Command History for 1989

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Navy Personnel Research and Development Center
San Diego, California 92152-6800
This report lists NPRDC’s mission, functions, organization, CO/TD biographies, key personnel, chronology of 1989 events, history of the Center, resources (financial, personnel, facilities), R&D program, and publications and presentations.
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INTRODUCTION

Mission

The Navy Personnel Research and Development Center's (NPRDC) mission is to be the principal research and development center for the Department of the Navy's planning and utilization of manpower and personnel and to pursue a coordinated technical development program in the areas of education and training.

It is Center policy to only perform work that falls within the assigned mission, address high-priority Navy and Marine Corps requirements, and represent the most efficient use of available resources. We are determined to assist our sponsors, claimants, and customers in identifying and prioritizing requirements for manpower, personnel, and training (MPT) research and development.

Functions

In fulfilling the mission stated above, the Center performs the following functions assigned by the Commander, Naval Military Personnel Command:

1. Plans and develops effective MPT products for Navy/Marine Corps operational application. Provides technical assistance to support the transition and implementation of Center products.

2. Develops and maintains in-house Navy/Marine Corps scientific and technical expertise to provide corporate knowledge, corporate memory, technological innovation, "smart buyer" assistance, and real-world understanding necessary for the development and support of Navy/Marine Corps MPT.

3. Plans and conducts an effective technology base program (basic research, exploratory development, and advanced technology demonstrations) to meet existing and projected operational requirements and to maintain scientific and technical leadership in MPT areas.

4. Develops new systems and methods for determining manpower requirements, allocating manpower resources, developing personnel inventories, and distributing/assigning those inventories to improve military readiness and control costs.

5. Develops systems and procedures for recruiting, selecting, classifying, and utilizing officer, enlisted, and civilian personnel to improve performance and retention. Serves as the Chief of Naval Operation's (CNOs) primary personnel survey resource to coordinate and conduct attitude surveys in the Navy/Marine Corps and to develop new survey technology.

6. Develops and evaluates personnel testing systems and computerized adaptive testing (CAT) versions of the armed services vocational battery (ASVAB). Serves as lead Department of Defense (DoD) laboratory for overall management of CAT research, development, implementation, and scientific support of the system.

7. Develops training technologies to enhance personnel readiness.
8. Employs existing and emerging technologies in the development and application of training systems to alleviate Navy training problems and improve the Navy's operational readiness.

9. Develops and evaluates management and leadership systems for improving the effectiveness and readiness of Navy personnel and organizations.

10. Develops, evaluates, and applies innovative personnel assessment technology.

11. Provides the Marine Corps with research and development (R&D) support in MPT and organizational systems.

12. Provides independent analyses, technical advice, and consultation to research, development, test, and evaluation (RDT&E) and operational managers in matters related to the Center's mission.

13. Investigates, defines, and addresses operational problems related to fleet personnel performance.

14. Maintains a field office in Washington, DC for the purpose of conducting on-site projects.

15. Develops, installs, and provides life-cycle support for information management systems.

16. Provides information and reports to higher authority and the scientific community on the progress and accomplishments of the Center's program.

17. Provides technical support in the development of the Bureau of Personnel/Naval Military Personnel Command (BUPERS/NAVmilPERScom) long-range plan with regard to the infusion of appropriate technology, definition and prioritization of RDT&E requirements, and the transition of products into operational use.

18. Provides information and technical support to the Center's BUPERS/NAVmilPERSCOM Program Manager in all matters related to the Center's operation.

19. Develops and maintains liaison with Navy, DoD, and civilian RDT&E organizations for the exchange of information and the establishment of cooperative efforts in the MPT areas.

ORGANIZATION

Operating Philosophy

NPRDC is an applied research center, contributing to the personnel readiness of the Navy and Marine Corps. The Center develops better ways to attract qualified people to the naval services to: select the best, assign them where they are most needed, train each one effectively and efficiently, and manage our personnel resources optimally. By combining a deep understanding of operational requirements with first-rate scientific and technical abilities, the Center is unique in being able to develop new, useful knowledge and refine technology to address people-related issues. This dual expertise permits the Center to develop the technology base for improving the use of human resources within Navy systems and to apply state-of-the-art technology to solve emerging
problems. The organizational structure of NPRDC is represented in Figure 1. As a corporate asset, NPRDC is responsive to the needs of MPT managers in the Navy, Marine Corps, and DoD, to the operating forces, and to the shore establishment that trains and supports the fleet.

The R&D methods used by NPRDC are derived from behavioral, cognitive, economic, and social sciences as well as from applied mathematics and statistics. The application of these methods results in tangible products of use to the Navy and Marine Corps. NPRDC constantly searches for technological opportunities to improve personnel readiness and to reduce manpower costs. We are accountable to Commander, Naval Military Personnel Command, our sponsors, and our users for high productivity, strict ethics, honesty, integrity, professionalism, and perspective. The Center's reporting relationship is depicted in Figure 2.

As part of its operating philosophy, NPRDC seeks to do as much of its work as possible in the operational setting where the final products of the effort are intended to be used. This helps to ensure that the needs and requirements of the users are met and that the users themselves become familiar with the operational capabilities of the particular products. In some cases, because of the close researcher and user interaction, the output of interim or prototype products have been put into use before the final product has been completed. Examples of NPRDC's on-site research applications are shown in Table 1.

