COMMAND HISTORY for 1987

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Command History for 1987

Compiled and reviewed by
Carmen Scheifers
Rachel Dalton

Approved by
Ted M. I. Yellen

Released by
B. E. Bacon
Captain, U.S. Navy
and
J. S. McMichael
Technical Director

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Navy Personnel Research and Development Center
San Diego, California 92152-6800
**Command History for 1987**

This report lists NPRDC's mission, leadership assignments, organization, CO/TD biographies, key personnel, chronology of 1987 events, history of the Center, resources (financial, manpower, facilities), R&D program, and publications and presentations.
INTRODUCTION

Mission

The mission of the Navy Personnel Research and Development Center (NPRDC) during 1987 was to be the principal Navy RDT&E center for manpower, personnel, education, training, and human factors, and for providing technical support to the Chief of Naval Operations in these areas.

The Navy Personnel Research and Development Center was established at San Diego on 1 May 1973. This was an initial step toward integrating the Navy's manpower and training research to improve the management, administration, selection, classification, training, performance, and retention of Navy personnel. The Center was comprised of assets from the Navy Personnel and Training Research Laboratory, San Diego; the Naval Personnel Research and Development Laboratory, Washington, DC; and the Personnel Research Division of the Bureau of Naval Personnel. All of these components were then subsequently disestablished.

Leadership Assignments

Personnel administration and organizational performance; human performance; manpower management; human factors support to naval ships, ship systems, and Marine Corps systems (other than aircraft); and instructional technology.

ORGANIZATION

The Center's reporting relationships are depicted in Figure 1. To increase our responsiveness to pressing Navy needs as well as to exploit technological opportunity, NPRDC was reorganized in 1987 into six departments, each concentrating on a major area of mission function. The structure is as follows (NPRDC's organization chart is represented in Figure 2):

<table>
<thead>
<tr>
<th>Departments</th>
<th>Product Areas</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manpower Systems</td>
<td>Manpower and Personnel</td>
<td>Manpower and Personnel</td>
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<tr>
<td>Personnel Systems</td>
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<td>Computing Facility</td>
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<td>Testing Systems</td>
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<td>Training Technology</td>
<td>Training</td>
<td>Training Research Computing Facility</td>
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<td>Training Systems</td>
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<tr>
<td>Human Factors</td>
<td>Human Factors</td>
<td>Systems Simulation Facility</td>
</tr>
<tr>
<td></td>
<td>Human Resources Productivity</td>
<td>Command Systems Facility</td>
</tr>
</tbody>
</table>
Figure 1. NPRDC reporting relationships.

Figure 2. NPRDC 1987 organization.
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, Florida. 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 VOLANDOR (SS 490), USS SEGUNDO (SS 398), USS SALMON (SS 593) (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, RADM Roger Bacon, USN, is currently assigned as Commander, Submarine Group 8, Naples, Italy, 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 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-development 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 '83, 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 of Long Island University, where he taught for 10 years.
<table>
<thead>
<tr>
<th>Code</th>
<th>Office</th>
<th>Name</th>
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<tbody>
<tr>
<td>00</td>
<td>Commanding Officer</td>
<td>Bacon</td>
</tr>
<tr>
<td>00A</td>
<td>Deputy EEO</td>
<td>Mouzon</td>
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<td>00B</td>
<td>Civilian Personnel</td>
<td>Hager</td>
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<td>00C</td>
<td>Internal Review</td>
<td>Reynolds</td>
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<td>00D</td>
<td>Security/Safety</td>
<td>Ackerman</td>
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<td>01</td>
<td>Technical Director</td>
<td>McMichael</td>
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<tr>
<td>01A</td>
<td>Associate Technical Director</td>
<td>Thorpe</td>
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<td>01B</td>
<td>Executive Assistant</td>
<td>Kuhn</td>
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<td>01C</td>
<td>DC Detachment</td>
<td>Larson</td>
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<td>Almendinger</td>
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<td>Contracts</td>
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<td>Administrative &amp; Tech. Support</td>
<td>Garcia</td>
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<td>Scheifers</td>
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<td>233</td>
<td>Graphics</td>
<td>Stout</td>
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<td>25</td>
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<td>Dalton</td>
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<td>31</td>
<td>Fleet Liaison</td>
<td>McGrath</td>
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<td>Sorenson</td>
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<td>411</td>
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<td>413</td>
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<td>Grossman</td>
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<td>Dockstader</td>
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<td>Lewis</td>
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<td>511</td>
<td>Senior Scientist</td>
<td>Aiken</td>
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<td>621</td>
<td>Selection and Standards</td>
<td>Thomas</td>
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<td>Career Development</td>
<td>Morrison</td>
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<td>Survey Research</td>
<td>Somer</td>
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<td>63</td>
<td>Computerized Testing Systems</td>
<td>Sands</td>
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<td>631</td>
<td>Design and Development</td>
<td>Sands (Acting)</td>
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<td>632</td>
<td>Evaluation and Maintenance</td>
<td>Borack</td>
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## Chronology of 1987 Events

