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Naval Postgraduate School, Monterey California

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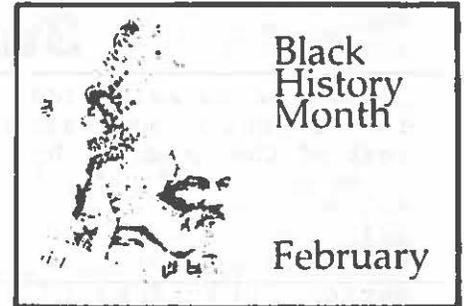
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The

# Quarterdeck

a weekly publication serving  
the Naval Postgraduate School



## Profile on Physics

### Viewing the Field Selectively

Selectivity could easily be a byword for the NPS physics department.

For in an academic domain that is basic to every physical science and engineering discipline, "we have to pick and choose those fields to emphasize," said Prof. Gordon Schacher, chairman of the 30-member department.

To assess the future course of science and technology and prepare students with an appropriately broad background requires an expert faculty with an active research agenda. Since physics research can be extremely costly, there are times when "we take a small part of the field -- something in which we can make a real scientific contribution, but not always try to be right at the center and in the forefront," he said.

Not that the faculty shies away from frontier research. Take for example the particle beam research of Professors Fred Buskirk and John Neighbours. Using NPS' linear accelerator, an experimental device which is small in comparison to accelerators found in laboratories at Stanford and Brookhaven, they are defining basic characteristics of particle beam radiation.

The study is important in the Strategic Defense Initiative. "The understanding that they develop here can be applied to larger beams," Prof. Schacher said. "Some of their work is actually ahead of the larger groups."

How does "selectivity" work in the academic and research programs of the physics department? A broad program is maintained with special emphasis placed on two areas -- acoustics and electro-optics / infrared technology.

Said Prof. Schacher: "Both deal with propagation through the environment. For example, ocean acoustics focuses on the propagation of sound underwater and electro-optics, the propagation of light in the atmosphere. (continued page two)

## AIAA Conference

The American Institute of Aeronautics and Astronautics (AIAA) will hold its Second National C3I Policy Issues and Answers Conference in King Hall at NPS Feb. 5-7.

About 500 people, including many high ranking military officers and DOD civilian officials, are expected to attend the conference.

LT. GEN. Brent Snowcroft, USAF (ret) is general chairman of the event. The Hon. Richard De Lauer, former Under Secretary of Defense, will be the keynote speaker.

(continued page two)

## Once a Clockmaker...

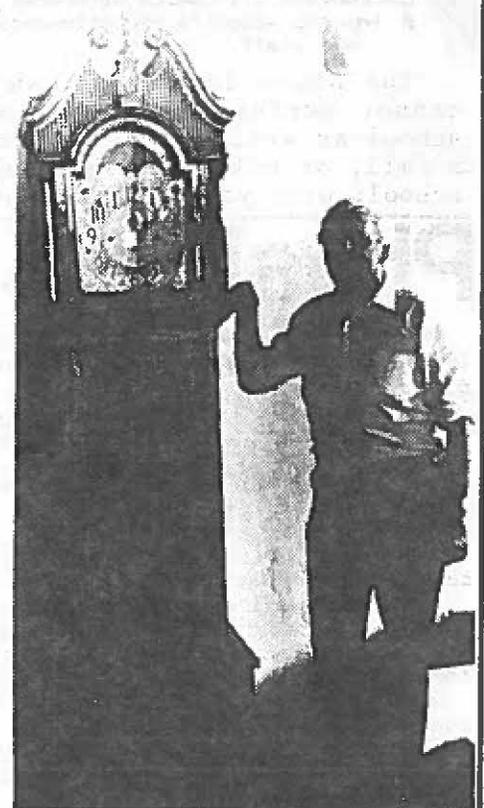
If you had noticed the elaborate grandfather clock in the quarterdeck lounge of Herrmann Hall last year, stop by and look at it now. A clear change has taken place.

The 60-year old Herschede Hall clock had been in a state of disrepair for several years until Bob Herschede and his wife attended the "Christmas on the Quarterdeck" celebration in 1981.

Herschede, a retired third generation clockmaker, recognized the grandfather clock as one made by his father. His subsequent offer to supervise repairs on the clock without charge was one that NPS couldn't pass up.

Herschede sent the clock to a plant in Mississippi for part of the repairs and when it returned he completed the restoration.

Today the lobby of the Old Del Monte Hotel again echoes the graceful chimes of a vintage Herschede Hall clock, thanks to the personal efforts of Bob Herschede.



