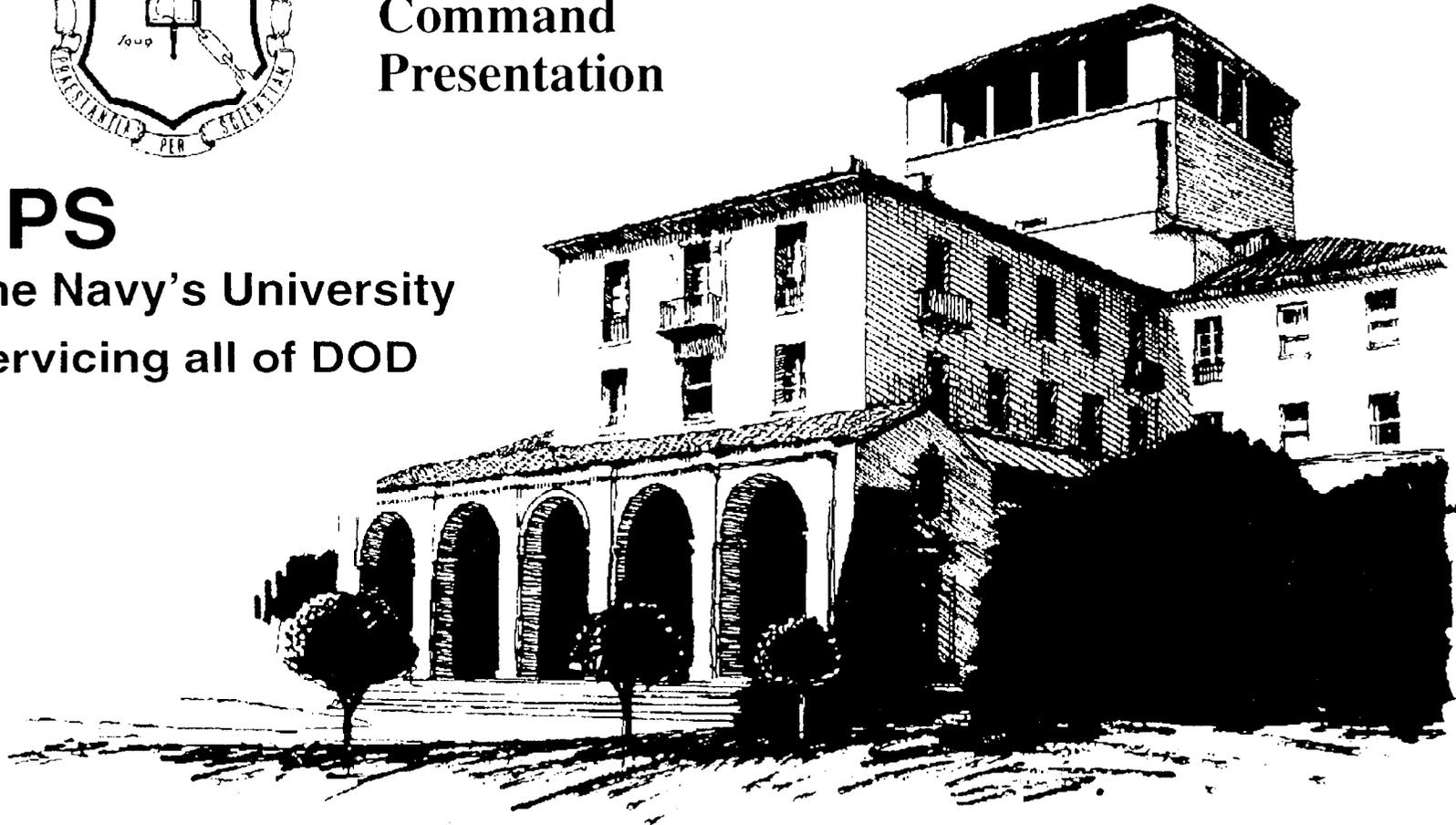
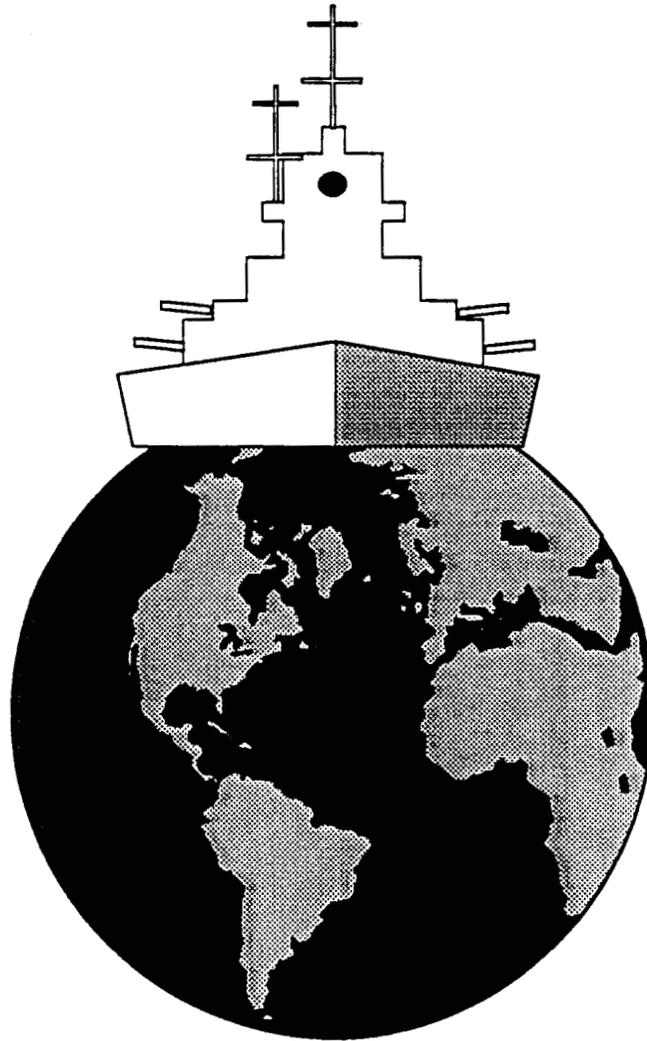


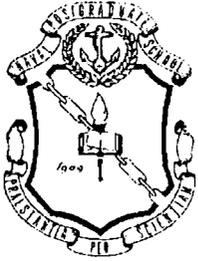
# NPS

## Command Presentation

**NPS**  
The Navy's University  
Servicing all of DOD



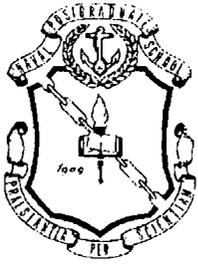




# **HOTEL DEL MONTE**

## **1880 - 1951**

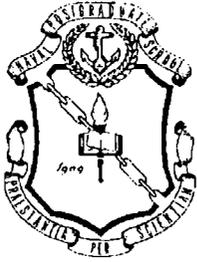
- Billed as “The most elegant seaside establishment in the world”
- Built by “Big Four” railroad tycoons  
C.P. Huntington, Leland Stanford  
Mark Hopkins and Charles Crocker
- Destroyed by fire and rebuilt in 1887 and 1924
- Reconstructed in 1926, lavish as ever
- Guests were royalty and stars of the day:  
Clark Gable, Carole Lombard, Charlie Chaplin, Greer Garson,  
Jean Harlow and Cary Grant
- The Naval Postgraduate School moved to the grounds from the Naval Academy in Annapolis in 1951



