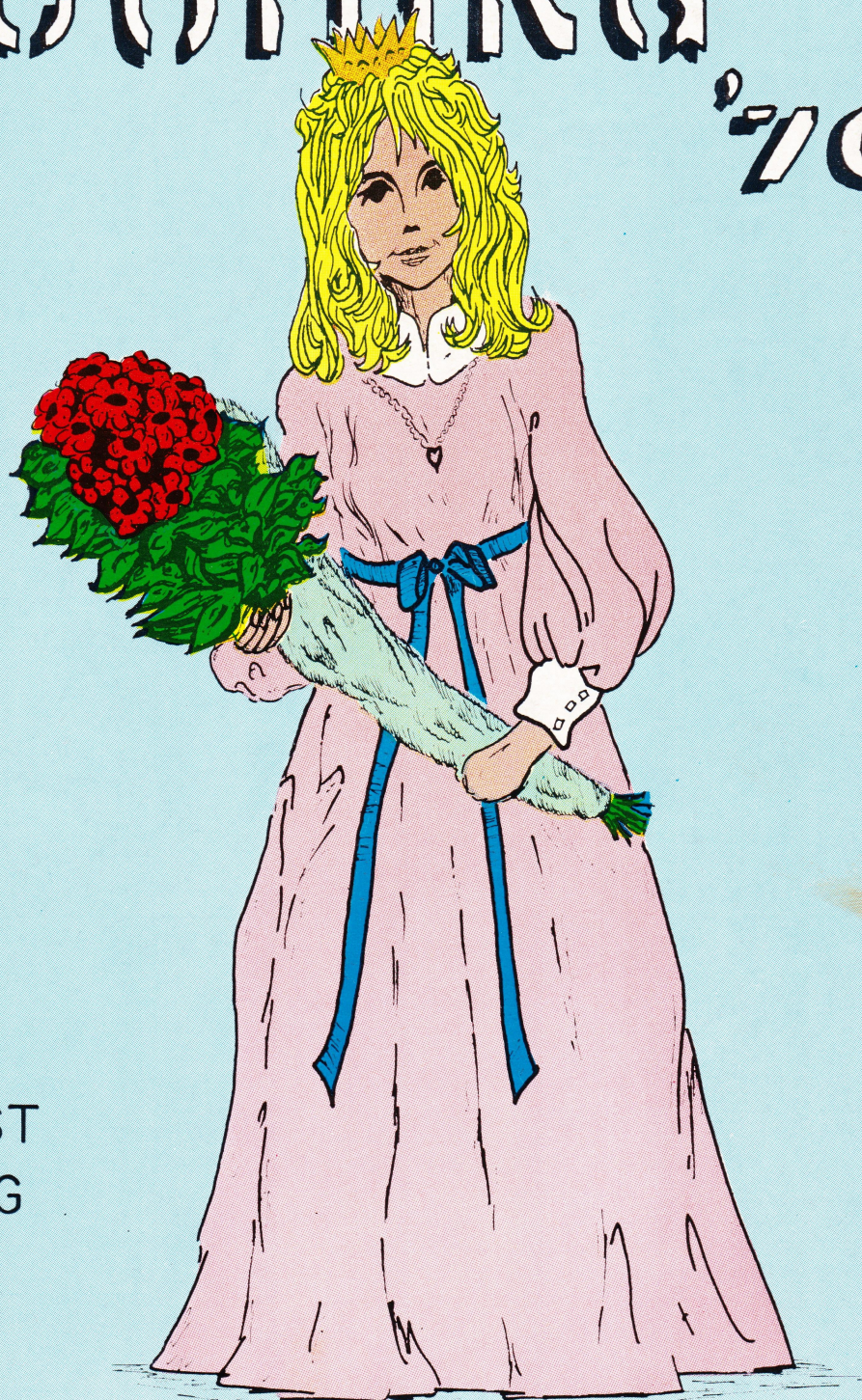


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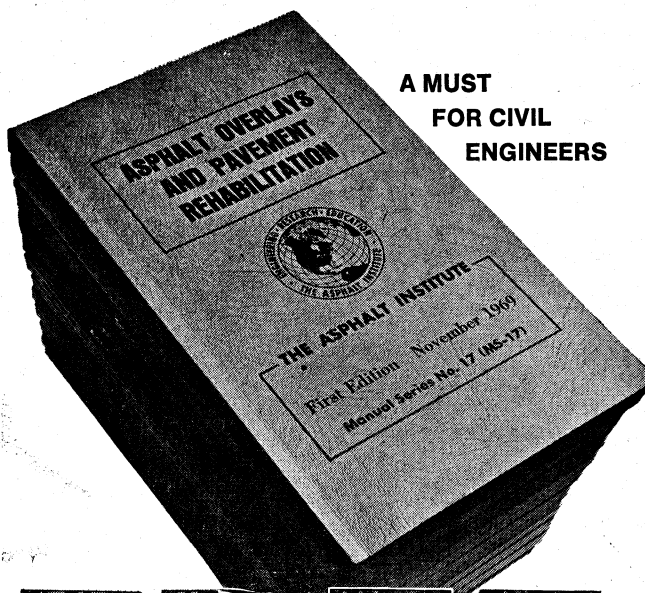
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D. Free distribution (including samples) by mail, carrier or other means	0*	0**
E. Total distribution (sum of C and D)	6694*	7126**
F. Office use, left-over, unaccounted, spoiled after printing	415*	274**
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ANALYZING THE NEW USNA

As each member of the Brigade returns and finds the 17,560 walls changed a little he may be wondering what it's all about. Certainly few if any people are complaining about our new privileges. The added responsibilities for first class is more than worth the unlimited weekends afforded them. With the shadow command in effect, the first class is guaranteed near complete control over brigade activities. Of course second class and youngsters now have that coveted privilege of riding in cars—congratulations. And surely the additional weekend liberty per semester for underclass isn't unwarranted.

Radm. Coogan pointed out that the privileges are not a price the administration must pay to improve morale, but one can't help but notice a more positive and constructive attitude from upperclass toward the academy. Realistically, complaints and gripes will probably never be eliminated from the academy or any military institution. Although morale is closely associated with complaints, there are certain factors involved which can increase morale but not necessarily reduce the quantity of complaints. Just regulations and an understanding of one's relation to his environment are two important factors in achieving good morale. By the nature of certain restrictions placed upon military personnel an attempt to compromise military ideals only causes friction. Constructive criticism in policy has been encouraged but attacks at the roots of military ideals has never been tolerated. Ever since the class of '71 arrived here, and probably even before that, a few midshipmen have tried to relate their role in this world to the role being established by their college contemporaries. This is not to say that ideals of college students are wrong by any means. But it's hard at times to identify with a group of people that necessarily have more liberties. As individuals here at the academy our values of service and concern must be modified somewhat. And the attempts of the Superintendent and the Commandant to define more clearly our role in a military environment has helped those midshipmen struggling for identity in the military service.

This year promises to be a good year for the Brigade. Confidence is restored that this year the Army-Navy hassle will be a victory for Navy. The Forrestal lecture series is a privilege granted USNA that few colleges ever get and is destined to be more than successful. And the additional liberty and extended leave periods will allow mids to enjoy a considerable amount of freedom which along with a recent copy of the *Log* will assure one a very enjoyable and entertaining weekend. I would like to encourage midshipmen not actually on the *Log* staff

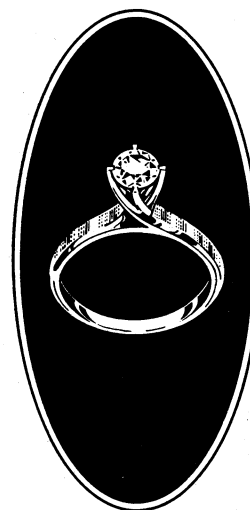
to contribute talent and ideas in coming issues to either the *Midshipmen Forum* or the *Mid's Corner*. Positive and constructive critiques and analyses of policies affecting midshipmen will be placed in the *Midshipmen Forum* section while creative prose and poetry will be selected for the *Mid's Corner*.

Brad Foster
Log Editor

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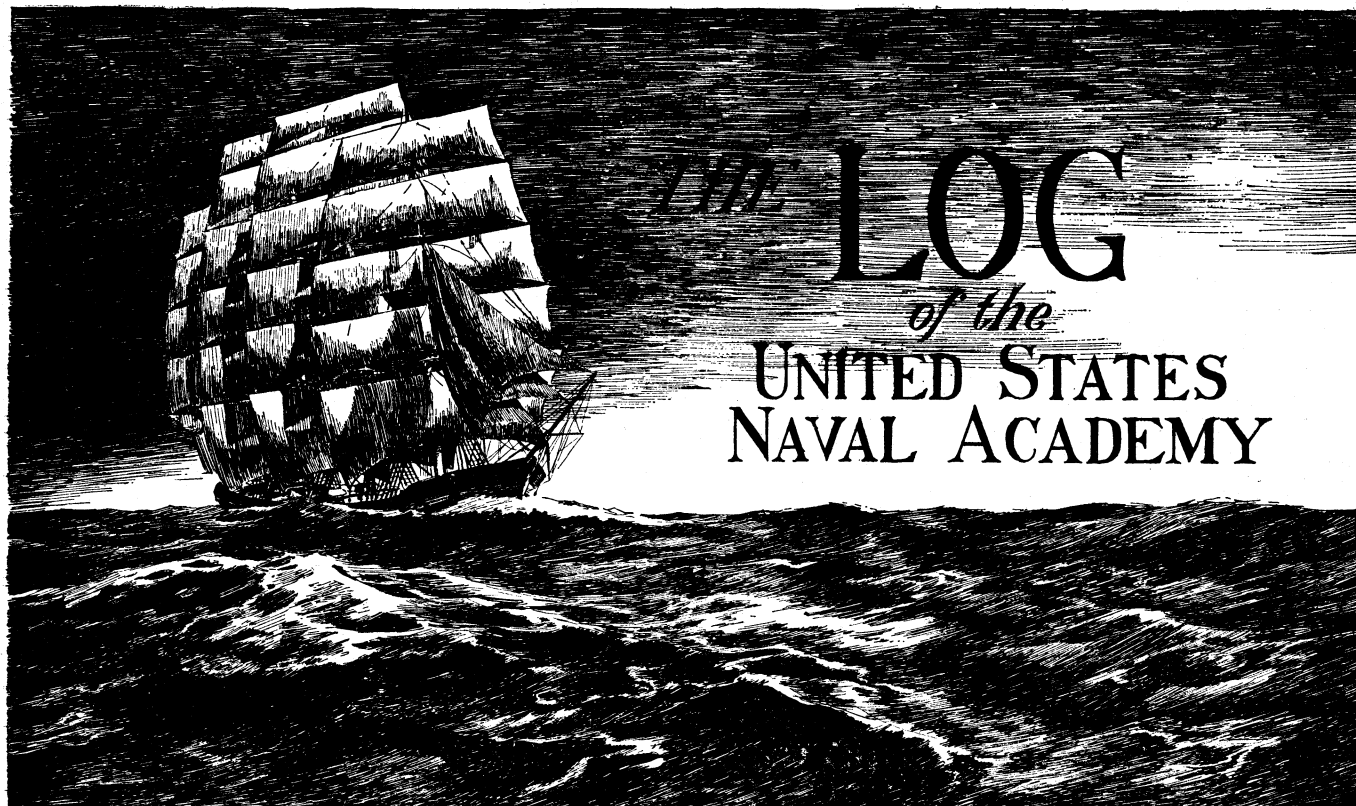
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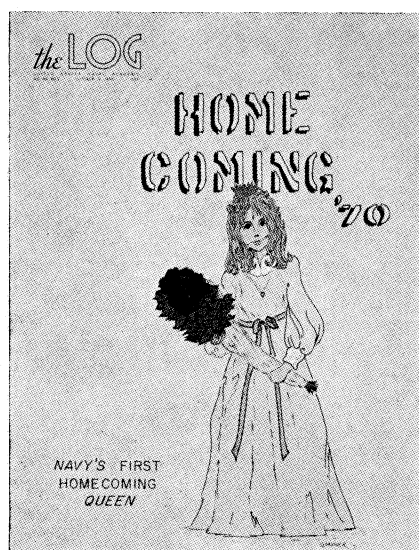
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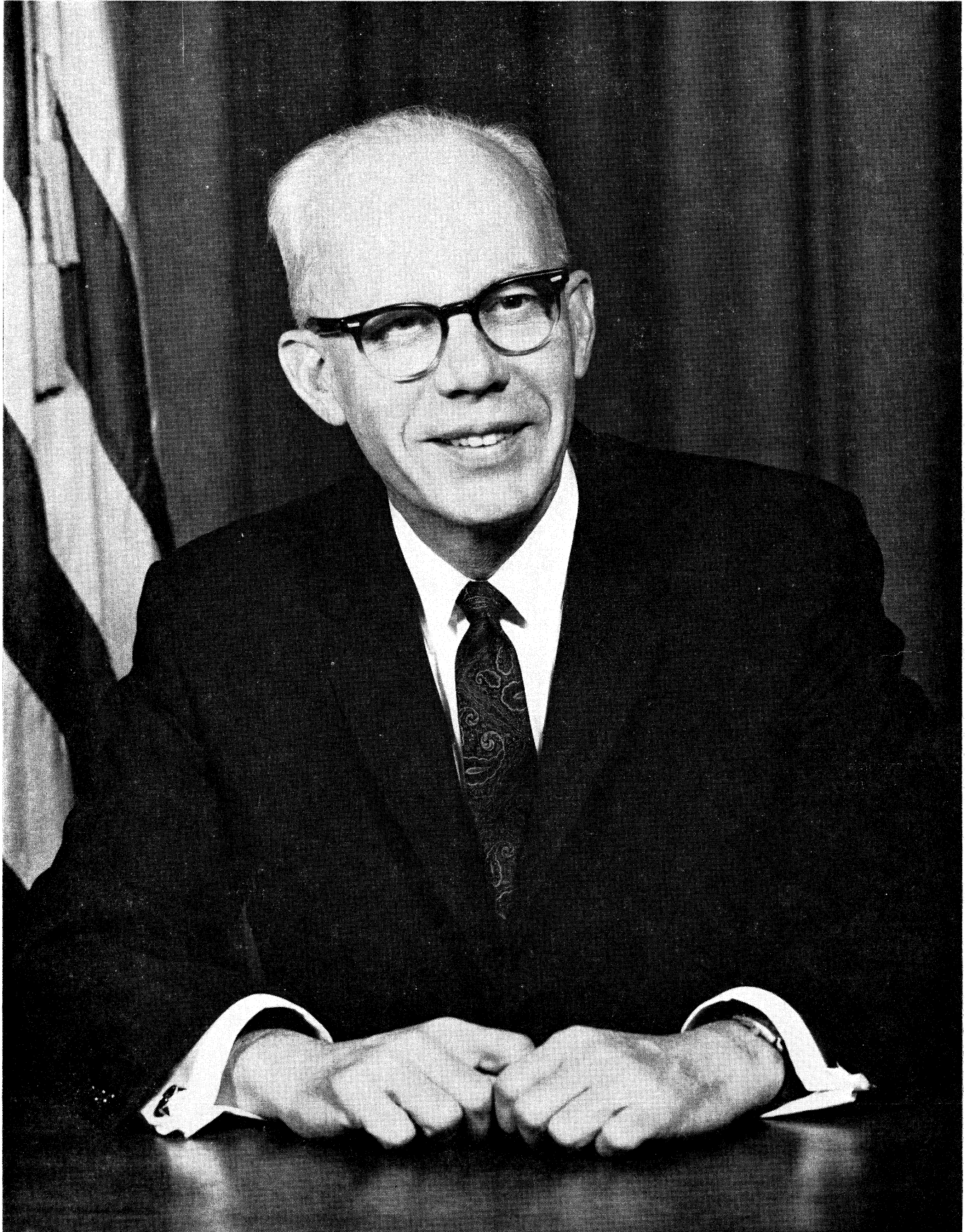
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The cover pays tribute to a Navy first, our Homecoming Queen. The lovely lass will be revealed during the game.