Further interaction with operational commands involve a variety of valuable MPT data bases that NPRDC has developed and maintained. Because NPRDC is an in-house, corporate laboratory, these data bases are readily available to support many different operational users and requirements. The data bases, descriptions, and principal users are shown in Table 2.
Figure 1. 1989 organization.
Figure 2. Reporting relationships.
(Department of the Navy Research, Development, Testing, and Evaluation (RDT&E) Organization)\textsuperscript{b}

\textsuperscript{a}OP-01.
\textsuperscript{b}Not an official Department of the Navy organization chart.
Table 1
On-site Research Applications

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<th>Project</th>
<th>Implemented Product</th>
<th>Site</th>
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<td>Advancement Interface System (ADIN)</td>
<td>Petty officer advancement planning model</td>
<td>OP-132C, Navy Annex</td>
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<td>Force Analysis Simulation Technique (FAST)</td>
<td>Enlisted inventory projection model</td>
<td>OP-132D, Navy Annex</td>
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<td>Management Decision Simulator (IMAGE)</td>
<td>Manpower management training simulator</td>
<td>DASS (Manpower), Pentagon; USMC Headquarters, Arlington Annex; OP-01/NMPC, Arlington Annex</td>
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<td>Structured Accession Planning System for Officers (STRAP-O)</td>
<td>Officer manpower analyses system</td>
<td>OP-139</td>
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<td>Officer Personnel Information System (OPIS)</td>
<td>Officer information delivery system (IDS)</td>
<td>OP-130, OP-136</td>
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<td>Budget Obligation Analysis and Tracking System (BOATS)</td>
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<td>NMPC-7, Washington, DC; NFC, Cleveland, OH</td>
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<td>Enlisted Personnel Allocation and Nomination System (EPANS)</td>
<td>EPANS</td>
<td>EPMAC, New Orleans; NMPC, Washington, DC</td>
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<tr>
<td>Officer Distribution Management System (ODMS)</td>
<td>Officer distributable projection system (ODROJ)</td>
<td>NMPC-45</td>
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<td>Navy Manning plan, officer (NMPC)</td>
<td>NMPC-45</td>
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<td>Officer Manning Information system (OMIS)</td>
<td>NMPC-45, NMPC-42, NMPC-43, NMPC-44, and NMPC-45</td>
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<td>Permanent Change of Station (PCS)/Readiness Impact</td>
<td>PCS moves/unit readiness model</td>
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<td>Enlisted community management projection model</td>
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<td>PCS Moves Forecasting</td>
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<td>Officer Assignment Decision Support System (OADSS)</td>
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<th>Implemented Product</th>
<th>Site</th>
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<td>Maintain/evaluate classification and assignment system</td>
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<td>Career Systems Design</td>
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<td>USMC Individual Training Standards</td>
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<td>HQUSMC/MCCDC, Quantico</td>
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<td>Helo Map Interpretation and Terrain</td>
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<td>Officer Basic School, Quantico; Division Schools, Camps LeJeune and Pendleton</td>
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<td>Intelligent Maintenance Training System</td>
<td>Training of SH-3H, AE, and AD maintenance personnel</td>
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<td>STEAMER</td>
<td>Training aid in teaching operation of 1290 lb propulsion system</td>
<td>Surface Warfare Officer School, Coronado</td>
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<td>Assist in the development of AEGIS scenario development system (ASDS)</td>
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<td>ROBIN front-end expert system to create complex scenarios (TACTIC)</td>
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<td>New user interface for War-game Weapons and Tactical Analysis Center (WEPTAC) war-game; Phase II (WEPTAC II)</td>
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<td>Transportable lessons from Defense Systems Management College’s (DSMC) Program Management Course and lessons learned in converting transportable course/lessonware</td>
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<td>Experimental Civilian Personnel</td>
<td>Evaluation of innovative civilian personnel practices with recommendations and guidelines for DoD implementation</td>
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<td>Navy Logistics Productivity Quality Improvement</td>
<td>TQM prototype</td>
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<td>TQM assessment</td>
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<td>Gain-sharing System</td>
<td>Fleet Combat Direction Systems Support Activity, San Diego; Naval Supply Centers, Oakland and Pensacola; NADEPs, Cherry Point, North Island, Jacksonville, and Norfolk; Naval Shipyards, Portsmouth and Charleston; Navy Regional Data Automation Center, Norfolk; Public Works Center, San Diego</td>
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<td>Acquisition Technology</td>
<td>Technology Enhancements in Program Management Offices</td>
<td>NAVAIR (PMA-273, PMA-260)</td>
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### Table 2

**Data Bases**

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<td>Manpower, Personnel, and Training (MPT) Assessment Subsystem</td>
<td>Requirements and authorization by DPPC sponsor, program element, claimant, skill, and pay grade</td>
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<td>Manpower Projection (MAPRO)</td>
<td>Ships, aircraft, and manpower (historical)</td>
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<td>Historical enlisted Navy personnel data</td>
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<td>Enlisted Management Community Data Base</td>
<td>Historical enlisted Navy personnel data</td>
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<tr>
<td>Enlisted Personnel Planning System (EPPS)</td>
<td>Historical and projected Navy enlisted personnel data</td>
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<td>FAIM-O</td>
<td>Historical longitudinal Navy officer personnel data</td>
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<tr>
<td>Officer Personnel Information System (OPIS)</td>
<td>Historical, aggregated Navy officer personnel data</td>
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<td>USMC Enlisted Personnel Data Base</td>
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<td>Qualified military available projections for USMC recruiting regions</td>
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<td>Historical demographic, economic, educational, production data by Navy recruiting areas, districts, and counties</td>
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<td>Defense Personnel Analysis System (DPAS)</td>
<td>All-service historical and projected officer and enlisted personnel data</td>
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<td>Navy military personnel entitlements data</td>
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<td>Naval Reserve Officer Training Corps (NROTC)</td>
<td>Applicant information, school performance information, fitness report (FITREP) data</td>
<td>CNET (N-1A)</td>
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<td>Naval Academy</td>
<td>Applicant information, school performance information, FITREP data</td>
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<td>Officer Career</td>
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<td>Navy Integrated and Training System</td>
<td>Navy class “A” school information merged with ASVAB data and used for</td>
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<td>ASVAB validation and related studies and analyses</td>
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<td>Computer Managed Instruction (CMI) Data</td>
<td>Similar to Navy integrated training and reporting system (NITRAS) data,</td>
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<td>Joint Officer Monitor Officer (JOMO)</td>
<td>Officer and billet data pertaining to past and present joint duty</td>
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<td>assignments for USMC officers</td>
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<tr>
<td>Classification and Assignment Within PRIDE</td>
<td>Accession data, job options presented by CLASP</td>
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<td>(CLASP)</td>
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<td>Personalized Recruiting for Immediate and</td>
<td>Recruitment information (data of enlistment, targeted rating) from</td>
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<td>and creating regression formulas used in CLASP</td>
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<td>Adaptability Screening Profile (ASP)</td>
<td>Biographical, demographic, and 36-month attrition information on military</td>
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**Testing Systems**

