geophysical Union, Volume 56, 1975.

R. G. Paquette and R. H. Bourke, "Ocean Dynamics Leading to Temperature Mesostructure Near the Arctic Ice Margin," published in Transactions, American Geophysical Union, Vol. 56 (12) 1008, 1975.

E. B. Thornton and N. E. J. Boston, "Small Scale Interactions in the Upper Ocean," paper presented at the fall annual meeting of the American Geophysical Union, 1973. Abstract published in Transaction, American Geophysical Union, Vol. 55, 1974.

E. D. Traganza and K. J. Graham, "ATP in Marine Zooplankton," ATP Methodology Conference, San Diego, CA, 1975. Abstract published by Science Application Incorporated Technology Company, San Diego, Ca, 1975.

E. D. Traganza and J. C. Radney, "Biochemical Relationships of the 'Secondary Biomass' and Dissolved Inorganic Nutrients," published in EOS Transactions, American Geophysical Union, 56(4): 239, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

TECHNICAL REPORTS AND NOTES

R. S. Andrews, "Corrections for Underwater Gravimetry," Naval Postgraduate School, Technical Report NPS-58Ad74011A.

N. E. J. Boston, A. Maratos, J. A. Galt, and E. D. Traganza, "A Measurement of Nearshore Langmuir Circulation," NPS-58Bb75041, 1975.

N. E. J. Boston and E. L. Sipe, "A High Frequency Platinum Resistance Thermometer System for Measuring Turbulent Atmospheric Temperature Fluctuations," NPS-58Bb-75021, 1975.

N. E. J. Boston and E. B. Thornton, "Literature Review and Progress Report on Watsonville Waste Treatment Project," consulting report, ERA# 1-I-75, Document #1, 1975.

R. H. Bourke and R. G. Paquette, "Acoustic Propagation in the Ice Margins of the Chukchi and Beaufort Seas," NPS-58Bf74121.

R. H. Bourke and K. M. Rabe, "A Statistical and Spectral Analysis of the Air-Sea Interactions at OWS NOVEMBER," Environmental Prediction Research Facility, Monterey, CA., Technical Paper 9-75.

E. C. Haderlie, J. H. Phillips, and W. L. Lee, "An Analysis of DDT in Marine Sediments," Environmental Prediction Agency, Research Report EPA-660/3-75-013. 1975.

E. C. Haderlie, "Antifouling Coatings and Their Influence on the Marine Environment," Naval Undersea Center, Technical Report 443, dated Dec. 1974, published 1975.

E. C. Haderlie, J. H. Phillips, and W. L. Lee, "An Analysis of the Dynamics of DDT and its Derivatives, DDD and DDE, in Marine Sediments," Technical Report for Project R 800-365, Office of Research and Development, U. S. Environmental Protection Agency, Washington, D.C. 1974.

E. C. Haderlie, "The Hydrobiological Research Institute, University of Istanbul, Turkey," Office of Naval Research, London, Report R-6-73, 1973.

E. C. Haderlie, "The Heinz Steinitz Marine Biological Laboratory, The Hebrew University of Jerusalem, Eilat, Israel," Office of Naval Research, London, Report R-5-73, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OCEANOGRAPHY

TECHNICAL REPORTS AND NOTES (Cont'd.)

E. C. Haderlie, "Marine Biology and Oceanography in Greece," Office of Naval Research, London, Report R-9-73. 1973.

E. C. Haderlie, "Marine Biological Migration Through the Suez Canal: The Influence of the Canal Closure and Curtailment of the Nile Flow," European Scientific Notes, Office of Naval Research, London, Report E-S-N 27-3, 1973.

D. F. Leipper and F. J. Misciasci, Jr., "Fog Occurrence and Forecasting at Two North Pacific Ocean Stations," 1953, NPS-58Mi74101.

D. F. Leipper and P. D. Shuman, "1973 Variations of Hurricane Heat Potential in the Philippine Sea and the Gulf of Mexico," Technical Report NPS-58Lr74031, 1974.

R. G. Paquette and R. H. Bourke, "Oceanographic Measurements Near the Arctic Ice Margins," NPS-58Pa73121A, 1973.

R. G. Paquette and R. H. Bourke, "An Oceanographic Investigation of the Marginal Ice Zone in the Chukchi and Beaufort Seas in Summer 1971 and 1972," NPS-58Pa73021B, 1973.

W. C. Thompson and R. C. Smith, Jr., "Ocean Swell Wave Groups from Wave Record Analysis," NPS-58SmTh74031.

W. C. Thompson and M. E. C. Vieira, "Time-Series of Sanding in Ventura Harbor, California," NPS-58ViTh74032.

E. B. Thornton and D. P. Richardson, "The Kinematics of Water Particle Velocities of Breaking Waves Within the Surf Zone," NPS-58Tm74011A.

E. B. Thornton and N. E. J. Boston, "Separating Turbulent and Wave-Induced Velocity and Temperature Fluctuations," NPS-58Tm74021.

E. D. Traganza, J. C. Radney and K. J. Graham, "Convenient High Temperature Dry Combustion Thermal Conductivity Instrument for the Determination of Carbon in Marine Zooplankton," NPS-58Tg75081.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS

A. F. Andrus, "A Description of an AAW Model and Its Classroom Uses," 1973 Winter Simulation Conference, January 1973, San Francisco. Published in full in Conference Proceedings.

J. K. Arima, "Organizational Effectiveness, Occupational Research and the Navy--Prospectus 1980," San Diego, July 1973. Paper to be published in conference record.

J. K. Arima, "Verbal Discrimination Learning: An Information Analysis of Randomly Presented 2-, 3-, and 4-word items." Paper presented at the 82nd Annual Convention of the American Psychological Association, New Orleans, LA., August 30 - 3 September 1974.

J. K. Arima and R. D. Read, "Controlling the Riot Shotgun." Paper presented at the annual meeting of the Western Psychological Association, Sacramento, CA, April 1975.

D. R. Barr, "Discussion of Ridge Regression and Bayesian Inference in Costing," 31st MORS, 1973. Full paper in Conference Proceedings.

D. R. Barr, "Stochastic Implications of Utility Assignments," with F. Richards, Operations Research Society of America, Western Section Meetings, March 7, 1975.

D. R. Barr, "Statistical Aspects of Lumpability with Applications to Manpower Models," with M. Thomas, Operations Research Society of America and the Institute of Management Sciences Joint National Meeting, April 30, 1975.

D. R. Barr, "Probability Feedback in the Assessment of Utilities," with F. Richards, American Institute for Decision Sciences, Annual Meetings, Cincinatti, Ohio, November 5, 1975. Full paper in proceedings of the meeting.

D. R. Barr, "Some Geometric Characteristics of Markov Chain Lumpability," with M. Thomas, Operations Research Society of America and the Institute of Management Sciences Joint National Meeting, Philadelphia, PA, March 31, 1976.

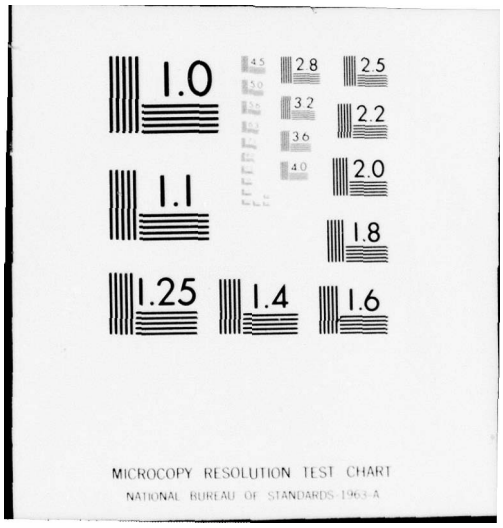
M. K. Block, "Wealth Equivalents and Safety Decisions," TIMS XXII, Tokyo, 1975.

AD-A038 605 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF F/G 5/2
RECENT NAVAL POSTGRADUATE SCHOOL PUBLICATIONS.(U)
FEB 77
UNCLASSIFIED NPS-012RF77023 NL

2 OF 2
ADA038605



END
DATE FILMED
5 - 77


1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

G. H. Bradley, "Coefficient Reduction for Inequalities in 0-1 Variables." Paper presented at the 8th International Symposium on Mathematical Programming, Stanford University, August 27-31, 1973.

G. H. Bradley, "Why are Integer Programs Hard to Solve?" Presented at the National Meeting of the Operations Research Society of America, San Diego, November 1973.

G. H. Bradley, "Bilateral Trade Theory: A Problem in Combinatorial Analysis and Graph Theory," with Ross Starr (Yale University), paper presented at the M.S.S.B. Colloquium on Mathematical Economics, University of California, Berkeley, August 1974.

G. H. Bradley, "Deterministic Networks," paper presented at the Second Annual Systems Engineering Conference of the American Institute of Industrial Engineers in Minneapolis, Minnesota, November 1974.

G. H. Bradley, G. Brown and G. Graves, "A Comparison of Storage Structures for Primal Network Codes." Paper presented at the Operations Research Society of America National Meeting, Chicago, May 1975, and invited by Management Science.

G. H. Bradley, "Structure and Error Detection in Computer Software," with G. T. Howard and N. F. Schneidewind. Paper presented at the American Institute of Industrial Engineer's Meeting, Washington, D. C., May 1975.

G. H. Bradley, "Fixed Order Enumeration Methods." Paper presented at the Operations Research Society of America National Meeting, Las Vegas, November 1975.

G. H. Bradley, G. G. Brown & G. Graves, "Tailoring Primal Network Codes to Classes of Problems with Common Structure." Paper presented at the Operations Research Society of America National Meeting, Las Vegas, November 1975.

G. H. Bradley, G. G. Brown & G. Graves, "Surrogate Programming Approach to Solution of Large Scale Primal Network Codes." Paper presented at the Operations Research Society of America National Meeting, Philadelphia, March 1976.

G. H. Bradley, G. G. Brown & G. Graves, "Large Scale Network Optimization," IX International Symposium on Mathematical Programming, Budapest, Hungary, August 1976.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

G. G. Brown, "Approximation of Stochastic Vector Products," with H. Rutemiller, Spring 1974, ORSA Meeting, Boston.

G. G. Brown, "Matrix Inversion by Block Pivoting," ORSA Meeting, Fall 1974, San Juan, Puerto Rico.

G. G. Brown, "A Comparison of Storage Structures for Primal Network Codes," with G. Bradley and G. Graves, Spring 1975, ORSA Meeting, Chicago.

G. G. Brown, "A Nonlinear Programming Algorithm Using Higher Order Representations of Highly Nonlinear Problems," Spring 1975, Western ORSA Meeting, Monterey.

G. G. Brown, "Maximum Likelihood Estimation of the Probability of Labor Force Participation When the Dependent Variable is Binary with an Application to the AFDL Population-at-Risk," with H. Rutemiller and E. Solberg, 1975, Western Economics Association, San Diego.

G. G. Brown, "An Application of a Nonlinear Integer Programming Algorithm to an Engineering Design Problem," with G. Graves, Fall 1975, ORSA Meeting, Las Vegas.

G. G. Brown, "An Examination of the Effects of the Criterion Functional on Optimal Fire-Support Policies," with J. Taylor, Fall 1975, ORSA Meeting, Las Vegas.

G. G. Brown, "Canonical Methods in the Solution of Variable-Coefficient Lanchester-Type Equations of Modern Warfare," with J. Taylor, Fall 1975, ORSA Meeting, Las Vegas.

G. G. Brown, "Tailoring Primal Network Codes to Classes of Problems with Common Structure," with G. Bradley and G. Graves, Fall 1975, ORSA Meeting, Las Vegas.

G. G. Brown, "Development of a New Large Scale Linear, Integer, Nonlinear Programming Code with Dynamic Factorization," with G. Bradley and G. Graves, Fall 1976, ORSA Meeting, Miami.

R. W. Butterworth, "Determining Staffing Levels for Outpatient Walk-In Clinics." An invited presentation at the Forum on Ambulatory Care Systems, National Cooperative Services Center for Hospital Management Engineering, San Francisco, California, June 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

C. B. Derr, "Contingency Approaches to Conflict Management." Paper presented at Western Academy of Management Meeting, Las Vegas, March 1975.

C. B. Derr, "Organization Development in Schools." Paper presented at American Educational Research Association Meeting, Washington, D. C., March 1975.

R. S. Elster, "Development of a Man-to-Man Rating Scale for Evaluating Performance," American Psychology Association, Montreal, September 1973. Published in Conference Proceedings.

R. S. Elster, "Subordinate Ratings: Why Not?" Military Testing Association, San Antonio, November 1973. Published in Conference Proceedings.

R. S. Elster, "An Organizational Development Program in Two Navy Organizations Staffed by Military and Civilian Personnel," with W. Githens, Proceedings of the 1974 Psychology in the Air Force Symposium, Colorado Springs, April 1974.

R. S. Elster, "Selection of Students for the Naval Postgraduate School," with W. Githens, Proceedings of the 1974 Military Testing Association Convention, Oklahoma City, October 1974.

C. K. Eoyang, "Systems Analysis and the Dynamics of Manpower." Paper presented to the XXII International Meeting of the Institute of Management Sciences, Kyoto, Japan, July 1975.

C. K. Eoyang, "Studies of the Effectiveness of Paramedical Usage in Medical Care Delivery," with W. C. Giauque, R. T. Harris, & C. B. Derr, NATO Conference on Systems Science in Health Care, July 1976.

C. K. Eoyang, "The Effects of Similarity and Dissimilarity on Group Performance," with K. W. Wells, American Psychological Association, Washington, D. C., August 1976.

D. P. Gaver, "Methods for Assessing Variability, with Emphasis on Simulation Data Interpretation," International Symposium on Uncertainties in Hydrologic and Water Resources Systems, University of Arizona, Tucson, 1973.

D. P. Gaver, "On the Magnitude and Duration of Traffic Jams on Roads," International Statistical (invited paper), Vienna, Austria, August, 1973. Paper in conference record.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

D. P. Gaver, "Probability Models in Logistics," Logistics Symposium, Fall 1973. Paper to appear in Proceedings.

W. C. Giauque, "Studies on the Effectiveness of Paramedical Usage in Medical Care Delivery," with R. Harris, presented at the Ninth Annual Health Systems Symposium, November 1975, Carmel, CA.

W. C. Giauque, "Applications of Computers in Medical Care Delivery," presented at the Ambulatory Health Care Symposium, February 1976, San Diego, CA.

W. J. Haga, "Professionalism and the Role Making Process," at American Psychological Association, Montreal, August 1973.

W. J. Haga, "Bureaucracies and Adhocracies," at American Psychological Association, Montreal, August 1973.

W. J. Haga, "Professionalism and the Dysfunctional Use of Organization Resources," Western Economic Association, Las Vegas, June 1974.

W. J. Haga, "Can an Engineer Join a Union and Still be Professional?" at American Institute of Aeronautics and Astronautics, Los Angeles, August 1975.

J. K. Hartman, "A Global Search Method for Functions of Several Variables," 44th National ORSA meeting, San Diego, Calif., November 1973. Abstract published in ORSA Bulletin, Vol. 21, Supplement 2, Fall 1973.

J. K. Hartman, "Auditing Cost-Effectiveness Analyses of Technological Changes," with N. K. Womer, January and May 1973. Published in Proceedings of 31st MORS, Spring 1973, Washington, D. C.

J. K. Hartman, "Extension of the Grid Linearization Method for Convex Optimization to Nonconvex Nonlinear Programs," presented at the ORSA/TIMS Joint National Meeting, 17-19 November 1975, Las Vegas. Abstract published in ORSA Bulletin, Vol. 23, Supplement 2, Fall 1975.