### January

#### New Employees

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<tr>
<th>Name</th>
<th>Position</th>
<th>Code</th>
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<tr>
<td>James Boyle</td>
<td>Travel Clerk</td>
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<td>2132-04</td>
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<tr>
<td>Velia Fematt</td>
<td>Secretary</td>
<td>52</td>
<td>318-04</td>
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<tr>
<td>Robert Pinkney</td>
<td>Statistician</td>
<td>61</td>
<td>520-11</td>
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<tr>
<td>Walter Rudolph</td>
<td>Consultant</td>
<td>42</td>
<td>ED-180</td>
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<tr>
<td>Joseph Droner</td>
<td>Comp. Spec.</td>
<td>42</td>
<td>334-12</td>
</tr>
<tr>
<td>Fidel Medina</td>
<td>Mail &amp; File Clerk</td>
<td>22</td>
<td>305-03</td>
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#### Separations

<table>
<thead>
<tr>
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<tr>
<td>Martin Molof</td>
<td>Pers. Res. Psych.</td>
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<td>180-12</td>
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<tr>
<td>Pam Ganser</td>
<td>Lib. Tech.</td>
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<td>01411-04</td>
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<tr>
<td>Mark Rosenstein</td>
<td>Comp. Prog. Anal.</td>
<td>05B</td>
<td>334-12</td>
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<td>Louis Weitzman</td>
<td>Comp. Prog. Anal.</td>
<td>05B</td>
<td>334-12</td>
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<tr>
<td>Martin Wiskoff</td>
<td>Supv. Pers. Res. Psych.</td>
<td>05B</td>
<td>334-12</td>
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<tr>
<td>Tim McCandless</td>
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<td>Henrietta Borunda</td>
<td>Sec. (Typing)</td>
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<td>318-04</td>
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<td>James Hollan</td>
<td>Supv. Pers. Res. Psych.</td>
<td>05B</td>
<td>180-14</td>
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<tr>
<td>Michael Nakada</td>
<td>Oper. Res. Anal.</td>
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<td>1515-12</td>
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<td>Norman Lonsdale</td>
<td>Comp. Prog.</td>
<td>61</td>
<td>334-12</td>
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#### Visits/Briefs

On 29 January 1987, a briefing was given to LTGEN Cheatham, Headquarters, Marine Corps.
February

New Employees

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Nenita Mata</td>
<td>Acct. Tech.</td>
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<td>525-05</td>
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<td>Hal Walton</td>
<td>Cont. Spec.</td>
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<td>1102-11</td>
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<tr>
<td>Clement Urban</td>
<td>Ind. Eng.</td>
<td>41</td>
<td>896-12</td>
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<tr>
<td>Anthony Holt</td>
<td>Clerk</td>
<td>62</td>
<td>303-2</td>
</tr>
<tr>
<td>Roxane Smith</td>
<td>Clerk</td>
<td>61</td>
<td>303-2</td>
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Separation

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<th>Position</th>
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<th>Grade</th>
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<tr>
<td>Ed Hutchins</td>
<td>Pers. Res. Psych.</td>
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Promotions

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<th>Grade</th>
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<tr>
<td>John Folchi</td>
<td>Mathematician</td>
<td>63</td>
<td>1520-11</td>
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Guest Speaker

In celebration of Black History Month, the featured guest speaker was Dr. Joseph W. Watson. Dr. Watson is an Associate Professor of Chemistry and Vice Chancellor for Undergraduate Affairs at the University of California, San Diego.

Presentation

Professor Frank L. Schmidt (Ph.D.), College of Business Administration, University of Iowa, Assessing Utility of Psychological Tests Supplemental to ASVAB.
March

New Employees

Shirley Stolarz  Mary Delmas  Anne Wahrenbrock  Dianne Murphy
GS-318-5

Separations

Helen Lozano  Floyd Creamer
Procurement Clerk  Mail & File Clerk
Code 21  Code 22
GS-1106-5  GS-305-4

Retired

CAPT Franklin D.
Cooper III, USAF

Promotions

Larry Carroll  Judy Hollis
Comp. Spec.  Accountant
Code 63  Code 21
GS-334-07  GS-510-09

Top Honors

LT Uwanna Thomas, Code 211, took top honors by winning two titles in the Armed Forces Bodybuilding Championship, held at Camp Pendleton. Military personnel from all the services, stationed all over the country, overseas, and around the world, gather for this yearly event.

Uwanna took Overall Women's Navy Champion and top award in her class, Lightweight Division.
Visits/Briefs

On 10-11 March 1987, a briefing was given to Dr. Steve Sellman, Office of the Assistant Secretary of Defense and Dr. Anita Lancaster, Executive Secretary, Defense Advisory Committee on Military Personnel Testing.