IN MEMORIAM

Dr. A. Bernard Drought **Academic Dean** **United States Naval Academy**

Arthur Bernard Drought was appointed Academic Dean of the U.S. Naval Academy by the Secretary of the Navy on July 1, 1964. Prior to coming to Annapolis in 1963 on a one-year pro tempore appointment Dr. Drought served as Dean of the College of Engineering at Marquette University in Milwaukee.

Dean Drought, who had wide experience in teaching, research and college administration, participated in curriculum and architectural studies associated with the modernization and expansion of the academic program and facilities.

Dean Drought received his Bachelor's degree from Milwaukee State Teacher's College in 1935 and his Master of Arts degree from Northwestern University in 1942. He attended Harvard University from 1946-49, where he was awarded both M.S. and D.S. degrees in Electrical Engineering.

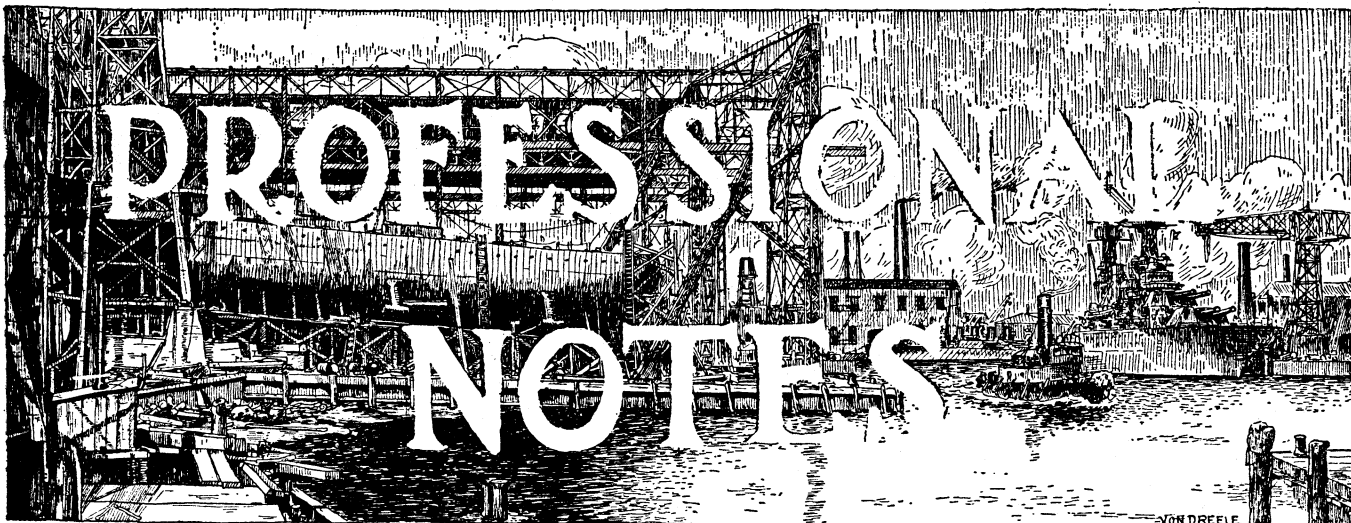
After various teaching assignments, Dean Drought became Director of the Department of Electrical Engineering at Marquette in 1950, Assistant Dean of Engineering in 1956, and Dean of the College of Engineering in 1957. He also acted as Director of the Evening Division of Marquette and lectured in the Marquette University Medical School's Department of Physiology.

His research experience included the study of high tension voltage dividers and telemetering. As a commissioned officer in the Naval Reserve during World War II, he headed a research group at the Aeronautical Radio and Radar Laboratory, Naval Experiment Station, then at Philadelphia. He also engaged in team research in investigative medicine at the Veteran's Administration Hospital, Wood, Wis., adapting electronic devices to medical research, and served as consultant to various Milwaukee industries.

Dean Drought published several papers on various aspects of engineering.

He was active in many professional and civic organizations including: American Institute of Electrical Engineers, American Society for Engineering Education, Wisconsin Society of Professional Engineers, and the Boy Scouts of America.

A native of Wisconsin, he is survived by his wife, Ruth and their three sons: Richard, Michael and Arthur.



The Unbuilt Canal

(Navy Magazine, September 1967)

For many years now there has been an effort to dig another channel across either Panama or Costa Rica, in the hope of relieving most of pressures on the existing channel at Panama. It has been suggested that through the use of atomic bombs that the channel can be excavated.

The existing channel is far from being perfect. Many things wrong with it today stem from its age and location. At the Pedro Miguel lock, the release of water causes a two foot surge that causes erosion in the Gaillard Channel. It takes about 103,000 tons of water to fill the locks. This erosion problem necessitates the dredging of the channel. Another problem more important, National defense wise, is that with the channels 110 foot wide locks are too narrow for some 250 of the worlds ships; most importantly, U.S. Navy carriers.

The search for a new route initiated in 1930 with the U.S. Army making a survey in Nicaragua. The proposed route was surveyed and "filed" in Congress. In 1938, a congressional committee, which Lyndon Johnson was a member of, investigated the possibility making a new channel. They recommended

that a new channel be dug and the Report was "filed." During both the Truman and Eisenhower Administrations, surveys were taken, and costs were estimated but no action was taken on the reports.

In 1962 the Atomic Energy Commission experimented under the project name of Sedan to test the applicability of using hydrogen bombs to dig trenches. Hydrogen bombs were used because they could be made approximately 99% pure as opposed to atomic bombs which are not as clean. It was found that a 100-kiloton bomb would dig a trench 1,000 feet wide and 320 feet deep. This is approximately 12 million cubic feet of earth.

With the use of hydrogen bombs, the cost of digging a new canal would be considerably cheaper. Under normal operations, it would cost one to two dollars to remove a cubic yard of earth. In large projects this cost can be reduced to 25¢, but with the use of the bomb, the projected cost is about six cents; considerably cheaper. The danger of contamination due to the bomb is low; the A.E.C. was able to return to the test sight five days after the test. To dig the trench in

Nicaragua, it was estimated that it would take 640 bombs at a cost of \$2 billion as opposed to a conventional cost of \$6 billion with an estimated building period of three to five years. The project also calls for the use of existing navigable waters.

The major block to this project is the Nuclear Test Ban Treaty. Under the provisions of the treaty explosions of nuclear weapons or Russia would not be favorable to the countries that signed the treaty. Though under the treaty it is possible that a test may be conducted if the other signature nations agree. With over one hundred signed countries this possibility seems remote though possible. The major stumbling block is Russia. Russia would not be favorable to the construction of a newer canal and a larger one for military reasons. With the extension of political influence that Russia is trying to gain in Latin America a new canal would not be to its advantage. Thus it seems that a new canal that would be beneficial to all nations, especially the maritime nations, will remain unbuilt.

By Charles Chesterman

FORRESTAL LECTURE SERIES

23 SEPTEMBER 1970

ROBERT H. FINCH

Counsellor to the President

14 OCTOBER 1970

ADMIRAL ELMO R. ZUMWALT, JR., USN

Chief of Naval Operations

21 OCTOBER 1970

C. NORTHCOTE PARKINSON

Author and Lecturer

28 OCTOBER 1970

AL CAPP

Author, Cartoonist, and Lecturer

NOVEMBER 1970

JAMES RESTON

Author and Political Analyst

2 DECEMBER 1970

ALEX HALEY

Author of "The Autobiography of Malcolm X"
and Lecturer

FEBRUARY 1971

CAPTAIN JAMES LOVELL, USN

Astronaut

24 FEBRUARY 1971

BILL TOOMEY

1968 Olympic Gold Medal Winner in Decathlon

17 MARCH 1971

ROBERT F. FROEHLKE

Assistant Secretary of Defense

14 APRIL 1971

F. LEE BAILEY

Attorney-at-Law

5 MAY 1971

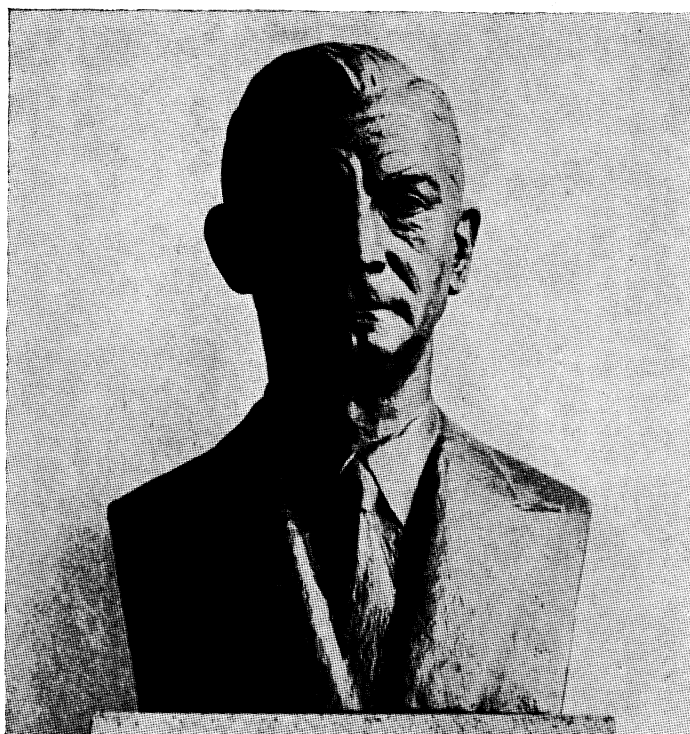
HONORABLE JOHN A. LOVE, JR.

Governor of Colorado

For the academic year 1970-71 a group of distinguished speakers have been invited to the Naval Academy to take part in a program entitled, The Forrestal Lecture Series. The purpose of this series is to enhance the education, awareness and appreciation of the Brigade of Midshipmen in the social, political and cultural dimensions of this nation and the world. This annual series will feature leading representatives from all walks of life . . . government, the arts, humorists, authors, educators, sports, politics, and other major fields in the national and international scene.

The late James V. Forrestal, the foremost proponent of seapower of our era, was instrumental in the formation of the modern Navy. He served as the first Undersecretary of the Navy and the first Secretary of Defense. His broad educational and professional background involved him in widely separate subjects and fields of endeavors such as dialectic materialism, existentialism, literary criticism, international monetary funds and devising shipyard pay scales. It is considered fitting then that this program which has as its purpose the broadening of the perspective of the Brigade of Midshipmen bear the name of this honored American.

JAMES FORRESTAL



FORRESTAL SERIES CONTINUES WITH

The James U. Forrestal Lecture Series got underway on 23 September. Robert H. Finch, Counsellor to the President, gave the opening talk to the Brigade and then answered several frank questions. Next Wednesday, Admiral Elmo R. Zumwalt will be the second Forrestal lecturer. It will be the first time that the new Chief of Naval operations has addressed the Brigade.

Much effort has gone into the making of the Forrestal Lecture Series. The speakers include an Admiral, three authors, a cartoonist, an astronaut, an Olympic Gold Medal Winner, a lawyer, and three civil servants. The lecturers are also well balanced politically. Although this year's engagements were arranged by the Office of the Superintendent, the job of nominating speakers for future Series has been turned over to a committee of second classmen.

At only the first two lectures of the Series is attendance compulsory. But, hopefully, the members of the Brigade will show a sincere interest in this aspect of higher education that in the past was somewhat neglected.

ADM. ZUMWALT . . .

Last summer, Admiral Elmo R. Zumwalt became the youngest CNO in U.S. history. His distinguished career began in 1939 when he received an appointment to USNA from his native state, California. As a Midshipman he was President of the Trident Society, Vice President of the Quarterback Society, was twice winner of the June Week Public Speaking Contest, participated in intercollegiate debating, and was a Company Commander and a Regimental Three Striper. He graduated *cum laude* on June 19, 1942, with the Class of 1943.

During the Second World War he served on destroyers and was awarded the Bronze Star with Combat "V" for service in the Battle for Leyte Gulf. Following the war, he commanded (as prize crew officer) a 1200-ton Japanese river



The nation's youngest CNO will speak 14 October.

gunboat. In that capacity he took the first American ship since the outbreak of the war up the Yangtze River to Shanghai. There they helped to restore order and assisted in the disarming of the Japanese.



The author of *Parkinson's Law* may have the answers.

Admiral Zumwalt has served in three wars and has commanded, in addition to the gunboat, a DER, DD, and a DLG, Cru Des Flot 7, and Naval Forces, Vietnam. His shore billets have included the Naval War College, Bu Pers, the National War College, the Office of the Assistant Secretary of Defense, Executive Assistant and Senior Aide to the Honorable Paul H. Nitze, Secretary of the Navy; and the Systems Analysis Division, Office of the CNO.

After serving as Commander Naval Forces, Vietnam, he was nominated by President Richard M. Nixon as Chief of Naval Operations on 14 April 1970. Admiral Zumwalt took his oath of office at USNA, on 1 July.

PROF. PARKINSON . . .

In his famous book, *Parkinson's Law*, Professor C. Northcote Parkinson says "Work expands so as to fill the time available for its completion. (Whether that means the typical second classman with engineering, wires, and weapons is doomed or not is a question for Professor Parkinson following his lecture.) The Professor has been a long-time analyst of the absurdities of the "laws" governing business operations in big government, corporations, education and in smaller units right down to the family. He is also the author of *Inlaws and Outlaws*, a book which explores corporate climbing through such devious methods as marrying the boss's daughter. Another book, *The Law and the Profits* delves into the reasons why expenses rise to meet and even surpass—income. (Once again, a problem relating to a mid's life and \$208 a month). A *Law Unto Themselves*, *Left Luggage* (a caustic history of British socialism), and *Mrs. Parkinson's Law* are the Professor's most recent books.