J. K. Hartman, "The Potential for Use of Quantitative Methods in Education and Training Systems Management," COMNAVAIRPAC Educational Systems Management Seminar, Naval Postgraduate School, 18-22 August 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

G. T. Howard, "Structure and Reliability of Computer Software," with G. H. Bradley, T. F. Green & N. F. Schneidewind. Proceedings of 26th Annual Conference and Convention, American Institute of Industrial Engineers, Washington, D. C., 20-23 May 1975.

G. T. Howard, "Program Structures Complexity and Error Characteristics," with T. F. Green, R. J. Pariseau & N. F. Schneidewind. Proceedings of the 1976 Microwave Research Institute Symposium on Computer Software Engineering, April 1976.

J. A. Jolly, "The Nature of Firms Manufacturing Non-Industrial Non-Communications Microwave Products in the USA," Loughborough University, U.K., 73 Symposium on Microwave Power, Summary and Abstract in Conference Proceedings.

J. A. Jolly, "Technical Advances in Operational Microwave Industrial Process Systems in North America," published in the Proceedings of the 7th International Congress on Electro Heat, Warsaw, Poland, 1972. Published in 1973.

J. A. Jolly, "A Study of the Technology Transfer Capability of Eleven Organizations," NAVMAT HQ, Washington, D. C., Workshop on Technology Transfer, June 9, 1975.

J. A. Jolly, "Technology Transfer and Utilization: A Longitudinal Study Using Benefit Analysis to Measure the Results from an R&D Laboratory," NATO-ASI on Industrial Applications of Technology Transfer, June 22-July 3, 1975, Les Arcs, Bourg St. Maurice, FRANCE.

C. J. Jones, "Escalation Provisions for Navy Contracts: Issues and Choices," with M. G. Sovereign, Proceedings of the Fourth Annual DOD Procurement Research Symposium, October 1975.

C. R. Jones, "The Naval Ship Acquisition Process as a System," with S. M. Dean, M. G. Sovereign, presentation to the Navy R&D Council for Acquisition Research, December 1975.

R. R. Judson, "The Maturing of Congressional Responsibilities in Acquisition," San Francisco Chapter of the National Contract Management Association, San Francisco, December 1974. Full paper in Conference Proceedings.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

R. R. Judson, "Procurement Management Education: What Should be Done?" National Contract Management Association, National Symposium, Los Angeles, July 1975. Full paper in Conference Proceedings.

M. B. Kline, "Economic Considerations for Maintainability," 6th Annual SRE/ASQC Seminar, Niagra Falls, New York, September 1973. Full paper in Proceedings.

M. B. Kline, "Preparing for a New Program - Concept/Predesign/ Proposal," ETA Working Conference on New Perspectives in Product Effectiveness, May 1974, San Diego. Session minutes in Conference Proceedings.

M. B. Kline, "Maintenance and Maintainability Interfaces in Integrated Logistics Support," ADPA/VS Army Material Command Maintainability Engineering Symposium, Washington, D. C., September-October 1974. Full paper in Proceedings.

P. A. W. Lewis, "Large Scale Computer Assisted Statistical Computation," 6th Conference on Computer Science and Statistics, 1973.

P. A. W. Lewis, "Statistical Tests of Some Widely Used and Recently Proposed Uniform Random Number Generators," with G. P. Learmonth. In Proceedings 7th Conference on Computer Science and Statistics, 1974.

P. A. W. Lewis, "Marked Cluster Point Processes as Models for Eqrthquake Occurrence," International Geophysics Conference, Cambridge, England, 1974.

P. A. W. Lewis, "Mixed Moving Average and Autoregressive Gamma Point Processes," Point Process Workshop, London, 1974. Also at Annual Statistical Societies Meetings, August 1975.

P. A. W. Lewis, "Recent Results in the Generation and Testing of Uniform Random Variates," TIMS Meeting, Kyoto, 1975.

K. T. Marshall, "Data Bank Retrieval and Confidentiality Problems," Symposium on the Utilization of Organizational Indicator Data (sponsored by ONR), University of Michigan, September 1974. Published in the Proceedings.

K. T. Marshall, "Interactive Manpower Policy Planning Models in the U. S. Navy and Marine Corps," with R. M. Oliver, ORSA/TIMS National Meeting, Puerto Rico, October 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

K. T. Marshall, "Some Optimization Models in Long-Run Manpower Planning," with R. C. Grinold, ORSA/TIMS Meeting, Philadelphia, PA, April 1976.

P. R. Milch, "Life Testing Type Data From Military Experiments," Joint ORSA/TIMS Meeting, November 17-19, 1975, Las Vegas, Nevada.

D. E. Neil, "Biorhythms and Industrial Safety," National Safety Congress, Chicago, October 1974. Summary published in Congress Proceedings.

D. E. Neil, "Behavioral Techniques for "Early Warning" Health Screening Systems," National Science Foundation National Conference on Future Directions in Occupational Safety and Health, Columbus, MD, May 1974. Published in Conference Proceedings.

D. E. Neil and S. O. Parsons, "Possible Application of Biorhythm to Flight Safety." Invited paper presented at the International Airline Transport Association Conference, Istanbul, Turkey, November 1975.

D. E. Neil, "Biorhythm," presented at Office of Naval Research Meeting on Brain Mechanism and Behavior, Monterey, CA, July 1975.

S. H. Parry, "An Analysis of Factors Affecting a Tank Commander's Firing Decision Process," Thirteenth Army Operations Research Symposium, Fort Lee, VA, October - November 1974. Paper to appear in the Proceedings.

S. H. Parry, "A First Cut Method for Evaluating Improvements in Tank Performance Due to Design Changes," Fourteenth Army Operations Research Symposium, Fort Lee, VA, 17-20 November 1975. Full paper published in the Proceedings.

S. H. Parry, "An Analysis of Field Artillery Unit Configurations Employing Cannon Launched Guided Projectiles," Fourteenth Army Operations Research Symposium, Fort Lee, VA, 17-20 November 1975. Full paper published in the Proceedings.

S. H. Parry, "The XM-1 Tank Material Needs Study - An Application of DYNTACS-X and FAST (Bonder-IUA)," with D. Brown, Thirty-Sixth Military Operations Research Symposium, Quantico, VA, 16-18 December 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

G. K. Poock, "Kirlian Photography as a Medical Diagnostic Tool." Invited Speech, Canadian Medical Association, Annual Conference, Toronto, June 1974.

G. K. Poock, "Current Status of Kirlian Photography Development: Poock-Sparks Cinematography." Invited Speech, Ontario Medical Association 95th Annual Meeting, May 5, 1975, London, Ontario.

G. K. Poock, "High Voltage Motion Picture Photography," New York Academy of Medicine and IKRA, Conference, May 17, 1975. Invited Speech (presented in absentia).

G. K. Poock, "The Poock-Sparks Technique of Motion Picture Kirlian Photography and a Technique for Quantifying Kirlian Photographs." Invited speech presented in absentia via tape to the 2nd International Conference of the International Association for Psychatronic Research, July 1-4, 1975, Monte Carlo, Monaco.

G. K. Poock, "High Voltage Photography: Applications and Pitfalls." Invited speech presented to Fall Conference, Drexel University, Office of Continuing Education and IKRA, November, 1975, Philadelphia, PA.

W. M. Raike, "Extensions of Some Results of Gale and Nikaido Concerning Global Unicity of Solutions to Nonlinear Inequalities," with A. Charnes and J. Stutz, Operations Research Group (Monterey) Working Paper, September 1973.

W. M. Raike, "Performance-Constrained Deterministic and Probabilistic Multiperiod Inventory Problems: Part I. Operations Research Group (Monterey) Working Paper, September 1973.

W. M. Raike, "Solutions to Triangular Conditional E-Models Arising from Inventory Problems," International Conference on Stochastic Programming, Oxford University, England. Paper to be published in Conference Proceedings.

F. R. Richards, "Demand Forecasting - The View from Academe, MORS," Annapolis, June 1973. Paper published in Conference Proceedings, U. S. Naval Academy.

F. R. Richards, "A Rationale for Selecting a Family of Demand Distributions for Inventory Systems," Proceedings 1974 Spring Conference American Institute of Industrial Engineers, May 1974, with M. U. Thomas. Paper published in record.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

F. R. Richards, "An Experiment in Teaching Probability to Junior High School Students," Fall Math Conference of Monterey Peninsula Unified School District, Monterey, October 1974.

F. R. Richards, "Comments on the Distribution of Inventory Position in a Continuous-Review (s,S) Inventory System," ORSA/TIMS Meeting, San Juan, Puerto Rico, October 1974.

F. R. Richards, "Stochastic Implications of Utility Assignments," Wester Section ORSA Meeting, Monterey, March 1975, with Donald R. Barr.

N. F. Schneidewind, "Using Time-Sharing for Software Reliability Analysis," Proceedings of the Second Annual Computer Communications Conference at California State University, San Jose, January 1973.

N. F. Schneidewind, "Lecturer in U.C.L.A. Engineering and Physical Sciences Division Short Course," August 1973.

N. F. Schneidewind, "Analytic Model of Software Quality Control," ORSA 43rd National Meeting, Milwaukee, Wisconsin, May 1973.

N. F. Schneidwind, "Management Information Systems," Sponsored by Data Processing Management Association, Harnell College, Salinas, CA, 9 April 1973.

N. F. Schneidewind, "Current Results of Command and Control Software Reliability Evaluation," Federal Government Computer Performance Evaluation Users Group, Naval Postgraduate School, Monterey, CA, 22 March 1973.

N. F. Schneidewind, "Data Privacy and Security," Salinas Valley, Monterey Peninsula Chapter of the National Association of Accountants and Data Processing Management Association, 15 January 1974.

N. F. Schneidewind, "Mass and Memory System Peripherals," Eighth IEEE Computer Society International Conference, San Francisco, February 1974. Full paper in Proceedings.

N. F. Schneidewind, Management Information Systems, Data Processing Management Association, Hartnell College, Salinas, CA, 18 April 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

N. F. Schneidewind, "Software Complexity and the Cost of Testing," AIEE National Conference, 1975, with G. Bradley and G. Howard. Accepted.

N. F. Schneidewind, "Simulation of Error Detection in Computer Programs," Symposium on the Simulation of Computer Systems, Sponsored by National Bureau of Standards and the ACM, Boulder, Colorado, August 12-14, 1975.

N. F. Schneidewind, "Structure and Error Detection in Computer Software," with G. Bradley and G. Howard, AIIE National Conference, Washington, D. C., May 21-23, 1975.

N. F. Schneidewind, "An Analysis of Computer Performance and Resource Usage in a Multi-programming Environment," ORSA/TIMS Meeting, Chicago, IL, May 2, 1975.

N. F. Schneidewind, "Analysis of Errors in Computer Software," 1975 International Conference on Reliable Software, Sponsored by IEEE, ACM, and NBS, Los Angeles, CA, April 21-23, 1975.

N. F. Schneidewind, "Simulation of Error Detection in Computer Programs," ORSA Western Section Meeting, Monterey, CA, March 17, 1975.

D. A. Schrady, "The State of OR Theory Available for Military Application: Supply Management," Proceedings of 3th MORS (SECRET), September 1973.

D. A. Schrady, "Graduate Education in OR/SA for Military Officers," Proceedings of 30th MORS, (SECRET), September 1973.

D. A. Schrady, Discussant of Paper, "Logistic Performance Indicators for Cost-Benefit Analyses of Automatic Data Processing Systems," Proceedings of the 32nd MORS (SECRET), September 1974.

D. A. Schrady, "A Survey of Inventory Theory and Practice," with D. Gross. Commissioned Survey paper for the ONR/GWU Logistics Research Conference, May 1974.

D. A. Schrady, "Current Trends in Military Operations Research," Joint National Meeting of the Operations Research Society of America and the Institute of Management Sciences, Chicago, May 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

M. G. Sovereign, "Fullcosting of Weapons Systems," Proceedings of the 7th Annual DOD Cost Research Symposium, compiled by the Office of the Comptroller of the Army, Washington, D. C.

M. G. Sovereign, "Results of the Seminar on Acquisition Cost Estimating Models," Chairman's Summary of Acquisition Cost Estimating Group, 8th Annual DOD Cost Research Symposium, Airlie, VA, November 1973.

J. G. Taylor, "Survey on the Optimal Control of Lanchester-Type Attrition Processes," Workshop on the State of the Art of Mathematics in Combat Models, McLean, VA, June 1973.

J. G. Taylor, "Lanchester-Type Models of Warfare," invited tutorial, presented before the 46th National Meeting of the Operations Reseach Society of America (ORSA), San Juan, Puerto Rico, October 1974.

J. G. Taylor, "The Force-Ratio Equation for Some Lanchester-Type Models of Warfare," with S. Parry (presented by G. Lindsay), presented at the 47th Joint ORSA/TIMS National Meeting, Chicago, Illinois, May 1975.

J. G. Taylor, "A Turtorial on Lanchester-Type Models of Warfare," 35th Military Operations Research Symposium, Annapolis, MD, July 1975.

J. G. Taylor, "Summary of Invited Papers," ONR Fire Support Methodology Workshop, Monterey, CA, August 1975.

J. G. Taylor, "A General Theory for Lanchester Combat Models," with C. Comstock (presented by C. Comstock), SIAM-SIGNUM 1975 Fall Meeting, San Francisco, CA, December 1975.

J. G. Taylor, "On the Relationship Between the Force Ratio and the Instantaneous Casualty-Exchange Ratio for Some Lanchester-Type Models of Warfare," Philadelphia Joint ORSA/TIMS National Meeting, Philadelphia, PA, April 1976.

K. Terasawa, "Generating Quantitative Data Requirements for Pricing of Publicly Provided Goods," TIMS International Conference, July 1975, Kyoto, Japan.

M. U. Thomas, "A Decision Analytic Approach to the Diagnosis of Coronary Heart Disease," IEEE Conference on Systems, Man, and Cybernetics, Boston, November 1973. Paper published in Conference Proceedings.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

R. A. Weitzman, "Pattern Scoring of Short Predictors," Proceedings of the 81st Annual Convention of American Psychological Association, 1973.

D. R. Whipple, "On the Optimal Mix of Health and Income Insurance," at Western Economic Association Meetings, Claremont, CA, August 1973.

D. R. Whipple, "Utilization of Military Health Care Facilities," at Operations Research Society of America Meetings, San Diego, CA, November 1973. (With David Walsh)

D. R. Whipple, "The Military Health Care System: Model for the Future or Rusting Edsel?" at 7th Annual Health Systems Symposium, University of Massachusetts, September 1973.

D. R. Whipple, "Cooperative Energy Management," with Ronald Cummings, at ORSA Meetings, San Diego, CA, November 1973.

D. R. Whipple, "The Perceived Quality of Health Care in the U. S. Military Delivery System," with R. Harris, NATO Conference on Human Factors in Health Care, Lisbon, Portugal, 1974.

D. R. Whipple, "Some Thoughts on the Structure of the U. S. Military Health Care Delivery System," Military Operations Research Society, Ft. Eustis, VA, December 1974.

D. R. Whipple, "The Use of Operations Research to Generate Alternative Health Plan Structures," at ORSA Meeting, Boston, MA, April 1974.

D. R. Whipple, "Analytical Aspects of a Multi-Regional Health Care Voucher System," at Western Economic Association Meetings, Las Vegas, Nevada, June 1974.

D. R. Whipple, "Optimal Replacement: An Extension to Consumer Durables," with K. Terasawa, at Operations Research Society of America Meeting, San Juan, Puerto Rico, October 1974.

D. R. Whipple, "An Integrated Production Function for a Military HMO," at Military Applications Section of the Operations Research Society of America, San Juan, Puerto Rico, October 1974.

D. R. Whipple, "Doctors, Patients and the Demand for Health Care," at First Annual Eastern Economics Association Meeting, Albany, New York, October 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

CONFERENCE PRESENTATIONS (CONT)

D. R. Whipple, "On an Aspect of the Supply of Physicians to the Civilian and Military Sectors," with M. K. Block, presented at Society of Government Economists Meetins, Washington, D. C., March 1975.