# MISSION

- **To provide advanced professional studies at the graduate level**
- **For military officers and defense officials from all services and other nations**
- **To increase combat effectiveness of the armed forces of the United States**

**SUPPORTS THE UNIQUE NEEDS AND INTERESTS  
OF THE DEFENSE ESTABLISHMENT**



# **NPS PROVIDES UNIQUE TAILORED EDUCATION**

- **PERFORMANCE-BASED SELECTION**

Motivated students

- **CLASSES CONVENED QUARTERLY**

Offer more courses per year

Accommodate operational schedule

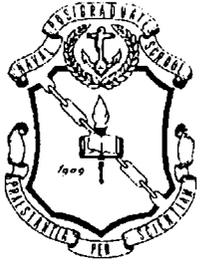
48 weeks of classes / meet student needs

Refresher classes offered

- **CLASSIFIED STUDY**

Course work / theses / research

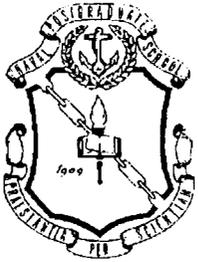
- **TRANSITION STUDENTS TO TECHNICAL  
SUBJECTS**



# EDUCATION QUALITY

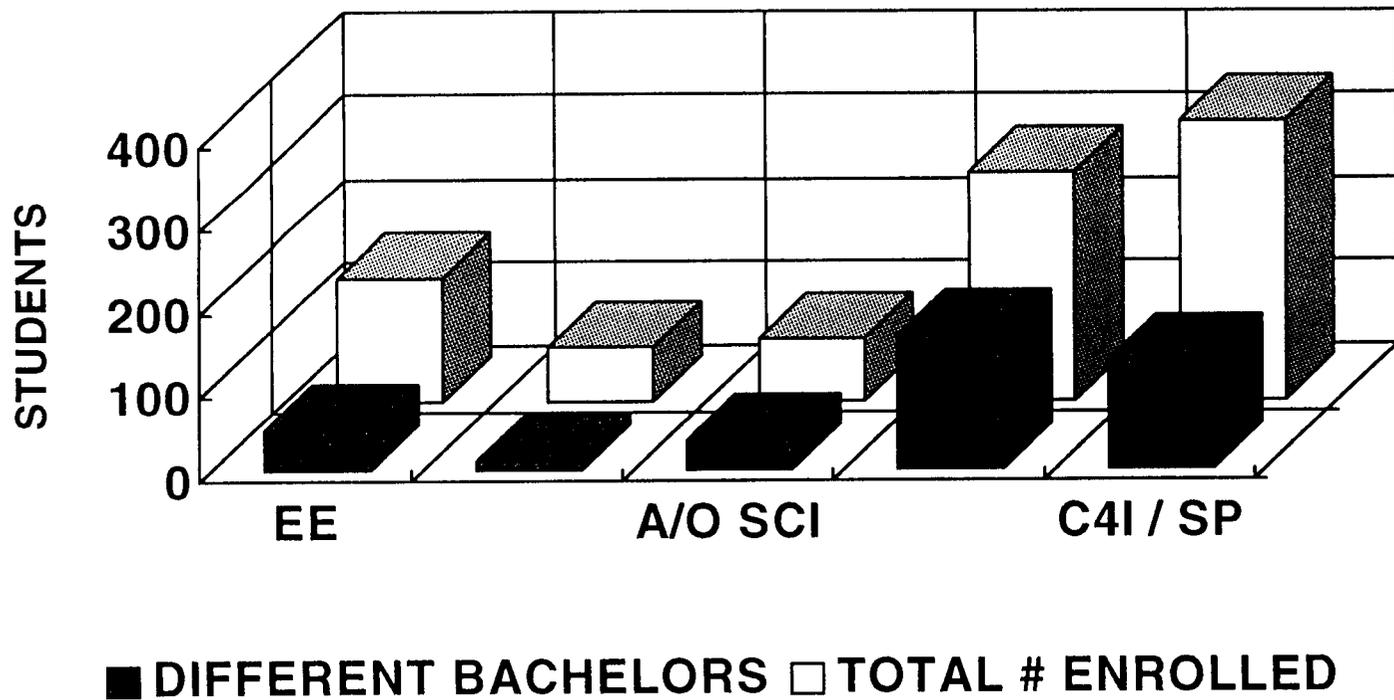
- **Dedicated Student Officers**
- **Outstanding Faculty**
- **Unique Curricula Reviewed Biennially**