Professor Parkinson is not merely a humorist however. He has taught history at Indiana University, the Harvard Graduate School of Business Administration, the Roy-

H ADM. ZUMWALT, PARKINSON, CAPP

al Naval College, the University of Liverpool, and University of Singapore. In addition to the above mentioned books, he is the author of many highly respected volumes on historical and political thoughts including *The Evolution of Political Thought*, and *East and West*.

Here is one man who has been able to deal with the seeming trivialities of life and come to some solidified conclusions.

AL CAPP . . .

In an article in *Life* entitled "My Well-Balanced Life On One Leg" Al Capp said that he didn't pay undue attention to his wooden leg (a term he prefers to "prosthesis," which he claims has a vaguely nasty sound). It could come with him if it wanted to, but it could expect no more pampering from him than to be oiled every 500 miles. Nor did the loss of his left leg above the knee (at the age of nine) affect his life as an active kid. He frequently took off on cross-country trips, hitch-hiking, riding freight cars, living off the land.

At high school in Connecticut he was distinguished by 1) winning all the drawing prizes; 2) winning all the essay-writing prizes; and 3) flunking Geometry I nine times. (He never did graduate.) He attended seven art schools for a half a term each, (or about as long as the financial offices and landladies would wait for their payments). After several years of living chiefly on carrots and cigarette butts, Capp created "Li'l Abner." It was an immediate success. It now appears in over 1000 newspapers here and abroad, and has eighty-million daily readers. In a poll taken in Canada a few years ago to determine the historical character most admired by Canadians, Winston Churchill ran first, "Li'l Abner" second.

Besides his main career as a cartoonist, Capp has been a correspondent and news commentator. He was the most frequently booked guest on the Johnny Carson Show until the famous night New York's



Creator of "Li'l Abner," Al Capp, succeeds w/o geometry.

Mayor Lindsay, his fellow guest, said he couldn't understand why anybody was afraid to walk the streets of his city. The Mayor said

he often did and he had never been mugged. Capp said that if he too were nine feet high and accompanied by an army of armed guards, he wouldn't be afraid either; but that if he were the average New York City citizen coming home after dark, he would be just as afraid as nine million others were, of being mugged, mutilated, or murdered. This brought Capp an ovation from the studio audience, thousands of fan letters from the TV audience, but no more invitations from NBC.

Capp's comment on this was, "I am now old enough and rich enough to tell the truth, and I'm surprised that NBC isn't."

He does continue, however, to appear on TV frequently. Also, he has gotten involved in making films and records. Most recently, Capp has become known as a most uncompromising campus speaker.

Capp doesn't drink, not out of moral conviction, but because of a queasy stomach. He does claim many other bad habits.



The wonderful world of youngster pep.

UNCENSORED SCENES

This year means a new editor. A new editor means a new staff. A changed staff brings a better and more exciting magazine, the Log. Keeping with the times, the former "IN The Groove" column has changed hands and name. Keep up with the "Uncensored Scenes" coverage of weekend wheres and whats, record releases, and flares and wears. If you have any suggestions for this column please submit them to Dub Hay in 551. Share your hangouts and new plebes with others.

To start off the hunting season right, here are a few suggestions to get your year off to a banging start. Believe it or not, the infamous Halfway House has arrived. Saturday nights have come alive with two great bands. The New Diablos from Baltimore, having recently cut their first record, have established a real following from the local R.N.'s. (not registered nurses). They scream acid rock and play a good variety of styles as well. The Jake, alternating with the New Diablos, play a good back-up Crosby, Stills, and Nash style. There is a cover of one dollar at the door and drinks range from seventy-five cents to one dollar.

If your weekend calls for eating out in Washington, here are a couple of recommended places: Emerson's,

located at 14th and K, serves good steak and all the beer you can drink for very reasonable prices. For you pizza-eaters, Luigis, on 19th and M, is the garlic pit of D.C. Their Italian food is excellent as well as sensibly priced. Downstairs is packed with lots of good people and conversation while the upstairs offers more sophisticated dining pleasures. Go early, beat the line, or you'll land at Happy Mac's.

Homecoming stars the Ides of March on Friday, Oct. 6, at 2000 in the Field House. They will undoubtedly hit us with "Vehicle." Don't miss the concert, it will be a good beginning of a fabulous weekend when Navy beats Pittsburg.

From the record rack, two new albums roll out. The James Gang has released their second and much improved album, "The James Gang Rides Again." Funk #49 and Ashtonpark highlight the album. CCR has done it again with their latest album, "Cosmos Factory." They make Heard it Through the Grapevine a whole new rock experience for your Credence library.

Until next issue, I leave you with the parting words of one of our illustrious classmates, "Rake, Skate, and Donate, Dad!."

Saturday Night Good Deal At St. John's

All midshipmen have been invited by St. John's College to the weekend movie series. The movies are shown in Francis Scott Key Auditorium on the campus. Admission is only 50 cents. This is an unusual opportunity to see film classic and meet USNA's neighbors.

- October 10th* "Birth and Death"
Produced by National Educational Television; a startling documentary, won national acclaim.
"Time Is"
The Nuffield Foundation for the History of Ideas.
- October 17th* "La Dolce Vita"
Directed by Federico Fellini, starring Marcello Mastroianni, Anita Ekberg, Anouk Aimee, and Nadia Gray. Cannes Film Festival Award; Joseph Burstyn

Award; New York Film Critics Award; on "Ten Best" Lists of all major reviewers. (Italian dialogue; English subtitles)

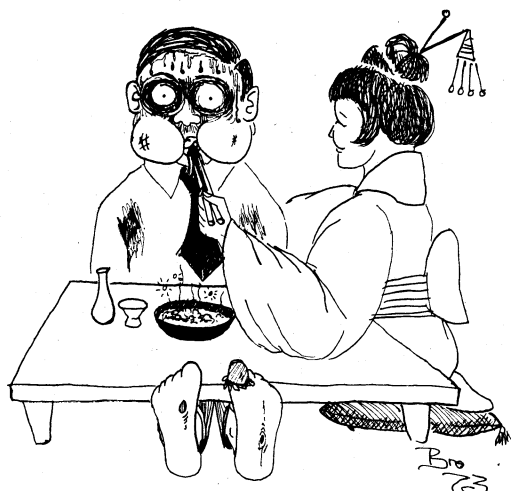
- October 24th* "Through a Glass Darkly"
Directed by Ingmar Bergman, starring Harriet Andersson, Gunnar Bjornstrand, Max von Sydow, and Lars Passgard. Best Foreign Language Film; American Academy Award; Sweden's Academy Award. (Swedish dialogue; English subtitles)
"The Adventures of *"
Directed and Produced by John Hubley. Winner, Venice Film Festival.

- October 31th* "Triumph of the Will"
Directed by Leni Riefenstahl. (German dialogue; English subtitles)

CRUISE JUKS



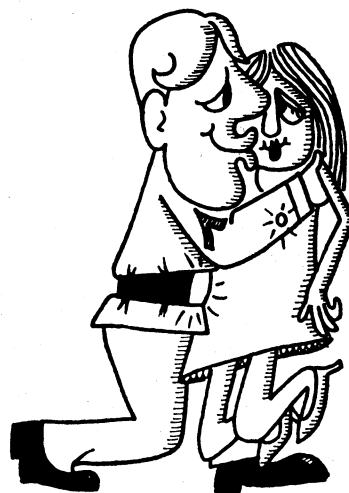
"I meant the mustache, son."



"What's the matter Meedship? You no lika fish eyes in your Sukeyadi?"



That bright young Marine,
George E. Porgie,
At kissing the girls
had an orgy.
They'd run
and
they'd cry,
"What brass!
What a guy!"
"But of course.
I use Brasso",
winked George E.

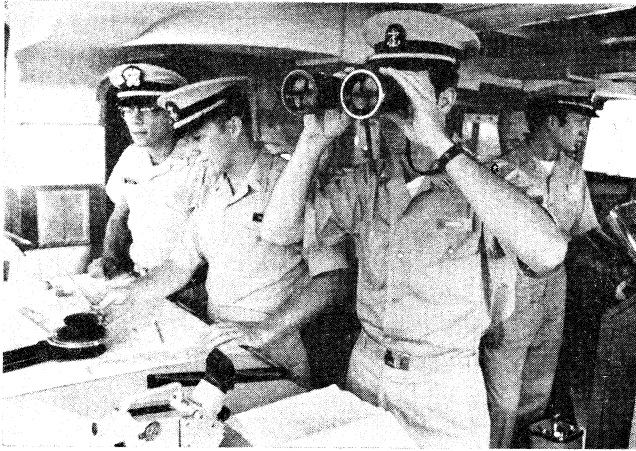


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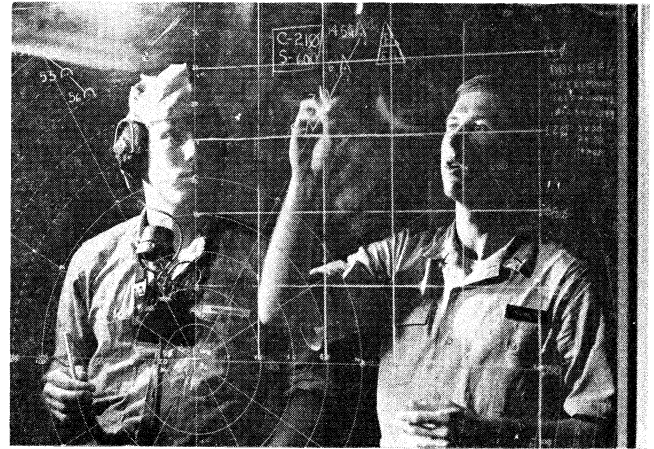
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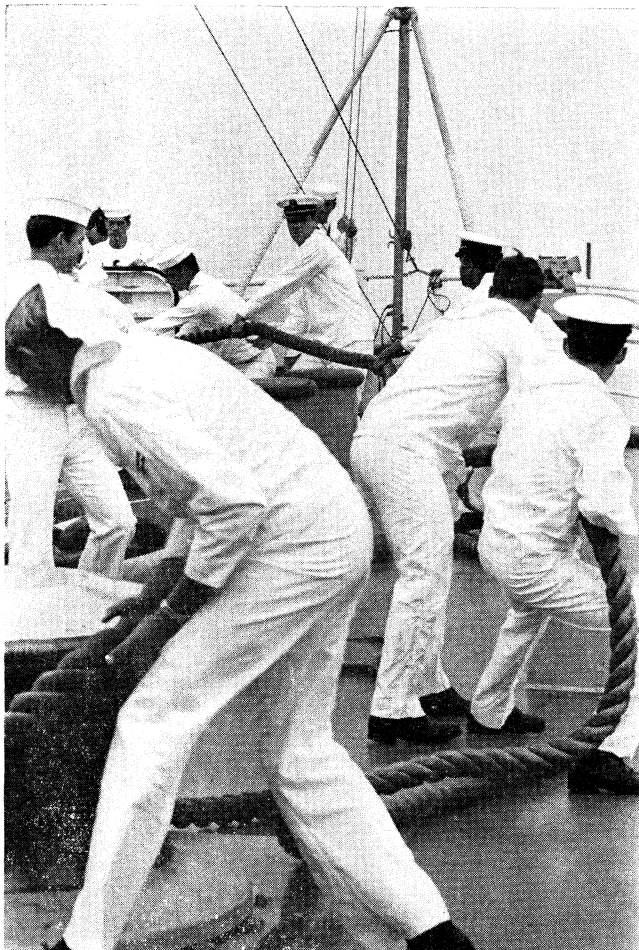
1970 SUMMER CRUISE



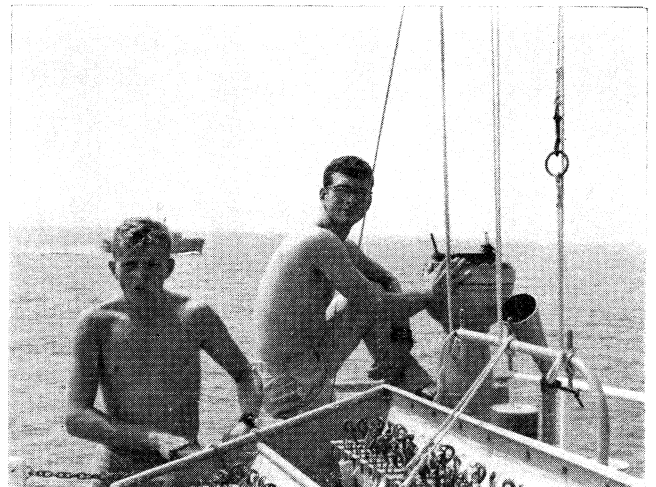
FIRST CLASS LEARN THE
VALUE OF VIGILANCE . . .



AND COORDINATION
BETWEEN DIVISIONS.