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<td>Defense Manpower Data Center (DMDC) Arm</td>
<td>Navy applicants and accessions by FY used for validation and related studies</td>
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<td>Services Vocational Aptitude Battery (ASVAB)</td>
<td>and analyses</td>
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<td>American Youth Population (AYP) Data</td>
<td>1980 metric sample for ASVAB (youth 18-23) maintained, used for calibrating</td>
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<td>new forms of ASVAB, developing population parameters needed for correcting</td>
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<td>for restriction of range in ASVAB validation samples</td>
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<tr>
<td>Reading Grade Level</td>
<td>Examinee data on both ASVAB and reading grade tests, used to estimate</td>
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<td>reading ability of military accessions without administering a reading test</td>
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*Data bases are extracted from larger data bases for use in responding to consumers's requests for data analysis.*
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<td>Operations Specialist (OS) Career Systems Design Rating</td>
<td>Materials, information, and products resulting from the OS rating training continuum</td>
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<tr>
<td>Electronic Warfare (EW) Career Systems Design Rating</td>
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<td>Historical longitudinal Navy training and personnel data--an SSN-based data file</td>
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<td><strong>Organizational Systems</strong></td>
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<td>Maintain data on status of implementation of TQM and PGS for Navy organizations with 50 or more civilian employees</td>
<td>SECNAV</td>
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<td>Organizational Systems</td>
<td>Maintain data on organizational culture, climate, and effects of implementing TQM and PGS for those organizations participating in follow-up evaluations of TQM and PGS</td>
<td>SECNAV</td>
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Commanding Officer/Technical Director Biographies

Captain Barton E. Bacon III assumed his present duties as Commanding Officer, NPRDC in June 1986.

Captain Bacon graduated from the University of Washington, Seattle, in 1959 and entered the Navy as an Aviation Officer Candidate at Pensacola, FL. He was commissioned an Ensign in 1960.

Following a tour aboard USS YORKTOWN (CVS 10), Captain Bacon attended submarine school and subsequently served aboard five San Diego-based submarines: USS REDFISH (SS 395), USS VOLADOR (SS 490), USS SEGUNDO (SS 398), USS SALMON (SS 573) (as Executive Officer), and USS TROUT (SS 566) (as Commanding Officer). Under his command, TROUT was the only fast-attack diesel-electric submarine selected from both the Pacific and Atlantic Fleets for the Battle Efficiency E award.

Captain Bacon served on the staffs of Commander Submarine Squadron 3, Commander Submarine Group 5, Commandant Thirteenth Naval District, Chief of Naval Personnel, and Chief of Naval Operations. During his Washington tours, he served as the Enlisted Rating Coordinator for submarines while assigned to the Bureau of Naval Personnel and to the Department of the Navy Plans and Policy Office (OP-06). He served as the Primary Action Officer for the Navy in the Joint Chiefs of Staff arena for development of Joint Strategic Planning Documents.

After serving as Commanding Officer, Submarine Training Facility, San Diego, from 1980 to 1983, Captain Bacon was assigned to a 2-year tour as Commanding Officer of the amphibious ship USS CLEVELAND (LPD 7). While under his command, CLEVELAND was nominated for the Arleigh Burke Award, representing the most improved ship in the Pacific Fleet.

Captain Bacon comes from a submarine family. His father, RADM Barton E. Bacon II, USN (Ret) (deceased), commanded the submarine USS PICKEREL (SS 524) through five war patrols during World War II. His twin brother, VADM Roger Bacon, USN, is currently assigned as Commander, Submarine Force, U.S. Atlantic Fleet, and his younger brother, Commander Dan Bacon, USN (Ret), served for 20 years in the submarine force. At one period during their respective careers, each brother was in command of a Pacific Fleet submarine.

Captain Bacon is a graduate of the National War College of the National Defense University, the Armed Forces Staff College, Defense Intelligence College, and the Senior Officer Material Readiness School.
Dr. James S. McMichael became the Technical Director of NPRDC in January 1987.

Dr. McMichael entered the Senior Executive Service in October 1984 as Director of the Training Laboratory, Navy Personnel Research and Development Center where he managed personnel research since 1975. His research specialty with the Navy is military training. As Laboratory Director, he directed research in areas such as intelligent systems for training, team training, training management curriculum models, production and quality control, naval career models, Marine Corps training, and low-cost simulation.

From August 1985 to August 1986, Dr. McMichael served as Special Advisor for Manpower, Personnel, and Training in the Directorate of Research, Development, and Acquisition (OP-098) and to the Deputy Assistant Secretary of the Navy (Manpower). He had responsibility for advanced- and engineering-development of systems for manpower, personnel, and training; for scientific advice on manpower matters to the Director (OP-098); and for policy matters regarding research and development.

Dr. McMichael graduated from Princeton University in 1961 and received his Ph.D. from the University of Delaware in 1965. In 1982 and 1983, he was a fellow in Princeton University’s Woodrow Wilson School of Public and International Affairs where he concentrated in economics, management, and international policy.

Prior to joining NPRDC, Dr. McMichael chaired the Department of Psychology at C. W. Post College, Long Island University, where he taught for 10 years.
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<td>Mouzdon</td>
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<td>OOB</td>
<td>Civilian Personnel</td>
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Chronology of 1989 Events

January

New Employees

Irineo G. Ocampo
Supply Clerk
Code 21
GW-2005-04

Delora McDaniel
Personnel Research Psychologist
Code 16
GS-180-11

William McDaniel
Personnel Research Psychologist
Code 14
GS-180-13

Jerome Bower
Personnel Research Psychologist
Code 16
GS-180-07

OSC Garry Kincaid
Code 142

Separations

Thereasa Cronan
Personnel Research Psychologist
Code 16
GS-180-12

Video Presentation

A short video titled, *A Boast for American Initiative*, was shown to acquaint Center personnel on the dual obligation and opportunity presented by recent Federal Technology Transfer legislation and Executive Orders.