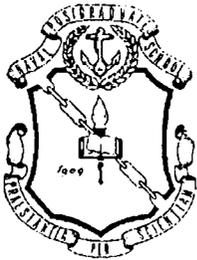
**TOMORROW'S LEADERS FOR THE  
CHANGING MILITARY SERVICES**



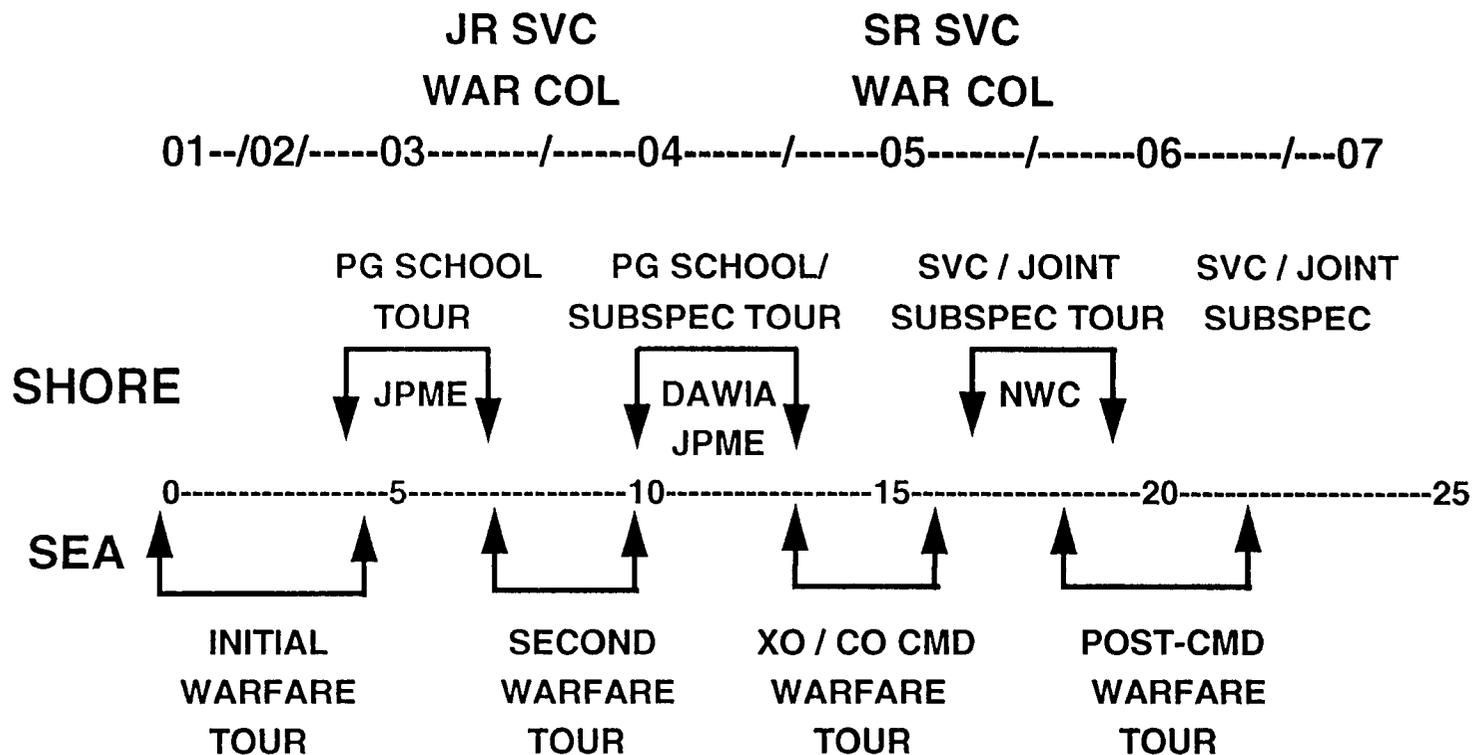
# CURRICULAR TRANSITION EXAMPLES

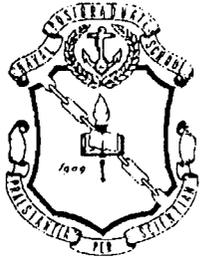
## DIFFERENT UG MAJOR





# PGS / JPME / SUBSPECIALIST WARFARE CAREER PATTERN





# SUBSPECIALTY STATUS AND THROUGHPUT

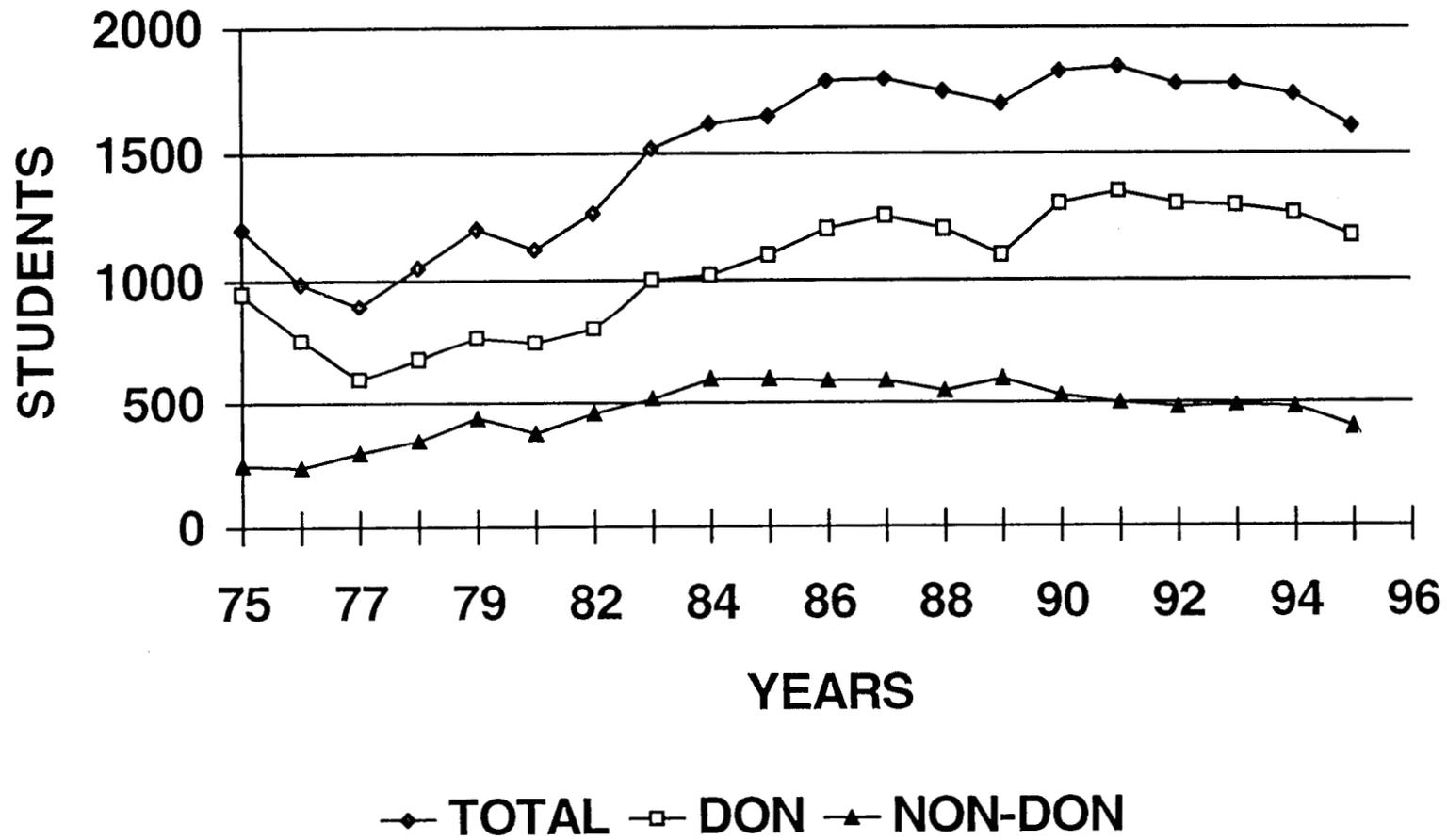
SUBSPECIALTY REQUIREMENTS	1989	1991	1993	1994
Grad Ed related billets	6548	6158	5071	4566
Inventory Required	14230	11240	11156	6538
Current Inventory (P,Q,M,N,F,G)	7996	8419	9352	8365
Current Inventory			7786	7737

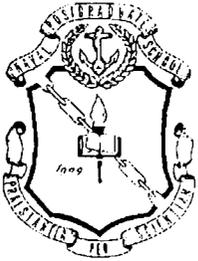
  

THROUGHPUT	1991	1992	1993	1994	1995
Input to meet requirement	881	975	838	800	744
Quota Plan	800	775	745	650	638
Grad Ed Plan (Actual)	796	763	747	646	