D. R. Whipple, "Analytical Properties of Health Care as a Right," with John Hoag, at Western Economics Association Meeting, San Diego, CA, June 1975.

D. R. Whipple, "Revolution vs Evolution in Health Care Delivery," at Association for Humanistic Psychology Meeting, Estes Park, Colorado, August 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS

J. K. Arima, "Military Significance and Investment Risk of Navy R&D Programs in Personnel and Training, I. Methodology and Primary Findings," JSAS Catalog of Selected Documents in Psychology, Fall Issue, 1973, ms. #761.

J. K. Arima, "Verbal Discrimination Learnings: An Information Analysis of Randomly Presented 2-, 3-, and 4-Word Items." JSAS Catalog of Selected Documents in Psychology, 4 (1974), ms. #757.

J. K. Arima, "Improvement of Small-Arms Pointing Fire Using Bracketing Sights: a Field Experiment Program." USAS Catalog of Selected Documents in Psychology, 1975, 5, ms. #984.

J. K. Arima, Book review of "Man-Machine Systems: Information, Control and Decision Models of Human Performance," by T. B. Sheridan and W. R. Ferrell, American Journal of Psychology, 88, 1975, 703-707.

D. R. Barr, "A Kolmogorov-Smirnov Test for Censored Samples," with T. Davidson, Technometrics, 15, No. 4 (November 1973).

D. R. Barr, "A Note on Kuiper's V_n Statistic," with R. Shudde, Biometrika, 60, No. 3 (December 1973).

D. R. Barr, "Strong Optimality of the 'Shoot-Adjust-Shoot' Strategy," Operations Research, December 1974.

D. R. Barr, "Pooling Regression Estimates," with H. Larson, Letter to Editor, The American Statistician, 27 (June 1973).

D. R. Barr, "Improved Confidence Bounds Applied to Reliability," with T. Jayachandran, IEEE Transactions on Reliability, R-24, No. 1, 1975.

D. R. Barr, "A Nonparametric Analogy of Analysis of Covariance," with T. Burnett, to appear in Educational and Psychological Measurement, June 1977.

D. R. Barr, "Induced Priors in Decision Problems," with F. Richards, to appear in the Annals of Statistics.

M. K. Block, "The Allocation of Effort Under Uncertainty: The Case of Risk Adverse Behavior," with J. M. Heineke, Journal of Political Economy, March/April 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

M. K. Block, "Subjective Probability of Victimization and Crime Levels: An Econometric Approach," with G. J. Long, Criminology, May 1973.

M. K. Block, "The Supply of Legal and Illegal Activity: A Choice Theoretic Approach," with J. M. Heineke, Santa Clara Business Review, 1973.

M. K. Block, "Income Uncertainty: The Geometry of a Special Case," Journal of Economic Studies, May 1974.

M. K. Block, "An Economic Approach to Theft," Atlantic Economic Journal, November 1974.

M. K. Block, "Crime and Punishment Reconsidered," with R. C. Lind, Journal of Legal Studies, accepted January 1975.

M. K. Block, "Factor Allocations Under Uncertainty: An Extension," with J. M. Heineke, Southern Economic Journal, accepted January 1975.

M. K. Block, "A Labor Theoretic Approach to Criminal Choice," with J. M. Heineke, American Economic Review, accepted June 1975.

M. K. Block, "A Choice Theoretical Approach to Crimes Punishable by Imprisonment," with R. C. Lind, Journal of Legal Studies, accepted 1975.

M. K. Block, "Cost Functions for Correctional Institutions: A Case Study." Commissioned MS, American Bar Association, to be published 1975.

M. K. Block, "The Cost of Entrepreneurship and Output Decisions: Certainty and Uncertainty," Journal of Economic Studies, May 1975, with J. M. Heineke.

G. H. Bradley, "An Algorithm for Integer Linear Programming: A Combined Algebraic and Enumeration Approach," with Pran N. Wahi, Operations Research, 21 (1973).

G. H. Bradley, "Equivalent Mixed Integer Programming Problems," Operations Research, 21 (1973).

G. H. Bradley, "Trading Rules for a Decentralized Exchange Economy," in Symposium on the Theory of Scheduling and Its Applications, Springer-Verlag, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

G. H. Bradley, "A Note on the Shape of the Pareto Optimal Surface," Journal of Economic Theory, Vol. 8 (1974).

G. H. Bradley, P. L. Hammer and L. Wolsey, "Coefficient Reduction for Inequalities in 0-1 Variables," Mathematical Programming 7 (December 1974).

G. H. Bradley, "Survey of Deterministic Networks," AIIE Transactions, 7 (September 1975).

G. H. Bradley, G. Brown, and G. Graves, "GNET, A FORTRAN Primal Network Code," copyright 1975.

G. H. Bradley, T. Green, G. Howard, and N. Schneidewind, "Structure and Error Detection in Computer Software," Proceedings of the Spring Conference of the American Institute of Industrial Engineers, May 1975.

G. H. Bradley, G. G. Brown & G. W. Graves, "Large Scale Network Optimization," Naval Research Reviews.

G. H. Bradley, G. G. Brown & G. W. Graves, "Theory and Implementation of Large Scale Primal Network Codes," (invited to appear in Management Science).

G. G. Brown, "A Cost Analysis of Sampling Inspection Under Military Standard 105D," with H. Rutemiller, Naval Research Logistics Quarterly, 20 (1).

G. G. Brown, "Some Probability Problems Concerning the Game of Bingo," with H. Rutemiller, Mathematics Teacher, 66(5).

G. G. Brown, "Evaluation of Pr(X-Y) When Both X and Y are from 3-Parameter Weibull Distributions," with H. Rutemiller IEEE Transactions on Reliability, R-22(2).

G. G. Brown, "The Efficiencies of Maximum Likelihood and Minimum Variance Unbiased Estimators of Fraction Detective in the Normal Case," with H. Rutemiller, Technometrics, Vol. 15, No. 4 (November 1973).

G. G. Brown, "Tables for Determining Expected Cost per Unit Under MIL-STD-105D Single Sampling Schemes," with H. Rutemiller, American Institute of Industrial Engineering Transactions, Vol. 6, No. 2, (June 1974).

G. G. Brown, "Nonlinear Statistical Estimation with Numerical Maximum Likelihood," Western Management Science Institute (UCLA) Technical Report 222, October 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

G. G. Brown, "An Analysis of the Long Range Operating Characteristics of the MIL-STD-105D Sampling Scheme and Some Suggested Modifications," with H. Rutemiller, Naval Research Logistics Quarterly, 22(4), 1975.

G. G. Brown, "Canonical Methods in the Solution of Variable-Coefficient Lanchester-Type Equations of Modern Warfare," with J. Taylor, Operations Research, 24(1), 1976.

G. G. Brown, "A Note on Numerical Maximum Likelihood Estimation of the Parameters of the Weibull Distribution," IEEE Transactions on Reliability, 24(2), 1976.

D. C. Burns, "Naval Postgraduate School, Auditing Course Outline," Accounting Trends VII, edited by Professor Tom Burns, McGraw-Hill Book Company, August 1973.

R. W. Butterworth, "Bounds on the Availability Function," co-author T. Nikolaisen, Naval Research Logistics Quarterly, Vol. 20, No. 2 (June 1973).

J. A. Caspari, "Wherefore Accounting Data--On Explanation, Prediction, and Decisions," The Accounting Review, Vol. LI, No. 4, October 1976.

J. W. Creighton, "FESO Project Effectiveness Profile for NAVFAC - a summary of analysis of 1972 project results," with J. A. Jolly, October 1973.

C. B. Derr, "OD in Schools: Some Questions, Some Alternatives, Thrust, November 1974.

C. B. Derr, "A Contingency Approach for Managing Small Colleges," with D. A. Orton, Teacher College Record, 1975.

C. B. Derr, "A Report of the Five City Entry Study: University-Urban School Relations, with a Demb, UCEA Newsletter, Fall, 1973.

C. B. Derr, "Entry in Urban School Systems: The Context and Culture of New Markets," with A. Demb, for special issue of Education and Urban Society, Vol. VI, No. 2 (February 1974).

C. B. Derr, "Organization Development in Education," UCLA Educator, May 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

C. B. Derr, "Organizational Conflict: An Neglected Resource," Conference Board Record, March 1975.

C. B. Derr, "OD 'Futures' in the Navy: Some Policy Considerations," Human Resource Management Journal, Fall 1975.

R. S. Elster, "Management by Objectives and Goal Setting," with G. Musgrave. Exchange Bibliography #577, Council of Planning Librarians, P.O. Box 229, Monticello, Ill., 1974.

R. S. Elster, "Performance Appraisal: A Selected Chronological Bibliography--1948-1973," with G. Musgrave. Exchange Bibliography #568, Council of Planning Librarians, P.O. Box 229, Monticello, Ill., 1974.

C. K. Eoyang, "On the Use and Misuse of Structured Exercises," with David Bradford, to be published in Experimental Group Methods in Management Education, ed. by Gary Cooper, Quest Publications, London, 1975.

C. K. Eoyang, "Effects of Group Size and Privacy in Residential Crowding," Journal of Personality and Social Psychology, Vol. 30, No. 3 (1974).

C. K. Eoyang & W. J. Haga, "Rubert Toronto: Old Wine into New Bottles," Behavioral Science.

C. K. Eoyang, "A Simulation of Organizational Slack," Management Science.

J. D. Esary, A. W. Marshall, and F. Proschan, "Shock Models and Wear Processes," Annals of Probability, Vol. 1 (August 1973).

J. D. Esary and A. W. Marshall, "Multivariate Distributions with Exponential Minimums," Annals of Statistics, Vol. 2 (January 1974).

J. D. Esary and A. W. Marshall, "Some Classes of Distributions Closed Under the Formation of Coherent Systems," Reliability and Biometry, Statistical Analysis of Lifelength, edited by F. Proschan and R. J. Serfling. Society for Industrial and Applied Mathematics, Philadelphia, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

J. D. Esary and A. W. Marshall, "Families of Components, and Systems, Exposed to a Compound Poisson Damage Process," Reliability and Biometry, Society for Industrial and Applied Mathematics, 1974.

J. D. Esary and W. J. Hayne, "Properties of an Approximate Hazard Transform," Naval Research Logistics Quarterly, Vol. 22 (March 1975).

J. D. Esary and H. Ziehms, "Reliability Analysis for Phased Missions," Reliability and Fault Tree Analysis, Theoretical and Applied Aspects of System Reliability and Safety Assessment, edited by R. E. Barlow, J. B. Fussell, and N. D. Singpurwalla, Society for Industrial and Applied Mathematics, Philadelphia, 1975.

D. P. Gaver, "Processor Utilization in Multiprogramming Systems Via Diffusion Approximations," with G. Shedler, Operations Research, Vol. 21, No. 2 (1973).

D. P. Gaver, "Approximate Models for Processor Utilization in Multiprogrammed Computer Systems," with G. Shedler, SIAM J. on Computing, Vol. 2, No. 3 (September 1973).

D. P. Gaver, "Analysis of Exception Data in a Staging Heirarchy," with P. A. W. Lewis and G. S. Shedler IBM Journal of Research and Development, Vol. 18, No. 5 (September 1974).

D. P. Gaver, "A Diffusion Approximation for a Repairman Problem with Two Types of Repair," with J. Lehoczky. Technical Report to appear; accepted by Management Science.

W. C. Giauque, "Application of Multidimensional Utility Theory in Determining Optimal Test-Treatment Strategies for Streptococcal Sore Throat and Rheumatic Fever," Operations Research, to appear.

W. J. Haga, "Professionalism and Role Making in a Service Organization: A Longitudinal Investigation," in American Sociological Review, Vol. 39, No. 1 (February 1974). With Fred Dansereau and George Graen.

W. J. Haga, "Vertical Dyad Linkage Approach to Leadership Within Formal Organizations: A Longitudinal Investigation," in Organizational Behavior and Human Performance, Vol. 13 (February 1975). With Fred Dansereau and George Graen.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

W. J. Haga, "Community Studies: An Introduction to the Sociology of the Local Community," (by Colin Bell and Howard Newby), a review in Rural Sociology, Vol. 39, No. 1 (1974).

W. J. Haga, "Can an Engineer Join a Union and Still be Professional?" in Astronautics and Aeronautics, December 1975.

W. J. Haga, "One Sociologist's Reply to Wieland's Review Essay," in Academy of Management Review, January 1976.

W. J. Haga, "Professionalism and the Dysfunctional Use of Organization Resources," American Journal of Economics and Sociology, in press.

W. J. Haga & L. R. Moore, III, "Probabilistic Baseline Generator for Role Differentiation in Formal Organizations," in revision, Journal of Mathematical Sociology.

J. K. Hartman, "Some Experiments in Global Optimization," Naval Research Logistics Quarterly, Vol. 20, No. 3 (September 1973).

J. K. Hartman, "Iterative Determination of Parameters for an Exact Penalty Function," Journal of Optimization Theory and Applications, Vol. 16, No. 1-2 (July 1975).

G. T. Howard, "A Proportional Defense Model," Naval Research Logistics Quarterly, Vol. 21, No. 1 (March 1974).

J. A. Jolly, "Industrial Microwave Power Adoption Rate and the Diffusion of Technical Information," Journal of Microwave Power, Vol. 8, No. 3/4 (1973).

J. A. Jolly, "The Nature of Firms Manufacturing Non-Industrial Non-Communications Microwave Products in the USA," Journal of Microwave Power, Vol. 8, No. 3/4 (1973).

R. R. Judson, "Warranties Research Plan," DOD Research Conference, Ft. Lee, VA, September 1974. Published in Conference Proceedings.

H. J. Larson, "Combining of Independent Regression Estimates is not Paradoxical," by N. Mantel and C. C. Brown, reply to letter to the Editor, The American Statistician, June 1973, with D. R. Barr.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

P. A. W. Lewis, "Empirically Derived Models for Sequences of Page References and for Sequences of Page Exceptions," IBM Journal of Research and Development, 17 (1973).

P. A. W. Lewis, "Testing for a Monotone Trend in a Modulated Renewal Process," with D. W. Robinson. In proceedings Conference Reliability and Biometry, F. Proschan (ed) SIAM Publications, Philadelphia, 1974.

P. A. W. Lewis, "Analysis of Exception Data in a Staging Hierarchy," with D. P. Gaver and G. S. Shedler, IBM Journal of Research and Development, 18 (1974).

P. A. W. Lewis, "Properties of the Bivariate Delayed Poisson Process," with A. J. Lawrence, Journal of Applied Probability, 1975.

K. T. Marshall, "Linear Bounds on the Renewal Function," SIAM Journal of Applied Mathematics, 24 (1973).

K. T. Marshall, "A Comparison of Two Personnel Prediction Models," Operations Research, 21 (1973).

K. T. Marshall, Manpower Flow Models, with R. C. Grinold. To be published by American Elsevier, New York, in September 1976.

P. R. Milch, "Alternative Measures of Analysis for Phase II Antitank Missile Test (ATMT)," with A. Andrus and D. Brown, BDM Scientific Support Lab, 1974.

S. H. Parry, "Force Ratio Considerations for Some Lanchester-Type Models of Warfare," with J. G. Taylor, Operations Research, Vol. 23, No. 3, May-June 1975.

G. K. Poock, "Combined Accelerator-brake Pedal," with A. West, T. Coben and J. Sullivan, Ergonomics, December 1973, Published in England.

G. K. Poock, "Information Processing versus Pupil Diameter," Perceptual and Motor Skills, December 1973.

G. K. Poock, "Knowing How is Not Enough: Tell Them Why," Journal of the California Dental Association, February 1974, with H. B. Lackey.

