

Apologies to Crossword Puzzlers

Very sorry, Crossword Puzzle workers, but this week's puzzle did not arrive in time from Washington. And, of course, the solution to last week's puzzle was late, too.

IWV United Fund Elects Six New Board Members

Six new members of the Board of Directors of the Indian Wells Valley United Fund were elected at the organization's annual meeting last Thursday at the Kern County Building in Ridgecrest.

Chosen for three-year terms on the board were Ed Harris, administrator of Ridgecrest Hospital; J. B. McKernan, Ridgecrest postmaster who served as general chairman of the 1963 campaign; Mrs. Jane Bachinski, president of the Indian Wells Valley Council for Retarded Children, who was assistant treasurer of the '63 drive; Alvin Jacobsen of Inyokern, former member of the Board of Trustees of the IWV Union School District; Stanley Kus, principal of Vieweg Elementary School, and Capt. J. W. Hough, CO, NAF, who headed the '63 campaign at China Lake.

Bill Verry, president of the board, lauded the local UF campaign of recent months, commenting that most of the member agencies received a higher level of support than ever before realized.

Verry predicted a growth in the number of agencies seeking to participate in the United Fund, and thus an increase in the budget and services needed. "There will be more people requesting, and everybody requesting more," he anticipated.

Tells Harmony Of Boy Scouts And Churches

"The ideals and purposes of the Boy Scout movement are in harmony with the spirit and goals of the church," D. L. (Lou) Roberts, National Director of Mormon Relationships, Boy Scouts of America, told local BSA leaders at a luncheon meeting here.

"The Scout Promise and Scout Laws are, in fact, paraphrases of the Decalogue and the Golden Rule, in language that a boy can understand," he pointed out.

"The church that extends the Scout handclasp to a boy as a symbol and practical demonstration of its understanding of his needs and interests will win his friendship and gratitude for life."

Roberts was introduced to the gathering by William Werback, Indian Wells Valley Area BSA committee chairman.

How to Avoid Crowd at Bank

Another opportunity is afforded you to become a member of the crowd that's NOT in line at the bank on payday. By signing up to have your pay check automatically deposited in your account you can avoid the rush to the bank on payday and the crush within it. You again may take advantage of this convenience by filling out the required forms at the Disbursing Office anytime during normal working

hours before Feb. 28. Notary services will be available free of charge. Those who sign up during this period will have their paychecks deposited automatically beginning March 8.

All requests now in effect will remain in effect unless a request for cancellation is received prior to Feb. 28. All requests for automatic deposits must remain in effect at least 3 months. Stops and starts can only be made every 3 months.

SHOWBOAT

FRI. FEB. 22 "WE'LL BURY YOU" Special Documentary 7 p.m. (Out at 8:38)

"One picture is worth a thousand words" and this comprehensive history of Communism is thorough and completely interesting. From Marx to Khrushchev, this shows the red tide in action. Atrocious scenes to East Berlin wall escapes, and an added special three reel treat - "The adventures of a Roadrunner" you'll have to see this. SHORT: "Adventures of a Roadrunner" (26 Min.)

SAT. FEB. 23

-MATINEE- "SITTING BULL" Dale Robertson 1 p.m. (Out at 3:05)

SHORT: "The Milky Way" (7 Min.) "Zombies" No. 7 (13 Min.)

-EVENING- "FERRY TO HONG KONG" Curt Jurgens, Orson Wells 7 p.m. (Out at 8:51)

(Drama) Colorful Hong Kong and Macao are settings for this tale of a broken down exile who flies between the two ports (not allowed entry at either) aboard the scow of a pompous captain. An odd story of a cat who becomes a hero. (Adult) SHORT: "Whoa, Be-Gone" (7 Min.)

SUNDAY-MONDAY FEB. 24-25

"IT'S WONDERFUL TO BE YOUNG" Cliff Richard, Carol Grey 7 p.m. (Out at 8:49)

(Musical Comedy in color) Here's a real "sleeper"! Youth Club is about to lose their dilapidated quarters so they stage a fund-raising show, but don't let the simple plot fool you—it's laughs and tunes better. See England's Elsie! (Family) SHORT: "Little Woody Ridinghood" (7 Min.) "Jungle Man Killers" (10 Min.)

TUESDAY FEB. 26

COMMUNITY CONCERT FEATURING CESARE VALLETTI, Lyric Tenor 8:15 p.m.