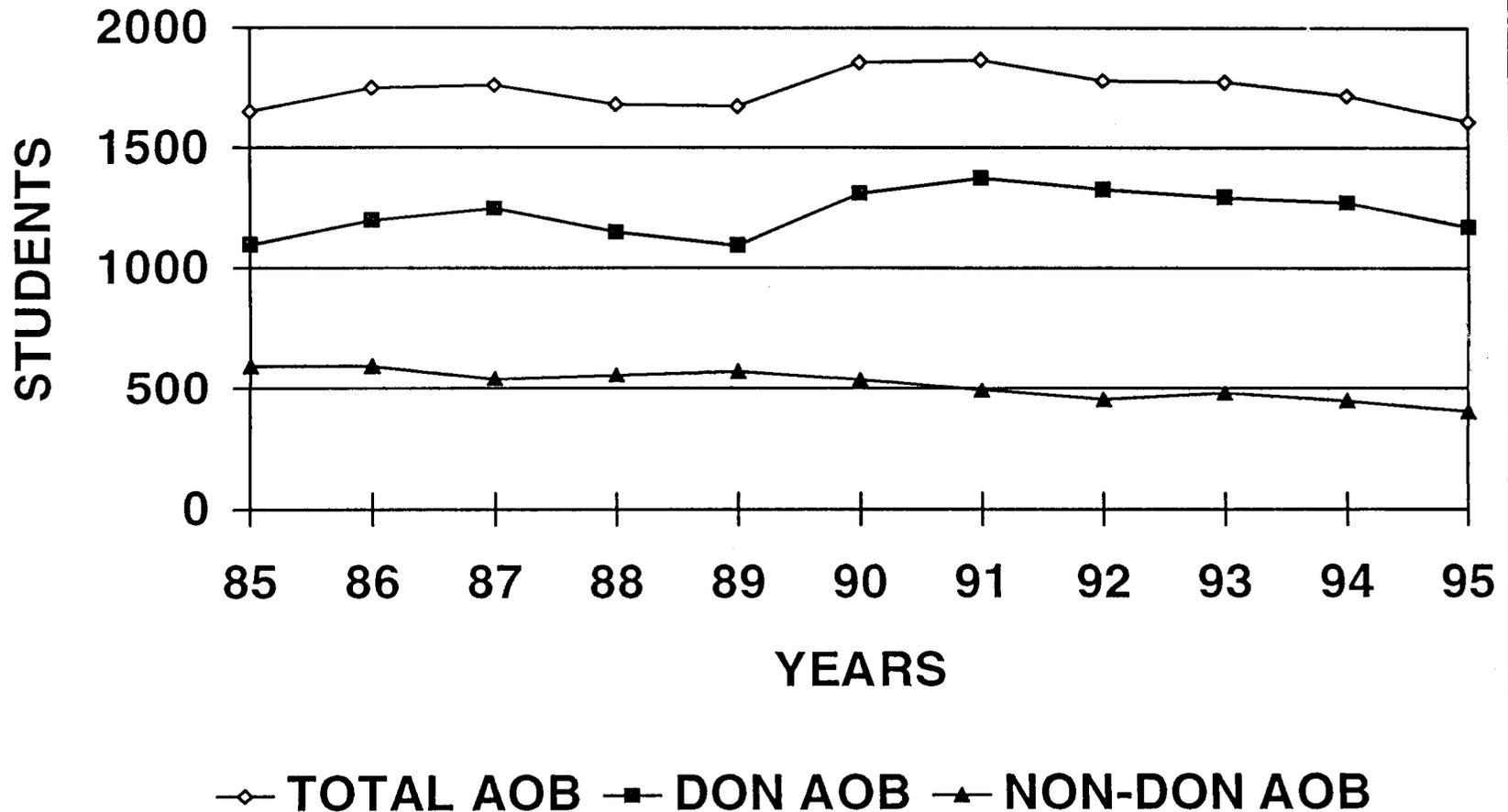


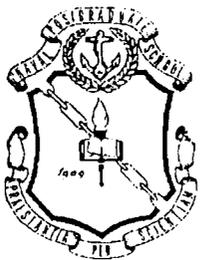
# HISTORICAL AVERAGE ON BOARD



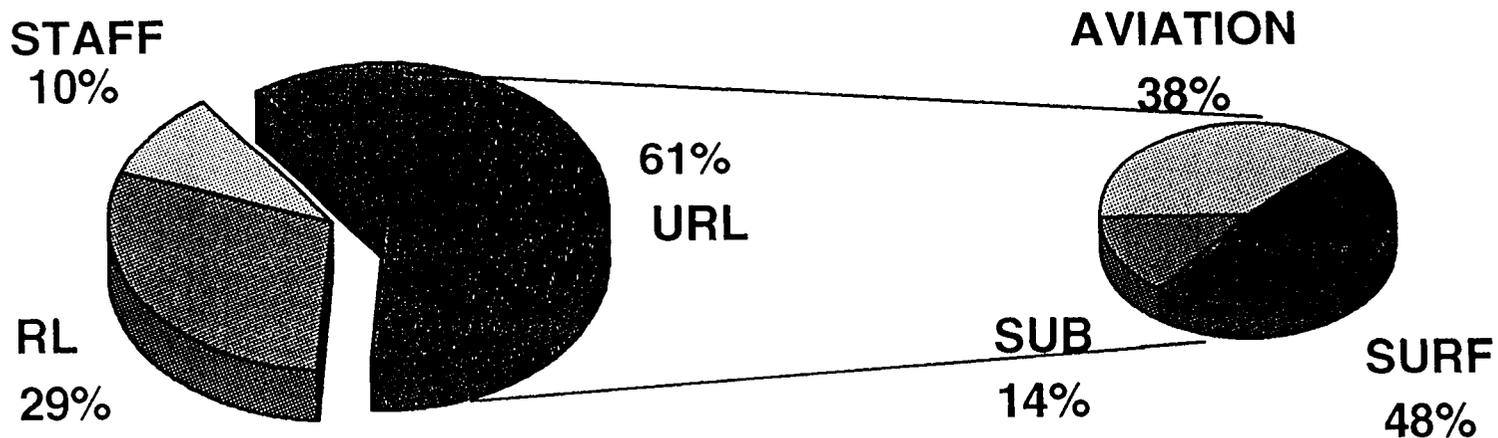


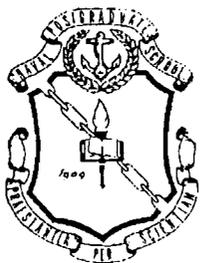
# AVERAGE ON BOARD



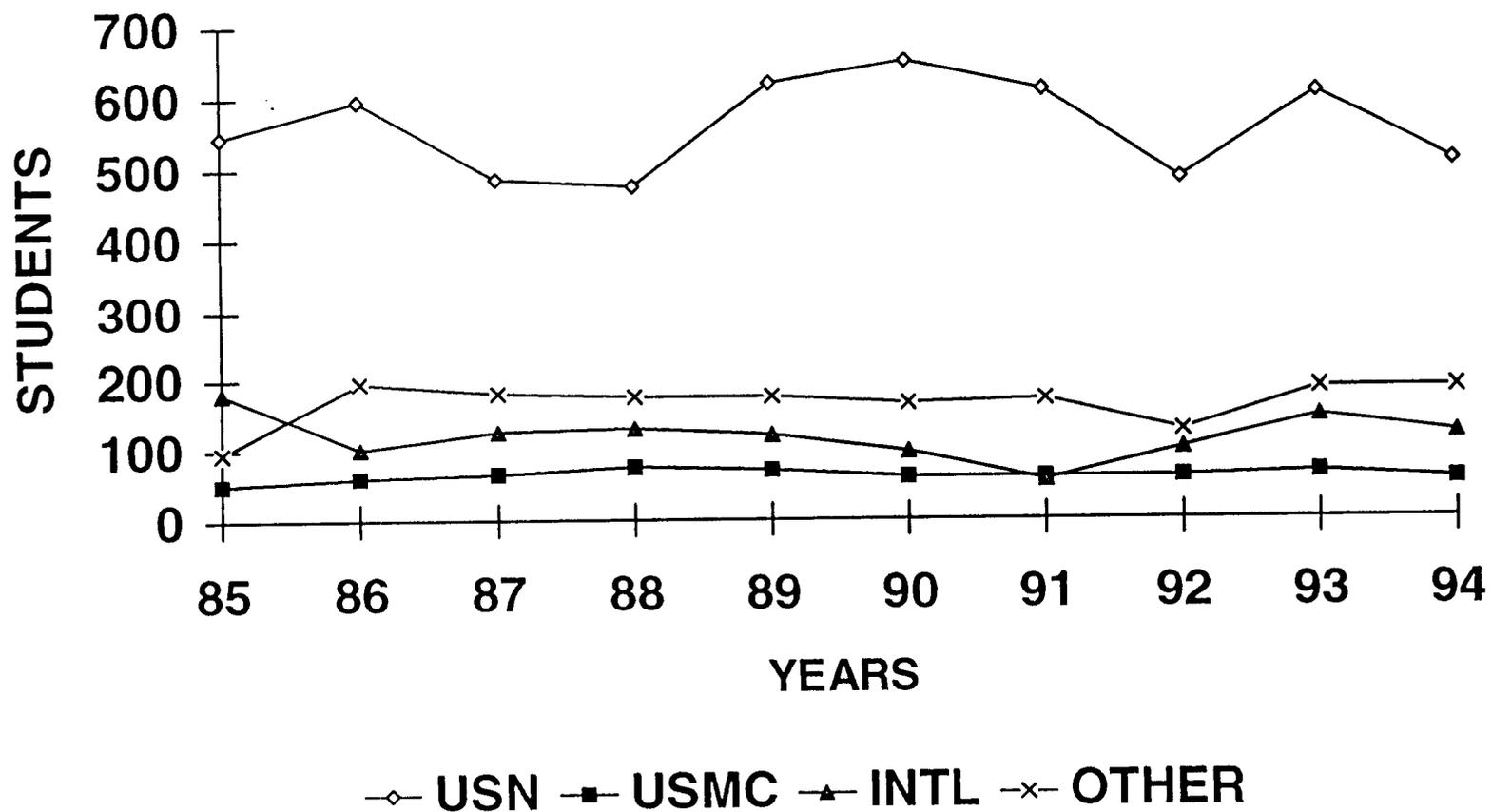


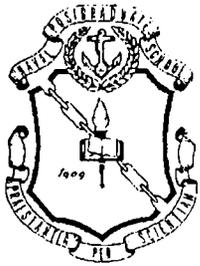
# CURRENT NAVY STUDENT DEMOGRAPHICS





# INPUT TRENDS

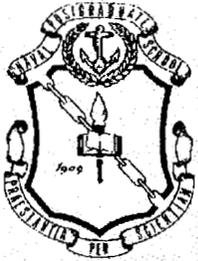




# CURRENT STUDENT POPULATION SPRING 95

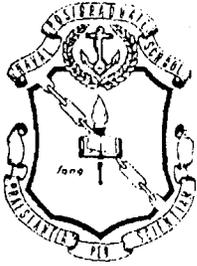
TOTAL: 1490 ON BOARD

65%	NAVY	970
8%	MARINE CORPS	123
14%	INTERNATIONAL	207
9%	ARMY	132
2%	AIR FORCE	22
1%	COAST GUARD	15
1%	OTHER U.S.	21
100%		1490



# INTERNATIONAL STUDENTS 30 COUNTRIES AND 210 STUDENTS



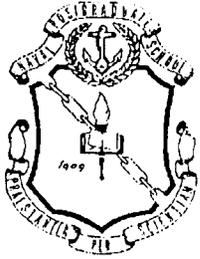


# INTERNATIONAL GRADUATES

- 2945 OFFICERS FROM 32 COUNTRIES
- POSITIONS OF PROMINENCE

(Flag and general officers, chiefs of service, senior civilian governmental positions)

AUSTRALIA	2	NORWAY	6
BRAZIL	7	PERU	1
COLOMBIA	8	PHILIPPINES	18
GERMANY	2	PORTUGAL	1
GREECE	21	SPAIN	2
INDONESIA	21	THAILAND	14
JAPAN	10	TURKEY	6
		VENEZUELA	7



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# **GRADUATE EDUCATION PROGRAMS SPRING 95**

## **NAVAL POSTGRADUATE SCHOOL**

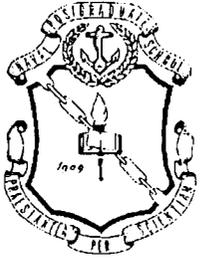
**38 Curricula**

**1490 Students**

## **CIVILIAN INSTITUTION PROGRAMS**

**35 Curricula**

**195 Students**

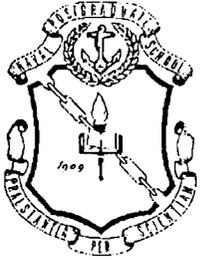


# 11 CURRICULA

## OPERATIONS (494)

Operations Logistics	28	*Undersea Warfare	21