Promotions

Larry Bierma, GM-13
Bob Chatfield, GM-13
Janet Held, GS-11
Rebecca Hetter, GM-13
Bart Kuhn, GM-14
Samantha K. Maddox, GS-04
Mike Nakada, GM-13
John Wolfe, GM-14
Reynaldo I. Monzon, GS-12
Jose G. Suarez, GS-11
Product Award Recipient for the Month

Robert Chatfield
Computer-aided Monitor Training

Guest Speaker

Robert M. Hillyer, Technical Director, Naval Ocean Systems Center discussed human factors projects and described human factors research in the Navy.

February

New Employees

Joel D. Garza
Computer Equipment Analyst
Code 02C
GS-334-12

Joseph Dörner
Computer Specialist
Code 16
GS-334-12

Harriman F. Olave
Student Aide
Code 16
GS-303-02

Ursula Washington
Student Aid
Code 16
GS-303-02

Marie Thomas
Personnel Research Psychologist
Code 12
GS-180-12

Separations

Gabriela Coverdale
Personnel Research Psychologist
Code 13
GS-180-09

Paula Augustine
Clerk Typist
Code 11
GS-322-04

New Job Assignments

Bob Turney, Code 23, was designated as the Center’s Mobilization Planning Liaison Officer (MPLO). In this capacity, he is responsible for coordination of mobilization planning for the Center in accordance with Navy’s Logistic Support and Mobilization Plan and the Chief of Naval Operations Navy Mobilization Planning Guide.

Visits

VADM Boorda, DCNO for Manpower, Personnel and Training (OP-01)/Chief of Naval Personnel, visited the Center on 24 February 1989.
Promotions

James G. Chadbourne, GS-12
Stephen J. Eastburn, GS-07
John S. Folchi, GS-12

Product Award Recipient for the Month

Thomas Trent
Armed Services Applicant Profile

Guest Speaker

Dr. Sigmund Tobias, School of Education, the City University of New York (CUNY) gave a speech on five experiments in which he used a computer to study students' cognitive processes while they learned from instruction. He also discussed the results in terms of their relevance for examining aptitude treatment interactions and for training students' cognitive processes.

March

New Employees

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<tr>
<th>Name</th>
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<td>Steven E. Devlin</td>
<td>Personnel Research Psychologist</td>
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<td>180-09</td>
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<td>Barbara A. Heins</td>
<td>Secretary (Typing)</td>
<td>16</td>
<td>318-05</td>
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<tr>
<td>Kewanda C. Covington</td>
<td>Clerk</td>
<td>00A</td>
<td>303-02</td>
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<tr>
<td>Ester Osuna</td>
<td>Clerk Typist</td>
<td>00B</td>
<td>322-03</td>
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<tr>
<td>Diane Sawyer</td>
<td>Personnel Research Psychologist</td>
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<td>180-07</td>
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<td>Donald H. Hewitt</td>
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<td>180-9</td>
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<td>Kim-Hanh T. Phan</td>
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<td>Audrey Finley</td>
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<td>Ana F. Guerrero</td>
<td>Secretary (typing)</td>
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<td>Mike C. Yau</td>
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<tr>
<td>Stephanie A. Gullett</td>
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<td>James M. Apple</td>
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<td>Norberto B. Caceres</td>
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<td>Edward E. Dixon</td>
<td>Librarian</td>
<td>23</td>
<td>1410-09</td>
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<tr>
<td>Amado E. Santiago</td>
<td>Computer Specialist</td>
<td>13</td>
<td>334-09</td>
</tr>
<tr>
<td>Janice Whiting</td>
<td>Procurement Clerk</td>
<td>21</td>
<td>1106-05</td>
</tr>
<tr>
<td>Samantha Maddox</td>
<td>Supply Clerk</td>
<td>21</td>
<td>2005-4</td>
</tr>
<tr>
<td>Hoa T. Lu</td>
<td>Computer Specialist</td>
<td>13</td>
<td>344-09</td>
</tr>
<tr>
<td>Angela Walker</td>
<td>Clerk-typist</td>
<td>00B</td>
<td>322-03</td>
</tr>
<tr>
<td>Barry Siegel</td>
<td>Economist</td>
<td>11</td>
<td>110-12</td>
</tr>
<tr>
<td>Dorethia Wood</td>
<td>Clerk Typist</td>
<td>00A</td>
<td>322-3</td>
</tr>
</tbody>
</table>

**In the News**

Pat Thomas’ Work Featured in Local Media. The NPRDC study, *To Assess the Effect of Motherhood Upon Military Readiness*, was conducted by the Selection and Classification Division, Code 121, headed by Pat Thomas. Thomas was also heard on the radio talk station, XTRA, 690 AM.
Promotions

Linda M. Doherty, GM-14
Tracy D. Pope, GM-14

Product Award Recipient for the Month

Dennis Schurmeier
RPN Budget Support System

April

New Employees

John W. Schuler
Personnel Research Psychologist
Code 14
GS-180-12

Laura E. Swirski
Personnel Research Psychologist
Code 12
GS-180-09

Jennifer Thorp
Student Aide
Code 23
GW-322-03

Royal S. Magnus
Personnel Research Psychologist
Code 12
GS-180-11

Linda L. Turnmire
Computer Specialist
Code 11
GS-334-11

Yvonne S. Baker
Computer Clerk
Code 21
GS-335-04

Separations

Margaret Overton
Staffing Clerk
Code 00B
GS-203-04

Mary Delmas
Library Technician
Code 23
GS-1411-04

Carolyn Macky
Statistician
Code 11
GS-1530-09

Maria Alves
Library Technician
Code 23
GS-1411-05

Sharon Kalberer
Personnel Assistant
Code 00B
GS-203-07

Ursula L. Washington
Clerk
Code 00B
GS-303-02
Commander’s Award for Management Excellence

Richard Sorenson
Norma Zaske

Retired

LCDR Ken Davis

Promotions

Larry K. Carroll, GS-11
Peggy M. Laone, GS-05
Patricia A. Nealy, GS-07
Renee J. Rothlein, GS-07
Sheila K. Stevens, GS-05
Annette V. Stout, GS-06
Gene F. Stout, GS-11
Barbara R. Tarker, GS-12

Product Award Recipient for the Month

Steven Sorensen
"C" School Planning System

National Defense

Richard Cheney—a six-term congressman from Wyoming—is the new Secretary of Defense.