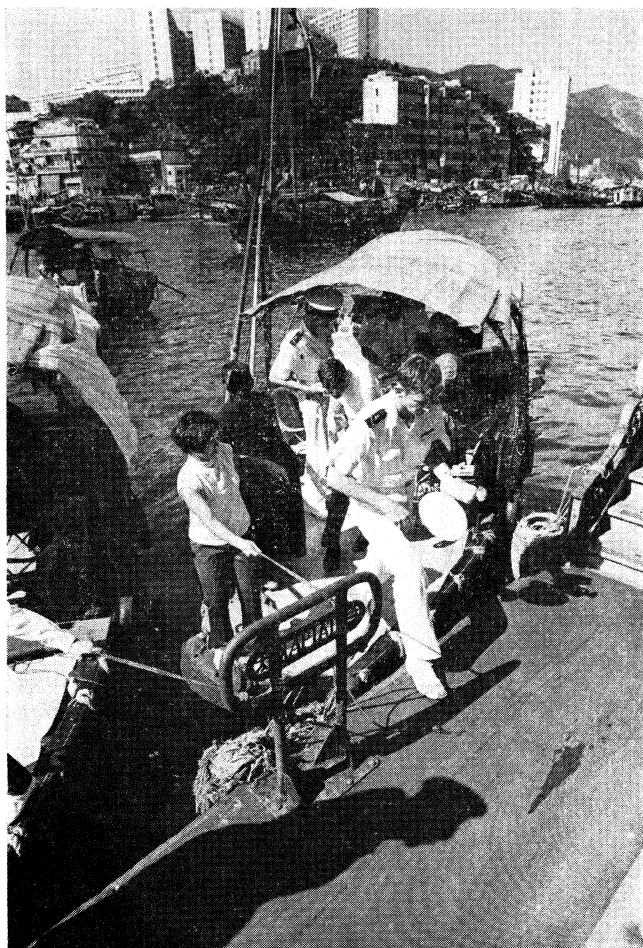


LEFT: YOUNGSTERS FIND CRUISE
ISN'T ALL LIBERTY



ABOVE: TANNING AND
TACTICS ARE BOTH PART
OF SECOND CLASS SUMMER

(Photography by USNA P.A.D. and S. Clawson)

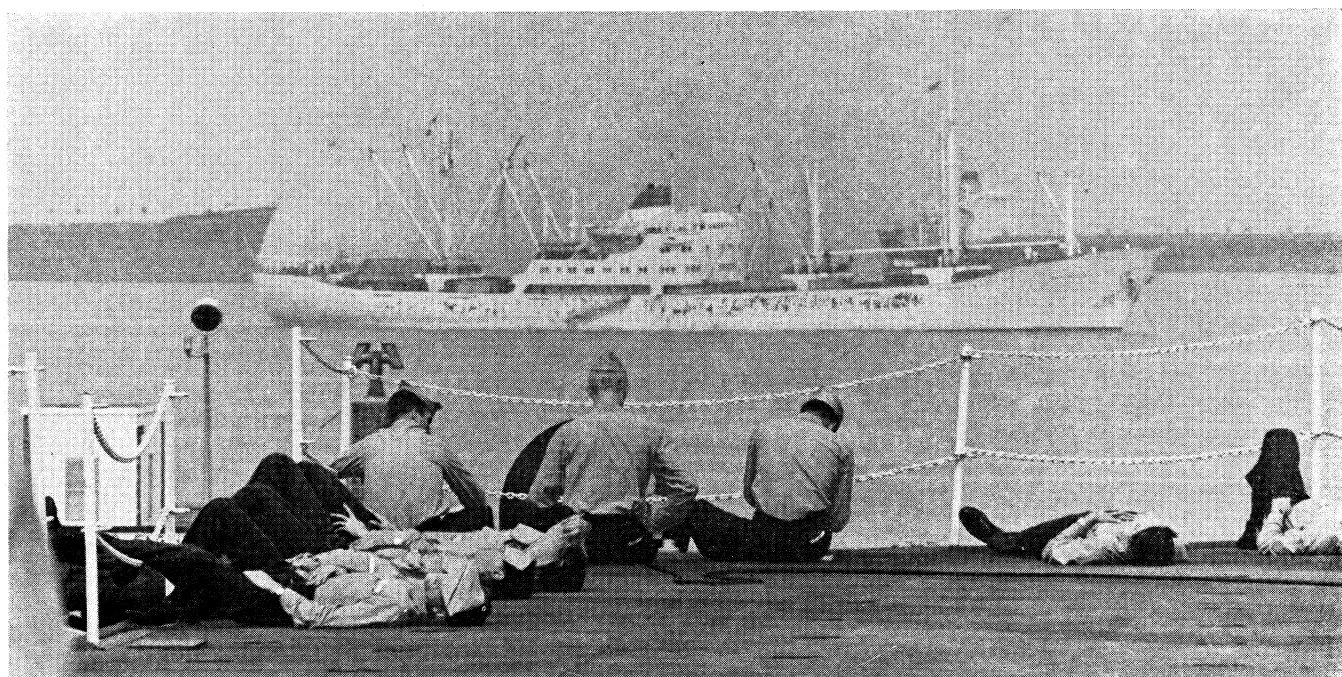


WITH THE WORKING DAY
OVER LIBERTY UNIFORMS
ARE DONNED.



TIMES LIKE THIS MAKE
CRUISE JUST ABOUT BEARABLE.

AND THE END OF CRUISE IS IN SIGHT . . .



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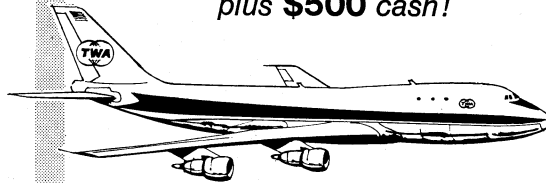
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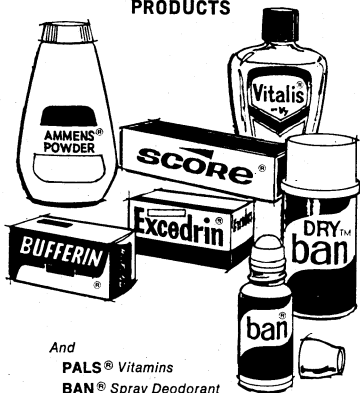
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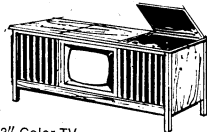
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- Enter as often as you wish but mail each entry

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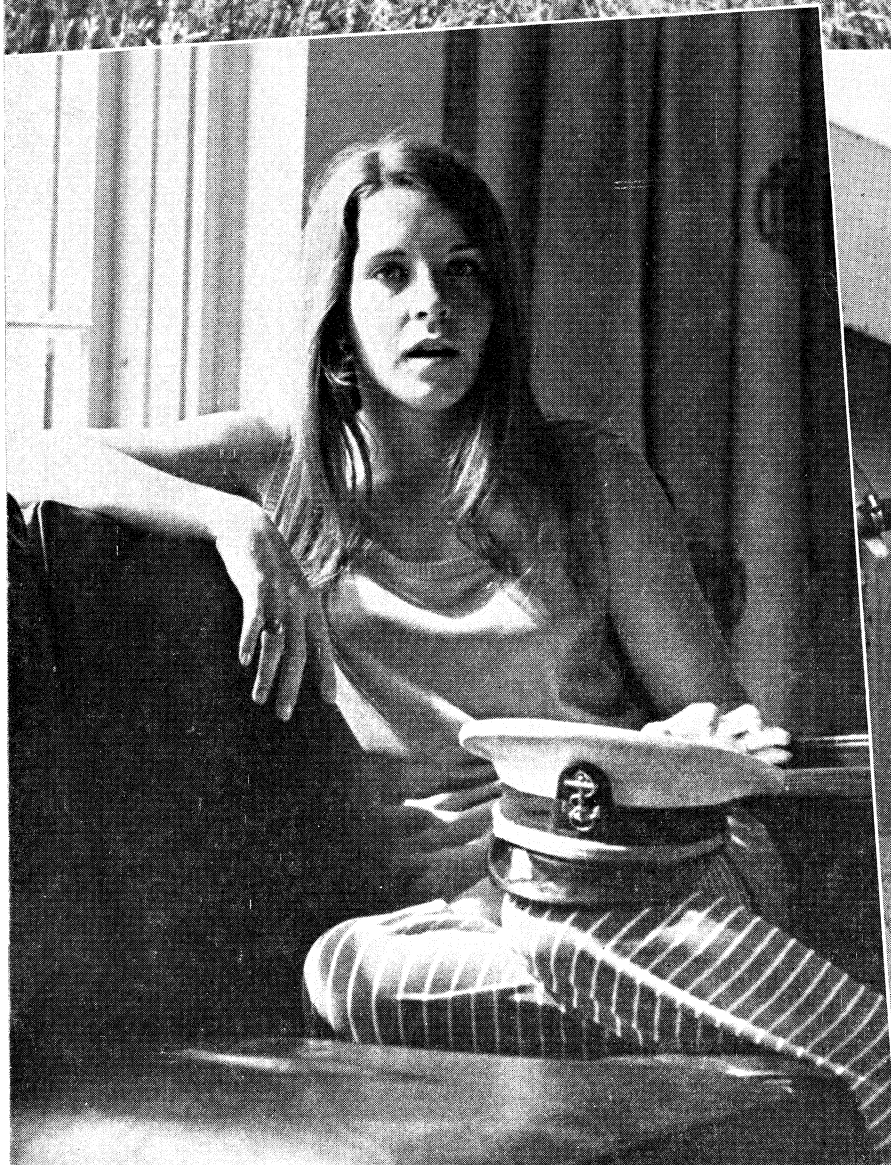
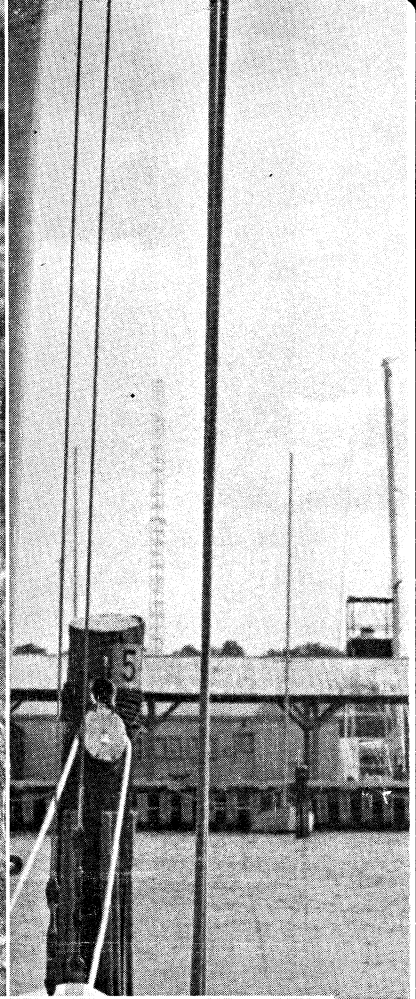
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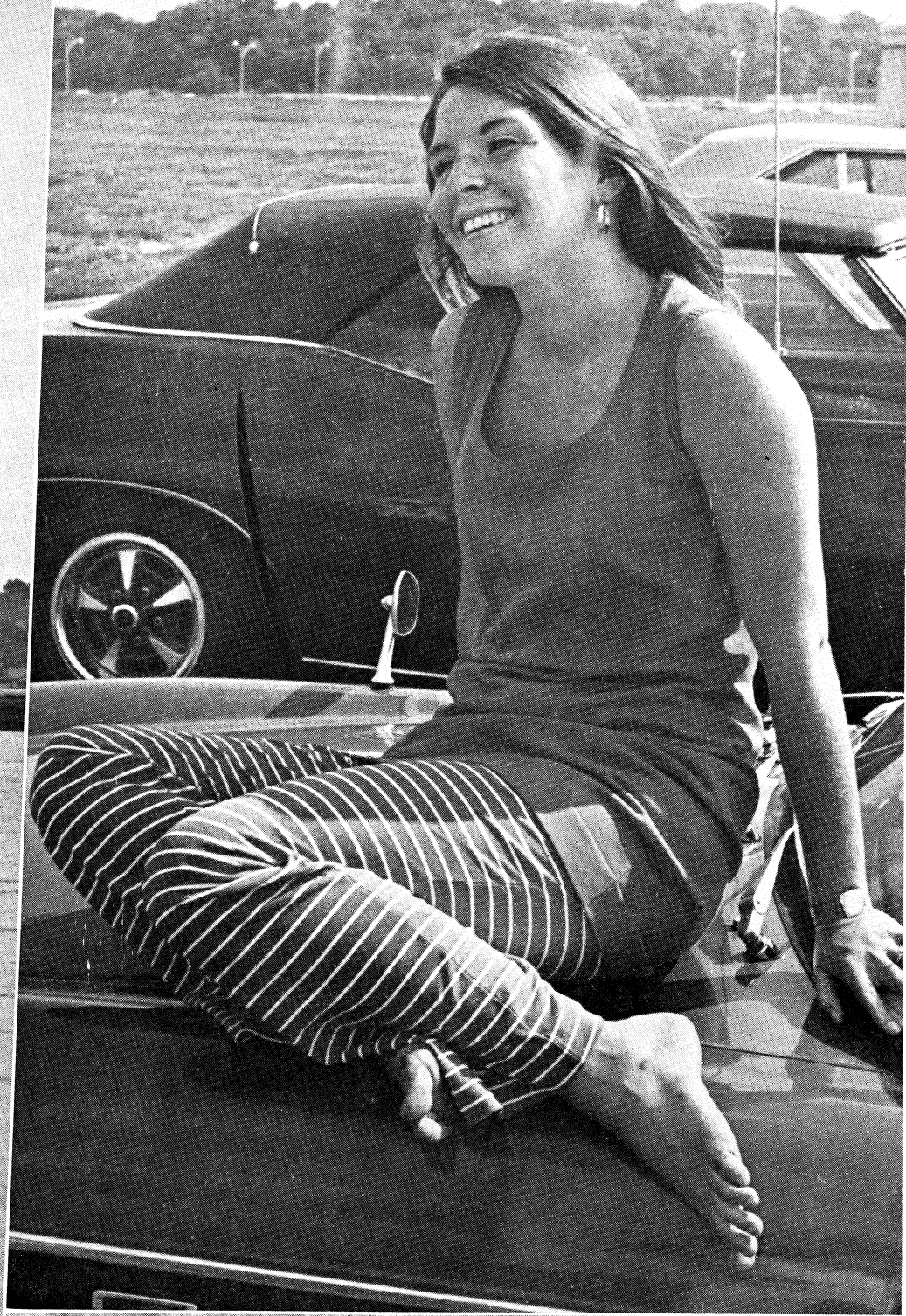
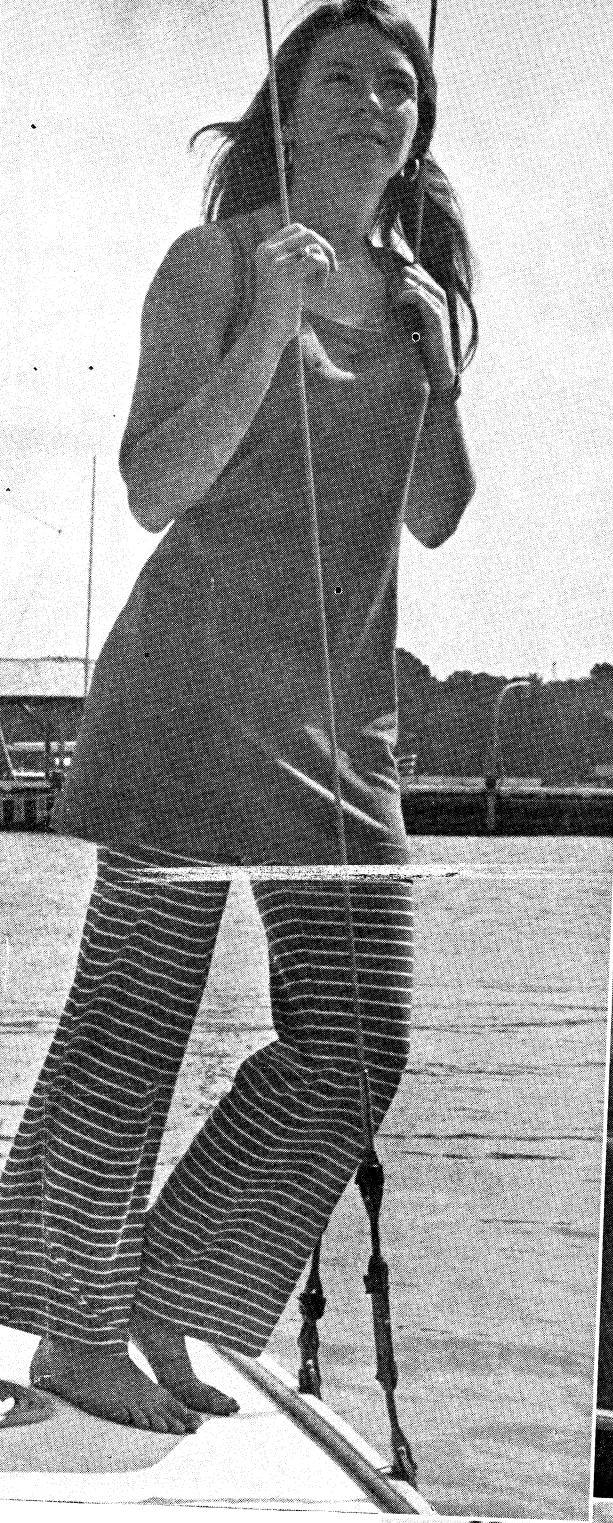
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ely Miss Jeannie Carroll
ces the pages of the Log
e again. This 22 year old
ech therapist is a graduate
Ohio State and is engaged
a lucky firstie in Ninth Co.
plans a June wedding in
hometown of Youngstown,
to, and a long future in the
ation world. Best wishes
nnie.