*Operations Analysis	118	*Electronic Warfare	19
Space Systems Operations	40	Joint C4I Systems	37
*Information Tech Mgmt	160	*SO / LIC	26
*Operational Oceanography	18	*EW International	11
*Applied Math	16		

**\*Open to International students**

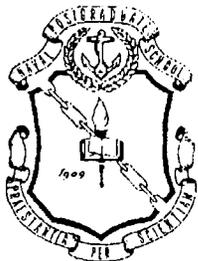


# 16 CURRICULA

## POLICY / ANALYSIS (365)

*Intelligence	26	Acquis / Contract Mgmt (DAWIA)	30
*Area Studies (4 Curricula)	50	*Manpower Analysis	27
*Strategic Plans / Policies	26	*Financial Mgmt	60
Material Logistics Mgmt	40	*Sys Acquis Mgmt (DAWIA)	49
Transportation Mgmt	8	*Res Plan / Mgmt for Int Def	18
Sys Inventory Mgmt	4	*Def Sys Mgmt / Analysis	23
Transportation Log Mgmt	4		

**\*Open to International Students**

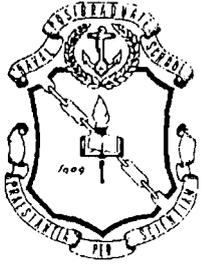


# 12 CURRICULA

## SCIENCE AND ENGINEERING (701)

*Computer Science	112	*Naval / Mech Eng (DAWIA)	89
*Combat Systems	91	*Electronics Sys Eng	119
*Air Ocean Science	42	*Aero / Astronautics (DAWIA)	48
*Oceanography	18	*Aeronautical Eng Avionics	34
*Meteorology	2	Space Systems Eng	68
Applied Science	16	*Space Sys International	1
(Refresher	61)		

\*Open to International Students



# CIVILIAN INSTITUTIONS 35 CURRICULA

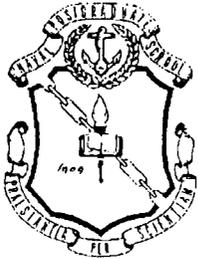
## TECHNICAL (93)

Facilities Engineering	61
Naval Construction Eng	16
Ocean Engineering	4
Operational Oceanography	6
Petroleum Engineering	1
Chemistry	0
Nuclear Engineering	3
PhD	2

NPS contracts with 62 civilian and 3 DOD institutions to offer these programs.