G. K. Poock, "An Image Intensification Technique for Motion Picture Kirlian Photography," International Journal of Psychoenergetic Systems, Vol. 1 (1974).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

G. K. Poock, "Statistical Analysis of the Electrobioluminescence of Acupuncture Points," The American Journal of Acupuncture, December 1974.

G. K. Poock, "Physical Parameters Affecting Kirlian Photographs," International Journal of Paraphysics, Vol. 8 (1974).

G. K. Poock, "A Description of the Methodology Used in the Poock-Sparks Technique of Motion Picture Kirlian Photography," January 1974.

G. K. Poock, "Effects of Workplace Layout on Pupillary Diameter," Perceptual and Motor Skills, 1975, 40, with C. E. Noel.

G. K. Poock, "A Numerical Quantification Technique for Kirlian Photographs," International Journal of Psychoenergetic Systems, 1975.

G. K. Poock, "Kirlian Photography: An Engineer's View, TECHNIUM, University of Michigan, Spring 1975.

W. M. Raike, "Comments on the 'Classical' Derivation by Taha and Curry of Optimality Conditions in Linear Programming," with J. G. Taylor, Technical Note, Operations Research, 21, No. 1 (January 1973).

W. M. Raike, "On Generation of Test Problems for Linear Programming Cores," with A. Charnes, J. Stutz and A. Walters, Comm. ACM, 17, Note 10 (October 1974).

W. M. Raike, "V-Positivity, Poverses and the Economic Global Unicity Theorems of Gale and Nikaido," with A. Charnes and J. Stutz, Zeitschrift fur Operations Research, 1974.

W. M. Raike, "Note on Bounding Moments of an Unknown Probability Mass Function," with M. Thomas, Transactions AIIE, 1974.

W. M. Raike, "Comments on Solving Generalized Geometry Program," Letter to Editor, Transactions AIIE, referred 1974.

R. R. Read, "A Personnel Development and Evaluation System," with R. Elster and G. Musgrave, OMEGA: The International Journal of Management Science, Oxford, England, Vol. 2, No. 2, June 1975 (Abstract).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

F. R. Richards, "Comments on the Distribution of Inventory Position in a Continuous Review (s,S) Inventory System, Operations Research, 1975.

F. R. Richards, "A Stochastic Model of a Repairable-Item Inventory System with Attrition and Random Lead Times," Operations Research, accepted.

N. F. Schneidewind, "High Density Mass Memories," with G. Syms, T. Grainger and R. Carden, EE/Systems Engineering Today, August 1973, pp. 47-51; Sept 1973, pp. 45-50; October 1973, pp. 39-42.

N. F. Schneidewind and T. F. Green, "Simulation of Error Detection in Computer Programs," Proceedings of the Simulation of Computer Systems, National Bureau of Standards and Association for Computing Machinery, August 1975.

N. F. Schneidewind, "Analysis of Computer Performance in a Multiprogrammed Environment," Proceedings of the Computer Performance Evaluation Users Group, September 1975.

N. F. Schneidewind, "Program Structure, Complexity and Error Characteristics," with T. F. Green, G. T. Howard & R. Pariseau, Proceedings of the Computer Software Engineering Conference, April 1976.

N. F. Schneidewind, "Validation Tests for a Software Error Simulation Model," Proceedings of the Summer Computer Simulation Conference, July 1976.

D. A. Schrady, Careers in Operations Research, Brochure published by Operations Research Society of America, September 1974.

J. Senger, "A Challenge from Behavioral Science: 'Can You Eliminate the Negative,'" Supervisory Management, March 1973.

J. Senger, "Seeing Eye to Eye: Practical Problems of Perception," Personnel Journal, Vol. 53, No. 10 (October 1974).

J. Senger, "Organizational Problem Solving and Creativity," Public Personnel Management, November-December 1974.

J. Senger, "Let's Hear it for the 'Cognitive Aspect'," The Teaching of Organization Behavior, Vol. 1, No. 2 (April 1975).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

J. Senger, "Need Structure Analysis of Organizational Policies," with R. Elster & W. H. Githens, Psychological Reports, Vol. 37, December 1975.

J. Senger, "Motivations and That Different Drummer," Supervisory Management (in print).

B. O. Shubert, "Testing a Simple Symmetric Hypothesis by a Finite-Memory Deterministic Algorithm," with C. M. Anderson, IEEE Trans. on Info. Theory, IT-19, No. 5, 1973.

B. O. Shubert, "Finite-Memory Classification of Bernoulli Sequences Using Reference Samples," IEEE Transactions on Information Theory, IT-20, No. 3, 1974.

B. O. Shubert, "A Flow-Graph Formula for the Stationary Distribution of a Markov Chain," IEEE Transactions on Systems, Man and Cybernetics, Vol. SMC-5, No. 5, 1975.

J. G. Taylor, "Comments on the 'Classical' Derivation by Taha and Curry of Optimality Conditions in Linear Programming," with W. Raike, Operations Research, 21 (1973).

J. G. Taylor, "A Squared-Variable Transformation Approach to Nonlinear Programming Optimality Conditions," Naval Research Logistics Quarterly, 20 (1973).

J. G. Taylor, "Target Selection in Lanchester Combat: Linear-Law Attrition Process," Naval Research Logistics Quarterly, 20 (1973).

J. G. Taylor, "On Continuous Time, Deterministic Inventory Models with Linear Production Rate Costs," Cahiers du Centre D'Etudes de Recherche Operationnelle, Vol. 15, No. 4, 1973.

J. G. Taylor, "Lanchester-Type Models of Warfare and Optimal Control," Naval Research Logistics Quarterly, 21 (1974).

J. G. Taylor, "Some Differential Games of Tactical Interest," Operations Research, 22 (1974).

J. G. Taylor, "Solving Lanchester-Type Equations for 'Modern Warfare' with Variable Coefficients," Operations Research, 22 (1974).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

J. G. Taylor, "On Boundary Conditions for Adjoint Variables in Problems with State Variable in Equality Constraints," IEEE Transactions on Automatic Control, Vol. AC-19 (1974).

J. G. Taylor, "Target Selection in Lanchester Combat: Heterogeneous Forces and Time-Dependent Attrition-Rate Coefficients," Naval Research Logistics Quarterly, Vol. 21 (1974).

J. G. Taylor, "Necessary Conditions of Optimality for a Differential Game with Bounded State Variables," IEEE Transactions on Automatic Control, AC-20 (1975).

J. G. Taylor, "On the Treatment of Force-Level Constraints in Time-Sequential Combat Problems," Naval Research Logistics Quarterly, 22 (1975).

J. G. Taylor, "A Tutorial on Lanchester-Type Models of Warfare," Proceedings of 35th Military Operations Research Symposium, 1975.

J. G. Taylor, "Canonical Methods in the Solution of Variable-Coefficient Lanchester-Type Equations of Modern Warfare," with G. Brown, Operations Research, 24 (1976).

J. G. Taylor, "On the Relationship Between the Force Ratio and the Instantaneous Casualty-Exchange Ratio for Some Lanchester-Type Models of Warfare," Naval Research Logistics Quarterly, 23 (1976).

K. Terasawa, "Optimal Replacement: An Extension to Consumer Durables," with D. Whipple, accepted for publication in The Economic Studies Quarterly, Vol. XXVII, No. 1, April 1976.

M. U. Thomas, "A Human Response Model of a Combined Manual and Decision Task," IEEE Transactions on Systems, Man, and Cybernetics, Vol. SMC-3 (September 1973).

M. U. Thomas, "Performance of a Combined Manual and Decision Task with Discrete Uncertainty," with D. Chaffin, A. W. Hancock, International Journal of Production Research, Vol. 12, No. 3 (1974).

M. U. Thomas, "Systems Analysis and Solid Waste Planning Discussion," Journal of Environmental Engineering, ASCE, Vol. 100 (EE-6), December 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

M. U. Thomas, "On Minimizing the Mean Detection Time to Failures Subject to Detection Error," Journal of Quality Technology, Vol. 7, No. 2, April 1975.

M. U. Thomas, "Some Mean First Passage Time Approximations for the Ornstein-Uhlenbeck Process," Journal of Applied Probability, Vol. 12, No. 3 (September 1975).

M. U. Thomas, "A Note on Bounding Moments of an Unknown Probability Mass Function," with W. M. Raike, AIIE Transactions, Vol. 8, No. 1 (March 1976).

M. U. Thomas, "An Infiltration Game with Time Dependent Payoff," with Y. Nisgav, Naval Research Logistics Quarterly, Vol. 23, No. 2 (June 1976).

A. Washburn, "Note on a Production Inefficiency Function," AIIE Transactions, September 1973.

A. Washburn, "Upper and Lower Bounds for a Pattern Bombing Problem," Naval Research Logistics Quarterly, Vol. 21, No. 4 (December 1974).

A. Washburn, "A Multiserver Queue with no Passing," JORSA, Vol. 22, No. 2 (March 1974).

A. Washburn, "Note on Integer Maximization of Unimodal Functions," Journal of the Operations Research Society of America, Vol. 23, No. 2 (March 1975).

D. Whipple, "A Generalized Theory of Job Search," Journal of Political Economy, September/October 1973.

D. Whipple, "A Voucher Plan for Financing Health Care Delivery," Socio-Economic Planning Science, November/December 1973.

D. Whipple, "Health Care as a Right: Its Economic Implications," Inquiry, Vol. XI (March 1974).

D. Whipple, "Who Should Pay for Common Access Facilities: A Comment," Public Finance, Vol. XXIX, No. 1 (1974).

D. Whipple, "The Perceived Quality of Health Care in the U.S. Military Delivery System," with Reuben Harris, Human Factors in Health Care, D. C. Heath, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

JOURNAL PUBLICATIONS (CONT)

D. Whipple, "Some Thoughts on the Structure of the Military Health Care Delivery System," Proceedings of the 34th Military Operations Research Society Meetings, 1975.

D. Whipple, "The Perceived Quality of Health Care and Use of Military Health Facilities," with Reuben Harris, U.S. Navy Medicine, September 1975.

D. Whipple, "Health Insurance and Moral Hazards: A Comment," Forthcoming in Journal of Economic Criticism.

D. Whipple, "Controlling Hospital Costs: An Index Approach," with Michael Block, Inquiry, March 1976.

D. Whipple, "Optimal Replacement: An Extension to Consumer Durables," with K. Terasawa, forthcoming in The Economic Studies Quarterly, 1976.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES

A. F. Andrus, "A GPSS Model: Submarine Detection and Trail," Technical Report NPS55As75061, June 1975.

J. K. Arima, "An Information Analysis of 2-, 3-, and 4-Word Verbal Discrimination Learning," with Francis D. Gray, Research in Education, April 1973, document # ED 070 524.

J. K. Arima, "Improvement of Small Arms Pointing Fire Using Bracketing Sights: A Field Experiment Program," with R. D. Read, NPS55Aa74111, November 1974.

J. K. Arima, "A Systems Analysis of Navy Recruiting," Technical Report, (NPR&DC).

J. K. Arima, "Organizational Effectiveness: Discussant," in Symposium Proceedings: Occupational Research and the Navy Prospectus 1980, Technical Report TR 74-14, Navy Personnel Research and Development Center, March 1974.

J. K. Arima, "Improvement of Small Arms Pointing Fire Using Bracketing Sights: A Field Experiment Program," Technical Report NPS55Aa74111, November 1974. Also published in Journal Supplement Abstract Service Catalog of Selected Documents in Psychology, 5 (1975).

D. R. Barr, "An Analysis of Adjustment Procedures for Grenade Launchers, NPS55Bn73041A, April 1973.

D. R. Barr, "Statistical Aspects of Lumpability Hypotheses for Markov Chains," with M. Thomas, Technical Report NPS55Bn55To73121A, December 1973.

D. R. Barr and M. Jordan, "A Power Distribution Model for Weapon Accuracy," Technical Report NPS55Bn74011, 1974.

D. R. Barr, "Two Sequential CEP Tests," Technical Report NPS55Bn74061, 1974.

D. R. Barr and T. Burnett, "A Sequential Median Test with Application to CEP Testing," Technical Report NPS55Bn-75071, July 1975.

D. R. Barr, "Utility Induced Subjective Probability," with F. Richards, Technical Report NPS55Bn75011, Jaunary 1975.

D. R. Barr, "A Radar Bombscoring Method," with T. Burnett and K. Keene, Technical Report NPS55Bn76031, March 1976.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

M. K. Block, "A Choice Theoretic Analysis of Criminal Deterrents," with R. C. Lind, Technical Paper #114, Graduate School of Business, Stanford University, October 1973.

M. K. Block, "Risk Aversion, Wealth Equivalents, and the Marginal Benefit from Increased Safety," with R. C. Lind, Technical Report NPS55Xb74051.

M. K. Block, "Cost Functions for Correctional Institutions: A Case Study," Commissioned MS, American Bar Association, September 1975.

G. H. Bradley, "A Constructive Theory and Applications for the Solution of Mixed Integre Systems of Linear Equations," Technical Report No. 11, Operations Research Department, Stanford University, March 1973, with Frederick S. Hillier.

G. G. Brown, "A Mathematical Theory of Variable Coefficient Lanchester Type Equations of 'Modern Warfare'," with J. Taylor, Technical Report NPS55Tw74111, December 1974.

G. G. Brown, "Numerical Performance of Matrix Inversion with Block Pivoting," Technical Report NPS55Zr75081, August 1975.

R. W. Butterworth, "A Simple Policy Planning Model for Determining Sea and Shore Tour Lengths," Naval Personnel Research & Development Center, San Diego, CA, TR74-2, September 1973.

R. W. Butterworth, "A Survey of Renewal Theory with Emphasis on Approximations, Bounds, and Applications," with K. T. Marshall, Technical Report NPS55Bd74051, May 1974.

R. W. Butterworth, "Clustering Analysis of the Enlisted Navy Ratings," Working Report Number 191, with P. Milch, August 1974.

R. W. Butterworth, "Clustering Navy Ratings by Loss Behavior," Technical Report NPS55Bd75062, June 1975.

R. W. Butterworth, "On Congestion in Outpatient Walk-In Clinics," Technical Report NPS55Bd75061, June 1975.

J. W. Creighton, "Design of an Operational Personnel Development and Evaluation System," with R. Elster, W. Githens, G. Musgrave, for NAVSUP and NAVCOMP, June 1973, Technical Report NPS55Gh73061.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

J. W. Creighton, "Planning for a Mine Force Organization," (Confidential) for COMINEWARFOR, April 1973.

J. W. Creighton, "NSAP Task Mine - Warfare Force Organization Study," (Confidential) for COMINEWARFOR, with J. Odle, C. Callahan, April 1973.

C. B. Derr, "Managing Organizational Conflict: When to Use Collaboration, Bargaining and Power Approaches," working paper for UCLA Management School.

C. B. Derr, "Major Causes of Organizational Conflict: Diagnosis for Action," working paper for UCLA Management School.

C. B. Derr, "Report on the Follow-up Training of the Boston-Harvard Summer Institute: The Staff Development Department," report to the U.S. Office of Education, June 1973.

C. B. Derr, "Building Collaborative Relationships: A Study of University-Urban School System Interactions," with A Demb, an unpublished research report for the Leadership Training Institute and the University Council for Educational Administration, Summer, 1974.

R. S. Elster, "Development of a Man-to-Man Rating Scale for Evaluating Performance," Technical Report NPS55Gh73021A, February 1973, with W. Githens.

R. S. Elster, "Responses of Military Reservists in Two Simulated Crises," Technical Report NPS55Ea74021A, February 1974.

R. S. Elster, "Predicting the Academic Performance of Graduate Students: A Review," with J. D. Senger, Technical Report NPS55Se74091A, September 1974.