On 27 March 1987, two briefings were given to (1) the Task Force on Technology in the Schools of the Future and (2) Mr. Ferdinand Robenhymer, Navy Military Personnel Command (NMPC-7), Mr. Richard Martin, Navy Comptroller's Office, Mr. William McGaffin, Office of the Secretary of Defense (Comptroller), and Mr. Thomas Lewis, Office of Management and Budget.

On 30 March 1987, a briefing was given to BGEN Robert Milligan, Director, Development Center, Marine Corps Development and Education Command.

DoD/Educational Testing Service Conference on Job Performance Measurement Technologies

The DoD/Educational Testing Service (ETS) Conference held in March, featured the Honorable Dr. David J. Armor, Principal Deputy Assistant Secretary of Defense (OASD) for Force Management and Personnel (FM&P), as a guest speaker.

Invited addresses from David A. Weeks, President, Weeks and Associates (previous Vice-president of The Conference Board for Research and Program), Dr. Donald A. Hicks, President of Hicks and Associates, previous Undersecretary of Defense (Research and Engineering), underscored the need for further research in this field. Additionally, speeches by Major General Stuart Sherman (Ret.), Director for Manpower, USAF, and Dr. Wayne S. Sellman, Director, Accession Policy, OASD (FM&P), highlighted current and future trends in the field of job performance measurement (JPM).

A published Conference Proceedings was available to document research achievements within the broad field of JPM. A number of papers from this conference was selected for development into chapters that will comprise a book on military performance measurement. Co-Chairpersons Drs. Jerry Laabs and Herb Baker, Code 621, helped in developing this conference, since it relates directly with their JPM project.

The overall objective of this conference was to provide an opportunity to demonstrate the progress of the Joint Service Job Performance Measurement/Enlistment Standards Project; the responsiveness of the Services to the Congressional mandate; and with the involvement of ETS, an ideal mechanism to stimulate technology transfer between the civilian and military research communities.
**April**

**New Employees**

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<thead>
<tr>
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<tbody>
<tr>
<td>Paul Robertson</td>
<td>Statistician</td>
<td>Code 51</td>
</tr>
<tr>
<td>Susan L. Hager</td>
<td>Head, Civ. Pers.</td>
<td>Code 00B</td>
</tr>
<tr>
<td>Vincent Unpingco</td>
<td>Comp. Spec.</td>
<td>Code 63</td>
</tr>
<tr>
<td>Adrianne Collins</td>
<td>Clerk</td>
<td>Code 61</td>
</tr>
<tr>
<td>John Shelton</td>
<td>Supply Clerk</td>
<td>Code 21</td>
</tr>
<tr>
<td>Hilario Gabrintina</td>
<td>Supply Clerk</td>
<td>Code 41</td>
</tr>
<tr>
<td>AWC Carl Czech</td>
<td>Chief Anti-submarine Warfare Operator</td>
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**Separations**

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<td>Lena Taitano</td>
<td>Sec. (Typing)</td>
<td>Code 41</td>
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<td>Barbara Anderson</td>
<td>Pers. Sup. Supv.</td>
<td>Code 00B</td>
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<tr>
<td>Maria Woolery</td>
<td>Ed. Asst.</td>
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<tr>
<td>Erma Delgado</td>
<td>Sec. (Typing)</td>
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<tr>
<td>Dulcie Pike</td>
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**Promotions**

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<tr>
<td>Christine Hall</td>
<td>Proc. Clerk</td>
<td>Code 21</td>
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<tr>
<td>Patricia Smith</td>
<td>Mgmt. Asst.</td>
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<tr>
<td>Ren'ee Rothlein</td>
<td>Sec. (Typing)</td>
<td>Code 62</td>
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**SECNAV Resigns and Orders Closure of NPRDC**

Secretary of the Navy Lehman resigned his government position effective on 10 April 1987. In the closing out of his tenure in office he signed, among many other things, an order to close NPRDC, effective with the end of the current fiscal year (i.e., as of 1 October 1987).
May

New Employees

Lilia Garcia  
Acct. Tech.  
Code 21  
GS-525-5  

Gary Toth  
Ind. Eng.  
Code 41  
GS-896-9  

Pamela Thornton  
Clerk  
Code 63  
GS-303-2  

Kirk Keel  
Ed. Asst.  
Code 23  
GS-1087-5  

Julie Hoxie  
Code 62  
GS-180-9  

Anne Leopold Garcia  
Consultant  
Code 31  
EC-180  

Irene Holloway  
Sec. (Typing)  
Code 41 (DC Det.)  
GS-318-6  

Ruth Dunnavant  
Sec. (Typing)  
Code 51  
GS-318-5  

Sheila Fleming  
Sec. (Typing)  
Code 621  
GS-318-5  

Separations

Promotion

Reynaldo Monzon  
Code 63  
GS-180-11  

Australian Navy Visits Center

On Friday, 15 May, representatives from the Royal Australian Navy visited NPRDC.