## NON-TECHNICAL (102)

Supply Acquis & Dist	22
Educ & Training Mgmt	12
Legal	16
Joint Intelligence	12
Religion	14
Petroleum Mgmt	8
Retailing	8
International Diplomacy	5
Public Affairs	0
Int'l Diplomacy (Post M.A.)	3
Subsistence Technology	2
Logistics Mgmt	0
Music	0



# FACULTY

- **RECRUITED WORLDWIDE**

93% of Faculty are civilians

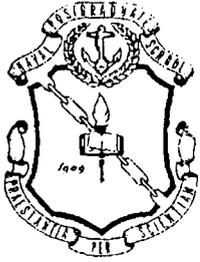
98% of civilians have PhDs

PHDs from 88 Institutions (list of those with 3 or more faculty)

UC BERKELEY  
CAL TECH  
CARNEGIE MELLON  
CASE WESTERN  
U OF COLORADO  
UC DAVIS  
GEORGIA TECH  
HARVARD  
ILLINOIS  
JOHNS HOPKINS

MIT  
U OF MICHIGAN  
U OF MINNESOTA  
NORTHWESTERN  
OHIO STATE  
OREGON STATE  
PENN STATE  
PENNSYLVANIA  
PRINCETON  
PURDUE

UC SAN DIEGO  
UC SANTA BARBARA  
STANFORD  
SYRACUSE  
U OF TEXAS  
UCLA  
USC  
VIRGINIA TECH  
U OF WASHINGTON  
U OF WISCONSIN



# RESEARCH

- **ESSENTIAL TO GRADUATE EDUCATION**

Programs - Maintain at cutting edge

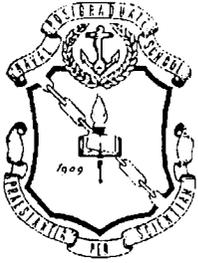
Students - Provide creative learning experience

Faculty - Attract and retain quality faculty

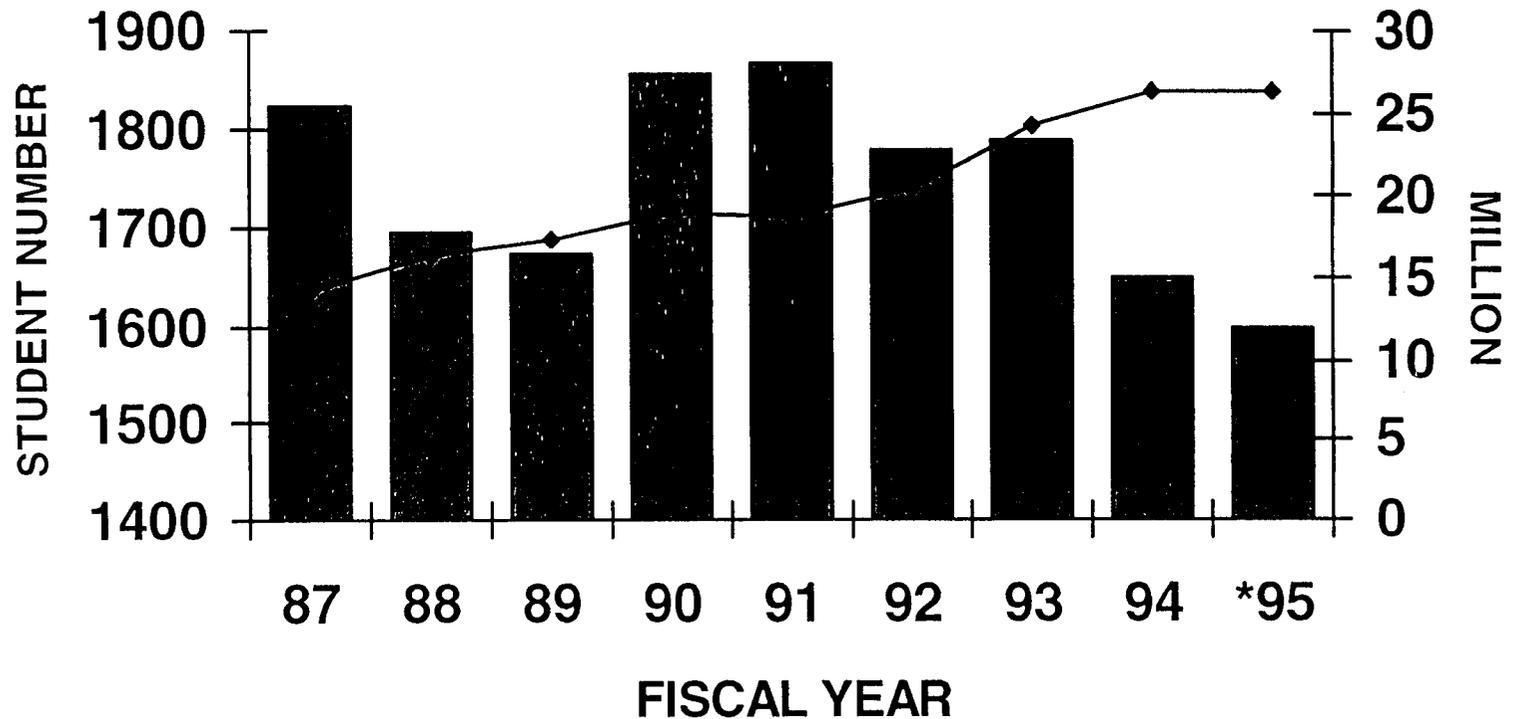
- **RESEARCH OUTPUT AVAILABLE**

Advances Navy / DOD technology

Stimulates technology transfer

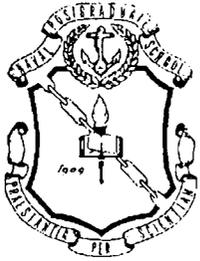


# SIZE OF RESEARCH PROGRAM



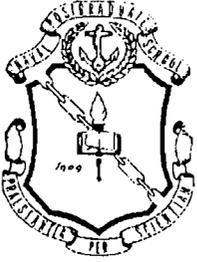
\*Estimated

■ STUDENT NUMBER    ◆ RESOURCE TOTALS



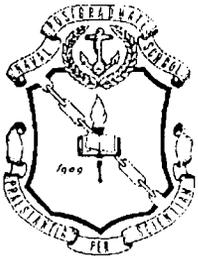
# RESEARCH ACHIEVEMENTS

- **AUTONOMOUS UNDERWATER VEHICLES**
- **AERODYNAMICS**
- **MANPOWER DATABASE DEVELOPMENT**
- **INTERNATIONAL ARMS TRANSFERS**
- **THERMO-ACOUSTIC REFRIGERATOR**
- **IONOSPHERIC REMOTE SENSING**  
Propagation of radio waves and other sensors



# THESIS BENEFITS

- **EXERCISES THE STUDENT IN**
  - Problem definition / refinement
  - Data collection and analysis
  - Writing and oral briefing skills
  - Time management
- **STUDENTS DEVELOP CONFIDENCE IN THEIR ABILITIES**



# COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENTS

**MARTIN MARIETTA/ME**

**Materials Testing**

**PACIFIC BELL / SM**

**Software Development**

**DURALCAN / ME**

**Improving Ductility of  
Metal Matrix  
Composites**

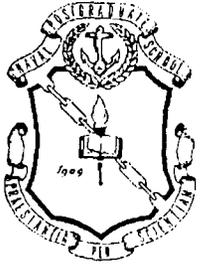
**DIGITAL EQUIPMENT/ME**

**Liquid Immersion**

**Cooling of Electronics**

**GENERAL ELECTRIC/PH**

**Thermoacoustic  
Refrigeration**



# RESEARCH AREAS

- **SCIENCE**

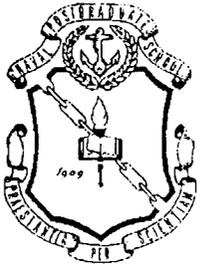
Physical Acoustics, Electro-optics / IR, Space Physics, Physical Oceanography, Tropical Systems, Remote Sensing