R. S. Elster, "Design of an Operational Personnel Development and Evaluation System," with W. Githens, G. Musgrave, and J. Creighton, Technical Report NPS55Gh73061, June 1974.

R. S. Elster, "Design of Operational Career Ladders," with R. Read, W. Githens, G. Musgrave and J. Creighton, Technical Report NPS55Ea73061, June 1974.

R. S. Elster, "Design of an Operational Management Development Manual," with W. Githens, G. Musgrave, and J. Creighton, Technical Report NPS55Gh73062, June 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

R. S. Elster, "Design of an Operational Rating Manual," with W. Githens, G. Musgrave and J. W. Creighton, Technical Report NPS55Gh73063, June 1974.

R. S. Elster, "Design of an Operational Management by Objectives Manual," with G. Musgrave, J. Creighton, and W. Githens, Technical Report NPS55Mf73061, June 1974.

R. S. Elster, "Statistical Analysis of Personnel Data Using Factor Scoring, Cluster Analysis, and Multidimensional Scaling," with R. Read, G. Musgrave, J. Creighton, and W. Githens, Technical Report NPS55Rr73061, June 1974.

C. K. Eoyang, "Systems Analysis and the Dynamics of Manpower," Technical Report NPS55Eq75061, June 1975.

C. K. Eoyang, "Organizational Variety: A Theoretical Synthesis," NPS Technical Report, April 1976.

C. K. Eoyang, "An Organizational Test of Ashby's Law," NPS Technical Report, April 1976.

C. K. Eoyang, "A Comparative Study of Civilian and Military Project Managers," NPS Technical Report, March 1976, with P. Sushka.

J. D. Esary, "Multivariate Geometric Distributions Generated by a Cumulative Damage Process," Technical Report NPS55Ey-73041A, March 1973, with A. W. Marshall.

R. N. Forrest, "Some Comments on the Effectiveness of an Optical Ranging and Detection System for Submarine Search," Technical Report NPS55Fo74122, December 1974.

R. N. Forrest, "Comments on the Sylvania and ITORTS Proposals (U)," Technical Note, Confidential/NOFORN.

R. N. Forrest, "Submarine Search Models," Technical Report NPS55Fo74121, December 1974.

R. N. Forrest, "Some Notes on Search, Detection and Localization Modeling," Technical Report NPS55Fo75041, April 1975.

R. N. Forrest, "A Submarine Magnetic Anomaly Signal Model ith Programs for a Hewlett-Packard 65 Calculator," Technical Report NPS55Fo75101, October 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

R. N. Forrest, "A Magnetic Anomaly Signal Model with Programs for a Texas Instruments SR-52 Calculator," Technical Report NPS55Fo76021, February 1976.

D. P. Gaver, "A Model Relating Personnel Rotation Frequency to Operational Systems Readiness," Technical Report NPS-55Gv73071A, July 1973.

D. P. Gaver, "Analytical Models for Supplementing Ship Manning Simulations," Technical Report NPS55Gv73021A, February 1973.

D. P. Gaver, "Transitory Service Systems," with Lehoczky and Perias, Technical Report NPS55Gv73051A, May 1973.

D. P. Gaver, "Delays at a Facility with Demand from Many Distinct Sources," Technical Report NPS55Gv73081A, RAND Corp., Op 96, 2NSF), July 1973.

D. P. Gaver, "Sampling From the Negative Binomial Distribution Using Weibull Mixture," with G. Shedler; IBM Technical Report, June 1973.

D. P. Gaver, "Dynamic Surveillance Problems, with Application to SSBN Security," Technical Report NPS55Gv74121, December 1974.

D. P. Gaver, "Deriving and Fitting Models for Multiprogramming Computers--Application to Defense Communication Agency Test Data," Technical Report NPS55Gv74122, December 1974.

D. P. Gaver, "Statistical Approaches to Managing Manpower Data Bases," with P. A. W. Lewis, Technical Report NPS-55Gv55Lw74021, February 1974.

D. P. Gaver, "Dynamic Surveillance Problems," Technical Report NPS55Gv74101, October 1974.

D. P. Gaver, "The Construction and Fitting of Some Simple Probabilistic Computer Models," Technical Report NPS55Gv-75011, January 1975.

D. P. Gaver, "Multitype Multiprogramming: Probability Models and Numerical Procedures," with G. Humfeld, Technical Report NPS55Gv75101, October 1975. To appear in the Proceedings of the International Symposium on Computer Systems Modeling, Measurements and Evaluation, Harvard University, March 1976.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

D. P. Gaver, "Random Record Models," Technical Report NPS-55Gv75102. To appear in the Journal of Applied Probability. Presented at the Institute of Math, Statistics Meeting, Santa Barbara, CA, March 1976.

D. P. Gaver, "Gaussian Approximations to Service Problems: A Communication System Example," with J. Lehoczky, Technical Report NPS55Gv75061, June 1975. Accepted by Journal of Applied Probability in revised form.

D. P. Gaver, "Exploratory Analysis of Access Path Length Data for an IMS Installation," with S. Lavenberg & T. Price, IBM Research Report # 1736, February 27, 1976. Submitted to IBM Journal of Research.

W. C. Giauque, "Application of Multidimensional Utility Theory in Determining Optimal Test-Treatment Strategies for Streptococcal Sore Throat and Rheumatic Fever," with T. C. Peebles, Technical Report NPS55Gi74101, October 1974.

W. C. Giauque, "Decision-Making in the Naval Education and Training System," Technical Report, July 1975.

W. C. Giauque, "Decision Analysis and Its Applicator to the Naval Education and Training Command," TAEG Report #27, July 1975.

W. C. Giauque, "A Multiattribute Utility Approach to Measure Quality of Health Care," Technical Report.

W. C. Giauque, "Conceptual Phase Requirements Determination Methodology and Its Application to the Advanced Naval Gun System," with M. B. Kline & J. P. Hynes, Technical Report NPS55Kx75121, December 1975.

W. J. Haga, "The Impact of the University on Its Environment: The Regional Role," with G. Bugliarello, H. Simon, et al., Technical Report of the College of Engineering, University of Illinois at Chicago Circle, 1973.

W. J. Haga and L. R. Moore III, "Probabilistic Baseline Generator for Role Differentiation in Formal Organizations," Technical Report NPS53M175021, February 1975.

J. K. Hartman, "Heuristics for Global Optimization of Constrained Nonlinear Programs," Technical Report NPS55Hh-74051, May 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

J. K. Hartman, "Construction Workload and Resource Allocations Study: Progress Report," Working Paper, June 1974, with F. R. Richards and M. U. Thomas.

J. K. Hartman, "Optimal Ship Routing," Survey written for NROTC Course in Operations Analysis, July 1974.

J. K. Hartman, "Extension of the Grid Linearization Algorithm for Convex Optimization to NonConvex Nonlinear Programs," Technical Report NPS55Hh75071, July 1975.

J. K. Hartman, "Thermoeconomic Analysis of Vapor Power Systems," with F. L. Sheppard, Jr., M. D. Kelleiter and R. H. Nunn, Naval Postgraduate School Technical Report NPS59Nn75062A, June 1975.

J. K. Hartman, "ε-Optimality for a Global Optimization Algorithm," Technical Report NPS55Hh75121, December 1975.

J. K. Hartman, "A Branch & Bound Method for Nonseparable Nonconvex Optimization," Technical Report NPS55Hh75102, October 1975.

G. T. Howard, "An Allocation Model for Attacking Defended Target Complexes with Imperfect Attackers," Technical Report NPS55Hk73081A, August 1973.

G. T. Howard, "Analysis of Demand Access Communication System with Priority Classes," Technical Report NPS55Hk74121.

G. T. Howard, "Allocating Resources to Maximize Flow in a Mixed Series-Parallel Network," Technical Report NPS-55Hk74122.

G. T. Howard, "Structure and Error Detection in Computer Software," with G. H. Bradley, T. Green & N. F. Schneidewind, Technical Report NPS55Ss75021, February 1975.

G. T. Howard, "System Test Methodology," with G. H. Bradley, T. Green, N. F. Schneidewind & G. Montgomery, Technical Reports NPS55Ss75072A & NPS55Ss75072B, September 1975.

J. P. Hynes, "Container Stuffing Simulation Model (SIMCON)," Technical Report NPS55Hj64101, November 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

J. P. Hynes, "A Revenue and Expense Apportionment Concept for the Analysis of Internal Returns on Investment (The Simple Case), Technical Report NPS55Hj75041, April 1975.

J. A. Jolly, "Technology Transfer and Utilization Methodology: Further Analysis of the Linder Concept," with J. W. Creighton, Technical Report NPS55Jo74061, June 1974.

J. A. Jolly, "Naval Civil Engineering Command Field Engineering Support Office (FESO) Project Effectiveness Profile: Summary and Analysis of the 1973 Results," with J. W. Creighton, J. H. Stoke and G. W. Macpherson, Technical Report NPS55-Jo74091, September 1974.

J. A. Jolly and J. W. Creighton, "Technology Transfer and Utilization Methodology: Further Analysis of the Linker Concept," Technical Report NPS55Jo74061, 1974.

J. A. Jolly and J. W. Creighton, "Technology Transfer and Utilization: A Longitudinal Study Using Benefit Analysis to Measure the Results from an R&D Laboratory," Technical Report NPS55Jo75033, 1975.

C. R. Jones and M. G. Sovereign, "Escalation Provisions for Navy Contracts: Issues and Choices," Technical Report NPS55Zo75051, May 1975.

C. R. Jones, "A Representative Defense Contractor: Model Specification I," Technical Report NPS55Js75061, June 1975.

C. R. Jones, "Life Cycle Costing of an Emerging Technology: The Fiber Optics Case," with R. L. Johnson, E. W. Kublock, J. M. McGrath & K. R. Michna, Technical Report NPS55Js-76031, March 1976.

M. B. Kline, "Conceptual Phase Requirements Determination Methodology and Its Application to the Advanced Naval Gun System," with W. C. Giauque & J. P. Hynes, Technical Report NPS55Kx75121, December 1975.

P. A. W. Lewis, "Naval Postgraduate School Random Number Generator Package LLRANDOM," with G. P. Learmonth, Technical Report NPS55Lw73061A, June 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

P. A. W. Lewis and G. S. Shedler, "Simulation of Non-Homogeneous Poisson Processes with Log-linear Rate Function," Technical Report NPS55Lw75061, June 1975. Accepted for Biometrika.

P. A. W. Lewis and A. J. Laurance, "A Moving Average Exponential Point Process (EMA1)," Technical Report NPS55Lw-75061, June 1975, Submitted to JAP.

P. A. W. Lewis, L. H. Liu, D. W. Robinson, and M. Rosenblatt, "Empirical Sampling Study of a Goodness of Fit Statistic for Density Function Estimation," Technical Report NPS-55Lw75031. To appear in Proceedings Conference on Multivariate Analysis, 1975.

P. A. W. Lewis and D. W. Robinson, "Generating Gamma and Cauchy Random Variables: An Extension to the Naval Postgraduate School Random Number Package," Technical Report NPS72Ro75041, April 1975.

K. T. Marshall, "A Manpower and Personnel Data Base in the Navy and Marine Corps," Technical Report NPS55Mt73021A, February 1973.

K. T. Marshall, "A Manpower and Personnel Research Data Base Feasibility Study," Technical Report NPS55Mt73121, December 1973.

K. T. Marshall, "Longitudinal Manpower Planning Models," with R. C. Grinold and R. M. Oliver, Report #ORC73-15, Operations Research Center, Unversity of California, Berkeley, 1973. To appear in Naval Research Logistics Quarterly, June 1976.

K. T. Marshall, "A Survey of Renewal Theory with Emphasis on Approximations, Bounds, and Applications," with R. W. Butterworth, Technical Report NPS55Bd74051, May 1974.

K. T. Marshall, "The Determination of Navy Graduate School Quotas," Technical Report NPS55Mt74121, December 1974.

K. T. Marshall and W. J. Hayne, "Two-Characteristic Markov-Type Manpower Flow Models," Technical Report NPS55Mt74071, July 1974. To appear in Naval Research Logistics Quarterly.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

K. T. Marshall and R. C. Grinold, "Manpower Planning Models-I Basic Concepts," Technical Report NPS55Mt74122, December 1974.

K. T. Marshall and R. C. Grinold, "Manpower Planning Models-II Cross-Sectional Models," Technical Report NPS55Mt75021, March 1975.

K. T. Marshall, "Manpower Planning Models-III Longitudinal Models," with R. C. Grinold, Technical Report NPS55Mt75081, August 1975.

K. T. Marshall, "Manpower Planning Models-IV Synthesis of Cross-Sectional and Longitudinal Models," with R. C. Grinold, Technical Report NPS55Mt75111, November 1975.

K. T. Marshall, "Manpower Planning Models-V Optimization Models," with R. C. Grinold, Technical Report NPS55Mt75101, October 1975.

A. W. McMasters, "A Statistical Fire Spread Model for Forest Fires," Technical Report #14, University of California, Riverside, April 1973.

A. W. McMasters, "Individual Statistical Fire Spread Models for Different Fuel Types," Technical Report No. 18, University of California, Riverside, February 1974.

A. W. McMasters, "Active Wildland Fire Spread During a Burning Period," Technical Report No. 19, February 1974, University of California, Riverside.

P. R. Milch, "Clustering Navy Ratings by Loss Behavior," with R. W. Butterworth, Technical Report NPS55Bd75062, June 1975.

D. E. Neil, "An Investigation of the Relationship Between Induced Fatigue and Heartrate," with T. R. Johns, Technical Report of U.N.S. Highway Safety Research Center, Chapel Hill, N.C., December 1973.

D. E. Neil, "Chapter on Applied Ergonomics," NSF Report on the Analysis and Evaluation of Methods to Reduce Occupational Accidents and Illness," with C. Grether and R. G. Pearson, September 1974.

S. H. Parry, "Studies of Mobility, Agility and Survivability in the Land Combat Environment," Technical Report NPS55Py-75091, September 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

G. K. Poock, "The Poock-Sparks Techniques of Motion Picture Kirlian Photography," with P. Sparks, Technical Report, Working Paper #1, September 1973.

G. K. Poock, "Underwater Display Visibility as Influenced by Turbidity Viewing Distance, and Color Illumination," with E. Ruckner and A. Kritz, Naval Electronics Laboratory Center, Technical Report TN2386, May 1973.

G. K. Poock, "Human Factors and Safety Problems on Navy Oil Skimmers," Technical Report NPS55Pk75011, January 1975.

W. M. Raike, "A Critical Summary of a Reliability Cost Model and Possible Extensions for Partial Warranty Cost Evaluation," NPS (Internal) Report, June 1974.

R. R. Read, "Design of an Operational Personnel Development and Evaluation System," with G. Musgrave, et al., Technical Report NPS55Re73061A, June 1973.

R. R. Read, "Statistical Analysis of Personnel Data Using Factor Scoring, Cluster Analysis, and Multidimensional Scaling," with R. Elster, G. Musgrave, J. Creighton, and W. Githens, Technical Report NPS55Re73061, June 1963.

R. R. Read, "Design of Operational Career Ladders," with R. Elster, W. Githens, G. Musgrave, and J. Creighton (Type A), Technical Report NPS55Ea73061A.

F. R. Richards, "Analytical Models for SERVMART Inventory Control," Technical Report NPS55Rh73061A, with LCDR L. R. Atkinson, June 1973.

F. R. Richards, "A Look at Demand Forecasting in the Navy," Technical Report NPS55Rh73121A, December 1973.

F. R. Richards, "On Choosing a Family of Probability Distributions for Lead Time Demand," Technical Report NPS55Rh74021, February 1974, with M. U. Thomas.

F. R. Richards, "Computer Software: Testing Reliability Models, and Quality Assurance," Technical Report NPS55-Rh74071A, July 1974.