WEDNESDAY FEB. 27

"DAYS OF WINE AND ROSES" Jack Lemmon, Lee Remick 6 and 8:15 p.m. (Out at 7:57 and 10:12)

(Drama) WARNING, an uncompromising story, realistic and nerve-shattering. Two Academy Award nominees portray a devoted young executive and his wife whose marriage is shattered by alcoholism. A tender yet terrifying story. (Adults)

THURSDAY-FRIDAY FEB. 28-MAR. 1

"THE RAVEN" Vincent Price, Pete Lorre, Boris Karloff 7 p.m. (Out at 8:49)

(Horror-comedy in color) Edgar Allan Poe's Tale of Three Magicians, one whose dead wife is reported seen at another's eerie castle. Witchcraft and black magic special. Singed with comedy. (Adults and Young People) SHORT: "Wild About Hurry" (7 Min.) "AFSM No. 601" (16 Min.)

COMING ATTRACTIONS

Mar. 2 - SAD SACK
Mar. 3-4 - TARAS BULBA
Mar. 5-6 - SASKATCHEWAN
Mar. 7 - Concert
Mar. 8 - A CHILD IS WAITING



NOTS GUEST—Rear Admiral Earl R. Eastwood, Ass't. Chief of Field Support for Bureau of Weapons, toured China Lake project facilities during one-day visit to command last Friday. West Coast tour included stop at San Clemente Island.

Community News

CESARE VALLETTI CONCERT TUESDAY

Cesare Valletti, distinguished Italian lyric tenor, will appear Tuesday evening in the third concert of the current NOTS Civic Concert Association series at the Station Theater. Curtain time is 8:15 p.m.

His program includes a wide range of arias, cantatas and love songs from the Italian, French, and German repertoires and modern Spanish songs.

He will sing songs by Johann Sebastian Bach, Bernardo Pasquini, Antonio Vivaldi, Vincenzo Bellini, Mozart, Hugo Wolf, Claude Debussy and Joaquin Turina.

A limited number of single admission tickets for this concert are now available, according to Carroll Evans, ticket manager and member of the Board of Directors. The tickets, priced at \$4.50, \$3.75, and \$3.00, may be obtained by calling NOTS extension 724231 until 4 p.m. on the day of the concert. The box office will open at 7 p.m. Tuesday evening.

The Board of Directors is making a special offer of half-season tickets to new persons in the community. Tickets for this concert and for the Leonard Bernstein Gala on March 7 may be purchased for half of the regular season price — \$6 for \$12 section (one good pair and three scattered seats remain), \$5 for the \$10 section, and \$4 for the \$8 section.

CAVALCADE OF MODERN PRECISION ON DISPLAY

An exhibition of precision electrical measuring devices, including some of a type used at missile bases and space project installations, went on display Thursday at the Community Center Building.

Known as the "Cavalcade of Modern Precision" by its sponsor, Leeds & Northrup Company of Philadelphia, the display is currently on a tour of the West Coast.

Temperature measuring equipment, manufactured by L&N, was used on the snow-covered heights of the Himalayas by the New Zealand explorer, Sir Edmund Hillary, and also by researchers probing the depths of the ocean floor off the Pacific Ocean.

DESERT ART LEAGUE MEETS

The Desert Art League will hold its monthly program meeting on Wednesday, Feb. 27, at 8 p.m. in Room B of the Community Center. The featured speaker will be Norma McClure, well known oil painter from Kernville. She will present an oil painting demonstration. The public is invited to attend.

TALK, FILM FOR HOMEMAKERS

The Indian Wells Valley Nurses Club is presenting a talk and film on Homemaker Service by Mary Allen Lytle on Monday, Feb. 25 at 7:30 p.m. in the Community Center.