Interim XO

CDR Warren Millard, Code 41, relieved CDR John Kohler as Executive Officer. CDR Millard's assignment is interim until CDR Sylvia Almendinger arrives in mid-July.

Science and Technology Review

Orv Larson coordinated the Science and Technology Review, which was held 12-14 May for Dr. Earl Alluisi (OUSD(R&AT)) assistant for Training and Personnel Systems Technology. The reviewers were Earl Alluisi, Jesse Orlansky, Stan Collyer, Bob Carroll, Glenn Spaulding, Bob Hayes, and Judy Moracca.
Good News!


Navy Secretary James Webb yesterday reversed an order by former Navy Secretary John F. Lehman, Jr. to close a Navy think tank on Point Loma that employs 300 civilian white-collar workers.

Webb's decision, made less than five weeks after Lehman directed that the Navy Personnel Research and Development Center be shut down, came as welcome news to center workers.

"That's good news to us," said James McMichael, technical director at the center.

"We hope we can take this and strengthen our contribution to the Navy," said McMichael.

The center produces personnel, training and education research projects for the service. It has been operating on Point Loma for 14 years. There will not be any cuts in its civilian or military staff of 30 sailors, said McMichael.

One project now under way would allow all four services to replace its armed services entrance exam with a new exam, designed by the navy center.

The project would allow service officials to make more realistic job assignments with more reliable information taken from the new test, said McMichael.

Lehman ordered the Navy to close the center during a flurry of reorganization decisions made on April 13, his last day in office.

Webb recently agreed to review Lehman's reorganization directives at the request of Adm. Carlisle A. H. Trost, the chief of naval operations.

Trost had openly criticized Lehman's April 13 decisions soon after Lehman left office.

First notified of Webb's reversal was Rep. Bill Lowery, R-San Diego.

"Webb obviously took the time to consider and analyze the important work performed at the facility," Lowery said.


The directive came as a "bolt out of the blue," according to one senior Navy official and was not believed to be the result of any analysis or mandated personnel cuts.

"We're going to forget this and try and remember some of John Lehman's achievements in improving material readiness in the fleet. We are very supportive of the Office of the Secretary of the Navy and its occupant. We're very glad to line up and be supportive of Mr. Webb," said McMichael.
June

New Employees

Cheryl Louie
Code 61
GS-1515-9
Yuh-Ling Su
Code 61
GS-1529-9
Richard Goodwin
Comp. Spec.
Code 51
GS-334-7
Ernest Pojas
Clerk-Typist
Code 22
GS-322-4
Angelique Reynolds
Code 52
GS-180-09
Burton Baker
Comp. Spec.
Code 51
GS-334-07
Sandra Brown
Pers. Clk/Asst.
Code 00B
GS-203-05
Scott Grier
Comp. Spec.
Code 51
GS-334-07
Christopher Sager
Code 52
GS-180-07
Eric J. Godtland
Code 51
GS-1515-07
Jeffrey Hartung
Code 52
GS-180-05

Separations

Susan Campa
Clerk Typist
Code 52
GS-322-3
Michelle Gross
Comp. Prog.
Code 51
GS-334-09
Guadalupe Castro
Sec. (Typing)
Code 41
GS-318-05
Huong Ton
Elec. Eng.
Code 41
GS-855-07
Scott Newcomb
Code 31
GS-180-12
Tamara Lopez
Psych. Tech.
Code 51
GS-181-07
Joyce Ardale
Editor
Code 62
Sharon Kalberer
6/19/87

Retirements

Ken Fousel
Admin. Officer
Code 25
GM-341-13
CDR John E. Kohler, JR. USN

Visits/Briefs

On 25 June 1987, a briefing was given to RADM W. P. Houley, Director, Military Personnel Policy Division (OP-13).

On 30 June 1987, a briefing was given to RADM Austin, Superintendent, Naval Postgraduate School.

Presentations

Dr. William Rouse, Georgia Institute of Technology, School of Industrial and Systems Engineering:

An Architecture for Intelligent Interfaces: Outline of an Approach to Supporting Operators of Complex Systems

and

July

New Employees

David Rousseau  
Code 41  
GS-830-12

Diane Williams  
Code 52  
GS-180-12

Alice Berwert  
Sec. (Typing)  
Code 41  
GS-318-05

Chester Pabiniak  
Statistician  
Code 61  
GS-1530-11

Dorothy Powell  
Proc. Clerk  
Code 21  
GS-106-04

Wilbert Young  
Code 52  
GS-180-12

Meei-You Lee  
Comp. Scientist  
Code 61  
GS-1550-11

Brad Rosbrook  
Statistician  
Code 61  
GS-1530-09

Separations

Rebecca Kelly  
Sec. (Typing)  
Code 63  
GS-180-06

Dan Windisch  
Code 51  
GS-180-12

Sally Moore  
Pers. Asst.  
Code 00B  
GS-203-06

Rick Goodwin  
Comp. Spec.  
Code 51  
GS-334-07

Brad Rosbrook  
Statistician  
Code 61  
GS-1530-09

Visits/Briefs

On 31 July 1987, a briefing was given to LTGEN Cheatham, Headquarters, Marine Corps.