Hello fellow salts, and welcome back to another year and another rendition of Salty Sam. A special hello goes out to all my classmates, and say, how does it feel to know that you've only got a little over 200 odd days left. In other words "we're gettin' short"!!

So much has happened over the summer and even during the first part of this year. It seems that good old '71 is getting caught in the middle again. Some good deals have crept up in our favor, and granted we have seen tradition roll in and roll out. Right before our eyes we saw a disciplined, hard and at times unrealistic Plebe Year, exit, and saw a new easier, undisciplined and at times unrealistic Plebe Year enter. At the same time we get sandwiched into the VET strike, and people who were thinking about flying for four years, suddenly are faced with the decision as to whether or not they want to spend some time driving boats and soaking up on the Navy Line good deal. (hey... I wonder if they'll give the fly boys 60 days leave too!) I know a lot of buddies that were thinking about the aviation program, and they are some mad Hombres.

Well, getting back to Mother B (Bancroft Hill) . . . special welcome goes out to all the new jarrens this year in the Office of the Comdt. Of course, they have already heard from me, but I thought they'd like to see their name in print. We've got quite an array of the men in green this year; over in the 1st wing we've got Maj Pantyman, or is that Braman and Major Weezel our new exchange officer from Woo Poo land. The 4th Batt

has been blessed with Major Major (hey Major Major hows your major!) to take over for the Jolly Green Giant, who has blessed this magazine with many a dimwit tail. In the 2nd Batt, we've got Capt. Ski, and Major Sweetface, another Jolly Green Giant. Rounded off by the 3rd Batt's Capt. Draught and the 6th Batt's Capt. Hamburger. All I got to say is, Marines Beware!!

Well, I understand that many of you had an interesting and salty summer. I sure wish you'd share it with me, but I know a lot of you keep forgetting. Please don't forget me down in the steerage . . . I did receive quite an interesting letter from the old Salt himself, the Legend!! Yes, Chris Glutting, an old friend of mine and Salty Sam 1968, dropped me a line or two from Mass. It seems that he is leaving for Viet Nam, and wanted to let me on a few trade secrets. By the way Chris, I kind of like the name Harris Bradberry. Thanks a million for all the good gouge, and keep me posted old buddy!! I also got a short note from a former member of this Log staff, and he very happily states that he has graduated and is a better man for it. He tells me that happiness is "seeing Annapolis in your rear view mirror after graduation"!!

I guess the most obvious place to begin would be with the new chargers that are running down the middle of the halls these days. It seems that they have provided me with the proper beginning with their Plebe Summer. One of the highlights of Plebe Summer is the Parents' Weekend Color P-Rade . . . but this year's had to be an excep-

tion. Not only did the cannon crew forget to shoot off enough salutes for the new Vice Admiral, but about a dozen plebes thought they would go to their knees before Ruffles and Fluorishes and sit this one out. Well, as soon as all the shooting and saluting was over, they decided to come aboard, much to the discontent of Capt. Ziimms and the Admiral's staff. Another pretty good little story concerns the third set Reg. Cdr. during the summer. I guess his girl came down from a pretty far place, and not ever seeing a P-Rade before, decided on sitting in the crowd one sunny Wed. afternoon. Well, as luck would have it, as the Reg. staff marched onto the field (you have to understand that the Reg. Cdr. is about 5-1 and is a squatty body), a little old lady sitting in front of the Cdr.'s girl turns around and says to her ::Oh, look!! they're letting a little boy march with them today!!" How about the Plebe who sent the Editor of the Log, a letter (with a stamp, postmark and the whole works on it) to him with 5.00 dollars in it as payment for this year's Log. And then there was the Plebe who was told to fill out a chit on himself for not having a hat on in the hall, and yep, gave his squad leader a special request chit indicating that he wanted to wear a hat out in the hall!!!!

How about that dog Dodo!! Yep, he's still around and it looks like he WILL graduate with '71 as was predicted 4 years ago!! I understand that during the summer he frequently led the Plebe Class into SALTY *con't pg.* (23)

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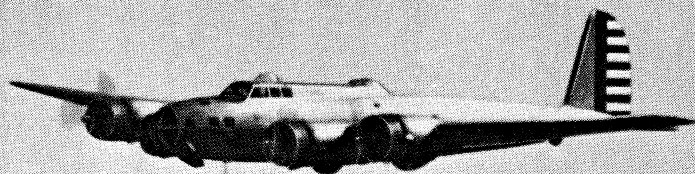
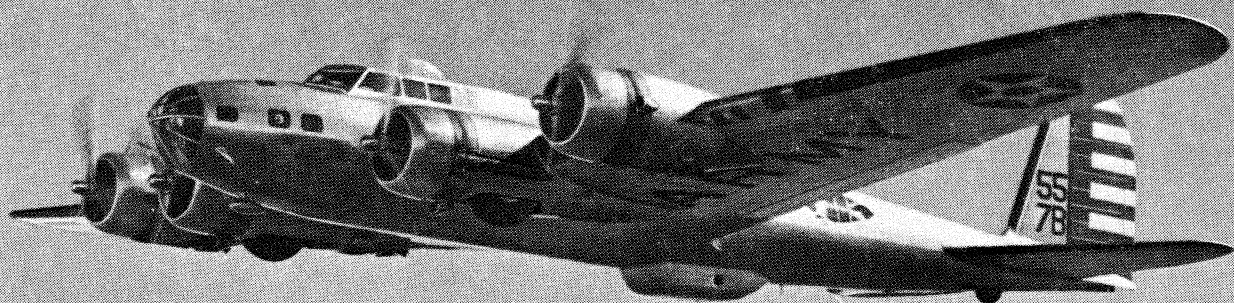
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ON THE ROAD

By Mike Trant

In past years, when one mentioned second class summer, thoughts of Little Creek immediately crept into mind. Little Creek—home of the Marines, mud, obstacle courses, and site of one week of unsavory living for the Midshipman whose service selection would not include a clean-shaven head. However, there were also thoughts of the plebe detail back at the Academy, "showing them how it was when we were plebes."

This year, due to some administrative shuffling, both Little Creek and the plebe detail were removed from the summer curriculum of the second class. Three weeks of speech and tactics classes, including a five-day luxury cruise to Norfolk on a YP, was coupled with a week of submarine training at the Academy, and a four-week road trip to Quantico, Virginia; Pensacola, Florida; and Newport, Rhode Island.

The submarine training turned out to be interesting and instructive, including a visit from Admiral Oliver H. Perry and his staff from the submarine school at New London, Connecticut, who brought with them two nuclear subs as well as two diesel-powered submarines. After four days of submarine indoctrination, there were quite a few more minds considering a career in the field of nuclear power.

A somewhat unglamorous look at the Marine Corps was given to the Mids as they arrived at Quanti-

co in anticipation of an helicopter assault on an "enemy" position, a weapons and demolition demonstration, and a chance to "excel" on the obstacle course. Riding in cattle cars, marching to nowhere and back, and eating field rations got old fairly quickly; but not so quickly as the coincidence of a certain Marine Captain from the Academy showing up in khakis instead of fatigues on the same day scheduled for the obstacle course run. Not very sporting, Sir.

Instruments check, flaps up, manifold pressure checks, throttle back—liftoff! In spite of the normal cases of "air uneasiness," flight training was the best received of the programs this summer. For most, it provided the first look at flying from the front seat of an airplane cockpit. Touch-and-go landings and acrobatics at 10,000 feet proved quite exciting, as did evening rallies at the BOQ, high-altitude simulation tests, and stories of the "Ghetto's" assault on Pensacola.

But partying gave way to flying, as six o'clock came mighty early, and everyone quickly got caught up in the program which, except for some unpleasant flying weather, was a big success. Navy Air proved why it is the best.

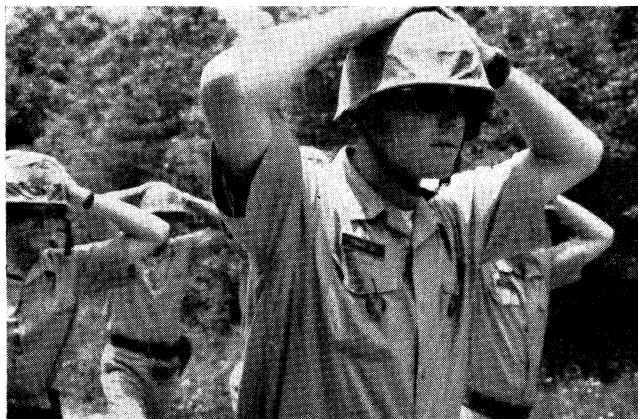
Newport and the Destroyer School brought the Mids back to the sea. The facilities were more than adequate, but a day on a destroyer cannot compare to the warm Florida sun. Surface line put



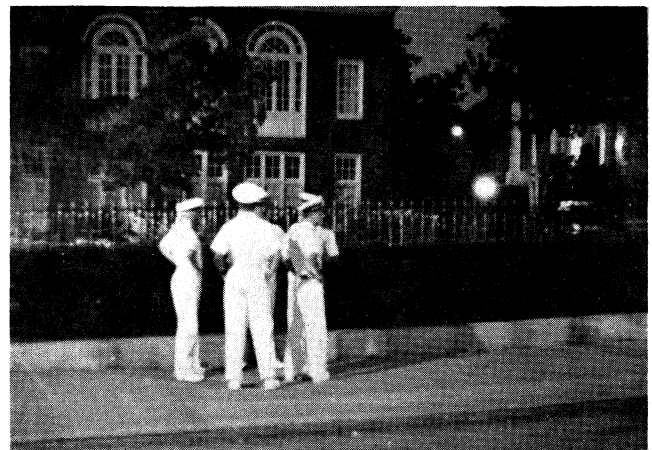
Tom Jones in hard hat, dirty dung, and camouflage stick.

its best foot forward, showing the future of the Navy as far as the Soviet threat and the Navy's potential seapower is concerned. The realistic approach to naval warfare, in the form of the battle simulators and advanced technological lectures, made one realize that there is very definitely a future in the Navy for one who is not nuclear- or flight-inclined.

The summer on the road turned to be enlightening as well as educational, though a might lengthy. The objectives of the program were realized, as the Mids received a more realistic view of the Navy into which they will soon enter; and though there are still a few who are undecided as far as service selection is concerned, most of the



Prisoners of 2/c summer march to another (and another) lecture.



Actramid fun: Saturday night on the circle.

SALTY SAM *con't from (19)*

the mess hall at noon meal formations!!

I didn't hear too much about the Plebe Med cruises or the Natrons, except that old lumpy was in fine shape as always. I did hear that all the people of Natrons I and II really enjoyed themselves!! As a matter of fact a lot of them might just want to go on that cruise again (real soon, like next summer!!). I did hear that Natron II had quite a time over there in Dane-mark. There's quite a story going around about a beautiful sight that was seen in the market area in Copenhagen. How about it Yeaks, did you take enough pictures? Then there was a certain said Doctor aboard the USS Spegal Groves, who found that he was incapable of performing his duties in the great land of Dane-mark, since the operation he received was one of those once in a lifetime routines . . . I did get a short note from some nut in '72 who calls himself the "dwarf." I think his mind is dwarf, but anyway he says that there are two former classmates from '70 that are now in '72, and that one wanted to come back so he could get a set of new scivs. Boy, that takes the cake, huh?? It seems like Lcdr. Beads, who just missed getting Rookie of the Year last year, is after the sophomore award. He totaled well over 2000 demerits this summer here with the second class. Good job, highly to be commended.

I ran into a good one over the summer, returning here from leave. I was in the mid store buying some materials, and was in a shirt and tie, minding my own business, when a Pledge walked up, and said, pardon me but could you help me, I'm looking for the combs. I walked him over to the combs and he said thanks a lot, and I told him that I would be of any assistance to him always when he came down to the mid store. Needless to say, when I walked by him in the company the first day, he about fell over. Later on that day, I was smartly saluted by a scared second class when he saw me whiz by in my khaki attire. One final

thought . . . congrats goes out to the two new Admirals that are among us now, but how about Brig. Cdr., raise that to Brigade Adm?? Just a thought, although I don't think you can get another stripe up there could you Hec!! Be good all you salts, and please flood my box in the steerage with info!! One hint to my identity: The Cmdt and his office are still trying to catch me . . . and I don't live on the 0 decks . . . BEAT PITT!!!!!!"!!

ON THE ROAD

con't from pg. (22)

second class have found a branch of the Navy which appeals to them.

SIDE TRIPS. An article appearing in the Henryetta (Okla.) Daily Free-Lance of August 18 read as follows: "Mr. and Mrs. Bay Miller, 812 West Merrick, Henryetta, had as Thursday dinner guest Cadet Mike Trant of Annapolis." Despite a few clerical errors, this incident marked the halfway point in my crosscountry sojourn which started as a result of a wrong turn on the Baltimore-Washington Parkway. Equipped with a used VW and a gasoline credit card, I managed to "Visit America," stopping occasionally for a swim in Lake Huron, a Mississippi riverboat ride, and tours of the Painted Desert and the Grand Canyon. The trip proved to be quite an educational experience, as I learned that there are five quarts to the gallon in Canada, that the St. Louis Arch belongs to a disc jockey in Michigan as a result of a World Series wager, that Shawnee, Oklahoma is the hometown of Jim Thorpe and astronaut Gordon Cooper, and that Death Valley is ten hours and one clogged gasline wide. I also learned that if one is considering touring the United States alone in an automobile, don't!