- **OPERATIONS MANAGEMENT**

Manpower, Information Systems, Strategic Planning, Regional Studies, Optimization, Wargaming and Simulation

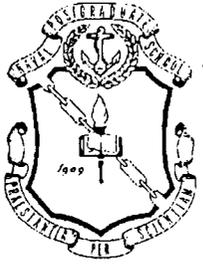
- **ENGINEERING**

Signal Processing, Systems and Controls, Radar Aerodynamics, Structures, Materials, Fluid Mechanics, Heat Transfer



# CONSTRUCTION

<u>FY</u>	<u>PROJECT</u>	<u>COST</u>
92	Mechanical Engineering Building (Completed mid 95)	12.0M
93, 94, 95	None Programmed	0
96	Spanagel Hall Safety Upgrade (Proposed)	6.5M
97	Gym (Proposed)	Unknown
98	None Programmed	0



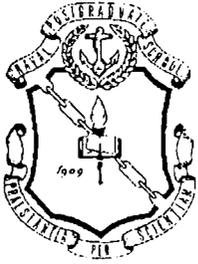
# ACADEMIC ACCREDITATION

<u>Association</u>	<u>Date</u>	<u>Max Term</u>	<u>Term Accredited(yrs)</u>
WASC	1990	8	8 (+1)
ABET	1989	6	6
NASPAA	1993	7	7

WASC: Western Association of Schools and Colleges

ABET: Accreditation Board Engineering and Technology

NASPAA: National Association of Schools of Public Affairs and Administration

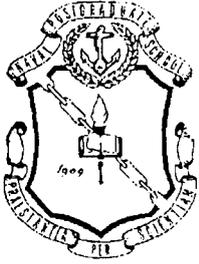


# STUDENT ACCOMPLISHMENTS

**62 US NAVY FLAG OFFICERS ARE NPS  
GRADUATES**

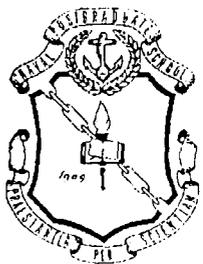
ADMIRAL	2
VADM	12
RADM UPPER	20
RADM LOWER	19
RESTRICTED LINE	7
STAFF CORPS	2
US MARINE CORPS	2

**10 CURRENT ASTRONAUTS ARE NPS  
GRADUATES**



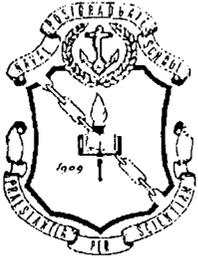
# AVIATION SAFETY SCHOOL

- **AVIATION SAFETY COMMAND COURSE**
  - 1 week / 32 hour course
  - Average 25 students per course
  - Command-level officer
  
- **AVIATION SAFETY OFFICER COURSE**
  - 6 week / 161 hour course
  - Average 51 students per course
  - Primarily Navy and Marine Corps students
  - Occasional International, Army and Coast Guard students

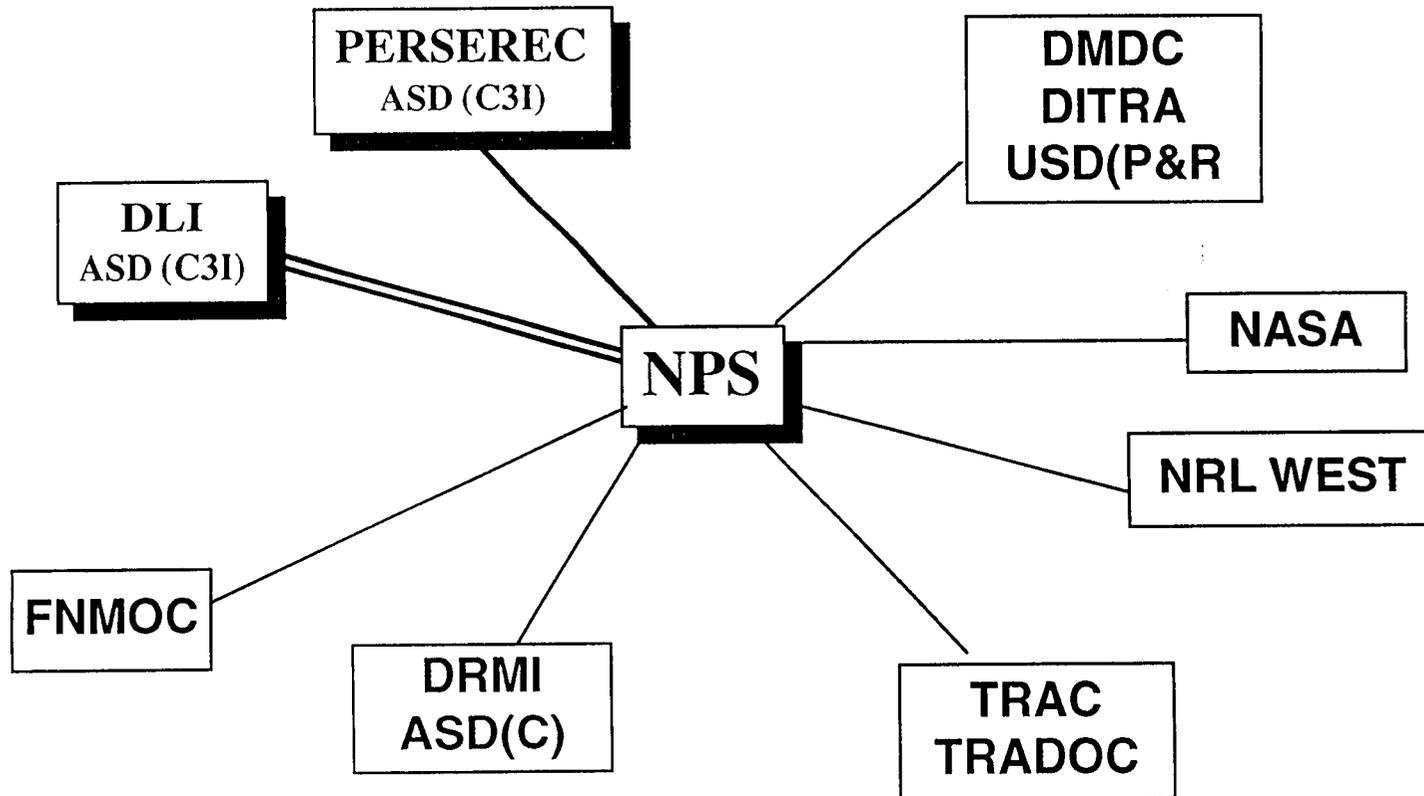


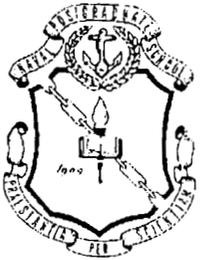
# **PROPOSED EDUCATIONAL AND RESEARCH CONSORTIUM**

- **NPS**
- **MONTEREY INSTITUTE OF INTERNATIONAL STUDIES**
- **MONTEREY BAY  
AQUARIUM RESEARCH INSTITUTE**
- **HOPKINS MARINE STATION (STANFORD U)**
- **UC SANTA CRUZ**
- **NOAA**
- **NRL, WEST**
- **CSU MONTEREY BAY**
- **MONTEREY PENINSULA COLLEGE**