N. F. Schneidewind, "Analysis of Error Processes in Computer Software," Technical Report NPS55Ss74071, July 1974.

N. F. Schneidewind, "Analysis of Computer Performance in Multiprogrammed Processing," Technical Report NPS55Ss7505, May 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

N. F. Schneidewind, G. H. Bradley, G. T. Howard, G. W. Montgomery, and T. F. Green, "Systems Test Methodology," Vols. I and II, Technical Report NPS55Ss75072A,B, July 1975.

N. F. Schneidewind, "Structure and Error Detection in Computer Software," with G. H. Bradley, T. F. Green and G. T. Howard, Technical Report NPS55Ss75021, February 1975.

J. Senger, "Predicting the Academic Performance of Graduate Students: A Review," Technical Report NPS55Se74091, September 1974, with R. Elster.

J. D. Senger, "A Comparison of Predictions of Graduate Student Performance: Is It All Worth the Bother?" Technical Report NPS55Se75061, June 1975, with Elster and Richard.

B. O. Shubert, "The Omega-Value of a 2 x 2 Matrix-Differential Game," with A. Washburn, Technical Report NPS55SyWs3101A, October 1973.

B. O. Shubert, "Evaluation of Certain Probabilities Associated With a Class of Markov Chains," Technical Report NPS55Sy-73111A, November 1973.

B. O. Shubert, "On the Omega-Value of a Matrix," Technical Report NPS55Sy74021, February 1974.

B. O. Shubert, "Equilibrium Equations and a Computational Method for Matrix Differential Games," with A. R. Washburn, Technical Report NPS55Ws74061, June 1974.

B. O. Shubert, "Some Remarks on the Finite-Memory K-Hypotheses Problems," Technical Report NPS55Sy74141, October 1974.

B. O. Shubert, "Modeling a Random Search," Technical Report NPS55Sy75071, July 1975.

M. G. Sovereign, "Parametric Cost Estimating with Applications to Sonar Technology," with Bruce Miller, Technical Report NPS55Zo73091A, September 1973.

M. G. Sovereign, "Escalation Provisions for Navy Contracts: Issues and Choices," with Carl R. Jones, Technical Report NPS55Zo75051, May 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

J. G. Taylor, "Application of Differential Games to Problems of Military Conflict: Tactical Allocation Problems - Part II, Technical Report NPS55Tw72111A, November 1972. Not released until 1973 and not in last year's activity report.

J. G. Taylor, "Survey on the Optimal Control of Lanchester-Type Attrition Processes," Technical Report NPS55Tw74031, March 1974.

J. G. Taylor, "Application of Differential Games to Problems of Military Conflict: Tactical Allocation Problems - Part III," Technical Report NPS55Tw74051, May 1974.

J. G. Taylor, "A Mathematical Theory for Variable-Coefficient Lanchester-Type Equations of 'Modern Warfare'," Technical Report NPS55Tw74111, November 1974, with G. Brown.

J. G. Taylor, "Appendices C and D of 'Application of Differential Games to Problems of Military Conflict: Tactical Allocation Problems - Part III," Technical Report NPS55Tw-74112, November 1974.

J. G. Taylor and G. G. Brown, "A Mathematical Theory for Variable-Coefficient Lanchester-Type Equations of 'Modern Warfare'," Technical Report NPS55Tw74111, November 1974.

K. Terasawa, "Adaptive Pricing Policy," Technical Report NPS-55Tc74091, September 1974.

K. Terasawa, "Optimal Replacement: An Extension to Consumer Durables," with D. Whipple, Technical Report NPS55Tc-74081, August 1974.

K. Terasawa, "On the Comparative Costing of Military vs Civilian Modes of Health Care Delivery," with D. Whipple, Technical Report NPS55WpTc75111, November 1975.

K. Terasawa, "Generating Quantitative Data Requirements for Pricing of Publicly Provided Goods and Services," with D. Whipple, Technical Report NPS..... forthcoming.

M. U. Thomas, "Management of a Community Hospital Blood Bank - A Description Model," with E. A. Brill, Technical Report NPS55Zg72122A, March 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

M. U. Thomas, "Statistical Aspects of Lumpability Hypotheses for Markov Chains," with D. Barr, Technical Report NPS-55Bn55To73121A, December 1973.

M. U. Thomas, "Some Feasibility Considerations for Selecting and Maintaining Medical Diagnostic Systems," with E. A. Brill, Technical Report NPS55To73122A.

M. U. Thomas, "On Choosing a Family of Probability Distributions for Lead Time Demand," with F. R. Richards, Technical Report NPS55Rh74021, February 1974.

J. B. Tysver, "Allocation of Imperfect Weapons for Attack and Defnese of Point Targets," Technical Report NPS55Ty74031, March 1974.

J. B. Tysver, "Submarine and Missile Requirements as a Function of the Number of Missiles per Submarine Neutralization Probability," Technical Report NPS55Ty75071, June 1975.

A. Washburn, "The Ω-value of a 2 x 2 Matrix Differential Game," with B. Shubert, Technical Report NPS55SyWs-730101A, October 1973.

A. Washburn, "A Bi-Modal Inventory Study with Random Lead Times," Technical Report NPS55Ws73091A, September 1973.

A. Washburn, "Equilibrium Equations and a Computation Method for Matrix Differential Games," with B. Shubert, Technical Report NPS55Ws74061, June 1974.

A. Washburn, "An ASW Application of Optimal Stopping," Technical Report NPS55Ws74071, July 1974.

A. Washburn and B. O. Shubert, "Equilibrium Equations and a Computation Method for Matrix Differential Games (MDG)," Technical Report NPS55Ws74061, June 1974.

A. Washburn, "An ASW Application of Optimal Stopping," Technical Report NPS55Ws74081, July 1975.

A. Washburn, "Simulation of Kalman Filters Used for Long Baseline Underwater Tracking," Technical Report NPS55Ws-75101, October 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

A. Washburn, "Patrolling a Channel Revisited," Technical Report NPS55Ws75121, January 1976.

R. A. Weitzman, "Pattern Analysis: Method and Applications," Technical Report NPS55Wz73091A, September 1973.

R. A. Weitzman, "Symmetric Tests," Technical Report NPS55Wz-74121, December 1974.

D. Whipple, "Comprehensive Prepaid Health Care: A Better Way," Consumer's Health Protection Act, California Senate Office of Research, 1973.

D. Whipple, "On the Existence of Relative Moral Hazard," with E. Brill and D. Walsh, Technical Report NPS55Wp-73071A, July 1973.

D. Whipple, "Cooperative Management of Limited Natural Resources," with R. Cummings, Operations Research Group Series, NPS, October 1973.

D. Whipple, "On the Optimal Mix of Health and Income Insurance," Operations Research Group Series, NPS, September 1973.

D. Whipple, "A Note on Discrimination in Job Search," Working Paper in Economics, NPGS, 1974.

D. Whipple, "The Use of Operations Research to Generate Alternative Health Plan Structures," with A. Carstens, Operations Research Group paper, NPS, April 1974.

D. Whipple, "An Algorithm for Determining the Population Eligible to Use Military Health Care Facilities," with J. Norton, Technical Report NPS55Wp74011, January 1974.

D. Whipple, "Optimal Replacement: An Extension to Consumer Durables," with K. Terasawa, Technical Report NPS55Tc-74081, August 1974.

D. Whipple, "Preliminary Evaluation of Implementation Problems, Roles, and Task Assignments of the Planning, Programming and Analysis Directorate--BUMED," NPS, BUMED Study Group Working paper No. 1, March 1975.

D. Whipple, "Generating Quantitative Data Requirements For Pricing Publicly Provided Goods and Services, with K. Terasawa, Technical Report NPS55Wp75071, August 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

TECHNICAL REPORTS AND NOTES (CONT)

D. Whipple and L. Maassen, "The CHAMPUS Budgeting and Programming Process," Technical Report NPS55Wp75092, August 1975.

D. Whipple and L. Maassen, "A History of Military Dependent Medical Care Programs," Technical Report NPS55Wp75081, August 1975.

D. Whipple and L. Maassen, "CHAMPUS Organizational Structure and Operations Description," Technical Report NPS55Wp-75091, August 1975.

D. Whipple, "An Integrated Production Function for a Military HMO," with Peter Van Winkle, Technical Report NPS55Wp75071, July 1975.

D. Whipple, "On the Comparative Costing of Military vs Civilian Modes of Health Care Delivery," with K. Terasawa, Technical Report NPS55WpTc75111, November 1975.

P. W. Zehna and C. F. Taylor, Jr., "Comparing Inventory Demand Forecasts," Technical Report NPS55Ze75051, May 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

THESES DIRECTED

J. B. Best and W. J. Wiley, "U. S. Navy Recruiter Attributes and Attitudes: A Survey Analysis," Master's Thesis, June 1974, (Advisor: J. K. Arima).

R. D. Read, "Field Test of An Experimental Bracketing Sight for the 12-Gage Riot Shotgun," Master's Thesis, September 1974, (Advisor: J. K. Arima).

J. W. Corsey, Jr., "An Analysis of Enlisted Recruit Processing Flows," Master's Thesis, March 1975, (Advisor: J. K. Arima).

K. Keene, "Radar Bomb Scoring with Computer Controlled Bombing Systems," Master's Thesis, September 1974, (Advisor: D. R. Barr).

M. Jordan, "Methods and Models for Estimating the Accuracy of Air-to-Surface Weapon Delivery," Master's Thesis, March 1973, (Advisor: D. R. Barr).

Y. P. Cheong, "Formulation and Solution of Network Models," Master's Thesis, September 1975, (Advisor: G. H. Bradley).

Y. P. Cheong, "Formulation and Solution of Network Models," Master's Thesis, using GNET, September 1975, (Advisor: G. Brown).

S. J. Lee, "Disaggregation Techniques for Large Scale Programming," Ph.D Dissertation using GNET, UCLA, 1975, (Advisor: G. Brown).

D. Van Asdlen and Leonard Wahlig, "A Numerical Solution for Time Dependent, Multi-Channel Queues and an Application to the Acute Minor Illness Clinic, Silas B. Hays Hospital, Fort Ord, California," Master's Thesis, 1974, (Advisor: R. W. Butterworth).

B. Culmor, "A Simulation of the AMIC System," (Title Approximate), Master's Thesis, 1974, (Advisor: R. W. Butterworth).

A. R. Walker, "An Analysis of the Naval Personnel Pay Predictor (Enlisted Model) A Basic Pay Projection Model," Master's Thesis, September 1975, (Advisor: R. W. Butterworth).

H. Ziehms, "Reliability Analysis of Phased Missions," Doctoral Dissertation, December 1974, (Advisor: J. D. Esary).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

THESES DIRECTED (CONT)

D. L. Peck, "Verification of the Exponential Approximation of First Passage Times in a Birth/Death Model for Dynamic Surveillance in ASW," Master's Thesis, March 1975, (Advisor: R. N. Forrest).

C. Perrin, "The Influence of Manpower Upon a Destroyer's Communications Department System Availability," Master's Thesis, September 1975, (Advisor: D. P. Gaver).

R. F. Kapernick, "Medical Decision Analysis: An Application in Hypertension," Master's Thesis, March 1975, (Advisor: W. C. Giauque).

E. Moore, Jr., "Structural Evolution: the Effect of Organization Size on Complexity Across Time," Master's Thesis, June 1974, (Advisor: W. J. Haga).

R. H. Spencer, Jr., "Time Series Test of a Harmonic Series Model of Organization Differentiation," Master's Thesis, March 1975, (Advisor: W. J. Haga).

S. R. Alexander, "The Structural Evolution of Naval Air Squadrons," Master's Thesis, March 1975, (Advisor: W. J. Haga).

M. Tanner, "Structural Evolution of a Procurement Command," Master's Thesis, March 1975, (Advisor: W. J. Haga).

R. L. Chappell, "Time Series Application of a Percentile Role Differentiation Indicator," Master's Thesis, March 1975, (Advisor: W. J. Haga).

R. D. Parrish and D. G. Knappe, "Specifications as a Barrier to the Transfer and Utilization of New Technology into Navy Construction: A Critical Review," Thesis Report NPS55Jo75032, 1975, (Advisors: J. A. Jolly, J. W. Creighton).

E. H. Tempest and L. A. Van Roy, Jr., "The Power Line Disturbance Monitor: A Cast Study of the Navy's Continuing Efforts in the Field of Technology Transfer," Thesis Report NPS55Jo75031, 1975, (Advisors: J. A. Jolly, J. W. Creighton).

C. R. Fontz and M. P. Shoemaker, "Technology Transfer as Applied to Chief Radiomen in the U. S. Navy and Compared to Naval Officers of the Civil Engineering Corps," Thesis Report NPS55Jo75034, 1975, (Advisors: J. A. Jolly, J. W. Creighton).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

THESES DIRECTED (CONT)

D. H. Vigrass, "Overhead of Newport News Shipbuilding and Dry Dock Company," Master's Thesis, March 1975, (Advisor: C. R. Jones).

D. Clark, "An Integrated Model of a Representative Defense Contractor," Master's Thesis, March 1975, (Advisor: C. R. Jones).

L. Garcia and J. Ward, "The United States Shipbuilding Industry: Structure, Conduct and Performance," Master's Thesis, March 1975, (Advisor: C. R. Jones).

D. A. Yatras, "A Generalized Approach for Evaluation Logistics Strategies During Advance Procurement Planning," Master's Thesis, March 1975, (Advisor: R. R. Judson).

D. J. Allen, "Application of Reliability Improvement Warranty (RIW) to DOD Procurements," Master's Thesis, March 1975, (Advisor: R. R. Judson).

R. L. Noble, "Armed Services Board of Contract-Appeals and Comptroller General," Master's Thesis, March 1975, (Advisor: R. R. Judson).

L. Maassen, "The Civilian Health and Medical Programs for Uniformed Services (CHAMPUS)," Master's Thesis, June 1973, (Advisors: M. G. Sovereign, R. Whipple, K. Block).

P. Johnson, "Physician Supply: A Review of the Literature and An Analysis of Physician Supply Functions," Master's Thesis, September 1974, (Advisors: M. G. Sovereign, R. Whipple, K. Block).

W. Mackey and R. Without, "Physician Supply: An Econometric Approach," Master's Thesis, March 1975, (Advisors: M. G. Sovereign, R. Whipple, K. Block).

L. Pigue, "A Proposed Target Acquisition and Information Model," Master's Thesis, 1974, (Advisor: J. G. Taylor).

W. Hanna, "Further Comparison of Stochastic and Deterministic Models for the Optimal Control of a Lanchester-Type Attrition Process," Master's Thesis, 1974, (Advisor: J. G. Taylor).

F. Hartman, "An Investigation of Field Artillery Techniques and Fire Support Decisions," Master's Thesis, 1974, (Advisor: J. G. Taylor).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

THESES DIRECTED (CONT)

R. Hill, "A Further Examination of Optimal Fire Support Strategies," Master's Thesis, 1974, (Advisor: J. G. Taylor).

R. Adkins, "Analysis of Unit Breakpoints in Land Combat," Master's Thesis, 1975, (Advisor: J. G. Taylor).

F. G. Zophy, "Methodology for the Evaluation of Air Defense System Effectiveness," Master's Thesis, 1975, (Advisor: J. G. Taylor).

M. Oh, "Optimal Time-Sequential Distribution of Supporting Fire Against Two Enemy Ground Units," Master's Thesis, 1974, (Advisors: J. G. Taylor and F. Faulkner).