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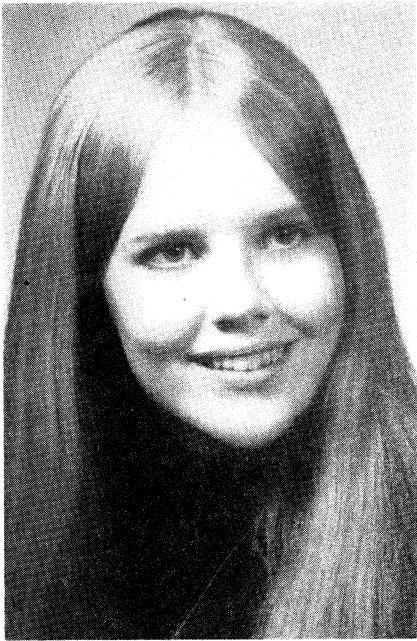
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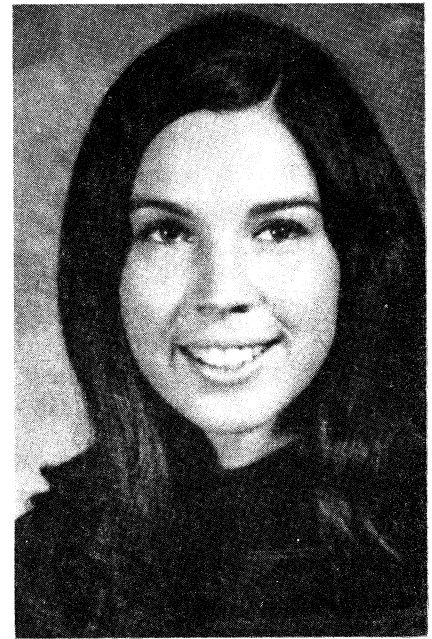
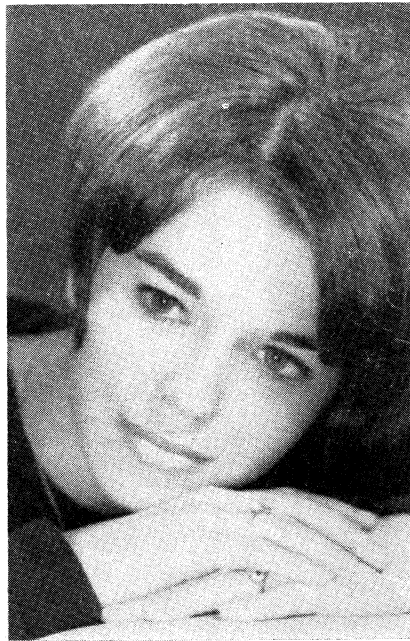
Stocks—New Issues—

Funds—Insurance



Susan Curran, a pinmate of a lucky firstie, lives in Verona, N.J. and attends Catherine Gibbs Secretarial School.

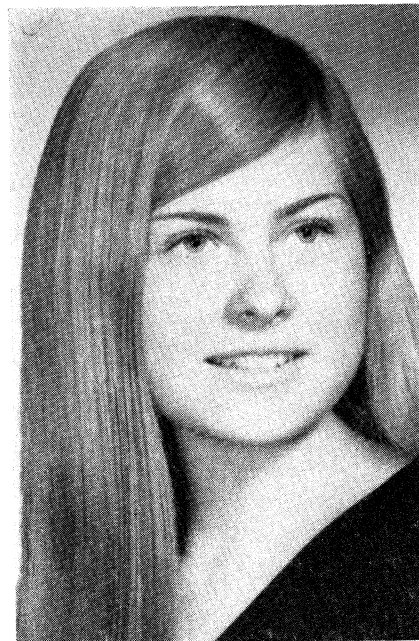
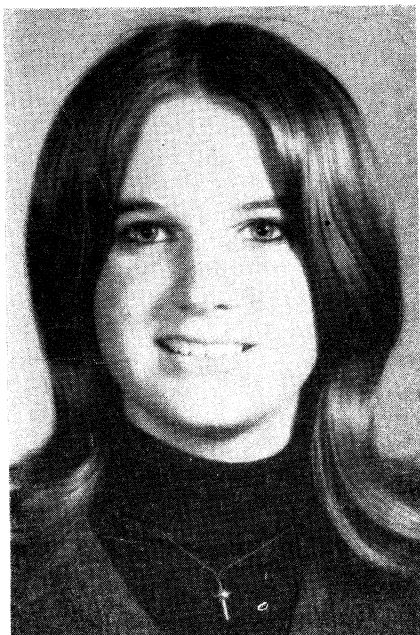
Robyn Shelby, attending Ohio University, is 19 and will soon be an airline stewardess, from Columbus, Ohio.



Irene Bruning, hails from Sterling, Va.

1st Company

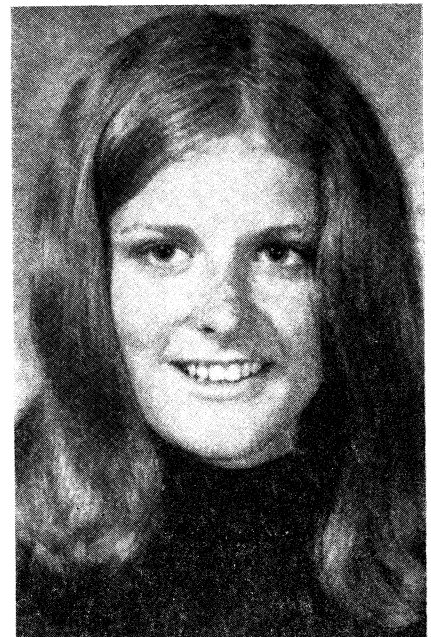
Audrie Van Etten, attends Corning Comm. College in home town.

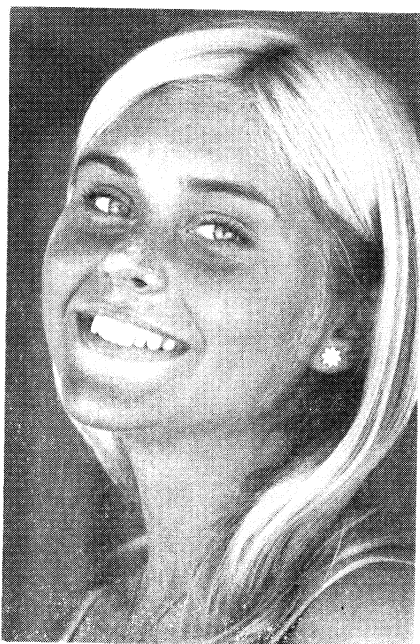


Debbi Dempsey, 19, from Flemington, N. J. attends St. Norbert College, West De Pere, Wisc.

Cuties

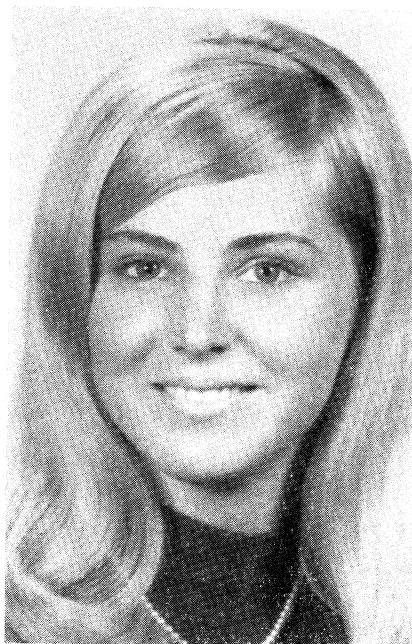
Jill Fout, 18, of Pensacola, Fla., dates A 2/c.



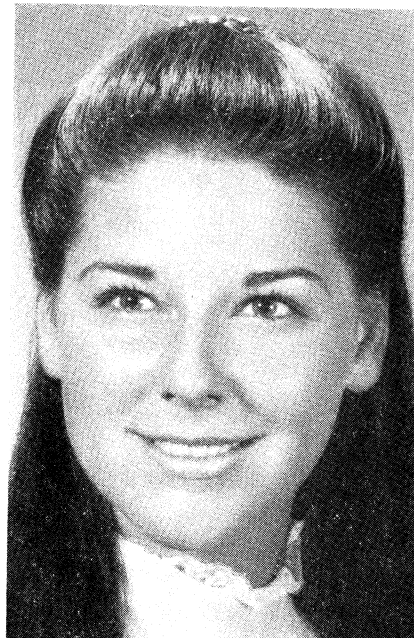


Hailing from Palmyra, N. J., Heidi Proeder, is now attending Springfield College, Springfield, Mass.

Rebecca Ann Daniels attends Haverford High School in Havertown, Pa. Pinned to a 3/c.

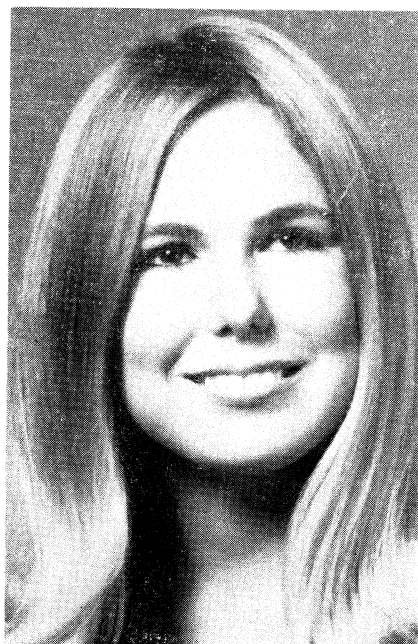
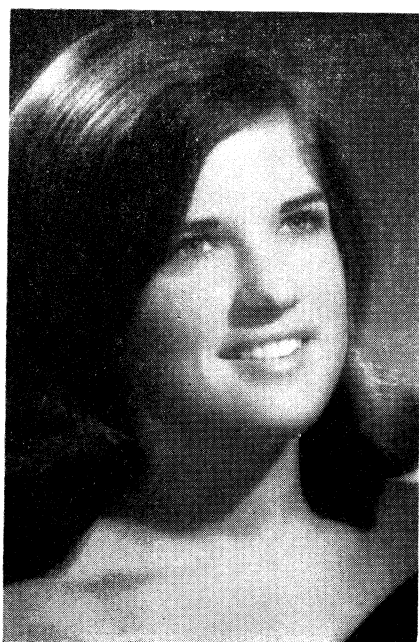


Linda Fouche, is a secretary at A.T.&T. in Washington, D.C.

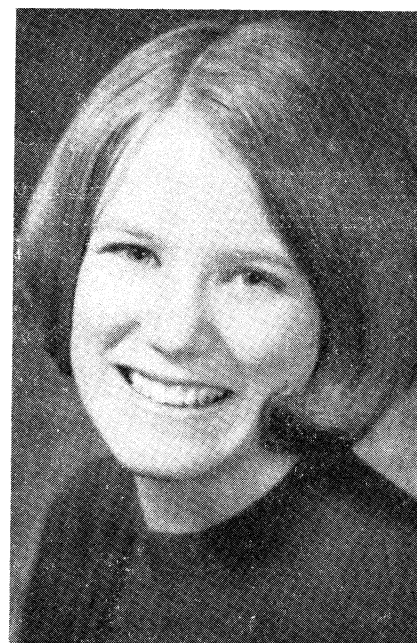


2nd Company Cuties

A junior at U. of Missouri, Anne Losse is from St. Louis, Missouri.



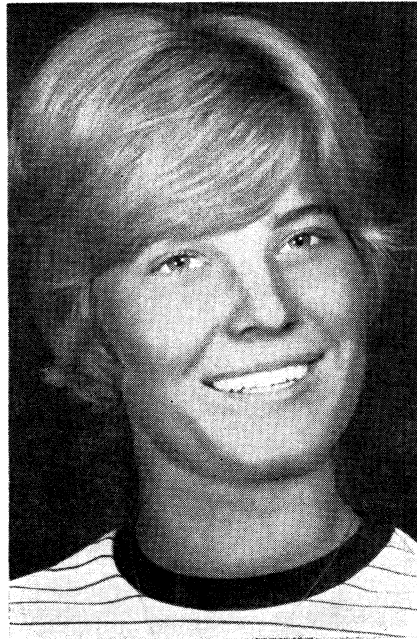
Lucy Harper, of Montgomery, Ala., attends Straford College.



From Tacoma, Wash., Marcin Blum goes to U. of Washington.



Jane Beckman, of Morgantown, West Virginia, is a senior at U. of W. Va., pinned to a 2/c.



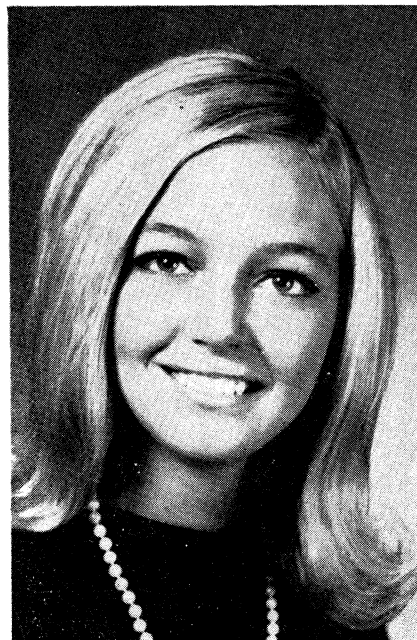
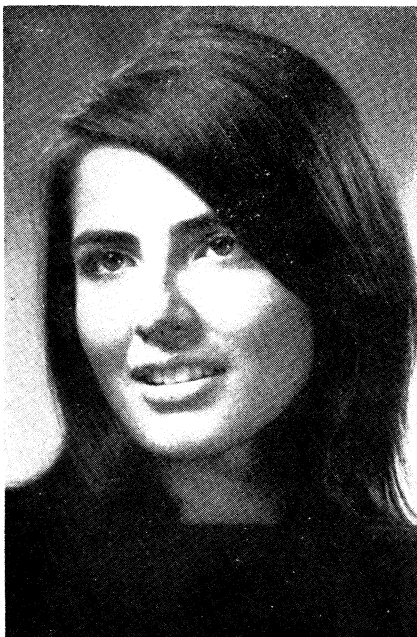
Working in Luce Hall, Linda Ludlow from La Marque, Texas, is engaged to a 1/c.



Sylvia Luongo, working at Sign O' the Whale is 19 and pinned to a 2/c.

3rd Company

Pinned to a 1/c, Judy Palermo, from Boston, Mass. an Eastern Airline stewardess.



Cib Barnstable dates a 3/c. 19 years old a cheerleader at U. of Kentucky and a member of $\pi \phi$ Sorority. Has a twin sister.

Cuties

Aspiring to be a kindergarden teacher, Betsy Jones, is engaged to a 1/c and attends U. of Delaware.