Guest Speaker

Dr. Cynthia Miller of Spelman College, Atlanta, Georgia and a Code 52 Summer Faculty employee presented a summary of her work in Left and Right Brain Hemispheric Specialization as applied to Education and Training.
### August

#### New Employees

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<td>Sherry Patrick</td>
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<td>Code 62</td>
<td>GS-318-4</td>
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<td>Samantha Maddox</td>
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<td>GS-322-03</td>
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<td>Stephen Seneca</td>
<td>Clerk-Typist</td>
<td>Code 00</td>
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<tr>
<td>Zachary Balanay</td>
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<td>GS-2005-04</td>
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#### Separations

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<td>Raymond Lundgren</td>
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<td>GS-334-09</td>
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<td>Anthy Holt</td>
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<td>Code 62</td>
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#### Retired

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Comprehensive Review of NPRDC

In response to a recommendation by the Chief of Naval Operations and the Secretary of the Navy, VADM Glenwood Clark, USN, Commander, Space and Naval Warfare Systems Command (SPAWARSYSCOM), directed a comprehensive review to be made of the Center's mission, programs, and resource applications. The review focused, from a Navy-user perspective, on the question, "Are we asking for and getting what we need from NPRDC?" A Flag Level Steering Committee was established to guide and direct the review supported by a Working Group.

Steering Committee

RA DM John Weaver, USN (Chairman), Vice Commander, SPAWAR-09
RA DM Ralph West, USN, Director, Human Resource Management Division, OP-15
Mr. Tony DiTrapani, Director, Civilian Personnel Policy/Equal Employment Opportunity, Office of the Secretary of the Navy for Manpower and Reserve Affairs, OASN, MRA (CPP/EEO)
Mr. Bob Doak, Deputy Commander, SPAWAR-10
Mr. Jim Marsh, Assistant to Deputy Chief of Staff for Manpower (Marine Corps) HQ, USMC, M
Dr. Dick Elster, Deputy Assistant Secretary for Manpower, Office of the Secretary of the Navy for Manpower and Reserve Affairs, OASN, MRA (Manpower)
Dr. James Tweeddale, Director, NROTC Selection and Placement, Chief of Naval Education and Training, CNET
Mr. John Crossley (Executive Secretary), Lab Operations Officer, Office of the Director of Navy Labs, SPAWAR-00514

Working Group

CAPT Paul Valovich, USN (Chairman), Chief Staff Officer, Navy Weapons Center, NWC CSO
CAPT J. Mike Welch, USN, Deputy, Military Personnel Policy Division, OP-13B
COL Bob Sullivan, Head, Manpower Analysis, Evaluation Branch, HQ, USMC
Dr. Ken Coffey, Staff Director/Director Manpower Analysis, Office of the Secretary of the Navy for Manpower and Reserve Affairs, OASN, MRA (Manpower Analysis)
Dr. Stanley Collyer, Technical Area Manager, Personnel and Training, Office of the Chief of Naval Research, OCNR-222
Dr. Dick Kistler, Naval Weapons Center, NWC
Mr. John Crossley, Lab Operations Officer, Office of the Director of Navy Labs, SPAWAR-00514
Mr. Howard V. Law, Associate Director of Navy Labs, SPAWAR-005

Both the Steering Committee and Working Group visited the Center 4-6 August for the briefings and discussions. Additional visits and meetings followed. The final report was made to VADM Clark.
## September

### New Employees

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<tr>
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<tr>
<td>Shelia Stevens</td>
<td>Clerk-Typist</td>
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<td>Robyn Baldwin</td>
<td>Pers. Res. Psych.</td>
<td>51</td>
<td>180-7</td>
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<td>Mark Reyes</td>
<td>Supply Clerk</td>
<td>216</td>
<td>2005-4</td>
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<tr>
<td>Michael O'Connell</td>
<td>Mathematician</td>
<td>61</td>
<td>1520-05</td>
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<tr>
<td>Mark Blankenship</td>
<td>Pers. Res. Psych.</td>
<td>41</td>
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<tr>
<td>Gabriela Coverdale</td>
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<td>Michael J. Lynch</td>
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<tr>
<td>Josh W. Woods</td>
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<td>Hoa Tai Lu</td>
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### Separations