## From the Superintendent...

Two weeks ago I addressed the U. S. Navy students on the subject of my goals for 1985. For the benefit of the rest of the command, here they are.

As an overall goal, I intend to emphasize the fundamental mission of the command which is to provide young military officers the finest graduate education that our resources will allow. The specifics fall into three categories: (1) academic; (2) discipline in command and management; and, (3) quality of life.

### ACADEMICS

- improve front end of all curricula
- establish a long range plan to emphasize basics
- establish a campus computer policy
- more effectively advertise our programs in order to meet the Navy's desired quota of students
- promote the priorities of students first, staff second and retirees third
- personally give six King Hall lectures a year
- continue to eliminate the junk that has accumulated over the years to make room for new laboratories
- organize classroom maintenance and repair
- continue classroom modernization (30% finished)

### COMMAND AND MANAGEMENT

- create a corporate image for the school
- stress the responsibility and authority of line managers
- abolish my office hours in Spanagel
- accept suggestions (from my box) only if they are signed

### QUALITY OF LIFE

- establish a viable board to advise me on issues of concern from the collective military and civilian communities
- promote more collegiality among the faculty
- get a family spirit going between support and mission groups
- keep ownership over the Navy golf course
- stress physical fitness
- renovate officer and faculty club and improve service
- create a student lounge
- open new exchange on 12 March
- renovate all campus bathrooms
- improve school's receptiveness with respect to new students, wives and staff.

The above list is an ambitious undertaking which I cannot perform alone. You've got to help. It's your school as well as mine! Drop me a note (signed), give me a call, or talk to your superiors. It's already a great school; with your help it can be a terrific school.

## Physics

(continued from page one)

"Underwater you have various salinity layers, thermal layers and turbulence. Propagation through that kind of medium undergoes random, unpredictable changes."

"Unpredictable in terms of exactly how sounds might be transmitted, but not unpredictable in terms of probabilistic characteristics of the propagation."

"The need is to tie (weapon) system performance to some easily measured characteristic of the medium."

A new program of research in the department is nuclear weapons effects. In this field, the selective specialization is on radiation damage effects said Prof. Schacher.

An important transition is now underway within the department.

"The labs and coursework were developed before the computer revolution. So one of the really important and exciting things is the school's laboratory initiative. It will give us tools that we don't now have," he said.

One of the new capabilities will be simultaneous simulation experiments. According to Prof. Schacher, one can quickly cover areas such as electro-optic systems, which involves signal processing, light propagation and light detection, with one combined experiment. It will provide a "front-to-back" physics education he said.

—John Sanders  
(Physics will be featured in the display case in Herrmann Hall during February.)

## AIAA

(continued from page one)

NPS staff, faculty and students are invited to attend the sessions. A NATO SECRET clearance is required. For further information, contact CDR Keith Urbanek, Security Manager ext. 2450.

## New CO's at NEPRF, Naval Reserve Center

CAPT Leon J. Pingel, former Commander, Naval Oceanography Command, has succeeded CAPT Kenneth L. Van Sickle as commanding officer of the Naval Environmental Prediction Research Facility (NEPRF). The change of command ceremony was held Jan. 22 at NPS.

CAPT Van Sickle is now staff oceanographer at the Naval Material Command (MAT-08) in Washington, D.C.

In another change of command, LT Lamonte K. Lofton, USNR, will be relieved of his duties as commanding officer of the Naval Reserve Center in Pacific Grove tomorrow at 1300 in a ceremony at the Center. The new CO will be LT Harry I. Scarborough III, USNR.

## War College Briefing

RADM James F. Service, President of the Naval War College (NWC) will give an NWC orientation briefing Feb. 6 at 1510 in In-122.

The briefing will address the importance of graduate education in strategic naval studies and career planning, along with details of the War College and its curriculum.

Eligible senior O3 and O4/O5/O6 officers are encouraged to attend. For more information contact CDR Masica, ext. 2514.

## Black Americans Celebrate Heritage

February marks Black History month and NPS will observe the event with a luncheon on Feb. 28, said Dottie Lewis, NPS EEO officer.

Dr. Verna Sloan, Deputy EEO Officer for Ft. Ord, will be guest speaker for the luncheon, which will be held in the La Novia Room from 1200-1300. Anyone interested can bring their lunch, and coffee refills will be available, Lewis said.

This year's theme is "The Afro-American Family: Historical Strengths for the New Century."

Said Lewis: "This is a chance for all Americans to become more aware of the significant role black Americans have in our country's defense and continued development as a great nation."