From _____

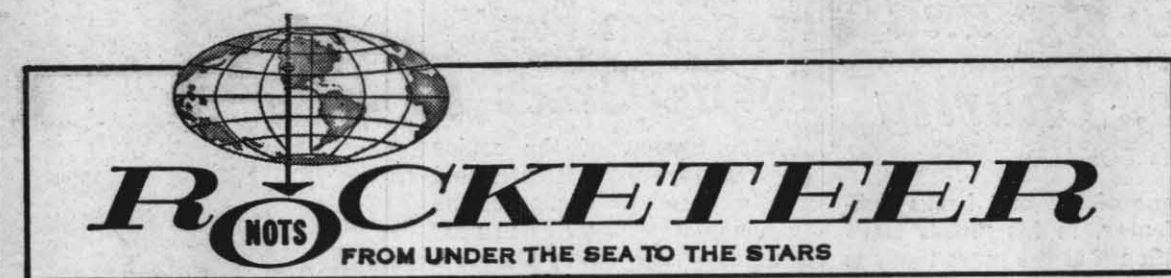
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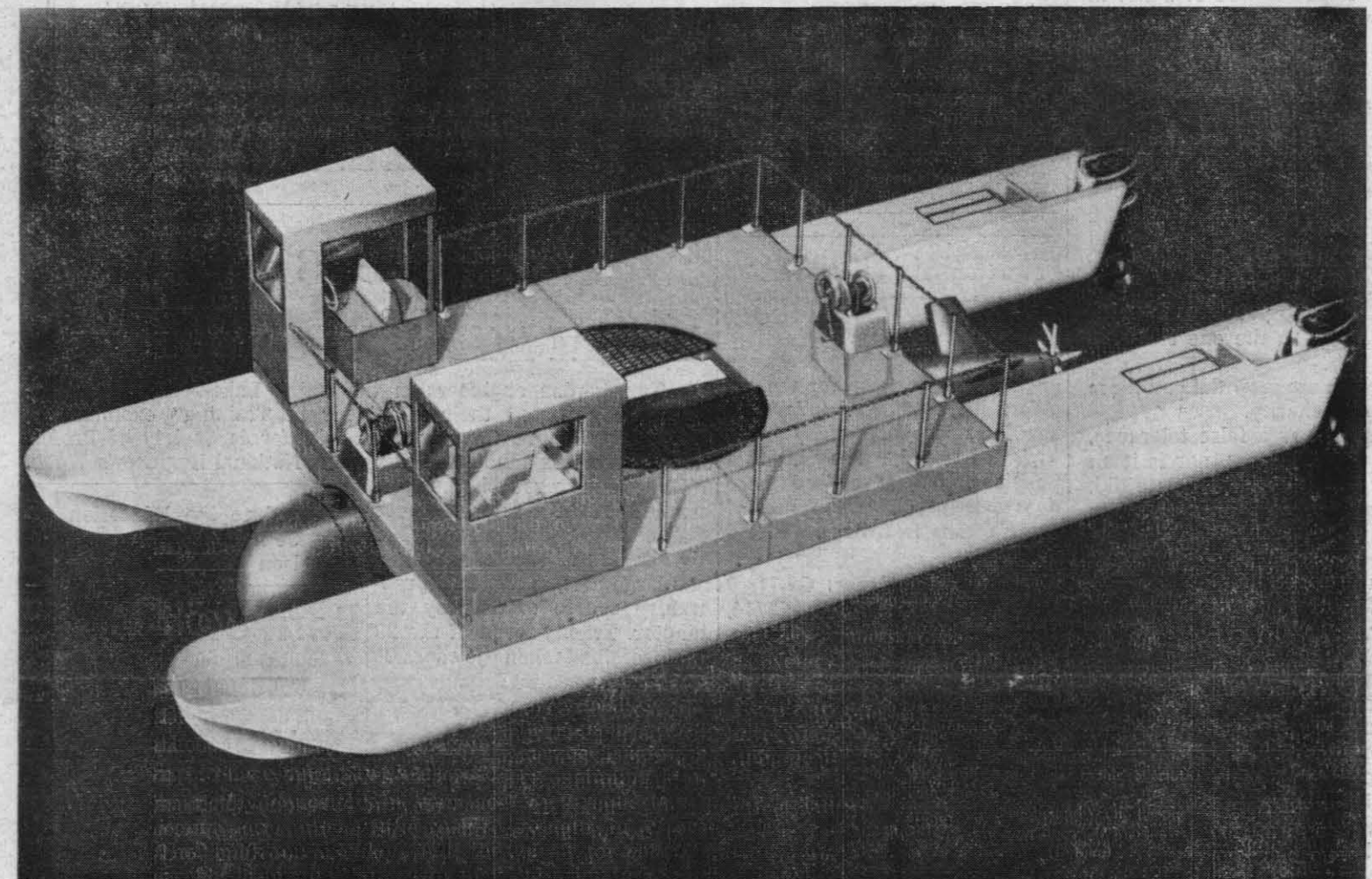
TEMPERATURES

	Max.	Min.
Feb. 15	64	41
Feb. 16	65	40
Feb. 17	64	39
Feb. 18	67	40
Feb. 19	72	40
Feb. 20	75	44



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NOTS' Research Bares 'Fantastic Plastics' Era



PLASTIC CATAMARAN—Borrowing an idea from the Poly-nians, the Plastics Section is presently constructing the craft above. The 40-ft. long, 3-ft. wide, 3 1/2-ft. high pontoons are constructed of polyurethane foam bonded together with

polyester resins. A working deck 21-ft. long by 15-ft. wide will hold the pontoons together. Winches will be mounted fore and aft on the platform for the raising and lowering of underwater research vehicles.

Provide Great Strength For Rockets, Nose Cones

By BUDD GOTT

An F8U-2N Crusader flashes through the rarefied air above NOTS' ranges at supersonic speed. The pilot reaches up, flips on the master arming switch, then the oscillograph. He eases back on the stick for a slight climb, and with his right thumb presses the red firing button.

For a split second nothing happens. Then flame sears from the plane's fuselage with a dull roar. A second later its hot exhaust blasts the leading edge of the wing as it breaks away for the kill — a drone two miles away.