May

New Employees:

Jack E. Edwards
Personnel Research Psychologist
Code 12
GS-180-12

Charles K. Rutherford
Clerk Typist
Code 00B
GS-322-04

Elizabeth Rozycki
Economist
Code 11
GS-110-12

Martin T. Fujitani
Mathematics Aid
Code 11
GS-1521-04

Sharon W. Kalberer
Personnel Assistant
Code 00B
GS-203-07

Dennis Cheng
Computer Specialist
Code 13
GS-334-09
Doris A. Young
Supply Clerk
Code 21
GS-2005-04

Regina L. Burch
Personnel Research Psychologist
Code 12
GS-180-09

Cheryl A. Matheson
Personnel Research Psychologist
Code 15
GS-180-07

Susan R. Ryan
Secretary (Typing)
Code 12
GS-318-05

Joyce Ward
Program Analyst
Code 16
GS-345-07

New Navy Secretary

The road to the top for a former Machinist's Mate was reached when H. Lawrence Garrett III was sworn in 15 May as the 68th Secretary of the Navy.

Promotions

Donna J. Even, GS-05

Product Award Recipient for the Month

David Robertson
Navy Recruiter Survey: Interview Phase

June

New Employees

Prentice G. St. Clair
Personnel Research Psychologist
Code 16
GS-180-09

Janell M. Jures
Personnel Research Psychologist
Code 15
GS-180-07
Dorothy L. Pakus
Computer Specialist
Code 13
GS-344-11

Thomas S. Brice
Personnel Research Psychologist
Code 12
GS-180-09

Kent M. Suarez
Personnel Research Psychologist
Code 12
GS-180-09

Separations

Burton C. Baker
Computer Specialist
Code 15
GS-334-09

Luella C. Luna
Computer Assistant
Code 21
GS-335-05

Mary L. Mosley
Computer Specialist
Code 23
GS-334-09

Retired

Edwin G. Aiken
Personnel Research Psychologist
Code 15
GM-180-15

Science and Technology

R&D Program Reviews--This year's Science and Technology Reviews began on 6 June with the “Manpower and Personnel Review” held at the Army Research Institute, Alexandria, VA. “Education and Training” was held at NPRDC on 20-22 June and “Logistics and Human Factors” presented at the U.S. Army Human Engineering Laboratory, Aberdeen Proving Ground, MD on 10 July.

NPRDC-hosted 3-day Review

Approximately 40 people attended the NPRDC-hosted, 3-day review. Some of the key reviewers were Dr. Earl Alluisi, Assistant for Training and Personnel Systems Technology, Office of the Director of Defense Research and Engineering; Dr. Jesse Orlansky, Institute for Defense Analysis; Dr. Stan Collyer, Office of Naval Technology; Dr. Bob Carroll, Office of the Assistant for MPT Research and Development Studies (OP-01B2); Maj Willard Beavers, Air Force Human Resources Laboratory; and Dr. Myron Fischi, Department of Army Personnel.
Visitors

14 June, Dr. Marilyn Gowing, Assistant Director, Office of Personnel Management

15 June, RADM Phillip M. Quast, OP-12

26 June, Dr. Sarah Shevit, Israeli Defense Force

29 June, Dr. Mario von Cranach, Switzerland

30 June, Dr. Phil Selwyn, Technical Director, Office of Naval Technology

Promotions

Rachel G. Dalton, GS-09
Ruth C. Ireland, GS-12
Betty S. Whitehill, GS-11

Product Award Recipient for the Month

Daira Paulson
Map Interpretation and Terrain Analysis Course

July

New Employees

Charles A. Wilkins
Personnel Research Psychologist
Code 13
GS-180-12

Arinéva Y. Johnson
Clerk Typist
Code 00
GS-322-03

Ann C. Rybowiak
Personnel Research Psychologist
Code 16
GS-180-11

Bertha R. Mack
Personnel Assistant
Code 00B
GS-203-05

Separations

Bob D. Medearis
Operations Research Analyst
Code 11
GS-1515-12

Raye Newmen
Personnel Research Psychologist
Code 15
GS-180-13

James A. Riedel
Personnel Research Psychologist
Code 12
GS-180-13
Promotions

Janet L. Rodenkirch, GS-04
Dianne J. Murphy, GS-11
James P. Boyle, GS-12
Audrey L. Finley, GS-04
Josh W. Woods, GS-05

Product Award Recipient for the Month

Reynaldo Monzon
Automated ASVAB Analysis System

August

New Employees

Thu Van Nguyen
Computer Specialist
Code 15
GS-334-11

Joyce Silberstang
Personnel Research Psychologist
Code 16
GS-180-12

David L. Ryan-Jones
Personnel Research Psychologist
Code 14
GS-180-12

Shirley L. Stolarz
Management Assistant
Code 16
GS-344-07

Separations

Deborah A. Mohr-Bruce
Personnel Research Psychologist
Code 12
GS-180-12

Reginald Bruce
Personnel Research Psychologist
Code 12
GS-180-12

Ernie G. Ocampo
Supply Clerk
Code 21
GS-2005-04

Sharon W. Kalberer
Personnel Assistant
Code 00B
GS-203-07

Robyn L. Baldwin
Personnel Research Psychologist
Code 15
GS-180-09

Susan King
Operations Research Analyst
Code 11
GS-1515-11

Robert M. Holmes Jr.
Math/Statistician
Code 11
GS-1529-12

Lee J. Norton
Administrative Officer
Code 11
GS-341-11
New Under Secretary of the Navy

Washington (NNS)--J. Daniel Howard was sworn in as Under Secretary of the Navy on 7 August.

New Chairman of Joint Chiefs of Staff

On 10 August, President George Bush named Army General Colin L. Powell to become Chairman of the Joint Chiefs of Staff (JSC) when ADM William J. Crowe retires on 1 October. At 52, Powell is one of the youngest four-star generals in American peacetime history and if confirmed by the Senate for the Chairman post will become the first black officer to hold the nation's highest military post.