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<td>Carol Winans</td>
<td>Clerk</td>
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<tr>
<td>James Broyles</td>
<td>Res. Psych.</td>
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<td>180-11</td>
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<tr>
<td>Jacqueline Phelps</td>
<td>Secretary</td>
<td>41</td>
<td>318-5</td>
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<tr>
<td>Zachary Balanay</td>
<td>Supply Clerk</td>
<td>21</td>
<td>2005-04</td>
</tr>
<tr>
<td>Eric Godtland</td>
<td>Oper. Res. Anal.</td>
<td>51</td>
<td>1515-07</td>
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<td>Kenneth Funk</td>
<td>Eng. Res. Psych.</td>
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<td>Mark Levine</td>
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### Promotions

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<td>Amy Culbertson</td>
<td>Pers. Res. Psych.</td>
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<tr>
<td>Debbie Grooms</td>
<td>Cont. Spec.</td>
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<td>1102-13</td>
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<tr>
<td>Roxane Smith</td>
<td>Clerk-Typist</td>
<td>61</td>
<td>322-04</td>
</tr>
<tr>
<td>Annette Stout</td>
<td>Sec. (Typing)</td>
<td>63</td>
<td>318-06</td>
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<tr>
<td>Sandi Brown</td>
<td>Pers. Asst.</td>
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<td>203-06</td>
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</table>
Consolidating Codes 22 and 24

On 19 October, Code 22--Administrative and Technical Support and Code 24--Military Personnel were combined with the new title Administrative and Military Personnel Support Division, Code 22. PNC Marshal Blann is the division head replacing LT Debra Gonzalez.

Center Visitors

Dr. Crano, Office of Naval Research (ONR), London, visited NPRDC on Thursday and Friday, 3-4 September.

Officials from the Netherlands visited NPRDC on Tuesday, 15 September to "investigate new possibilities for cooperation." The visitors included Dr. J. M. Dirkzwager, Director of Research and Development, Ministry of Defense; COMO J. M. Veltman, Director of Material Projects of Royal Netherlands Navy; and CAPT J. J. Scholten, Head, Scientific Research, Royal Netherlands Navy.

Visits/Briefs

On 30 September 1987, a briefing was given to RADM Kenneth L. Carlson, Director, Warfare Systems Architecture and Engineering Directorate, Space and Naval Warfare Command, Mr. Paul Wessel (SPAWAR 30T), Ms. Genie McBurnett (SPAWAR 31T), and Mr. Ivan Hall (SPAWAR 32T).
October

New Employees

Joseph Graf  
Comp. Equip. Anal.  
Code 63  
GS-334-12

John Kantor  
Code 41  
GS-18-9

Sharon W. Kalberer  
Code 00B  
GS-203-06

Daniel Christinaz  
Pers. Res Psych  
Code 52  
GS-180-12

Karyll Shaw  
Code 41  
GS-180-12

Brian Kewley  
Comp. Spec.  
Code 62  
GS-334-09

Carolyn Macky  
Statistician  
GS-1530-09

Separations

Robert Buckingham  
Comp. Equip. Anal.  
Code 22  
GS-334-12

Vickie Evans  
Secretary  
Code 41  
GS-318-04

Sandi Brown  
Pers. Asst.  
Code 00B  
GS-203-06

Michael Lynch  
Supply Clerk  
GS-2005-04

Promotions

P-A. Federico  
Code 511  
GS-180-14

Laurie Broedling  
GM-180-15

Tim Liang  
Code 61  
GM-1515-14

Pat Thomas  
Code 621  
GM-180-14

Jerry Laabs  
Code 621  
GM-180-14

Ted Thompson  
Code 612  
GM-1515-13

Sandy Wetzel-Smith  
Code 521  
GM-180-13

Joyce Mattson  
Code 621  
GM-180-13

Walt Thode  
Code 521  
GM-180-13

Alan Whisman  
Code 612  
GM-1515-13

Raye Newmen  
Code 512  
GM-180-13

Retirement

PNCM Jack L. Maynard
NPRDC Researchers are Award Winners

Tim Liang and Ted Thompson, Code 61, were awarded the prestigious Koopman Prize by the Operations Research Society of America (ORSA) for the best military operations research paper published in 1987. The prize, including a cash award, was presented at ORSAs National Meeting in St. Louis on 26 October. Tim and Ted's winning entry was their article "A Large Scale Personnel Assignment for the Navy," published in *Decision Sciences* (Spring, 1987).

Earl I. Jones Memorial Lecture Series

*Earl I. Jones Memorial Lecture Series* given by Prof. Phillip Ackerman of the Department of Psychology, University of Minnesota, Cognitive ability determinants of individual differences during skill acquisition: Implications for training and selection.