Another routine test — another kill by NOTS' lethal Sidewinder — and no anxiety on the pilot's part as he heads back for Armitage Field.

But it wasn't always so. Not too long ago, the pilot would have had a moment of anxiety as the erosive hot exhaust gases of the Sidewinder seared the fuselage, inches away from a fuel tank, the leading edge of the wing, and hydraulic lines, then darted aft to hit the leading edge of the fin stabilizer.

One man with ingenuity that characterizes the NOTS employee has removed the anxieties for the F8U-2N pilots when firing air-launched missiles.

Bartel Solves Problem He is Elder H. Bartel, a grad-

uate of Whitman College, Walla Walla, Wash., and former employee of Boeing Aircraft and Aero-Jet General Corporation. He has been a NOTS employee for six years.

Bartel is a chemist with a small group known as the Plastics Section of the Materials Engineering Branch under the Mechanical Engineering Division, Engineering Department.

He was handed the F8U-2N problem to solve by his section head, Raoul Landry. Commercial manufacturers told him the only solution was to replace the propellant.

He discarded the idea because it meant another three years of propellant development, so he went to his witches' pot of plastics to find the answer.

After 65 tests he found the solution in a silicone rubber coating. The metal is stripped bare, then primed with zinc chromate (Continued on Page 4)

Local Rent Survey Goes To Capital

Informal information has been received by Station officials that a rental survey of China Lake housing, conducted over the past few months, is completed and has been forwarded to Washington for consideration.

Unofficial indications are that, if approved in its present form, this survey would result in some rental increases locally.

Station command has made known to Washington its concern that the possibility of an adverse effect on morale of any substantial rent increases which, in turn, could affect the mission of the Station.

Washington sources have assured Command that very careful considerations are being given the new survey.

It is emphasized by Station Command that rumors, the spreading of incorrect information or the adoption of hasty actions without having complete information at hand could be detrimental to sympathetic treatment of the problem at Washington levels as well as to the Station's mission.

Command also emphasizes that, (Continued on Page 3)

RAdm. Loomis In Day-Long Inspection

Rear Admiral Almon E. Loomis, Commandant of the Eleventh Naval District, paid his first official call at China Lake's Naval Ordnance Test Station facilities this week, arriving here early Tuesday morning for a day-long inspection tour and overnight stay.

A combat-decorated Navy flyer, Adm. Loomis relieved Rear Adm. Murr E. Arnold as Commandant Dec. 31, 1962.

HELICOPTER TOUR

Greeted here by Capt. Charles Blenman, Jr., ComNOTS, and key members of his staff on arrival at the Naval Air Facility, Adm. Loomis was briefed on NOTS projects and toured the area by helicopter Tuesday morning.

He continued his inspection of local facilities in the afternoon, touring Michelson Laboratory and enlisted men's barracks, mess hall and recreation clubs.

A reception was held at the Commissioned Officers Mess (Open) honoring Adm. Loomis Tuesday evening.

ON FIRST CARRIER

A native of Fargo, N. D., Adm. Loomis was designated a naval aviator in 1931. He subsequently served in the USS Langley, the Navy's first aircraft carrier.

Adm. Loomis participated in anti-submarine actions against the German U-boat menace in the Atlantic from 1943 to 1944, earning the Bronze Star Medal with Combat "V".

He won the Legion of Merit a year later for his services against enemy forces in the central and southwest Pacific war areas while serving with Carrier Division-25.

WAS WITH COMNAVEU

Adm. Loomis served as Chief of Staff and Aide to Commander-in-Chief, U.S. Naval Forces, Europe, before assuming his present command.

Adm. and Mrs. Loomis maintain a permanent home in Yucca Valley, Calif.



REAR ADMIRAL ALMON E. LOOMIS Makes First Official Visit to China Lake Since Becoming Commandant of Eleventh Naval District

Spring Wildflower Show



Mrs. Jack McAllister, Mrs. Leonard Licwinko, chairman, and Mrs. Frederick Richards (l-r) discuss plans for the Spring Wild Flower

Show to be held April 6 and 7 at the Community Center. Theme entries must be in by tomorrow. Mail them to 613 Ticonderoga.

CHAPLAIN'S MESSAGE Of Unity, Liberty and In All Things, Charity

By FATHER J. H. MacDONALD

A little over a decade ago, in one of the best books published in our times, Richard M. Weaver, in his "Ideas Have Consequences," put forward the position that the press today is very much guided by a desire for conflict. Under the pressure of holding attention, newspapers, he claims, thrive on friction and conflict.

