This publication supersedes NAVTRADEV P-3695 of June 1980.

Please retain plastic cover and screw posts of previous publication for use with the Index for September 1982. Dispose of the Index for June 1980.

REVIEWED AND APPROVED

[Signature]

Reviewing Official

NAVAL TRAINING EQUIPMENT CENTER
ORLANDO, FLORIDA 32813
This Index lists published Naval Training Equipment Center technical reports and technical notes available through the Defense Technical Information Center, Cameron Station, Alexandria, Virginia 22314, which have resulted from basic research, exploratory development, and advanced development type projects.

This Index also contains a list of Naval Training Equipment Center patents (in-house and contractor).
INTRODUCTION

1. CONTENTS OF THIS INDEX

This index lists published Naval Training Equipment Center (NAVTRAEEQICEN) technical reports and technical notes which are available through the Defense Technical Information Center (DTIC) and which have resulted from basic research, exploratory development and advanced development type projects.

2. ORGANIZATION OF THIS INDEX

So that publications may be located easily, this index is arranged as follows:

   a. By technical report/AD number (pages 1 - 32 (white))
   b. By AD/technical report number (pages 1 - 13/14 (green))
   c. By subject matter (pages 1 - 110 (yellow))
   d. Patents - in-house and contractor (1 - 33/34 (white))

3. INDEX UPDATE

This index will be updated annually. In the interim, it may be kept up-to-date through pen-and-ink changes, using the list of new technical reports published in the Training Systems Bulletin (P-1550 series).

4. HOW TO REQUEST PUBLICATIONS LISTED IN THIS INDEX

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   b. Obtain unclassified publications through DTIC, subject to any restricting distribution limitations that may exist.
NOTE

All requests should be made available to the Defense Technical Information Center, Cameron Station, Alexandria, Virginia 22314. The DTIC AD numbers should be included in requests to DTIC. Though these numbers are not required on requests to DTIC, their inclusion will help expedite the process.

5. Any organization or individual not registered with DTIC may purchase unclassified, unlimited technical reports from the National Technical Information Services (NTIS), 5258 Port Royal Road, Springfield, Virginia 22161.

6. Copies of patents may be obtained from the Commissioner of Patents, Washington, DC 20231.
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PILOTS
A BIBLIOGRAPHIC EVALUATION OF THE EFFECTS OF ACCELERATION ON THE CONTROL AND SAFETY OF HIGH SPEED AIRCRAFT.
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3,612,760  Apparatus for Determining Distortion in Television Systems  John C. McKechnie
3,612,761  Large-Area Display System  Hanns H. Wolff
3,612,906  Pulse Synchronizer  Peter D. Kennedy
*3,614,286  Radar Presentation Simulator  George M. Trinite, Jr.
3,621,128  Periscope Stadimeter Simulator with Video Delay  Carl R. Driskell
3,621,131  Visual Environment Simulator  Hanns H. Wolff
3,624,285  High-Resolution Television System  Hanns H. Wolff
*3,624,401  Ultraviolet Target Hit Scoring System  Milton Stoller
3,624,925  Periscope Breakwater Simulator  John W. Herndon
*3,629,653  Crossed Grid EL Display Driver  Irwin Munt
3,641,260  Electronic Raster Rotation System for Television  John W. Herndon
3,641,485  Echo Simulation Means  Francis J. Murphree and Michael T. Marrero
3,642,999  Simulator for Continuous Frequency Modulated Sonar  Francis J. Murphree
*3,644,073  Method of Smoke Reduction and Apparatus Therefor  Alexander Golsmith
*3,649,735  Transmission System  William Knowlton Coburn and Richard E. Hillger
3,657,826  Semiconductor Laser Marksmanship Training Device  Albert H. Marshall and George A. Siragusa
3,658,410 Wide Angle Anamorphic Refractive Lenses
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3,659,142 Annular Scansion Circuit for Closed Circuit Television Systems
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3,660,843 Recovery System
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3,662,102 Bi-Directional Television Scan System
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3,666,895 Film Recorded Velocity and Dynamic Gain Control Mechanism
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3,671,391 Periscope Stadimeter Simulator with Camera Sweep Delay
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3,671,657 Echo Synthesizing Apparatus
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3,675,012 Cinefluorographic Holography
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3,675,342 Fire Fighting Trainer
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3,675,343 Fire Fighting and Control Simulator
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3,676,802 Submarine Propeller Cavitation Noise Simulator
Francis J. Murphree and Paul S. Catano

3,681,608 Laser Beam Receiver Having a High Signal to Noise Ratio
George Derderian and Denis R. Breglia