Retired

Mike Luszczak
Personnel Research Psychologist
Code 14
GS-180-12

Promotions

Darla M. Leithiser, GS-08
Chester J. Pabiniak, GS-12
Mary A. Quenette, GS-11

Product Award Recipient for the Month

Michael Shoecraft
Military Essentiality Codes

September

New Employees

Bernard J. Ulozas
Training Specialist
Code 15
GS-1712-12

David K. Dickason
Personnel Research Psychologist
Code 16
GS-180-11

Gina L. Edelen
Clerk-typist
Code 21
GS-322-03

Regina G. Bragg
Library Technician
Code 23
GS-1411-4
Paul J. Carney
Supply Clerk
Code 21
GS-2005-04

Joan L. Dunbar
Budget Analyst
Code 21
GS-560-11

Mark H. Inlow
Statistician
Code 14
GS-1530-09

Separations

Martin T. Fujitani
Mathematics Aid
Code 11
GS-1521-04

Antoinette R. Long
Mathematics Aid
Code 11
GS-1521-04

Sylvia C. Jorrin
Secretary (Typing)
Code 12
GS-318-04

John J. Pass
Personnel Research Psychologist
Code 12
GM-180-15

Jeffrey P. Hartung
Personnel Research Psychologist
Code 14
GS-180-05

Jennifer Thorp
Clerk-typist
Code 23
GW-322-04

Kent M. Suarez
Personnel Research Psychologist
Code 12
GS-180-09

Aaron A. Phoenix
Clerk-typist
Code 12
GS-322-03

New Department Director

Wally Wulfeck
Training Technology Department
Code 15

Center Assignments

Laurie Broedling, Code 16, Organizational Systems Department, headed a special research effort for the Navy Secretariat involving Total Quality Management (TQM).

In-house Quarterly Reviews

7 September, Code 14 started the Center's In-house Quarterly Reviews with detailed information on major projects: Operational Training, Total Force Training, and USMC Training. 11 and 12 September, Code 11 presented information on these major projects: Navy

13 September, Code 16 presented research efforts in the area of Acquisition and Logistics.


28 September, Code 16 gave a continuation presentation of Acquisition and Logistics, followed by Code 15 presenting information on Schoolhouse Training.

Retired

Lois J. Peyric
Secretary (Typing)
Code 01A
GS-318-07

Visitors

Dr. William L. Maloy, Director, Instructional Development and Education Support Department, Naval Education and Training Program Management Support Activity, Pensacola, FL.

RADM Francis R. Donovan, Commander, Naval Military Personnel Command (CNMPC)/Assistant Deputy Chief of Naval Operations (MPT) (OP-01B)/Deputy Chief of Naval Personnel

Dr. Richard Niehaus, Assistant for Human Research Analysis/Head, Program and Research Assessment and Control Branch (OP-16H).

Promotions

Yvonne S. Baker, GS-05
Meei-You Lee, GS-12
Dennis R. Schurmeier, GS-13
Wallace H. Wulfeck II, GM-15

Product Award Recipient for the Month

P-A. Federico
Performance Evaluation Software ("BATMAN/ROBIN")

ADM Crowe Retires

The nation’s highest ranking military member will retire this fall after 47 years in uniform. Chairman of the Joint Chiefs of Staff, ADM William J. Crowe, Jr., announced his decision to
retire on NBC’s “Meet the Press,” 30 June. ADM Crowe’s term as chairman ended 30 September. Circa 1960s, ADM Crowe, as a Lieutenant Commander served a tour ashore as a Military Personnel researcher in the Personnel Research Division of the Bureau of Naval Personnel, one of the predecessor organizations of NPRDC.

October

New Employees

Mary A. Wentink
Computer Specialist
Code 16
GS-334-12

Paul H. Radtke
Personnel Research Psychologist
Code 15
GS-180-11

Wendy N. Arent
Training Specialist
Code 15
GS-1712-11

Roya L. Bauman
Personnel Research Psychologist
Code 16
GS-180-11

David G. Ward
Personnel Research Psychologist
Code 13
GS-180-09

PNC Mhanny T. Padiernos
YN2 Patrick Polus
Code 22

Separations

Spacetetta M. Vann
Clerk-typist
Code 14
GW-322-03

Carol S. Greebler
Personnel Research Psychologist
Code 16
GS-180-12

Alan W. Whisman
Operations Research Analyst
Code 11
GM-1515-13

Doris A. Young
Supply Clerk (Typing)
Code 21
GS-2005-04

Command Inspection

NPRDC’s Command Inspection was conducted by the BUPERS/NAVMILPERSCOM Inspector General, CAPT R. W. Youman, USN, assisted by an inspection party of eight members.
Promotions

Amy L. Culbertson, GS-12
Paul H. De Young, GS-11
Scott D. Grier, GS-11
Arneva Y. Johnson, GS-04
Delora M. McDaniel, GS-12
Margen H. Metcalfe, GS-09
Sandra K. Wetzel Smith, GM-14

Product Award Recipient for the Month

Carol Mullins
USMC Manpower Planning Model

November

New Employees

Anne L. Garcia
Personnel Research Psychologist
Code 14
GS-180-12
(Duty Station: Indian Head, MD)

Cheryl C. Louie
Operations Research Analyst
Code 11
GS-1515-09

Patricia G. Roth
Personnel Research Psychologist
Code 12
GS-180-09

Patrick H. McCann
Personnel Research Psychologist
Code 14
GS-180-12

Stephanie B. Kewley
Personnel Research Psychologist
Code 12
GS-180-12

Separations

Janell M. Jures
Personnel Research Psychologist
Code 15
GS-180-07

Scott D. Grier
Computer Specialist
Code 15
GS-344-09

Pamela J. Kidder
Personnel Research Psychologist
Code 12
GS-180-12
Promotions

Jules I. Borack, GM-15
Joan L. Dunbar, GS-11
Michelle D. Hardy, GS-04
Brian D. Kewley, GS-11
Sean R. Malloy, GS-11
Murray W. Rowe, GM-15
Yuh-Ling Su, GS-12

New Department Directors

Jules Borack
Personnel Systems
Code 12

Murray Rowe
Manpower Systems
Code 11

Product Award Recipient for the Month

Idell Neumann
Development and Evaluation of Composite to Predict Officer Potential

Information on Army Research

Dr. Carlos Rigby gave a presentation on organizational development and leadership work ongoing at the Army Research Institute.