While indeed there is much controversy, tension and conflict in the news, there is, nevertheless, sage advice in an old Latin writer, who in reference to questions in faith and morals, wrote:

"In necessariis unitas, in dubiis libertas, in omnibus caritas." (In essential things, unity; in non-essentials, liberty; in all things, charity.)

First, unity in essential things, such as belief in one God, the unbreakable unity of husband and wife in marriage, the unity of all citizens in pursuit of the common good. Commerce would go to pieces, if there was not unity on the multiplication table; a nation also perishes when it loses the hub of belief in God which keeps the spokes of humanity together.

But in doubtful things, liberty. Even within the realm of theology, there are many schools of thought. Architecture, which respects the essential laws of structure, nevertheless admits varieties of interpretation. Music with its laws of harmony accords liberty of arrangement to composers.

Allowance must always be made for another point of view, as is evidenced by the story of two knights who came riding toward a statue — a huge figure of victory holding a shield. One knight said that the shield was pure silver, the other said the shield was pure gold. They got into a discussion; both drew their swords and were about to settle it with bloodshed when a maid ran between them and said, "Put up your swords. The shield you have been looking at is silver on the one side and gold on the other."

But in all things, namely those which are essential and those that admit of differences, there is to be charity.

Charity here is not to be understood as a false tolerance, which admits evil on the same plane as goodness, nor is it an indifference to truth, which ends by crucifying it as Pilate did. Charity is love for the person despite the intellectual difference which separates.

Though a grocer adds eight and eight to make twenty-eight, one is not to be tolerant or broadminded about his error, but rather intolerant about the truth. But this intolerance about the truth does not dispense from charity. One would not be permitted to cut off the grocer's head.

One even has to be sensitive to the beliefs of others, never giving offense. As Paul told the Corinthians: "Give no offense to Jew, or to Greek, or to God's church. That is my own rule, to satisfy all alike, studying the general welfare, rather than mine own, so as to win their salvation." Such charity never interprets another man's actions in an ill sense, but is compassionate to his infirmities, bears his burdens, excuses his weakness and loves him in the midst of his imperfections and forgives him that he may be forgiven.

Documents Of Freedom For Future Grads

All members of the senior class of Burroughs High School will be presented a copy of the Documents of Freedom next Thursday, Feb. 28, by the California Interstate Telephone Co.

Wm. T. Biggs, manager of the local CIT office, will give a copy of the patriotic writings to the top girl and boy students of the class, and more than 200 other copies will later be distributed to the remainder of the class.

"We intend to present the Documents to senior classes of high schools throughout this area in the near future," Biggs said.

Included in the colorful brochure are the Pledge of Allegiance, Declaration of Independence, Constitution, Bill of Rights, Monroe Doctrine, Gettysburg Address, Star-Spangled Banner, and an explanation of what happened to the men who signed the historic Declaration.

PROMOTIONAL OPPORTUNITIES

Present Station Employees are encouraged to apply for the positions listed below: Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

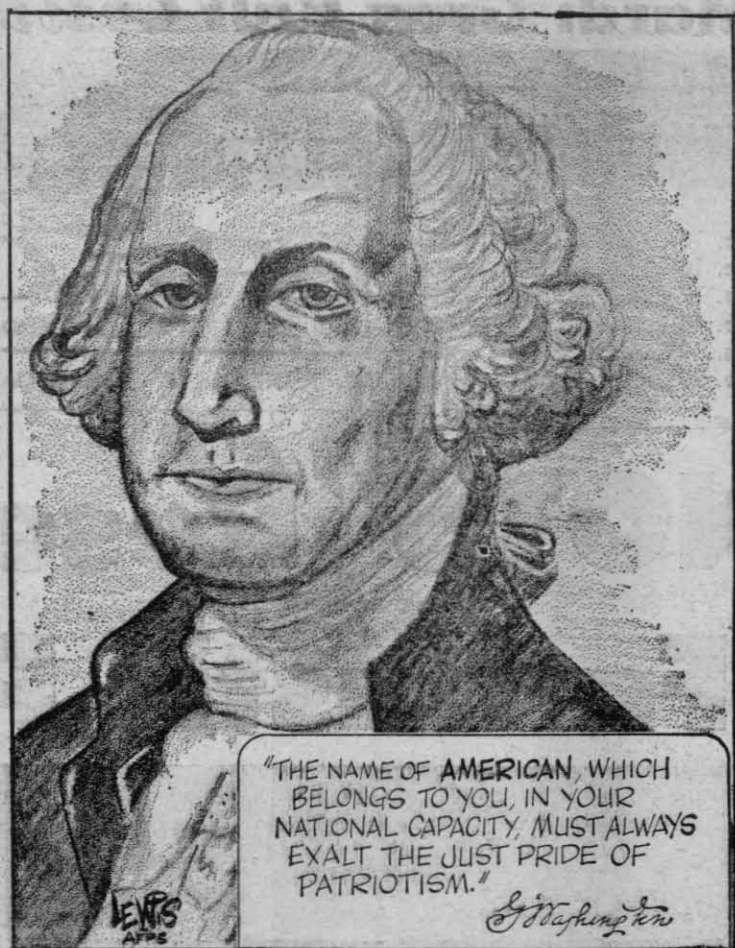
Electrical Engineer, GS-11, 9 or 7, PD 20022, 28742, 28714, Code 3023 — Primary duties include the design of complete electrical facilities of a project, i.e., power, lighting, fire control, communication and instrumentation.