### LA MESA PTA

The February PTA meeting will be held Thursday evening, Feb. 21 at 1900 in the school Multi-Use Room. After a brief business meeting there will be a special classroom presentation, coffee and refreshments.

## AWARDS

The Superintendent presented the following military awards Friday, Jan. 25.

**DEFENSE MERITORIOUS SERVICE MEDAL**  
LT COL Thomas P. Stack, USAF

**MERITORIOUS SERVICE MEDAL**  
LCDR Valentin F. Gavito, USN  
MAJ Robert J. Herkenham, USMC

**AIR MEDAL**  
CDR James E. Linquist, USN

**NAVY COMMENDATION MEDAL**  
LCDR Allan R. Jones, USN  
LCDR Vern F. Wing, USN  
LT Charles A. Kuzma, USN  
LT Patricia M. O'Neill, USN  
LT Scott R. Van Buskirk, USN

**AIR FORCE COMMENDATION MEDAL**  
CAPT Edward O. Andrews, USAF

**NAVY ACHIEVEMENT MEDAL**  
LT Joseph A. Horn, USN

# RECREATION NEWS

## 5K RUN FOR HEART

The Rec Department's first annual St. Valentine's 5K Run for Heart will be held Feb. 14 at 1645 in front of the gym. All ages are encouraged to participate and prizes will be given to winners of each division. There will be a drawing for prizes too. Register at the gym or the Rec Office. Cost is \$2.

## Rec Bulletin Boards

To advertise items for sale, the Recreation Office monitors two boards, one outside the Rec Office, the other across from the Federal Credit Union. Before posting a 3X5 card, the Rec secretary must stamp it. Cards stay up approximately 30 days. Only 3X5 size cards are permitted.

## WOMEN'S SOCKO

Women softball players are needed. Stop by or call the Rec. Office at 646-2466 if interested.

## CLASSIFIED ADS

Ads must be placed by NPS personnel (faculty, students, staff) and be noncommercial in nature.

Ads may be submitted in person or via mail/guard mail, and must reach the Public Affairs Office no later than noon Monday for publication in that week's issue. Ads will be run on a first come, first served basis. Please notify the PAO of any ad cancellations by calling ext. 2023. Ads will be run for a maximum of two weeks unless resubmitted.

**SAN DIEGO HOUSE FOR SALE:** 3 br, 2 ba, fenced yd, orange and peach tree. \$85,000. Call 375-8014.

**BROWN SOFA,** excellent cond., \$125. 3 lrg. floor pillows, \$35. Call 375-7814.

**TOASTMASTERS INTERNATIONAL** is a club dedicated to the improvement of speaking skills. Meetings are 1200 to 1300 Fridays in the Galileon Room of Herrmann Hall.

## NPS TENNIS ASSOCIATION

The NPS Tennis Association is sponsoring a Mixed Doubles Love Tennis Play day Feb. 9 and 10. There will be prizes for top finishers. Door prizes and refreshments will also be available. The cost is \$10 per couple. Applications can be picked up in the Recreation Office. Call Pam Kanewske at 372-0951 for more information. Association memberships are available.

## SAILING ASSOCIATION MEETS

There will be an organizational meeting of the NPS Sailing Association Feb. 4 from 1930 to 2100 in Ingersoll Hall, room 122.

NPSSA will sponsor a racing clinic jointly with the Monterey Peninsula Yacht Club on Feb. 5, 7, 9, 16 and 23. For more information call 372-4428 or 624-5223.

# SPORTS

## A LEAGUE

	W	L
Thunder and Lightning	4	0
Random Deviates	4	0
TBA	3	2
EEI	3	2
Cycloones	2	3
FNOC	0	4
Rejects	0	5

## B LEAGUE

	W	L
ASWEPS	5	0
ME	4	1
Pubs I	4	1
Pubs II	3	2
Hard Disks	2	3
EEII	1	4
Transonics	1	4
WTN	0	5

## THE QUARTERDECK

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Superintendent: CDRN R.L. Shumaker, USN  
 Foreword: Dr. David A. Schradley  
 Public Affairs Officer: LCDR N.B. Thompson, USN  
 Managing Editor: John Sanders  
 Editor: JO2 Mary Reed, USN  
 Copy Editor: JO2 Michele S. Browning, USN  
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We solicit material in written form, but reserve the right of editorial control. Material should be submitted to the Public Affairs Office, Room 723, Herrmann Hall. Deadline for submission of material for publication is 12 noon, Monday.