THE TOP ECHELON

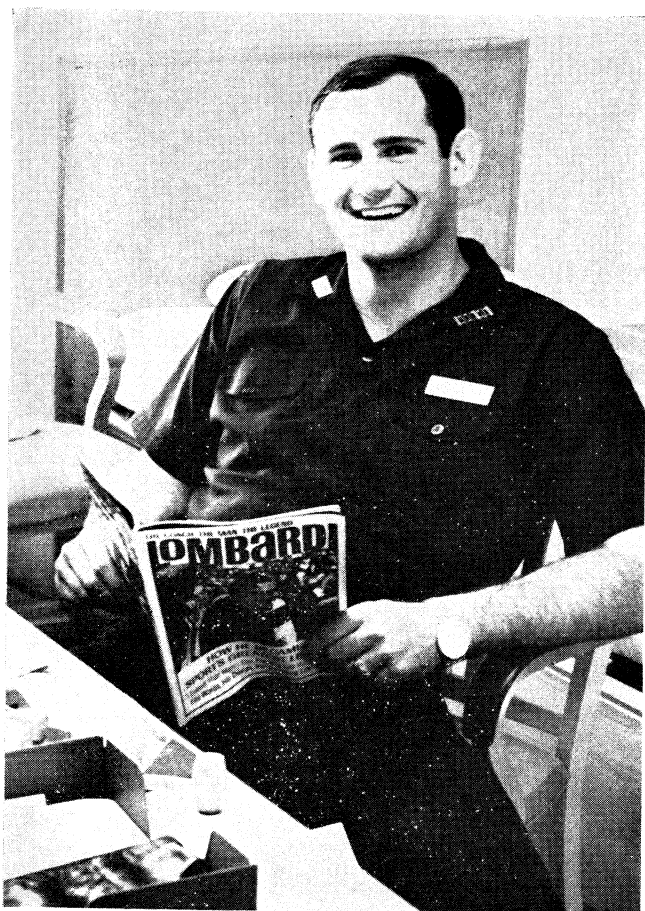
By Jay Wertz

In the command organization which is responsible for both administration of the Brigade and leadership training the midshipman officers who wear the most stripes do the most work. I discovered this in talking to each of the high ranking Brigade officers.

I set out, a little scared, to find out as much as I could about M/Captain Hecomovich, M/Commander Morris, M/Commander DeVos and M/Commander Johns. I found them to be quite friendly and glad to answer questions. They all showed great interest in what they are doing and like to talk about it, as well as many other things that are interesting to the whole Brigade.

Brigade Commander

M/Captain Michael Hecomovich considers himself a pragmatic philosopher. He has positive ideas on almost everything. Although he is from Denver, Colorado and an Air Force background he had no desire to become a zoomie. "I wanted to be an aviator and as far as I'm concerned the Navy has the best aviation," he told me.



I was curious about the factors which helped him receive command of the Brigade. "The purpose of this school is to produce professional people, and you just have to be dedicated to what the school stands for and know what to do." But he didn't set down becoming Brigade commander as one of his goals. He just performed as he thought a junior officer should and received the command. "Just do your own thing," he added.

Although much of the work of being Brigade commander is time consuming and with studying added in there is little free time left. Mr. Hecomovich enjoys reading. He is a political science major and his bookshelf contains many volumes on this subject as well as others. Another of his likes, one that we can all appreciate, is beautiful women.

Mr. Hecomovich recalled some of the factors he thought helped him in success at the Academy. "Have confidence, in yourself." He avoided worrying, about trivial things. Working closely with his classmates was also a great help.

He projected a very sound message for the brigade as a whole—to think like young officers. "You're not just a student, you're a midshipman, dedicated to a purpose, and that purpose is to lead. That's the greatest thing about the Academy, the chance to lead."

My final question was about Navy football. "I'd like to see Navy wallop everyone. We've been humiliated for two seasons and now it's time for us to stand up and beat them all; then when Army comes there will be no question about who the winner will be."

Brigade Sub-Commander

M/Commander Ernest Morris likes to take his surfboard to the waves as a means of relaxing. Growing up in Virginia Beach, Virginia gave him ample opportunity to do this, and he still surfs there. His father is in the Naval Reserve serving as Director of Naval Regional Finance in Norfolk.

Commander Morris cited his idea on the way he or anybody else could easily make it through the Academy. "It's a matter of individuals setting certain goals and not trying to skate through the Academy. You can volunteer yourself to constructive purposes, because the Academy constantly needs improving." He expressed the idea of positive attitude and working to improve, and using criticism only to find out what is wrong.

His background has given him great background for the position of Brigade sub-commander. His plebe year he learned about other people and himself too. His plebe year he learned about other people and him-



self too. Both last summer and the summer of '69 he was fourth class regimental commander. He observed in the Class of '74 a better type of individual. All in all the class has extreme potential and a lot of talent, according to Mr. Morris. He also has seen the advantage of the more professional plebe indoctrination system which the Class of '74 performed well under. "It gives the individual plebe a chance to sit back and look at himself. It's a more positive approach to leadership. "I enjoyed the second summer more, too."

Mr. Morris, in addition to surfing, likes all kinds of sports. He plays football or soccer whenever he gets a chance. Cars are another of his favorite interests. He is an oceanography major and is considering aviation or nuclear power as a service selection. Aviation is favored and flying is already one of his hobbies.

As far as football is concerned, Mr. Morris would like to see a winning season with Air Force and Notre Dame as teams he would like to see Navy blow out of the stadium.

Second Regimental Commander

M/Commander Joseph Johns, the second regimental commander, is from Birchwood Lakes, Medford, New Jersey. He holds the distinction of being tenth in the class of '71. A systems engineering major, nuclear subs are his service plans.

I asked Mr. Johns what his daily duties include. Meetings with battalion officers are a daily evolution he conducts. He also meets with different officers dur-

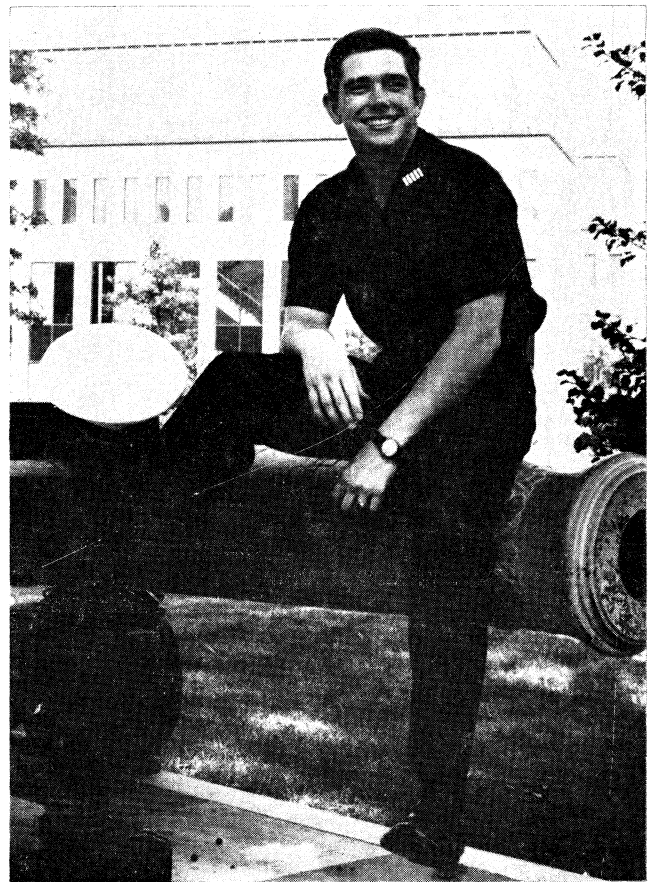
ing the day. If he has time, he fixes many electronic gadgets which his classmates bring to him to repair.

Mr. Johns attributes his success thus far to the goals he has set and training he has received. "Being on top is part of being a junior officer. The Naval Academy is a college and institution of military training as well. I haven't been shy to grasp the leadership training."

Up until this year Mr. Johns was a varsity wrestler but he chose to accept the position of regimental commander instead. He was a midshipman in charge of youngster cruise during the summer. This position was quite helpful to him, especially in preparing for his present position.

As far as changes around here are concerned he stated, "I'd like to see an attitude change around here. More guys should admit the fact why they're here and shouldn't knock the Academy. There should be more acceptance of positive leadership."

On the new plebe system, Mr. Johns saw it as a



far step towards professionalism, but also warned that its success lies in the upper class taking on the responsibility of carrying it out. However he dislikes the lack of class unity inherent in it.

As for football, Mr. Johns enjoys seeing a good game, played as well as the players can. "I'm just glad to see a good, good job."

First Regimental Commander

M/Commander Peter DeVos is a center-fielder on the Navy baseball team. Being first regimental commander is a big job and with baseball Mr. DeVos has

little time of his own. As regimental commander he is responsible for coordinating evolutions for the three battalions in his command.

Mr. DeVos is from Wilmett, Illinois. He is majoring in mechanical engineering and would like to enter the nuclear power program upon graduation. One thing he has noticed this year is the greater responsibility in the hands of the first class. "They're letting us run the show instead of the officers and we experience responsibility. I'm very well pleased with the attitude and the performance of the first class.

I asked him what factors were in his goals for succeeding at the Academy. "It's a lot of hard work. You have to do a good job academically and in military aptitude." He thinks in ten to fifteen years when the class of '74 becomes officers that the merits of the new plebe system will be realized.

As for football, Mr. DeVos has no particular teams he would like to see Navy wallop. "In the next few years we'll see Navy football come back to the top." In another sport, baseball, he sees a good season for the Navy team that almost took the eastern championship last year, and has that team's pitching staff and seven starters returning.



YEAR IN PERSPECTIVE

Regardless of Colgate which inspired great hopes in Bancroft Hall, our thudding defeat by Penn State and the disappointment of Boston College, tend to indicate that whichever sportswriter placed Navy in the top 20 was reminiscing of better times. Improvements have occurred in the team over last year. However, these are liable to become invisible in the light of our opposition. Unlike last year, Blue's salvation could possibly come with Army.

Washington, like Navy, comes off a one and nine season. Unlike Navy, the Huskies already have a chance to win at least two games, and probably a great deal more. In the second game of their season Washington creamed an always impressive, at least in name, Michigan State 42-16. Despite the fact that, unlike many of Navy's opponents, Washington has no national ranking, it appears unlikely that optimism will pervade as the Blue travels west.

Homecoming presents Pittsburgh. With thirty returning lettermen, including 13 starters, Pitt is loaded with big, fast running backs and a veteran defensive unit. Fullback Tony Esposito highlights the backfield. At 6'1", 230 pounds, Esposito gained 743 yards last season, the most for a Panther since 1952. On defense, Pitt has placed great hopes in All-American candidate Ralph Cindrich at linebacker and defensive tackle Lloyd Weston. The quarterbacking job appears to be dangling between Dave Havern and John Hogan. While Havern appears to be the better runner, Hogan has the edge in passing. The offensive line is Pitt's weakest area with most of its interior inexperienced. In any case the Pitt defense is well established.

With Air Force ranked 10th, the real test of Navy's might will occur in D.C. after the game. By far the stronger team, the Zoomies will feature 25 returning lettermen, and flanker Ernie Jennings. The fastest man to every play for Air Force with a 9.6 hundred yard dash, Jennings will undoubtedly be quarterback Bob Parker's favorite target. Defensively, Air Force will be solid with most of the line and backfield returning. An added attraction could be the punting of Scott Hamm, who has over a 43 yard average. Probably Navy's own Tommy Moore will see the most action in a punting capacity. Overall, Air Force could be tough.

Syracuse has its troubles offensively with six openings in the line alone. The only lineman left is a good one: All-East end, Tony Gabriel. Defensively, four veteran linebackers have departed. Syracuse, however, is overflowing with quarterbacks in Randy Zur and Paul Paolisso. Other names to listen for are defensive backs Tom Meyers and Gary Bletsch who should turn in fine performances for their team.

Navy, for some reason, has seen fit to schedule disaster closer to home this year by confronting Notre Dame in Philadelphia rather than South Bend. The

Irish again loom ominously, labeled the "dark horse" in the nation ranked only fourth. Offensively, All-American guard Larry DiNardo assures heavy reliance on the left side of their line. In the tradition of the Irish's great quarterback-receiver combinations, Parseghian has again come up with an outstanding duo: Theismann to Gatewood. In the fact of Notre Dame's dominant power, the Big Blue's game plan should hinge open minimizing injuries.

Based upon an in depth study of the numeral 15, which happens to be Georgia Tech's national standing in the September 30th *Washington Post*, I can say we'll have trouble with the Yellow Jackets. Supplied with reams of information on Georgia Tech, namely the said *Washington Post* numeral and the 1970 *Navy Football Handbook*, it's relatively easy to pick Georgia Tech standouts. All-American candidate Perdoni should anchor an exceptionally tough defense. Helping him will be 241 pound Brad Bourne at defensive end. Halfback Brent Cunningham and fullback Steve Hawkey should provide experience in the offense. Other vital statistics are that the game's played on November 7th and it's away. But ask any plebe, he'll know, that—maybe.

If Villanova's team is anything like its press releases, we've got a good shot at winning at least two. Offensively, the Wildcats must find replacements for grads, at least among its runners. In the backfield, however, they have a record-breaker in Mike Siani. What record Villanova doesn't say, although it would be presumably in catching passes since he's a flanker. The job of signal caller has apparently fallen upon Daryl Woodring. Last year's alternate quarterback, Joe Belasco, has filled in the holes by switching to halfback, and could be the team's leading rusher. Defense should be the strong point of Villanova's team, high-lighted by All-East linebacker John Bobinecz.

Analyzing Army-Navy is like stirring a can of worms. No matter how you arrange the contents the result always appears the same! More goes into the victory than just the quality of the players. Arranging the worms none the less, Lynn Moore, Army's primary weapon last year, has left. Underestimating Ray Ritacco's ability at fullback, however, could be a mistake; I seem to remember his name from last year. Joe Albano at split end is going to be a threat, although it's possible he might not have anyone to throw the ball to him—Army seems to be soft-peddling their quarterback Dick Atha. Defensively, All-American candidate Bob Coonan headlines the list of linebackers. Labeled as class of 1972 and playing in his final year of eligibility, I wonder if he might be a little deficient. In any case, Army's secondary is labeled, by themselves, as "more than adequate." A possible standout with Navy as an opponent is Randy

Stein. He has a tendency to intercept poorly thrown passes. Another offensive weapon is kicker Arden Jensen, who supposedly is good anywhere our side of the 50 yard line. Overall, our second trip to Philadelphia should be even more enjoyable and exciting than last year, at least for me. I was on watch.

This year, as was so aptly put on the 21st Co graffiti board, the new look in Navy football might well be 1-10. We play good teams that might hurt us with injuries, both physical and mental. And we play not so good teams that we might beat. In any case, our mention in the national ranking was premature. This year premature, at least not ludicrous!