December

New Employees

Gary L. Spurr         Carol A. Hayashida
Computer Specialist  Program Analyst
Code 11              Code 16
GS-334-12            GS-345-12

Gary A. Ropp
Operations Research Analyst
Code 11
GS-1515-11
Separations

Harriman Olave
Clerk
Code 16
GS-303-02

James Williams
Operations Research Analyst
Code 11
GS-1515-11

Promotions

Angelique M. Reynolds, GS-12
Ronald D. Serafine, GS-11
Ann Wahrenbrock, GS-11
John Ellis, GM-14
Daniel Segall, GS-13
James M. Apple, GS-11
Gina L. Edelen, GS-04

Product Award Recipient for the Month

David Tyburski
Computerized Executive Network Survey System
HISTORY OF THE CENTER

1 Jul 51 The Naval Personnel Research Unit, San Diego, CA was established under the Bureau of Naval Personnel to provide a personnel research facility close to the operating forces.

1 Jul 52 The U.S. Naval Personnel Research Field Activity was established in Washington, DC to provide an activity close to Navy users and systems.

26 May 61 SECNAV Notice 5450 redesignated the two field activities as U.S. Naval Personnel Research Activities.

10 Dec 68 OPNAV Notice 5450 redesignated the Naval Personnel Research Activity, Washington, DC as the Naval Personnel Research and Development Laboratory due to increased emphasis on R&D.

1 Aug 69 The Chief of Naval Operations redesignated the Naval Personnel Research Activity, San Diego, CA as the Naval Personnel and Training Research Laboratory.

1 May 73 The Secretary of the Navy approved the establishment of the Navy Personnel Research and Development Center (NPRDC), San Diego, CA to provide a corporate personnel laboratory with an in-depth capability in the behavioral and management sciences. This action consolidated those research functions assigned to the Naval Personnel Research and Development Laboratory, the Naval Personnel and Training Research Laboratory, and the Personnel Research Division of BUPERS.

17 May 75 OPNAV Notice 5450 changed command and support responsibility for NPRDC from the Chief of Naval Personnel to the Chief of Naval Material (CNM).

22 May 80 NАVМАTINST 5450.27B modified the mission statement to include Technical and Consultant Support and Services to CNO in the design, development, and operation of the Navy personnel system.

1 Oct 80 The Commanding Officer, NPRDC directed to report for additional duty to DCNO (Manpower, Personnel, and Training) (OP-01).

6 May 85 The disestablishment of CNM changed command and support responsibility for NPRDC from CNM to Chief of Naval Research (CNR).

24 Feb 86 The Secretary of the Navy changed command and support responsibility for NPRDC from CNR to Space and Naval Warfare Systems Command (SPAWAR).

27 Mar 88 Management control of NPRDC was transferred from SPAWAR to Chief of Naval Personnel (CNP)/Commander, Naval Military Personnel Command (NMPC). NMPC was specifically charged with direct management of NPRDC.
RESOURCES

NPRDC's funding as of 30 September 1989 is shown in Figures 3 and 4.

Funding

NPRDC operates under the RDT&E Resources Management System. Under this system, the final fiscal responsibility resides with the Commanding Officer and certain financial responsibilities are delegated to cost center managers. The reporting procedures associated with the Resources Management System provide financial information for both internal management and higher authority.

The principal mission sponsor—and prime "customer" for Center RDT&E products—is the Deputy Chief of Naval Operations for Manpower, Personnel, and Training (OP-01)/Naval Military Personnel Command. Significant sponsorship also comes from the Chief of Naval Research, the Marine Corps, and other Navy and DoD organizations including the Systems Commands. The majority of RDT&E that the Center conducts is supported by directly funded projects. A small portion of the funds are independent research (IR) and independent exploratory development (IED). In addition, a substantial portion of research, development, and analysis consists of "reimbursables"—specific problem-solving efforts requested by, and supported with funding from other organizations.

Personnel

Because R&D programs at NPRDC are mission-oriented, it is essential that the research force be multidisciplinary so that early consideration may be given to alternative approaches in research endeavors. The Center's staff is creatively diverse and equipped to meet this prerequisite.

As of 30 September 1989, the staff numbered 22 military and 300 civilian personnel. Of the civilians, 189 are professional and technical personnel representing a variety of disciplines. Of the professional and technical staff, 70 percent hold advanced degrees. The military staff consists of line officers and senior enlisted personnel. The military personnel offer extensive fleet and subject-matter expertise that helps ensure the operational relevance of NPRDC's R&D endeavors. This broad personnel base allows NPRDC to maintain a highly effective, multidisciplinary team approach to its R&D.

Facilities

NPRDC is located on Point Loma in San Diego, California, with a support office in Washington, DC. The Center occupies 19 buildings under a host-tenant arrangement with the Naval Ocean Systems Center. In addition to office space for research and support personnel, the following research facilities are housed at the Center:

- Training Research Computing Facility (TRCF) provides general UNIX-based computing services and access to the Defense Data Network (DDN) for Center research and support staff. The facility is supported by the Training Technology Department and provides computational and electronic mail support for research in areas of artificial
Figure 3. Funds--actual $30.2M (as of 30 September 1989).
Figure 4. Distribution of funds.
intelligence, computer-assisted instruction, cognitive science, testing, and training. The TRCF equipment suite includes two Digital Equipment Corporation (DEC) VAX-11/780 computers and numerous peripherals.

- **Manpower and Personnel Computing Facility (MAPCOM)** provides general purpose IBM-based computing services for Center researchers and administrative operations. The facility is specially equipped to serve psychologists, economists, mathematicians, and computer scientists whose research requires the organization and analysis of large data files, the development of large-scale mathematical models, the design of information delivery systems, and general-purpose scientific computing. The MAPCOM features an IBM 4381/91, multiple tape drives, and over 40G in disk storage.