# "CIVISCOOP"

## NEW EMPLOYEES:

Naval Postgraduate School

Melissa Ciandro	Comp Prog	Oceanography
Natalie Koffman	Adj't Rsch Inst	Admin Sci
William P. Krauthammer	Social Services Aid	Admin Sci
William J. Lentz	Physicist	Physics
Billie C. Payne	Phys Sci Aid	Oceanography
Ron S. Raugust	Phys Sci Aid	Oceanography
Kent Roberson	Adj't Rsch Inst	Admin Sci
Deshanta Thomas	Student Aid	Air-Ocean
Christopher A. Vaucher	Meteorologist	Meteorology
Gail M. Vaucher	Phys Sci	Meteorology
Peggy J. Zuver	Shipment Clerk	Supply

Applications for the following vacancies are now being accepted in the Civilian Personnel Office. Consult the Merit Staffing Program announcements in your department for further information.

Position & Announcement #	Location	Grade	Closing Dates
Computer Programmer (2 positions) 84-71.2	FNOC	GS-09 GS-11	15 Feb 85
Computer Specialist 84-46.1	FNOC	GS-09	22 Feb 85
Supvy Budget Analyst 85-6	Comptroller	GS-07 or 09	01 Feb 85

## Youth Flouride Festival Feb. 11

The NPS Annual Flouride Festival will be held at the NPS Dental Facility, fourth deck, Herrmann Hall Monday, Feb. 11. This service is free for all active duty and international student's dependents between the ages of 3 and 18.

Each dependent will receive a dental screening and a flouride treatment. Prior to their appointment, parents are advised to insure that their child has thoroughly brushed and flossed their teeth.

This year's theme for the National Children's Dental Health Month is "Be a tooth S.L.E.U.T.H., Start Learning to End Unhealthy Tooth Habits."



Appointments are necessary and can be made by calling Faye Snyder at 375-4802 on Feb. 4, 5 and 6 only.

## Energy Costs on the Rise

Do you look forward to receiving your monthly utility bill from PG&E, especially during the winter?

Or is it a struggle to open that envelope and "face the music" of higher energy costs?

With utility rates up about 18%, energy consumption is taking a bigger bite from your pocketbook -- and from NPS' budget.

Even though use of electricity at NPS is at or below consumption for the same time last year, the school's monthly electric bill is running about \$15,000 higher per month because of the rate increases says public works engineer ENS Keith Berndt.

By turning off lights and equipment at every opportunity, you can help hold down energy costs ENS Berndt said.

# CALENDAR

## February

-4 TO 14-

PRACTICAL COMPTROLLER SHORT  
COURSE # AS-S 507  
IN/221  
(POC: CDR ROYER, EXT 2884)

-5 TO 7-

5 FEB 0800-1700  
6 FEB 0730-1500  
7 FEB 0730-1700  
U.S. ARMY MISSILE COMMAND  
CROSSBOW SEMINAR (SECRET)  
S/221 (5 FEB)  
IN/122 (6-7 FEB)  
(POC: PROF HALTITUS,  
EXT 2560)

AIAA CONFERENCE  
SECRET

KING, S/101A  
(POC: PROF FUHS, EXT 2948)

-6-

1510  
SEMINAR  
DR JAMES B. SYMPSON  
NAVAL PERSONNEL RESEARCH  
DEVELOPMENT CENTER  
STOCHASTIC MODELLING IN PSYCH  
TESTING THEORY  
RO/260  
(POC: J. EASRY, EXT 2780)

-6-

1510  
SUPERINTENDENT'S GUEST LECTURER  
RADM J E SERVICE, USN  
PRESIDENT, NAVAL WAR COLLEGE  
IN/122  
(POC: CDR MASICA, EXT 2514)

-8 TO 9-

CAPT LESKO, USN  
DEPUTY AUDITOR OF THE NAVY  
TO SPEAK TO PCC STUDENTS  
(POC: CDR ROYER, EXT 2884)

-13 TO 14-

0730-1700  
VISTA STEERING GROUP MEETING  
S/221  
(POC: RUBY KAPSALIS, EXT 2984)

-14-

1515  
SUPERINTENDENT'S GUEST LECTURER  
VADM ARTHUR S. MUREAU, JR.  
ASST. TO CHM., JCS  
KING HALL

-15-

1830-0100  
CDEC  
COCKTAILS/DINNER/DANCE  
BARBARA MCNITT BALLROOM  
(POC: LT BATISTA, EXT 6195)

-16-

1800-0100  
RED CROSS  
COCKTAILS/DINNER/DANCE  
BARBARA MCNITT BALLROOM  
(POC: LEAH HALL, 758-6185)