Visits/Briefs

On 22 October 1987, the USMC Exploratory Development Program Review for Manpower and Training Technology was presented to Dr. John Druzbick, Development Center and COL Jim Kirchner, Office of Naval Technology.
November

New Employees

Thereasa Cronan
GS-180-12  

Elaine Frank
Clerk Typist
GS-322-03  

Hue Nguyen
Comp. Spec.
GS-334-07  

James Williams
Oper. Res Anal
Code 61
GS-1515-09

STSCS Michael Spencer
Code 521

DS1 David Curtis
Code 22

Marilou Tuanqui
Pers. Clerk
Code 00B
GS-203-05

Separations

Michelle Allen
Comp. Spec.
GS-334-11  

Cheryl Louie
GS-1515-09  

Kent Crawford
GS-180-13  

Hilario Gabrintina
Supply Clerk
GS-2005-04

Dorothy Powell
Proc. Clerk (Typing)
GS-1106-04

Tri-Service Commanders Meeting

The Commanding Officers and Technical Directors of the three services (manpower, personnel, and training R&D laboratories) met at NPRDC on 17-18 November 1987. Attendees included COL Darryl Henderson and Dr. Ed Johnson, Commander and Technical Director of the Army Research Institute (ARI), COL Harold Jensen, COL Irv LeBlanc, and Dr. Lloyd Burtch, Commander, Vice Commander, and Director of Plans and Operations, Air Force Human Resources Laboratory (AFHRL), and Dr. Earl Alluisi, Office of the Under Secretary of Defense (OUSD,R&E).

Presentation

Dr. Frank Schmidt, University of Iowa spoke on the topic of Utility Analysis: Application to Navy's Classification System.
December

New Employee

Jose Suarez
Code 52
GS-180-09

Separations

Josh Woods  Deborah Grooms
Supply Clerk  Cont. Spec.
Code 21  Code 21
GS-2005-04  GM-1102-13

Promotions

Judy Lawson  Paul Rosenfeld
Code 62  Code 62
GS-12  GS-12

Retirement

Jim Emery
Warehouseman
Code 216

Meritorious Award

Steve Dockstader, Code 413, received the Navy Meritorious Civilian Service Award. This is the highest award given to civilian government workers. He was so honored for his research work conducted on Total Quality Management (TQM), an approach used for quality improvement at naval aviation depots.

Presentation

Dr. Arthur R. Jensen of the University of California at Berkeley gave a presentation on Psychometric and learning ability.
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  NAVMATINST 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).
RESOURCES

Financial

NPRDC's funding for the end of FY87 is shown in Figures 3, 4, and 5.

Figure 3. FY87 funds--actual $35.312M.

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</table>

Figure 4. Funds by category and type.
Manpower

At the end of FY87, NPRDC's staff numbered 310 civilian employees, 182 of whom were scientists and technicians trained and qualified in areas such as psychology, education, mathematics, statistics, operations research, and economics. In addition, the staff includes 25 military personnel with extensive fleet experience. This broad base allows NPRDC to maintain a highly effective, multidisciplinary team approach to its R&D. A chart of NPRDC's personnel representation is shown in Figure 6.

Figure 6. NPRDC personnel.
Facilities

NPRDC is located on Point Loma in San Diego, California with support offices in Washington, DC. The Center occupies 17 buildings under a host-tenant arrangement with the Naval Ocean Systems Center.

Land area utilized: 3 acres

Buildings:
- Laboratory: 79,332 sq. ft.
- Administration: 18,417 sq. ft.
- Other: 0 sq. ft.

Acquisition costs:
- Real property (Classes I & II): $0.78 million
- Equipment (Classes III & IV): $11.8 million

In addition to office space for research and support personnel, the following research facilities are housed at the Center:

- **Training Research Computing Facility** 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 the areas of artificial intelligence, computer-assisted instruction, cognitive science, testing, and training. The facility's equipment suite includes two Digital Equipment Corporation (DEC) VAX-11/780 computers and numerous peripherals.

- **Manpower and Personnel Computing Facility** provides general purpose IBM-based computing services for Center researchers and administrative operations. The facility is especially 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 facility features an IBM 438/23, multiple tape drives, and over 25GB in disk storage.

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

- **Command Systems Facility** provides a controlled setting to examine individual and team performance in Battle Group Command environments (as well as other critical settings). Various organizational and management systems or conditions are tested in this facility, which serves social, industrial, and organizational psychologists as well as management experts.
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