- **Systems Simulation Facility** serves cognitive and organizational psychologists who are concerned with the measurement of human performance, neuroscience applications in personnel readiness assessment, and motivation of people in organizations. It includes equipment of biopsychological and psychophysiological measurement.

The above facilities are supplemented by two mobile laboratories that provide R&D support at sites away from the Center, and by a large inventory of computer equipment ranging from microcomputers supporting specific projects to the Center’s IBM 4341, which is used both as a stand-alone processor and as a remote job entry station.

**R&D PROGRAM**

The R&D program at NPRDC addresses five functional areas: Manpower, Personnel, Testing Systems, Education and Training, and Organizational Systems. Within these five functional areas, we have 17 product lines, each of which has one or more projects.

**Manpower**

Develops new systems and methods for determining manpower requirements, allocating manpower resources, developing personnel inventories, and distributing/assigning those inventories to improve military readiness and control costs.

- **Navy Force Management** develops large-scale systems for determining manpower requirements, allocating manpower resources, and managing the flow of personnel (accession, retention, promotion) to attain desired skill inventories within constraints of cost and feasibility.

- **Assignment Systems** designs systems for optimal job-person matches based on cost, fleet requirements, individual preferences, and a wide variety of assignment policies.

- **USMC Force Management** designs/develops systems to improve the accuracy and effectiveness of USMC manpower plans.

- **Information Support** investigates and evaluates Information Resource Management (IRM) technologies for MPT applications by exploring new tools and techniques,
developing prototype systems, and distributing promising technologies to functional application development efforts throughout NPRDC and the MPT IRM community.

**Personnel**

Develops systems and procedures for recruiting, selecting, classifying, and utilizing officer, enlisted, and civilian personnel to improve performance and retention. Serves as the Chief of Naval Operations’ primary personnel survey resource to coordinate and conduct attitude surveys in the Navy and Marine Corps and to develop new survey technology.

- **Recruiting Systems** develops market analysis, supply projections and resource management models, and systems to support accession policy and recruiting objectives.

- **Selection and Classification** develops systems to predict military performance and tenure and to establish standards for school/job entry.

- **Career Development Systems** develops systems to analyze and develop policies and procedures that maximize the utilization of personnel throughout their careers.

- **Navy Personnel Survey System** develops systems to improve the quality and timeliness of personnel survey data.

- **Family Support Research** develops systems to evaluate programs that are designed to increase the quality of life for military families.

**Testing Systems**

Develops and evaluates personnel testing systems and Computerized Adaptive Testing (CAT) versions of the Armed Services Vocational Aptitude Battery (ASVAB). Serves as lead DoD laboratory for overall management of CAT research, development, implementation, and scientific support of the system.

- **Testing Research** provides research support for the development of the CAT version of the ASVAB as well as for the current operational paper-and-pencil version of the test battery (P&P-ASVAB).

- **Testing Systems** develops, procures, tests, and evaluates the microcomputer-based delivery system for the CAT-ASVAB program and is responsible for the design, development, and implementation of the CAT-ASVAB Maintenance and Psychometric (CAMP) facility.

**Education and Training**

Develops training technologies to enhance personnel readiness. Employs existing and emerging technologies in the development and application of training systems to alleviate Navy training problems and to improve the Navy’s operational readiness.
• **Curriculum Acquisition, Development, and Revision** develops, tests, and evaluates systems designed to support the development of curriculum materials. These include automated systems designed to support instructor delivered training materials and systems for computer delivered training materials.

• **Schoolhouse Training** develops content specific instructional materials and processes designed to enhance the effectiveness and lessen the cost of the delivery of formal Navy schoolhouse instruction.

• **Operational Training** develops training programs to support specific operational weapons systems including enhancements to existing programs and application of emerging training technologies to these systems.

• **Total Force Training** develops training resource management tools and warfare area and rating training continua methodologies.

• **U.S. Marine Corps Training** develops Marine Corps specific training programs including development of biopsychometric tools for the assessment of performance.

**Organizational Systems**

Conducts research and development on efficiency and effectiveness of Navy organizations. Designs programs of improvement in the structures, control systems, and functions of organizations with particular emphasis on quality and productivity.

• **Logistics**--Determines requirements, designs, tests, and evaluates management methods and techniques appropriate for quality and productivity improvement in Navy logistics organizations. Research efforts are focused primarily on measurement-based approaches to systems analysis, process and performance measurement, and application of organizational theory. Techniques currently under development include Productivity Gain-Sharing (PGS), Total Quality Management (TQM) organization redesign technology, and program evaluation of experimental personnel policy changes.

• **Acquisition**--Determines requirements, designs, tests, and evaluates management methods and techniques appropriate for quality and productivity improvement in Navy acquisition organizations. Also, develops and tests innovative methods to design, administer, and evaluate management and professional training. In addition, job aids are developed and tested to determine their effects on workload accomplishment.

Other research efforts include developing and testing innovative methods to design, administer, and evaluate management and professional training. In addition, job aids are developed and tested to determine their effects on workload accomplishment.

**Fleet Liaison Office**

In addition, NPRDC has set up a Fleet Liaison Office (FLO) to maintain liaison with Fleet Commands, Type Commands, Systems Commands, CNO Agencies, and R&D Centers in matters related to NPRDC's mission areas, and serves as the Center's focal point for investigating and
responding to requests for technical assistance. Monitors on a continuing basis operational problems, requirements, and priorities to determine RDT&E implications. Provides on-site consultative services to operational commands and performs quick-reaction studies or special projects as needed. Facilitates the implementation of the Center’s R&D products. Also, the Fleet Liaison Office serves as the Center’s agent for the Navy Science Assistance Program (NSAP).
Publications and Presentations

Technical Reports


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1 Unclassified, public release only.

**Administrative Publications**


**Technical Notes**


**Journal Articles and Books**


Presentations


Thomas, P. (November 1989). *Pregnancy in the Navy.* Presentation at the meeting of the Defense Advisory Committee on Women in the Services, Norfolk, VA.


DISTRIBUTION LIST

Assistant for Planning and Technical Development (OP-01B2)
Commander, Naval Military Personnel Command
Chief of Naval Operations (Historian)
Defense Technical Information Center (DTIC) (2)