File Application for above position with Jinny Millett, Bldg. 34, Room 34, Phone 72032. Deadline for application is March 1.



EAGLE-EYED—Young Chester W. Heck, Jr., noting light atop "B" Mountain was out one evening last week, promptly notified his dad, Cdr. C. W. Heck (right), who relayed information to authorities. Credited with "pos-

sibly preventing a serious accident," Murray Jr. High student was awarded official commendation by Capt. Jack W. Hough, NAF Skipper. Official shoulder patch of NAF insignia was presented to show appreciation.



29 Engineers Pass 'In Training' Exam

Twenty-nine engineers in the China Lake-Trona area have successfully passed their "Engineer in Training" examination, the Desert Empire Chapter of the California Society of Professional Engineers announced this week, National Engineer's Week.

The group scored a higher percentage of satisfactory grades than elsewhere in the state. The high degree of success was due, in a large part, to a special preparatory course offered by the chapter. Twenty-seven of the 29 engineers had taken the course.

Following are their names and departments:

China Lake
William R. Maddux and Earl R. Towson, Test Dept.
Joseph Boyajian and John M. Johnson Jr., Aviation Ordnance Dept.

Michael Aley, Roland E. Baker, Dennis Glendenning, Melvin Dull, Edward Herbert, Jack Meyers, Elmer Slater, Ray Van Aken and Carl Wright, Weapons Development Dept.

Robert Berry, William Byrne Jr., Robert Nunn, Donald Ruff and Fred Zarlingo, Propulsion Dept.

Kenneth W. Homb and John L. Malik, Engineering Dept.
Lt. (jg) Roy G. Adamson and William G. Burke, Public Works Dept.

Trona Area
Frank Bengston, George M. Boon, N. W. Coulson, Bill Dukes and Henry Shuette.

Two other persons passed the exam without attending the preparatory course.

High praise from the chapter went to those who acted as instructors: Frank Knemeyer, Charles Jenkins, Eli Zeitlin, Don Higgins, Marie Jenkins, Steve Carter, George Cleary and Jess Osier, president.

Other officers of the organization are W. A. Turnbull, vice president; Jack Vaughn, secretary, and Eli Zeitlin, treasurer.
J. Louis Breault of Monolith is the state director from this area.

New Training Series
A new series of eight sessions of preparation for the "Engineer in Training" examinations begins next Monday. The sessions, from 3 to 6 p.m., will be held each Monday through April 15, in the Training Building on Halsey ave.

Coordinator for the course is S. K. Carter, Ext. 71669 or 71427. Enrollment forms should be

delivered to the Education Office, Code 6503, Room 1004, Michelson Lab, before Monday.

Bernie Carter Is China Lake's Newest Yankee



BERNARD B. CARTER

China Lake's newest American returned home this week from Los Angeles, convinced that his newly won status is his most precious possession.

Bernard B. Carter, manager of the Commissioned Officers Club took his oath of allegiance last Friday, Feb. 15, in Los Angeles.

"The time was precisely 9:24 a.m.," added the former British subject who came to China Lake from catering manager duties at a Hollywood, Calif., restaurant.

"And now my family is truly all-American," noted Carter, explaining that his wife, Joan, and two girls, Cherri, 3½ and Tracy, 2½, were native born.

"I was the only alien in the family until last week," smiled Carter, a onetime sergeant in the British army.

What is the major advantage to American citizenship?

"The chance to vote in this country," beamed Carter. "You can bet I'll be the first in line when the time comes!"

RIM SHOTS

By BILL VALENTEEN



If any of you guys would like to make yourself a few extra bucks this summer, the Mojave Desert Officials' Association is looking for people to train as umpires for the coming season. They meet each Tuesday night at 6 o'clock in the Navy Wives Hut on Halsey. You can contact Dave Mullins or Herb Guest for more information.

'BAD' CALLS AND BAD MANNERS

On behalf of umpires, let me say that the fellows you see each year should really be commended for their stick-to-it-iveness, if nothing else. They go out there armed with the latest rules and training, just to hear a lot of nonsense from a little twerp who thinks he can see the strike zone better from the batter's box than the umpire can from behind the plate.