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<thead>
<tr>
<th>PROGRAM AREA</th>
<th>FUNCTION</th>
<th>MISSION AREA</th>
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<tbody>
<tr>
<td>Manpower Systems</td>
<td>The Manpower Systems Department concentrates on several R&amp;D thrusts: (1) estimating the level of military and civilian support manpower needed to keep alternative fleet configurations in a state of readiness; (2) designing systems for optimal person-job match based on cost, fleet requirements, individual preferences, and a variety of assignment policies; (3) developing large scale systems for managing the flow of personnel (accessions, retention, promotion) to attain desired skill inventories within constraints of cost and feasibility; and (4) forecasting the cost implications of alternative manpower programs and the personnel effects of different compensation initiatives.</td>
<td>Manpower</td>
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<tr>
<td>Personnel Systems</td>
<td>The R&amp;D conducted by this department focuses on the following major thrusts: (1) improving recruiting procedures and strategies to maintain the appropriate quality and quantity of Navy military accessions, (2) predicting military performance and retention and establishing standards for school and occupation entry, and (3) analyzing and developing policies and procedures to improve the utilization and satisfaction of Navy personnel throughout their careers.</td>
<td>Personnel</td>
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<tr>
<td>Testing Systems</td>
<td>The R&amp;D conducted by this department focuses on development and evaluation of a computerized adaptive testing (CAT) version of the Armed Services Vocational Aptitude Battery (ASVAB) for personnel selection and classification. The main thrust of this research is organized around two areas: (1) psychometric research and (2) delivery system development. Work in the psychometric area includes: development and calibration of large banks of test items; evaluation of alternative procedures for administering, scoring, and terminating tests.</td>
<td>Personnel</td>
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<tr>
<td>PROGRAM AREA</td>
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<td>adaptive tests; and demonstration of an experimental version of CAT-ASVAB. Accomplishments on the delivery system include specification of the functional requirements, evaluation of alternative generic computer hardware designs, selection of a microcomputer system, and the initiation of software development.</td>
<td>Training</td>
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<td>Training Technology</td>
<td>The overall goal of this department is to develop and test training technologies that will increase the effectiveness of Navy training, while controlling its costs. This is achieved through the following R&amp;D thrusts: (1) developmental investigations and test and evaluation of emerging technologies that have promise for the near, mid, and distant timeframes; (2) investigations of mental functioning underlying training procedures that promote efficient recall, improve problem-solving and decision making, and provide application of management science techniques (e.g., econometrics and operations research) to test policy options, and to aid the day-to-day management of the training enterprise; and (4) short term R&amp;D that is responsive to specific requirements of warfare area sponsors, ordinarily through the use of mature technologies.</td>
<td>Training</td>
</tr>
<tr>
<td>Training Systems</td>
<td>The overall goal of this department is to employ existing and emerging technologies in the development and application of training systems to alleviate Navy training problems and improve the Navy's operational readiness. The department's major R&amp;D thrusts are: (1) development and coordinated application of troubleshooting strategies and computer/simulation technologies to improve Navy maintenance training; (2) solving operational training problems through the modification and application of emergent systems with proven capabilities; (3) adapting and transferring military training technology to improve the effectiveness and efficiency of Navy professional and management training; (4) development of Navy training systems that will best meet the Navy's needs for skilled personnel while enabling officers and enlisted personnel to achieve their personal career goals; (5) design, delivery, and management of training to ensure maximum readiness of Navy and Marine Corps combat</td>
<td>Training</td>
</tr>
</tbody>
</table>
forces; and (6) assessing the technical and operational feasibility of emergent training programs and systems.

Human Factors

The Human Factors Department conducts R&D to better understand the human and organizational processes that underlie the performance of military and civilian Navy personnel in organizational contexts and human functioning at the human-machine interface. The resulting principles and techniques are applied within an organizational systems approach to enhance motivation and productivity and to optimize the design, development, operation, and maintenance of Navy human-machine systems. The department's major R&D thrusts within the human resources productivity area include: (1) identifying and developing techniques to improve quality and quantity of productivity by individuals and organizations, (2) investigating the management factors and policies that facilitate or inhibit the functioning of Navy organizations, and (3) examining the impact of new technology on workers and organizations and determining how to realize expected benefits from the implementation of new technology. The remaining thrusts that form the man-machine systems are: (1) developing principles and techniques for evaluating and enhancing command effectiveness; (2) providing human factors support for the development of new command and control systems; (3) providing RDT&E to augment and stimulate human factors efforts in the design and development of new systems, and determining the manning, training, and supportability implications of proposed systems; (4) improving the effectiveness of individuals and teams by application of the principles of human performance; (5) ensuring the application of human factors principles and data to Navy systems throughout their life cycle; and (6) applying mathematical models to enhance decision-making capabilities of advanced combat systems.

In addition, NPRDC has set up a Fleet Liaison Office (FLO) to maintain liaison with staffs of Fleet, Type, and Systems Commanders for R&D support, to evaluate R&D plans and products for Fleet application and to participate in the Navy Science Assistance Program (NSAP). The FLO and NSAP also acts as a sounding board for a network of interactions and interrelationships between the operating forces of the Navy and NPRDC's technical community.
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Liang, T., & Thompson, T. J. (1987, Spring). A large-scale personnel assignment model for the Navy. Decision Sciences, 18(2), 234-249.


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