J. Antonelli, "Updating the Navy Environmental Protection Data Base to Incorporate Oil Spill Clean-Up Performance," Master's Thesis, Published also as Technical Report NPS55To75061, June 1975, (Advisor: M. U. Thomas).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

BOOKS

M. K. Block, Programmed Guide and Workbook in Economics, with H. G. Demmert, Prentice-Hall, 1974.

M. K. Block, Student Workbook Bach Economics 8/E, with H. G. Demmert, Prentice-Hall, June 1974.

G. G. Brown, GNET, A Primal Network Code, Copyright 1975, with G. Bradley,

C. B. Derr, Organization Development in Urban School Systems, Sage Publications, C. Brooklyn Derr, ed., 1974.

J. M. Fremgen, Accounting for Managerial Analysis (3rd Edition), Richard D. Irwin, Inc., 1976.

D. P. Gaver, Programming and Probability Models in Operations Research, with G. L. Thompson, Brooks-Cole, 683, May 1973.

D. P. Gaver, Simulation Theory, Chapter 7 in Handbook on Operations Research, published by McGraw-Hill, 1975.

W. J. Haga, "Who Goes to Engineering School? Who Graduates? A Cohort Analysis," in George Bugliareelo, et al., (eds.), The Regional Role of Engineering Colleges, Elmsford, NY: Pergamon Press, 1974.

J. A. Jolly, Communications Concepts in Management, The Lansford Publishing Co., San Jose, 1973.

H. Larson, Introduction to the Theory of Statistics, John Wiley & Sons, Inc., New York, 1973.

H. Larson, Introduction to Probability Theory and Statistical Inference, 2nd Ed., John-Wiley, 1974, 430 pp.

H. Larson, Introduction to Probability Theory and Statistical Inference, 2nd Ed., Wiley International Edition, 1974.

H. Larson, Statistics: An Introduction, John Wiley, 408 pp. 1975.

P. A. W. Lewis, The Fast Fourier Transform and Spectral Analysis Statistical Methods for Digital Computers, Ch. 13, ed. Enslein, Ralston and Wilf; Wiley, New York, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF OPERATIONS RESEARCH & ADMINISTRATIVE SCIENCES

BOOKS (CONT)

R. A. McGonigal, Guidelines for U. S. Navy Overseas Diplomacy, (NAVPERS 15246), U. S. Bureau of Naval Personnel (1973), 148 p.

R. A. McGonigal, Guidelines for U. S. Navy Overseas Diplomacy, (NAVPERS 15247), U. S. Bureau of Naval Personnel (1973), 120 p.

R. A. McGonigal, Guidelines for U. S. Navy Overseas Diplomacy, (NAVPERS 15248), U. S. Bureau of Naval Personnel (1973), 212 p.

R. A. McGonigal, Civilian-Military Racism in the Seventies: The Challenge of Reducing Cultural Differences Through Planned Change (Chapter 7), in Lovell and Kronenberg: New Civilian-Military Relations, Transaction Books (1974).

M. G. Sovereign, Quantitative Models for Production Management, with H. Zimmermann, Prentice-Hall, 1974.

R. A. Weitzman, Statistics: Why and How - A Textbook for Psychologists, McGraw-Hill, 1975.

P. W. Zehna, Introductory Statistics, Prindle, Weber, and Schmidt, Inc., June 1974, 470 pages.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

CONFERENCE PRESENTATIONS

F. R. Buskirk, "Elastic Electron-Deuteron Scattering Measurements and the Neutron Charge Form Factor at Very Low Momentum Transfer," with E. B. Dally and others, International Conference on Photonuclear Reactions and Applications, Asilomar, 1973. Proceedings, 8A11S-1 (1973).

F. R. Buskirk, "Electroexcitation of the El and E2 and A Magnetic Giant Resonance in Heavy Nuclei," with others, International Conference on Photonuclear Reactions and Applications, Asilomar, 1973, Proceedings.

F. R. Buskirk, "Elastic Electron-Deuteron Scattering," with others, Proceedings of the International Conference on Nuclear Physics, Munich, 1973.

F. R. Buskirk, R. Pitthan, E. B. Dally, J. N. Dyer, X. K. Maruyama, "Evidence for the Isoscalar Monopole and the Electric Dipole Spin Flip Resonance in Heavy Nuclei," presented at the International Conference on Nuclear Structure and Spectroscopy, Amsterdam, 1974 and published in the Proceedings, II (1974).

F. R. Buskirk,E. B. Dally, K. P. Ferlic, X. K. Maruyama, R. D. Waddell, R. Pitthan, "Evidence for the Giant Dipole Electric Spin Flip Resonance from (e, e^1) on ^{197}Au," paper presented before the American Physical Society and the abstract published in Bulletin, 1974.

F. R. Buskirk, "Electroexcitation of Multipolarities 0, 1, 2 and 3, in the Giant Resonance Region of Heavy Nuclei," invited talk Bulletin of American Physical Society, 20 (1975).

F. R. Buskirk, E. B. Dally, G. L. Moore, J. N. Dyer, X. K. Maruyama and R. Pitthan, "Electroexcitation of ^{165}Ho in the Giant Resonance Region," presented before the American Physical Society and the abstract published in the Bulletin, 20, (1975).

F. R. Buskirk, "Giant Resonances in Heavy Nuclei Measured by Inelastic Electron Scattering," invited talk, American Physical Society, Anaheim meeting; Bulletin of the American Physical Society, 1975.

A. W. Cooper, "Pressure Dependence of Spontaneous Magnetic Fields in a Lawer-Produced Plasma," Proceedings of the 11th International Conference on Phenomena in Ionized Gases, Prague, 1973.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

CONFERENCE PRESENTATIONS (cont'd)

A. W. Cooper, "Pressure Dependence of Spontaneous Magnetic Fields in a Laser-Produced Plasma," with F. Schwirzke and R. S. Bird, 1973 Annual Meeting of the Division of Plasma Physics of the American Physical Society, Philadelphia, 1973. Bulletin of the American Physics Society, 18, (1973).

A. W. Cooper, F. Schwirzke, K. M. Brooks, "Time Development and Symmetry of a Laser Produced Plasma Plume on a Solid Target," American Physical Society Division of Plasma Physics, 1975, St. Petersburg, FL. Abstract published in Bulletin of the American Physical Society, 11, 20, 10, 1266 (October 1975).

A. W. Cooper, H. Brinkschulte, M. Hashmi, "Laser Induced Desorption of Gas from Metallic Surfaces," Second International Conference on Plasma Science, 1975, Ann Arbor, Michigan. IEEE Conference Record, 75CH0987-8 NPS, p. 121 (1975).

A. B. Coppens, "A Semi-Empirical, Nonlinear Wave Equation for Standing Waves in Cavities," with C. Lana, 83rd Meeting of the Acoustical Society of America, Boston, 1973. Journal of Acoustic Society of America, 54, (1973).

A. B. Coppens, "Finite Amplitude Standing Waves in Rectangular Rigid-Walled Cavities," with J. V. Sanders, 1973 Symposium on Finite-Amplitude Wave Effects in Fluids, Technical Univ. of Denmark, 1973, Programme and Summaries, 1.8 (1973).

E. C. Crittenden, A. W. Cooper and A. F. Schroeder, "Height Dependence of Optical Scintillation Over the Ocean," presented at the Topical Meeting on Optical Propagation Through Turbulence, Colorado, 1974, published in the Digest of Technical Papers by the Optical Society of America, 1974.

E. B. Dally, "Deuteron Models for Photodisintegration from Electron Scattering," International Conference on Photonuclear Reactions and Applications, Asilomar, 1973. Proceedings, 1, (1973).

E. B. Dally with V. D. Apokin and others, "Small Angle π-P Elastic Scattering Measurements," Proceedings XVIIth International Conference on High Energy, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

CONFERENCE PRESENTATIONS (cont'd)

D. E. Harrison, "Simulation of Inert Gas Interstitial Atoms in Tungsten," with others, Applications of Ion Beams to Metals, Albuquerque, 1973.

D. E. Harrison, C. B. Delaplain, "Computer Simulation of Multimer Production," presented at the Sixth International Conference on Atomic Collisions in Solids, Amsterdam, 1975.

D. E. Harrison, "Fundamentals of Ion-Surface Interactions," presented before the National Science Foundation Seminar on Quantitative Techniques in Secondary Ion Mass Spectrometry, 1975.

R. L. Kelly, "NRL-NPGS Compilation of Vaccuum-Ultraviolet Spectra," with L. J. Palumbo, Program of the 1973 Annual Meeting of the Optical Society of America, 1973.

R. L. Kelly and L. J. Palumbo, "Publication Problems of the NPL-NPGS Compilation of Computer Based Data," Program of the 1973 Annual Meeting of the Optical Society of America, 1973.

X. K. Maruymama, "Electron Scattering from ^{19}F and ^{40}Ca," with others, Physics Review, C, 7(4), (1973).

X. K. Maruyama, F. R. Buskirk, E. B. Dally, J. N. Dyer, K. P. Ferlic, R. D. Waddell, and R. Pitthan, "Comparison of Giant Resonances in ^{197}Au and ^{208}Pb.," Proceedings of the International Conference on Nuclear Structure and Spectroscopy, Amsterdam, 1974.

X. K. Maruyama, F. R. Buskirk, E. B. Dally, J. N. Dyer, and R. Pitthan, "Giant Monopole Resonance in Heavy Nuclei," American Physics Society Bulletin, 1974.

X. K. Maruyama, "Giant M1 Resonance in Au," with others, Proceedings of the Second International Symposium on Neutron Capture Gamma Ray Spectroscopy and Related Topics, 1974.

X. K. Maruyama, "Isospin Splitting of Giant M1 States in ^{58}Ni," with others, Proceedings of the International Conference on Nuclear Structure and Spectroscopy, Vol. I, 1974.

X. K. Maruyama, R. A. Lindgren, W. L. Bendel, E. C. Jones, L. W. Fagg, "Observation of T_o+1 and T_o M1 States in ^{58}Ni," Proceedings of the International Conference on Nuclear Structure and Spectroscopy, Vol. II, 1974.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

CONFERENCE PRESENTATIONS (cont'd)

X. K. Maruyama, "Magnetic Multipole Transitions on ^{22}Ne Excited by 180^{o} Electron Scattering," with others, Proceedings of the International Conference on Nuclear Structure and Spectroscopy, Vol. I, 1974.

H. Medwin, "Acoustical Probing for Microbubbles at Sea," Conference on Oceanic Acoustic Modeling, 1975, Italy.

H. Medwin, "Sound Fluctuations at Sea; Dispersive Effects in the Upper Ocean," 86th Meeting of the Acoustical Society of America, 1973.

H. Medwin, "Survey of Techniques for the Detection of Microbubbles in the Sea," 4th Mini-Conference on Cavitation, 1973.

H. Medwin, "Sound Speed Dispersion and Fluctuations in the Upper Ocean," Proceedings of the 8th International Conference on Cavitation, 1973.

G. E. Schacher, J. Russell, "Turbulence Measurements in Marine Fog," Third Annual Marine Fog Conference, 1975.

G. E. Schacher, "Results of NPS Measurements Aboard the USNS Hayes," Hayes Workshop, 1975.

F. R. Schwirzke, A. W. Cooper, P. Krehl, "Correlated Measurements of Laser-Induced Stress Waves and the Dynamics of the Laser Produced Plasma," American Physical Society Division of Plasma Physics, 1975. Abstract published in Bulletin of the American Physical Society, 11, 20, 10, 1266 (1975).

W. M. Tolles, A. B. Harvey, J. R. McDonald, "A New Analytical Tool: Coherent Anti-Stokes Raman Spectroscopy (CARS)," Pacific Conference on Chemistry and Spectroscopy, 1975.

W. M. Tolles, A. B. Harvey, J. R. McDonald, "Analytical Applications of a New Spectroscopic Tool: Coherent Anti-Stokes Raman Spectroscopy (CARS)," Eastern Analytical Symposium, 1975.

JOURNAL PUBLICATIONS

F. R. Buskirk, J. W. Lock, and L. L. Foldy, "Phenomenological Interaction Currents in Nuclear Systems," Nuclear Physics, A220 (1974).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

JOURNAL PUBLICATIONS (cont'd)

F. R. Buskirk, E. B. Dally, J. N. Dyer, K. Ferlic, X. K. Maruyama, R. Waddell and R. Pitthan, "Evidence for the Giant Dipole Electric Spin-Flip Resonance from (e,e') in Heavy Nuclei," Bulletin of American Physics Society, 1974.

F. R. Buskirk, E. B. Dally, J. N. Dyer, X. K. Maruyama, R. Pitthan, G. L. Moore, "Electroexcitation of the Giant Resonance Region in ^{165}Ho," Bulletin of the American Physics Society, 1975.

F. R. Buskirk, X. K. Maruyama, E. B. Dally, J. N. Dyer, R. Pitthan, "Giant Monopole Resonance in Heavy Nuclei," Bulletin of American Physical Society, 19 (1974).

F. R. Buskirk, E. B. Dally, J. N. Dyer, K. P. Ferlic, X. K. Maruyama, R. D. Waddell, and R. Pitthan, "Evidence for the Giant Dipole Electric Spin Flip Resonance from (e, e^1) on ^{197}Au," Bulletin of the American Physical Society, 19 (1974).

A. W. Cooper, E. C. Crittenden, A. F. Schroeder, "Height Dependence of Optical Scintillation Over the Ocean," Digest of Technical Papers Topical Meeting on Optical Propagation Through Turbulence, 1974. Optical Society of America.

A. W. Cooper, "Pressure Dependence on Self-Generated Magnetic Fields in Laser Produced Plasmas," Physics Review, 1973.

A. B. Coppens, J. V. Sanders, "Finite Amplitude Standing Waves Within Real Cavities," Journal Acoustic Society of America, Vol. 58, No. 6, 1975.

A. B. Coppens,"A Semi-Empirical, Nonlinear Wave Equation for Standing Waves in Cavities," Journal of Acoustic Society of America, 54(1), (1973).

E. C. Crittenden, I. Kaufman and H. G. Oltman, "Transducer Action with a Piezoelectric Photoconducting Crystal," IEEE, 61, 1973.

E. C. Crittenden, R. A. King, and T. C. Andrews, "U. S. Patent 3,727,069, issued April 10, 1973, Target Measurement System for Precise Projectile Location."

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

JOURNAL PUBLICATIONS (cont'd)

E. B. Dally, G. T. Adylov and others, "Real-Time On-Line Programs for the π-e Scattering Experiment Using an HP-2116B Computer, I," Joint Institute for Nuclear Research, Dubna, E1-6907, E1-6908, 1973.

E. B. Dally, G. T. Adylov and others, "Experimental Setup for the Study of Elastic πp Scattering at Small Angles for Energies 40 and 50 Gev," Joint Institute for Nuclear Research, Dubna (USSR), 1973 and 1974.

E. B. Dally, "Report of Trip to Serpuhkov Laboratory, USSR and to Institute for Atomic Physics, Bucharest, Romania, 1973," Office of Naval Research (1973).

E. B. Dally with A. A. Derevchekov and others, "A Measurement of Elastic Pio-Proton Scattering at 50 Gev," Physics Letters, 48B, (1974).

E. B. Dally with R. G. Arnold and others, "Measurement of the Electron-Deuteron Elastic-Scattering Cross Section in the Range $0.8 \leq q^2 \leq$ GeV^2," Physical Review Letters, 35, (1975).

E. B. Dally with V. D. Apokin and others, "Small Angle π-p Elastic Scattering Measurement," Physics Letters 56B, 391 (1975).

E. B. Dally with C. D. Buchanan and others, "Study of Three-Body Charged Decays of K^o_L," Physical Review D11, 457(1975).

J. M. Dyer and others, "Elastic Electron Deuteron Scattering," Physical Letters, 47B(4), (1973).

J. M. Dyer, E. B. Dally, X. K. Maruyama, "D(e,e') Determination of the Neutron Charge Form Factor at Very Low Momentum Transfer," Bulletin of American Physics Society, Ap 73 (1973).