The men in black have the best vantage point and could care less who wins the ball game. They have nothing to gain by calling a bad ball, and everything to lose. Some guys will say, "Aw, I just like to ride the umpire a bit."

That's childish and stupid!

What really galls me, especially in Little League games, is to see an intelligent, mature adult who is trusted with the responsibility of managing a team, come running out of the dugout to argue a judgment call. This is the height of thoughtlessness. It teaches the kids disrespect for the rules and some of it rubs over into other areas of absolute authority in everyday life. This course will run for 30 hours on Tuesdays and Thursdays from 6:30 p.m. to 8:30 p.m. at the Station pool. Each participant to be eligible must be from 16 to 18 years old for aids, and 18 or over for instructors. Each must have a current Red Cross Senior life saving certificate. Please contact Mrs. Jan Hays, Phone 725412, for further information.

A CHAT WITH THE PRESIDENT

A few days ago, the Boston Celtics, in Washington, D. C., for a ball game, took a tour of the White House. That morning, the President, who likes to look at the list of visitors each morning, asked that they come up to see him. It was very chatty and all, and then the President asked Bob Cousy how the boys were doing lately. "No more fights, I hope," JFK said. "Well," said Bob, "every once in a while we have a few, but not anything really worth discussing." Cousy, as you may know, was extremely active in Ted Kennedy's camp prior to his election to the Senate.

Bill Russell, who wasn't particularly interested in the tour, stayed in bed at his hotel. Afterwards, he remarked, "Some days, it does pay to get out of bed!"

MORE FROM THE LOUD ONE

Cassius Clay says he'll knock out Doug Jones in the sixth. I guess you need a gimmick, even in the fight game.

ARCHER IMPRESSIVE ON TV

Speaking of fighting, I caught the Archer-Richardson go on TV last Saturday night, and I was real impressed with Archer. He really has all the style and agility of a great boxer. If he could hit as well as he maneuvers, he'd really be a contender.

PICKS FULLMER OVER TIGER

I pick Gene Fullmer to take Dick Tiger this Saturday night. I think he's learned enough from one go with Tiger to beat him because Gene can hit harder. Even though the last fight seemed to give Dick Tiger the fighting edge, I don't think Tiger hurt Fullmer a bit. It was the cuts that got the champ. I don't want to take anything away from Tiger's ability, but I'm going to bet my whole poke on Fullmer's hard head.

Saturday is the last day to sign up for the big Nassau tournament that will be held March 2nd at the local links. With weather like we've been having recently, I don't know why the golf course wouldn't be just a heck of a nice place to visit as well. Keep smilin', Sport! See you next week.

VOLLEYBALL

It is requested that personnel desiring to participate in a Station Intramural Volleyball League submit all entries to the Special Services Office, Code 855, via Military Personnel Officer or Civilian Department Head, not later than March 1.

All entries will include the name of the team and phone number of the team coach or manager.

A meeting of all interested personnel will be held in the conference room of the Housing Bldg. at 1 p.m., March 6.

JANUARY HOUSING ASSIGNMENTS

Type	Priority Level Reached	Hiral Date of Employee Assigned
JOQ (2)	B	2-9-68
Wasp Circle Duplex (3)	C	7-1-54
Panamint (4)	C	3-14-60
Panamint (3)	C	2-7-63
Hill Duplex (3)	B	5-27-52
Hill Duplex (2)	C	6-6-52
Joshua (4)	H	10-1-62
Yucca (4)	D	1-23-50
Tamarisk (4)	F	6-22-55
Juniper (3)	F	9-27-54
Normac Duplex (3)	B	3-3-61
Normac Duplex (2)	C	6-27-56
Old Duplex (3)	C	8-27-56
Old Duplex (2 LBP)	H	7-12-61
Old Duplex (2)	H	7-1-48
Wherry (4)	J	1-5-57
Normac (3)	J	2-11-50
Normac (2)	J	9-15-52
LeTourneau (2)	J	6-13-61
Hawthorne (3)	I	9-20-56

Mike Folmer, 11 Gets Two 200 Pins

Mike Folmer, 11, of the Boy's Bantam League in Ridgecrest was awarded a 200 Club Emblem by the American Junior Bowling Congress and a 200 pin by the local Bowling Congress for bowling a 220 game in league play. Mike is the first Bantam boy ever to roll a 200 game since the A.J.B.C. was formed a few years ago. His team is sponsored by the Military Order of the Cooties P. T. 43.

Two Junior Bowlers from the Civilian Alley at China Lake also were awarded 200 pins donated by the Men's City Association. Bill Allen rolled a 200 game in league play. His team is sponsored by the Moose Club. Billy Guinn rolled a 201 game in league play. His team is sponsored by the Rotary Club.