3,692,934 Roll and Pitch Simulator Utilizing 360° Display
John W. Herndon

*3,695,246 Pneumatic Machine Gun with Photo Cell Interrupted Circuit
Ernest A. Filippi, Jack B. Watso, and Larry E. Hughes
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3,733,073 Torsion Bar for Raising and Lowering a Target
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3,739,370 Plotting Projector
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3,740,469 Reflective Panoramic T.V. Projection System
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3,742,618 Forward Observer Trainer
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3,746,782 Shrunken Raster with Image Insetting
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3,748,374 Multi-Color Periscope View Simulator
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3,748,751 Laser Machine Gun Simulator
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3,758,714 Multiple Gun Rotatable Television Projector Head for 360° Display
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3,761,156 Holographic Colored Light Pattern Simulation
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3,764,720 Speed and Bearing Integrator
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3,769,458 Color Electronic Synthesizer
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3,770,884 Luminance Control Circuit for Multi-Color Periscope View Simulator
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3,770,885 Color Electronic Periscope View Simulator
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3,787,619 Wide Angle Display System
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3,788,733 Laser Direct Fire Simulator Employing Refractive Media
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3,789,128 Multipath Sonar Simulator
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3,789,305 Tone Burst to Frequency Converter
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3,792,535 Laser Rifle Simulator System
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3,794,818 Automatic Memory Test and Correction System
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3,797,907 Fresnel Lens Scatter Plate for Data Reduction Holography
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3,804,977 Colored Running Light Simulator
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3,808,413 Polar Resolver
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3,811,010 Intrusion Detection Apparatus
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3,811,204 Programmable Laser Marksmanship Trainer
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3,813,795 Laser Device for Moving Target Marksmanship Training
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3,829,596 Sonar Reverberation Simulator
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3,835,234 Sonar Echo Simulator
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3,845,395 Harmonic Series Synthesizer
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3,854,225 Rotating Tank Demonstrator
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3,862,358 Visual Simulation System
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3,872,238 360° Panoramic Television System
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3,880,509 Wide-Angle On-Axis Projection System
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3,889,396 Direct Fire Weapons Simulator
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*3,894,348 Relator Simulator System
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*3,895,183 Waterborne Vehicle Trainer Visual System
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3,895,861 Rear-Screen Wide-Angle On-Axis Projection System
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*3,898,662 Radar Target Simulator Using no Electrical Connection to Radar
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3,898,747 Laser System for Weapon Fire Simulation
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3,904,995 Ultra High Frequency Impedance Adjustment Means
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3,905,132 Hidden Knowledge Detector
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3,911,598 Laser Type Weapon Fire Simulation System
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3,916,536 Direct Fire Weapon Simulator System
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Alfred H. Rodemann

**3,924,130 Body Exposure Indicator
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Hugo Caligiuri

3,936,871 Multi-Wavelength Display System
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*3,936,954 Electronic Bearing Selector for Omni-Directional Signals
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Lawrence Rosenberg
Melvin H. Damon, Jr.
3,936,958 Sonar Reverberation Simulation
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3,945,133 Weapons Training Simulator Utilizing Polarized Light
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3,949,490 Simulator Including Improved Holographic Heads Up Display System
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Windell N. Mohon

3,950,612 Synthetic Motion Generator
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3,958,860 Holographic Object Recognition Trainer
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Alfred H. Rodemann

3,958,871 Composite Polarized Film for Use in a Weapon Training Simulator
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Windell N. Mohon

3,964,178 Universal Infantry Weapons Trainer
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Robert J. Entwistle

3,911,598 Laser Type Weapon Fire Simulation System
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3,991,486 Aircraft Landing Signal Officer Trainer
George Derderian
Alfred H. Rodemann
Windell N. Mohon
John W. Pease

3,992,718 Color Panoramic Laser Projector
Carl R. Driskell

3,998,532 Wide Angle Single Channel Projection Apparatus
Wiley V. Dykes
Patents issued for inventions which resulted from NAVTRAEEQUIPCEN contracts.

**Notice of allowability for classified application.**
4,103,435  Head Trackable Wide Angle Visual System
John W. Herndon

4,110,791  Television Projector System
Gottfried R. Rosendahl

4,139,258  Laser Scan Converter
Frank J. Oharek

4,150,885  Stabilized Scene Viewing System
Denis R. Breglia
Robert J. Entwistle
Frank J. Oharek
Gottfried R. Rosendahl

4,151,411  Laser Safety Goggles
George Derderian
Windell N. Mohon

4,153,915  Optical Image Modifier for Distortion or Other Compensation
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4,158,258  Elevation Sampling Terrain Probe
John C. McKechnie

4,159,478  Radar ECM Simulator Using No Electrical Connection to Radar
Frederick J. Jaklitsch
Joseph R. Weger

4,160,903  Electro-Optical Radio System
John C. McKechnie
Herbert Berke

4,164,081  Remote Target Hit Monitoring System
Herbert Berke

4,171,910  Retroreflectance Measurement System
George Derderian
Denis R. Breglia
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4,240,212 Thermal Signature Targets
Albert H. Marshall
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George A. Siragusa
Herbert C. Towle

4,244,120 Acceleration Cueing Simulation Device
William T. Harris

4,251,931 Terrain Vehicle Simulator Contour Measuring and Storage Device
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4,253,515 Integrated Circuit Temperature Gradient and Moisture Regulator
Edmund Swiatosz

4,263,621 Charge Coupled Device Signal Output Summing Circuit
Herbert Berke

4,265,238 Simulated Oxygen Breathing Apparatus
Edmund Swiatosz
Wiley V. Dykes
Paul D. Grimmer
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4,279,292 Charge Coupled Device Temperature Gradient and Moisture Regulator
Edmund Swiatosz

4,279,599 Thermal Target and Weapon Fire Simulator for Thermal Sights
Albert H. Marshall
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4,281,361 Simulated Multilayer Circuit Board
Benjamin W. Patz
Herbert Berke
Donald R. Meadorf

4,281,993 Semiconductor Laser Alignment Device
Bon F. Shaw
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4,317,652  Marksmanship Training Device for Simulating Long Range Weapons

4,321,043  Recoil Force and Weight Loss Simulation Device

4,326,119  Portable Battery Operated Electric Smoke Generator

4,336,018  Electro-Optic Infantry Weapons Trainer

4,336,976  Holographic Storage of Terrain Data

4,340,370  Linear Motion and Pop-Up Target System

4,341,986  Servo Control System for the Positioning of an Apparatus

4,342,984  High Speed Digital to Analog Converter Circuit