D. E. Harrison, W. L. Moore and H. T. Holcombe, "Computer Simulation of Sputtering II," Radiation Effects, 17, (1973).

D. E. Harrison and others, "Simulation of Inert Gas Interstitial Atoms in Tungsten," Application of Ion Beams to Metals, ed. S. T. Picraux, E. D. Ernisse, F. L. Vook, Plenum Press, 1974.

O. Heinz, C. J. Cook, N. R. A. Smyth, "Measured Cross Section for the Formation of H_3^+ by Fast Proton Impact on Methane," The Journal of Chemical Physics, Vol. 63, No. 3, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

JOURNAL PUBLICATIONS (cont'd)

X. K. Maruyama, R. A. Lindgren, W. L. Bendel, E. C. Jones, and L. W. Fagg, "Excitation of M1 and M2 States in ^{22}Ne by 180^{O} Electron Scattering," Physical Review, C, (1974).

X. K. Maruyama, and others, "180^{O} Electron Scattering from ^{22}Ne," Bulletin of American Physical Society, 19, (1974).

X. K. Maruyama, and others, "Gross Resonance Structure in Au(e,e') at 7.9 MeV," Bulletin of American Physical Society, 19, (1974).

X. K. Maruyama and others, "Strong Radiative Transitions to Levels in ^{58}Ni via 180^{O} Inelastic Electron Scattering," Bulletin of American Physical Society, 19 (1974).

X. K. Maruyama, with others, "Electron Scattering from ^{19}F and ^{40}Ca," Physical Review, C, 7(4), (1973).

H. Medwin, with J. D. Hagy, "Helmholtz-Dirchhoff Theory for Sound Transmission through a Statistically Rough Plane Interface Between Dissimilar Fluids," Journal of Acoustic Society of America, 51, (1973).

H. Medwin, R. A. Helbig and J. D. Hagy, "Spectral Characteristics of Sound Transmission Through the Rough Sea Surface," Journal of Acoustic Society of America, 53, (1973).

H. Medwin, C. S. Clay and W. M. Wright, "Specularly Scattered Sound and the Probability Density Function of a Rough Surface," Journal of Acoustic Society of America, 53,(1973).

H. Medwin, P. C. C. Wang, "Stochastic Models of the Scattering of Sound by Bubbles in the Upper Ocean," Quarterly Journal of Applied Mathematics, 1973.

H. Medwin, "Sound Phase and Amplitude Fluctuations due to Temperature Microstructure in Upper Ocean," Journal of Acoustical Society of America, 56 (1974).

H. Medwin, "Acoustic Fluctuations due to Microbubbles in Near Surface Ocean," Journal of Acoustical Society of America, 56, (1974).

H. Medwin, "Acoustic Mini-Probing for Ocean Microstructure and Bubbles," Journal of Geophysical Research, (1974).

H. Medwin, R. L. Routmann and J. R. Fitzgerald, "Acoustic Mini-Probing for Ocean Microstructure and Bubbles," Journal of Geophysical Research, 1975.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

JOURNAL PUBLICATIONS (cont'd)

H. Medwin, "Predicting Sound Phase and Amplitude Fluctuations Due to Microstructure in the Upper Ocean," Journal of the Acoustical Society of America, 56, (1974).

H. Medwin, "Acoustic Fluctuations Due to Microbubbles in the Near-Surface Ocean," Journal of the Acoustical Society of America, 56, 1974.

H. Medwin, J. Fitzgerald and G. Rautmann, "Acoustic Mini-probing for Ocean Microstructure and Bubbles," Journal of Geophysical Research, 80, (1975).

H. Medwin and P. C. C. Wang, "Stochastic Models of the Scattering of Sound by Bubbles in the Upper Ocean," Quarterly of Applied Mathematics, pp. 411-425, 1975.

J. R. Neighbours, "Elastic Energy Flow in Crystals of General Symmetry," Journal of Applied Physics, 44, (1973).

J. R. Neighbours, "Elastic Constant of Vanadium-Iron Alloys," with John J. Donegan, Acta. Met. 21.

W. Reese, C. W. Fairall, "Electrical Conductivitiy of KH_2AsO_4 and KD_2AsO_4," Physical Review, B8(7), (1973).

W. Reese, C. Fairall, "Thermodynamic Properties of RbH_2AsO_4," Physical Review B10, (1974).

W. Reese, "Thermomechanical Behavior of Polymeric Crystalline Lattice," Progress in Solid State Chemistry, Vol. 9.

W. Reese and C. Fairall, "Hydrogen Bond Configuration Parameters for Ferroelectrics Isomospheric to KH_2PO_4," Physical Review, B11, #5, pp. 2068 (1975).

J. V. Sanders with L. H. Henderson and R. J. White, "Effects of Polyethylene-Oxide Solutions on the Performance of a Small Propeller," Journal of Hydronautics, 7(3), 1973.

J. V. Sanders, J. Rajninec, "Target Pardubics," Journal of American Aviation Historical Society, 20, 226-235, (1975).

J. V. Sanders, J. Rajninec, "The Battle of Tri Duby," Air Classics, 11, 61-69, (1975).

F.R. Schwirzke, with R. S. Bird, L. L. McKee and A. W. Cooper, "Pressure Dependence of Self-Generated Magnetic Fields in Laser-Produced Plasmas," Physical Review Letters, A7, (1973).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

JOURNAL PUBLICATIONS (cont'd)

F. R. Schwirzke, R. S. Case, Jr., "Background Gas Pressure Dependence and Spatial Variation of Spontaneously Generated Magnetic Fields in Laser-Produced Plasmas," Journal of Applied Physics, 46, 1493, (1975).

F. R. Schwirzke, A. W. Cooper, P. Krehl, "Correlation of Stresswave Profiles and the Dynamics of the Plasma Produced by Laser Irradiation of Plane Solid Targets," Journal of Applied Physics, 46, 4400 (1975).

F. R. Schwirzke, H. Brinkschulte, M. Hashmi, "Laser-Induced Desorption of Gas from Metallic Surfaces," Journal of Applied Physics, 46, 4891 (1975).

W. M. Tolles, R. A. Sanders, G. W. Fritz, "Dielectric Response of Anisotropic Polarized Particles Observed with Microwaves," A new method of characterizing the properties of nonspherical particles in suspension, Journal of Applied Physics, 45, (1974).

W. M. Tolles, "Saturation Effects in the Forced Orientation Relaxation of Anisotropic Particles in High Electric Fields," Journal of Applied Physics, 46, 991-993 (1975).

W. M. Tolles, G. Schacher, "Experiments Supporting a Program of Warm Fog Dispersal by Electrical Charge Injection, NPS 61SqRc740111, 1974.

O. B. Wilson, "Measurement of Viscoelastic Properties of Sediments Using a Torsionally Oscillating Probe," Physics of Sound in Marine Sediments, Lloyd Hampton, ed. Plenum Press, 1974.

TECHNICAL REPORTS AND NOTES

M. Beckes, N. P. Burhans, R. E. Gump, "Passive Environmental ASW Prediction System (PEAPS)," NPS-71Be75031.

A. W. Cooper, with F. R. Schwirzke, "Non-Equilibrium Effects in Fast Moving Plasmas," NPS-61SwCr73121A (1973).

A. W. Cooper, F. R. Schwirzke, "Non-Equilibrium Effects in Fast Moving Plasmas," ONR-Report PO-4-0077.

E. B. Dally, with G. Adylov and others, "The Pion-Radius," Joint Institute for Nuclear Research, Dubna, USSR, E1-8047 (1974).

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

TECHNICAL REPORTS AND NOTES

E. B. Dally, with G. T. Adylov and others, "Trigger System of the Spectrometer for π-e Scattering at 50 GeV," Joint Institute for Nuclear Research, Dubna, USSR, P13-8367 (1974).

E. B. Dally, with G. T. Adylov and others, "Circuitry for Checking Detectors in the π-e Scattering Experiment at 50GeV," Joint Institute for Nuclear Research, Dubna, USSR, P13-8368 (1974).

R. Kelly with L. J. Palumbo, "Atomic and Ionic Emission Lines Below 2000 Angstroms Hydrogen Through Krypton," Naval Research Laboratory, Report No. 7599 (1973).

H. Medwin and others, "Project BASS Environmental Measurements (U)," RANRL Technical Memorandum External No. 18-174, (1975).

H. Medwin, "Sound Speed Dispersion and Fluctuations in the Upper Ocean: Project Bass," NPS-61Md73101A (1973).

H. Medwin, "Predicting Sound Phase and Amplitude Fluctuations Due to Microstructure in the Upper Ocean," NPS-61Ms7311A (1974).

J. R. Neighbours, "NRL Laser Effects Handbook," NRL Memorandum Report 2737, 1974.

W. Reese, "Considerations of Absorptive Chaff: Practical and Operational Considerations with Special Emphasis on Naval Applications (U)," NWC TP 5730, (1975), China Lake Technical Report TP 5730, (1975).

W. Reese, W. M. Tolles, G. E. Schacher, "Electric and Magnetic Single Particle Susceptibility (U)," NWC Technical Report TP 5725 (1975).

C. F. Rowell, "NWL/NPS Study Group on Naval Gunnery, First Quarterly Progress Report," with R. H. Nunn, NPS-59Nn73101B (1973).

F. R. Schwirzke with A. W. Cooper, "Non-Equilibrium Effects in Fast Moving Plasmas," NPS-61SwCr73121A (1973).

F. R. Schwirzke, with A. W. Cooper, "Measurements of Self-Generated Magnetic Fields in Laser-Produced Plasmas," NPS-61CrSw7301B 1973.

O. B. Wilson, "Annual Summary Report, Range Studies Program," NPS-71W175081.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

THESES DIRECTED

V. J. Bankston, "An Analysis of a Ray Trace Experiment on the Underwater Range at Dabob Bay," Master's Thesis, 1975. (Advisor: J. Sanders)

M. E. Beckes and N. P. Burhans, "Passive Environmental ASW Prediction System (PEAPS)," Master's Thesis, 1975. (Advisor: A. Coppens, D. Harrison)

J. B. Cook, II, "Construction of a Deuterium Fluoride Laser," Master's Thesis, 1975. (Advisor: A. W. Cooper)

C. B. Delaplain, "Computer Simulation of Multimers Sputtered from Copper," Master's Thesis, 1975. (Advisor: D. Harrison)

E. F. Fischer, "An Electrooptic Tactical AAW Display for Non-NTDS Equipped Ships, (U)," Master's Thesis, 1975. (Advisor: W. Reese)

J. L. Frank, III, "A Statistical Analysis of Emission-Line Stars of the Orion Population," Master's Thesis, 1975. (Advisor: W. B. Zeleny)

R. W. Gilbert, "Coherent Anti-Stokes Raman Spectroscopy Using Tunable Dye Lasers Pumped by an Ultraviolet Nitrogen Laser," Master's Thesis, 1975. (Advisor: W. M. Tolles)

E. F. Gordon, "An Investigation of the Natural Line Shape of the Giant Dipole Resonance," Master's Thesis, 1975. (Advisor: R. Pitthan)

R. E. Gump, "Passive Environmental ASW Prediction System (PEAPS)," Master's Thesis, 1975. (Advisor: A. Coppens, D. Harrison)

E. E. Ham, Jr., "Optimizing the Performance of a Towed Array Used in Support of a High Value Unit (U)," Master's Thesis, 1975. (Advisor: D. Harrison)

D. S. Harper, Jr., "An Investigation of Laser-Produced Plasma Asymmetries and Reflected Pulse Cutoff," Master's Thesis, 1975. (Advisor: A. W. Cooper)

T. C. Heilmann, "Fourier Optical Processing of Sea Surface Imagery Containing Kelvin Wakes and a Proposed Wake Detection System (U)," Master's Thesis, 1975. (Advisor: E. C. Crittenden)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

THESES DIRECTED
(cont'd)

T. B. Huffman and D. L. Zveare, "Sound Speed Dispersion, Attenuation, and Inferred Microbubbles in the Upper Ocean," Master's Thesis, 1974. (Advisor: H. Medwin)

M. J. Kilmer, "Finite Amplitude Effects in Rectangular Cavities with Perturbed Boundaries," Master's Thesis, 1975. (Advisor: A.Coppens)

J. M. Kimmel, "Studies of an Infrared Search System for Midcourse to Terminal Handover in a Director Independent Surface to Air Missile," Master's Thesis, 1975. (Advisor: W. Reese)

L. F. King, "Development of a Primer on Underwater Sound for ASW," Master's Thesis, 1975. (Advisor: O. B. Wilson)

G. L. Moore, "Electroexcitation of Giant Resonances Between 5 and 30 MeV Excitation Energy in ^{165}Ho," Master's Thesis, 1975. (Advisor: F. R. Buskirk)

L. F. Nunes, "The Effects of Simple Boundary Irregularities on Acoustical Mode Propagation in Ducts with Pressure Release Boundaries," Master's Thesis, 1975. (Advisor: A. Coppens)

J. B. Perkins, III, "Amplitude Modulation of Acoustic Signals by Ocean Waves and the Effect on Signal Detection," Master's Thesis, 1974. (Advisor: H. Medwin)

A. Raniszewski, "A Proposed Method to Measure Dielectric Properties of Non-Spherical Particles Using a Fabry-Perot Interferometer and Multipass Reflective Cell," Master's Thesis, 1975. (Advisor: W. M. Tolles)

A. H. P. Shaw, "Radiation Pattern Shaping of a Two-Element Concentric Ring Transducer Using Phase and Amplitude Shading," Master's Thesis, 1975. (Advisor: O. B. Wilson)

W. S. Slocum, IV, "Finite-Amplitude Standing Waves in Real Cavities Containing Degenerate Modes," Master's Thesis, 1975. (Advisor: J. V. Sanders)

G. D. Snyder, "An Expendable Measuring Device for Light Attenuation in the Ocean," Master's Thesis, 1975. (Advisor: S. Kalmbach)

R. W. Stevenson, "Spectroscopic Examination of Carbon Dioxide Laser Produced Gas Breakdown," Master's Thesis, 1975. (Advisor: A. W. Copper)

NAVAL POSTGRADUATE SCHOOL
Monterey, California

DEPARTMENT OF PHYSICS & CHEMISTRY

THESES DIRECTED (cont'd)

M. H. Tourville, III, "Signal Enhancement of Surface Scattered Underwater Sound," Master's Thesis, 1975. (Advisor: H. Medwin)

R. D. Wakefield, "Some Experiments on Dosimetry and Radiation Damage in Semiconductor Devices," Master's Thesis, 1975. (Advisor: E. B. Dally)

BOOKS

J. N. Cooper, "Instructor's Manual to Accompany Elements of Physics, 8/e,"McGraw-Hill, March 1973.

R. Kelly, J. Palumbo, "Atomic and Ionic Emission Lines Below 2000° A Hydrogen Through Krypton," NRL Rep 7599, 1973. Published Feb. 1974. U. S. Government Printing Office, Washington, D.C. ppxi+992.

W. B. Zeleny, "Introduction to Relativistic Quantum Mechanics," University Publications, 108 pages. 1974.

PAPERS SUBMITTED

A. W. Cooper, F. Schwirzke, "Laser-Produced Plasmas," Naval Research Reviews. (Accepted)

C. B. Delaplain, "Computer Simulation of the Sputtering of Clusters," Journal of Applied Physics. (Accepted)

H. Medwin, "Speed of Sound in Water: A simple equation for realistic parameters," Journal of Acoustical Society of America. (Accepted)

G. E. Schacher, C. W. Fairall, "Probability of Ruin in Discrete Fractional Investment Processes," ORSA.

G. E. Schacher, C. W. Fairall, "Use of Resistance Wires for Atmospheric Turbulence Measurements in the Marine Environment," Review of Scientific Instruments. (Accepted)