BONDS '73

A Man Behind The Scenes — JV Coach Connelly

Some may wonder why a JV coach would ever receive mention in the Log. No doubt all of you are disappointed with this. The foundation is being built. Loyalty and dedication are needed to bring Navy from the doldrums. Nothing worthwhile is ever accomplished without enthusiasm. The football system at Navy is growing and getting better. No one can will a good football team. It depends on every facet. This is why I feel the brigade should have a glimpse at what is behind Navy football. Keep the faith, baby!

For those who have been at a Navy football practice, you can not help but notice the fiery sparkplug coaching the offensive J V's. Although sporting many nicknames, dubbed to him by the JV offense, his real name is Jack Connelly. Under him the rule for the day is always hustle and aggressive play.

The effect is really noticeable especially to anyone who has observed JV's over the past few years. These JV's look to knock somebody's block off. The varsity defense finds that they get more than a "good picture" at times.

Through football the Naval Academy first became interested in Coach Connelly. After sending him to Bullis Prep for a year he was accepted. At 5'9", 195 pounds he had to really push to move up to first string.

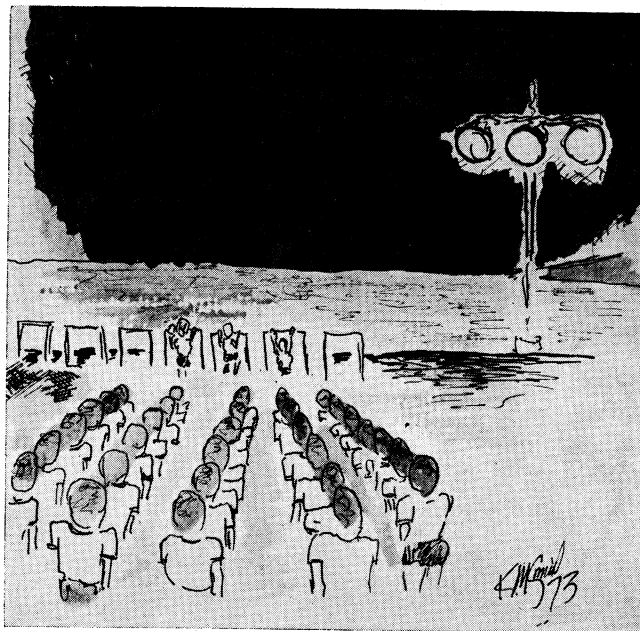
All through the out of season Coach Connelly pushed weights to where he bulked at 205 pounds. Coach Connelly went on to start two years for Navy. Playing with Navy stars such as Johnny Sai, Pat Donnelly and Roger Staubach.

I asked him what he thought made Roger so good. He felt that first of all is his attitude. Staubach truly

loves the game. He also categorized him as a winner. Many people may have better physical endowments but his inner spark to win brings out that extra drive it takes to win. Under all sorts of pressure Staubach always maintained his composure. After listening to Coach Connelly talk of Staubach, I could not help but think how this also applied to him.

On the practice field or just talking with him, his feeling on the game becomes evident. The sacrifice and the work goes to make the man. This is why the Naval Academy through the strain especially the physical strain of sports and PT classes that the Naval Academy is able to produce a grade above its contemporaries. Upon graduation from USNA he went directly to Pensacola. 14 months later he received his wings and chose E-1. He deployed to West Pac routing through Africa then completed circumnavigation by coming back eastward. During this cruise he became a "wetback" which he claims took a month for the black and blue marks from the ceremony to go away.

The biggest question on my mind was why he came back. He said he had heard of last years 1-9 record and wanted to help his former coach (Forzano) actually bring about a new look in Navy football. This feeling is also felt by many in the fleet. There are a lot of navy people who stay up late at night off Viet Nam and other far away places to find out how Navy did that Saturday.



Third class pep sub-battalion.

MID SHIPMEN'S CORNER

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ASLEEP IN THE PRETTY

*There they lay
neath the soft-kept grass,
Watching each day
as it spreads life past.
Dreamers all—
poets none
Sleepers all—
dream as one,
Asleep in the pretty.*

*Awake and knowing
nature surrounds—
Asleep, but seeing
those all around—
Wakers all
to peek at life—
Pretenders all
when life is seen.
Why long for what was had
that's now atop the green?
Why leave when they may
as they are, forever stay ...
Asleep in the pretty.*

*Flowers for pillows,
Grass to keep warm,
Polished marble bedsteads,
Life cannot harm.
Shady knob hill
Surrounded by a city.
Quiet, yes, they are ...
Asleep in the pretty.*

• • •

The following poem was sent by
a proud mother to her son at the
Naval Academy. This poem ex-
presses what she could not say in so
few lines.

THE PRICE

by Leon E. Baker

My son, I think of all the times I've
worried for your sake.
And wondered what the future
held, What kind of man you'd
make.

Just what things I ought to do, to
guide you in the future.
When you would have the world
to face,
Without a guiding tutor.
Decisions I have made and pon-
dered,
In the dark of night.
Then later I have watched and
wondered,
If I were really right.
Sometimes the things I've had to
do,
With leather strap or switch
Was just as hard on me as you,
To make the lesson stick.
But now you are of voting age.
There's a price you'll have to
pay.
For all the years of bringing up.
And your childhood so gay.
This price you will not pay to me,
Although you will atone.
*The one who will collect my debt,
Is the son you call your own.*

Armbruster's
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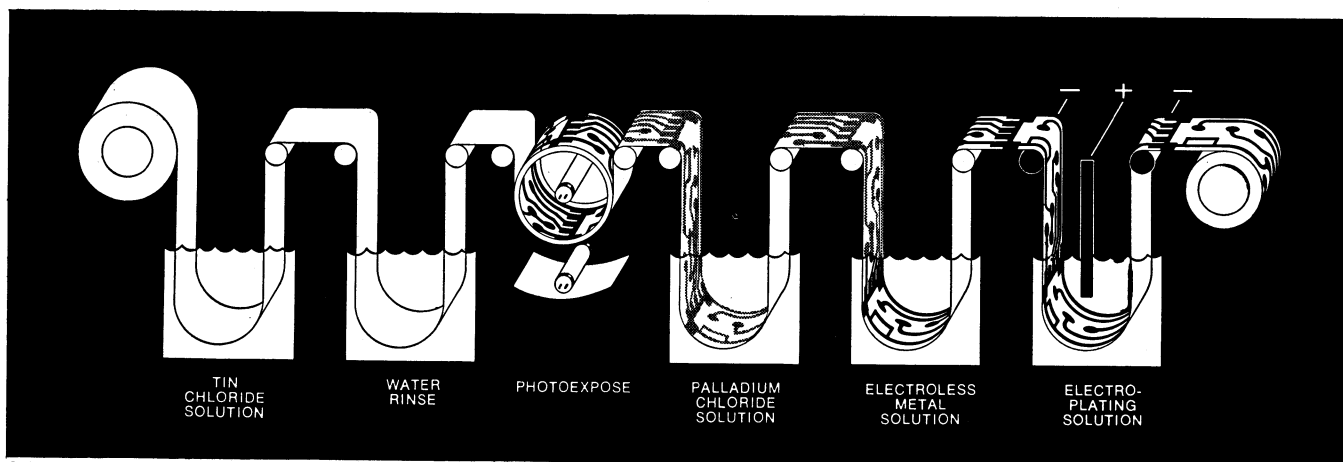
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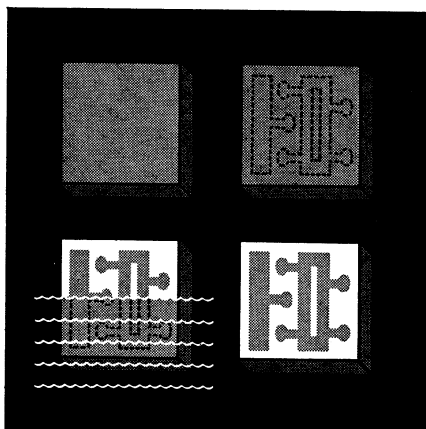


At least this uniform is different.

Solving subtraction problems with addition



Schematic of PSMD with flexible substrate: After dipping in tin chloride solution, substrate is rinsed off, leaving tin oxide coating; exposed to UV light, dipped into palladium chloride solution, electroless metal solution, and electroplated.



Usual method of making circuits requires coating substrate with photo-resist, exposing, eliminating exposed photo-resist, and etching away uncovered copper.

Most people make printed circuits by putting a layer of copper on a substrate and etching away the unwanted part. But engineers at Western Electric's Engineering Research Center in Princeton, N.J., have devised a way to do exactly the opposite: add copper only where it's wanted. "Photo Selective Metal Deposition," now being introduced into Western Electric factories, works this way:

The substrate is coated with tin oxide, then dipped in a palladium chloride solution. Tin oxide reduces the palladium ions to palladium metal, so the surface now has a coating of palladium. If the substrate is dipped in an

electroless copper bath, this palladium causes the copper to plate.

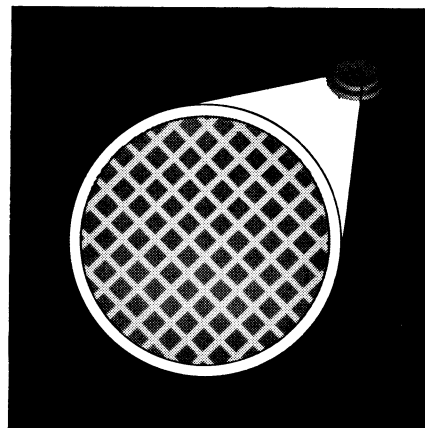
But the plating depends upon the presence of palladium, which depends upon the reducing ability of tin oxide. And *that* is destroyed by exposure to ultraviolet light.

So. We expose the coating to ultraviolet light through a mask of the circuit before dipping it into the palladium chloride. We thus get palladium—and hence copper—only on the unexposed portions. (Because chemical plating is slow, we can add electroplating if we want thick copper quickly.)

Now, our engineers have gone to considerable time and trouble to develop this new process because while the subtractive method makes perfectly fine circuits, it also makes problems. The copper salts formed by the etching-away process are quite poisonous and must be disposed of. To put down that initial layer of copper you need copper foil, which is expensive. Reclaiming the copper unused is laborious and can be expensive. *Not* reclaiming it means throwing away up to 70% of the copper you start with.

Considering the number of printed circuits Western Electric makes for the Bell System, these become major problems indeed. But by adding where we used to subtract, we not only solve those problems, we eliminate them.

We also get other benefits. The



Grid used in Picturephone® camera, produced experimentally by PSMD: It has 8 micron lines on 1 mil centers.

process can be used for one or both sides of rigid or flexible substrates, and with other metals beside copper. The pattern can be peeled off certain substrates, giving us an excellent way to make intricate connections. And, because the light used for exposure is UV (higher in the spectrum = shorter wavelength = better detail), resolution is good enough for us to make the kind of thing shown just above.

Exactly the kind of development most pleasing to us at Western Electric.



Western Electric

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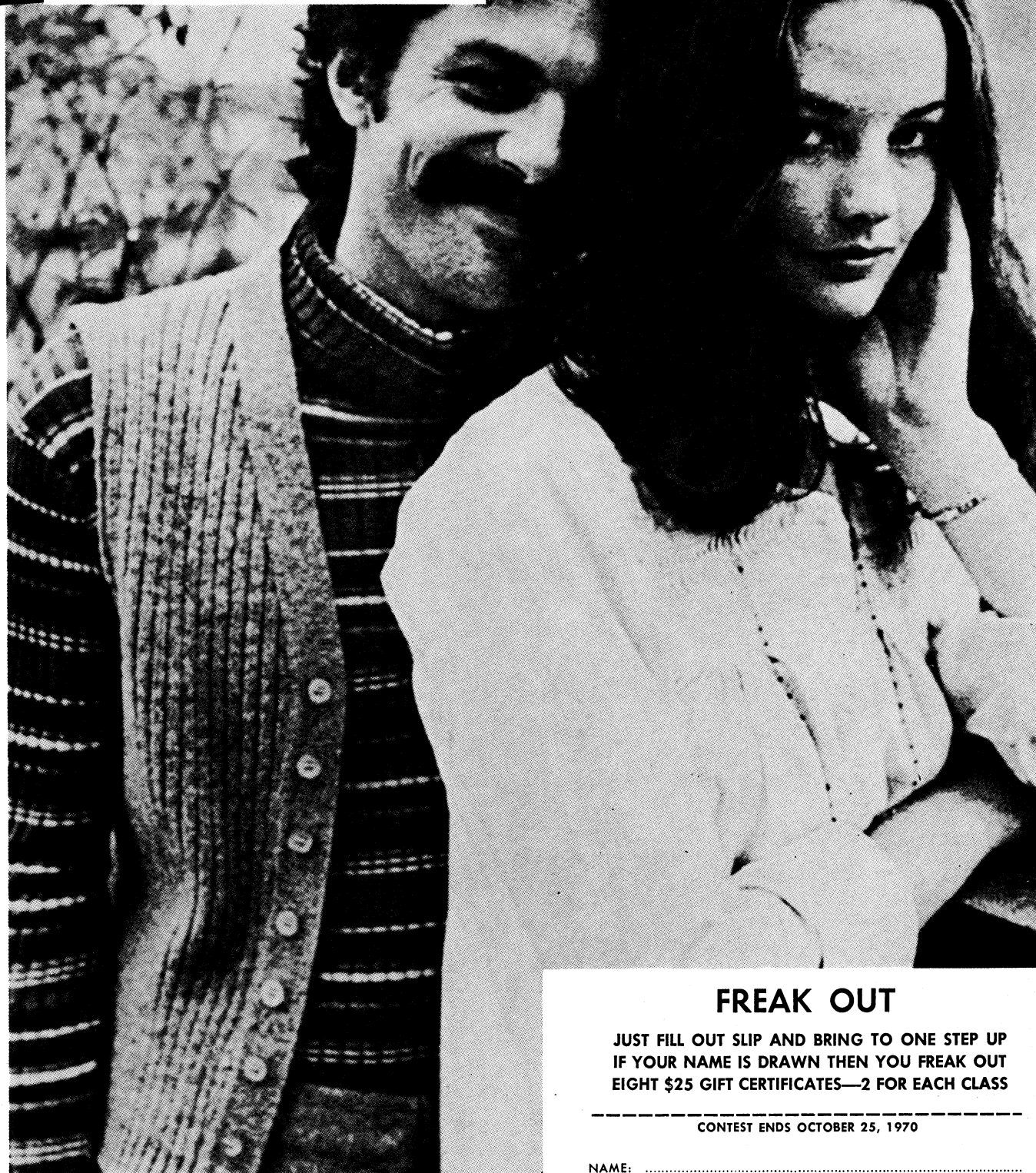
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