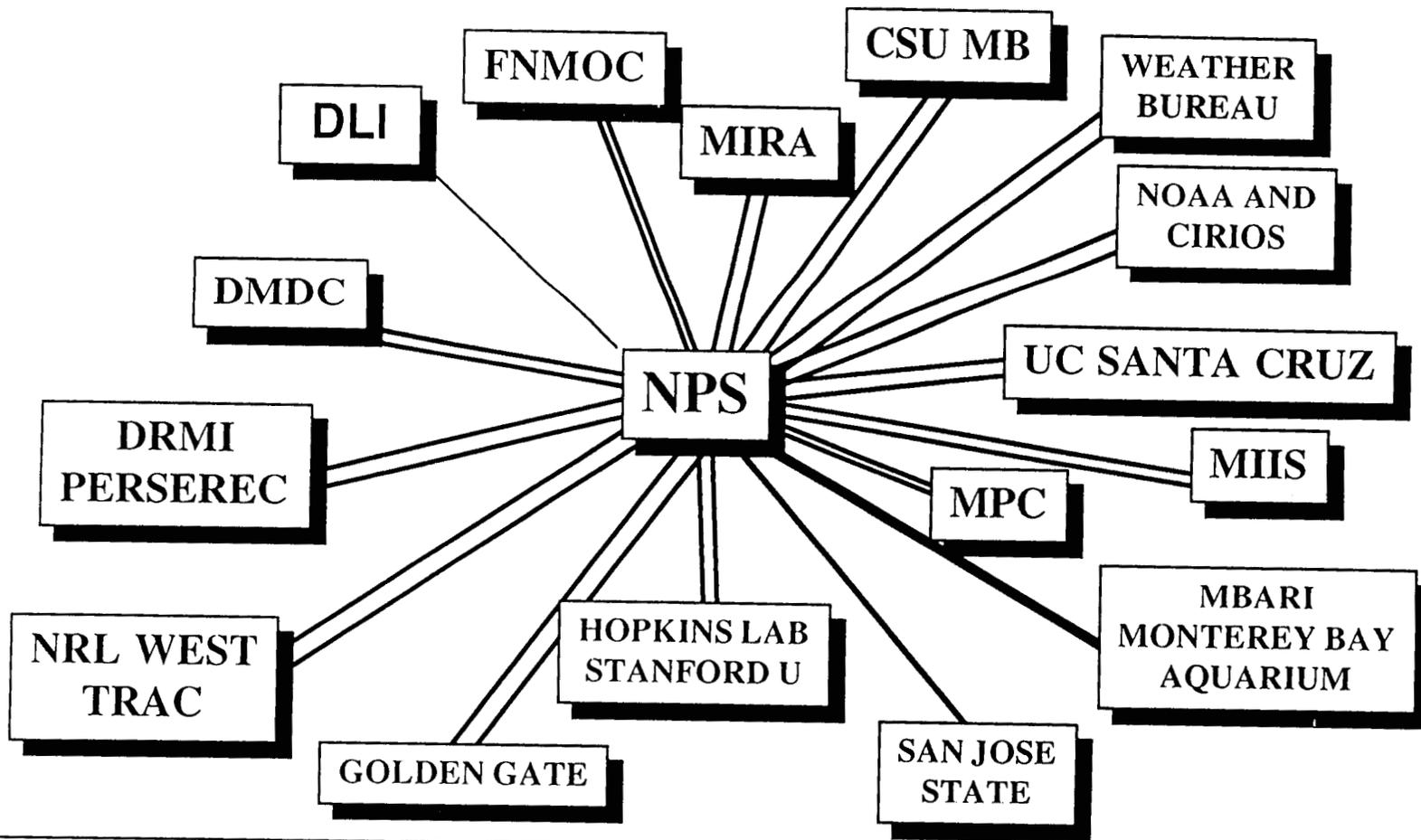


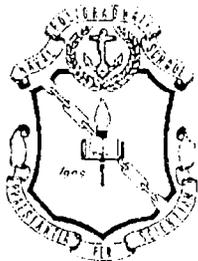
# NPS - MONTEREY PENINSULA SYNERGY - DOD





# NPS - MONTEREY PENINSULA SYNERGY

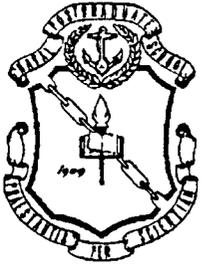




# SUMMARY

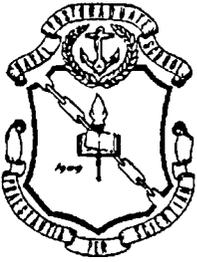
- **EDUCATION, A STRATEGIC INVESTMENT  
MORE IMPORTANT IN THE FUTURE**
- **NPS PROVIDES QUALITY EDUCATION  
MEETS THE MILITARY SERVICES'  
REQUIREMENTS**

**GRADUATE EDUCATION:  
A TOP PRIORITY OF THE 90's**



# Current Initiatives

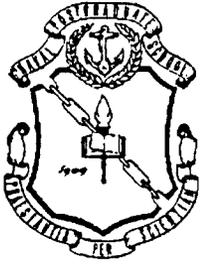
- **DAWIA**
  - **Master Program for Army**
  - **Short Courses**
  - **Hybrid Programs**
- **JPME Phase-I**
- **Lead Reinvent Lab for DoN**
- **Joint Warfare Analysis**
  - **Institute**
  - **New Masters Program**
- **Distance Learning**



# Transition to Being a DOD School

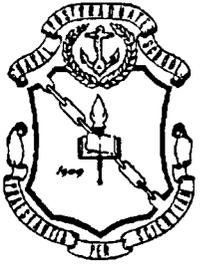
- Board of Advisors Report to Sec Nav
- Navy's BRAC-93 Report
- Dr Perry's Note to Sec Nav:

**“I stopped in at the Naval Postgraduate School (NPS) last week to present the results of our Bottom Up Review study, and to talk to senior faculty. I had earlier been on their Board of Visitors, and, at that time, we had explored the idea of NPS being a Department of Defense graduate school run by the Navy for all three services. It is, I believe, the best graduate school in DOD and serves a unique function...”**



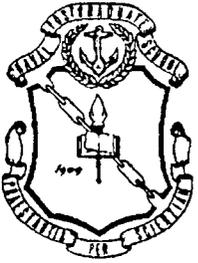
## Current Initiatives

- **Offering Defense Acquisition Workforce Improvement Act (DAWIA) courses.**
  - **Army-sponsored acquisition curriculum**
  - **Regular one-quarter DAWIA courses**
  - **DAWIA shortcourses for the Defense Acquisition University**
  - **Hybrid curricula**
    - **engineering and DAWIA**
    - **combat systems and DAWIA**
    - **OPS research and DAWIA**



## **Current Initiatives (continued)**

- **Developing Joint Warfare Analysis (JWA) programs.**
  - **JWA courses in current curricula**
  - **JWA options in current curricula**
  - **A JWA curriculum**
  - **An Institute for Joint Warfare Analysis**
- **Preparing to support the CNO's Seaman to Admiral program.**
- **Implementing distance learning.**



## **Current Initiatives (continued)**

- **Participating in reinventing government.**
- **Moving to satisfy Joint Professional Military Education, Phase-1 educational requirements.**
- **Working to increase enrollments of international students.**
  - **Increase levels of IMET/EIMET funding**
- **Working to increase enrollments of other U.S. students at NPS.**



# FY95 LCDR SELECTION RATES

NPS Overall: 52/70 = 74% (Navy = 70%)