Water Safety Courses Start Next Thursday

The Red Cross will start the water safety instruction and water safety aid course next Thursday. This course will run for 30 hours on Tuesdays and Thursdays from 6:30 p.m. to 8:30 p.m. at the Station pool. Each participant to be eligible must be from 16 to 18 years old for aids, and 18 or over for instructors. Each must have a current Red Cross Senior life saving certificate. Please contact Mrs. Jan Hays, Phone 725412, for further information.

Don Cooper Aces 168-Yd. 17th Hole

Don Cooper did what every golfer in the world hopes to do, but seldom does.

Don scored a hole-in-one last Friday on the 168-yard 17th hole of the China Lake course.

"I've been playing this game since 1935, and I finally did it," chortled Cooper.

Don, who used a four-wood on the shot, had no idea at first what had occurred. The sun was strong and neither he, nor his playing partners, his wife, Hazel, Bill Shortt and Jim Downard, could tell from the tee where the ball had actually gone.

"The shot sliced a bit, but we thought it was on the green. However, when we got there we couldn't find the thing. We looked in the traps and over the green, all around. But none of us could find it."

"Finally, Hazel said, 'Look in the hole... maybe it's there!'"

Sure enough, there was that beautiful white pill.

It takes a lot of golf "engineering" to accomplish such a feat, but then, Don is an engineer in the Production Control Branch of the Manufacturing Division.

BOWLING

The Anchorage Bowling Alley will be open today for open bowling from 1 p.m. until 11 p.m.

Straggler Registration Set For Little Leagues

To accommodate the boys who failed to register during the four-day series of meetings, the China Lake Little League Board of Directors has set up three Straggler Registration sessions.

The first session will be held on Saturday morning, March 9, from 8:30 a.m. to 10 a.m., at the Refreshment Stand at the Snackenburg Field East Diamond (the one used for T-Ball in 1962).

Any boy who has not registered as yet and who wishes to be considered for a Major League team must register and show a valid birth certificate at the March 9th registration. At least one parent must accompany each boy.

Boys who have previously registered this year but did not present a birth certificate at the time will also be required to present their birth certificates at the March 9th registration if they wish to be able to participate in the tryouts and be eligible to be picked up by a Major League team.

Major League team members from 1962 who have not registered as yet are also required to register on March 9th or they will be considered dropped from the Major League and be ineligible to be picked up by a Major League team during 1963.

The other two straggler registration sessions will be held in April and exact details concerning those sessions will be announced later.

MANAGERS, COACHES MEET

League President Bob Freeman issued a reminder to all persons interested in managing or coaching a 1963 Little League team that there will be a meeting on Monday, Feb. 25, starting at 7:00 p.m., at Groves Street School Cafeteria. Prospective managers and coaches will confer with the China Lake Little League Vice-Presidents who are responsible for the individual leagues within the China Lake Little League organization.

SELECT UMPIRE-IN-CHIEF

China Lake Little League Board of Directors unanimously selected Herb Guest to serve as the organization's Umpire-in-Chief for the 1963 season.

Burroughs Among Schools Adopting 181-Day Terms

A 181-day school calendar for 1963-64 calling for classes to begin Sept. 3 and conclude June 5 was adopted by trustees of the Kern County Union High School and Junior College Districts.

Ad Bldg. Golfers Defeat PW Team

A combined team of golfers from Command, Central Staff and the Supply Department was just too much for the team of Public Works last Saturday. The Ad Building group won 6-3.

Capt. Bernard L. McCreery, Director of Supply, played his best game of the year with a low gross of 74. He and Bob Glenn were the low gross team.

Low net team, Doc Adams and Bill Sorbo, won a "sudden death" playoff against Harry Willis and Joe Benway.

Although no prizes were awarded to the highest individual team winners, Capt. F. F. Reck and Les Fairall, and Cdr. Kenneth Williams and Bill Thomas tied with a total of 24 points.

Archers Take 4 First Places In Competition

Four China Lake Bowmen took first place honors last Sunday at the Central California Bowmen's Association regional tournament in Taft.

Jack Nelson won the men's 325 class. His wife, Johnnie, took top prize in the women's 125 bare-bow class. Madge Bryant was victorious in the women's open competition, and Sheila Stedman scored first in the women's 175 free style class.

Others from China Lake who placed in the tournament were Bob Stedman, third in the men's open tourney; Patti Beyer, second in the women's 225 competition, and Bob Beyer, third place in the men's 250.

Reenlists



GOES FOR SIX — Alvin E. Cerveney, AQF3, has reenlisted under the STAR program for another six year hitch. He will attend the Navy's "B" School for Aviation Fire Control Technicians at Memphis, Tenn., for 42 weeks. Cerveney reported to the Naval Air Facility last June.

Sampling Supper Scheduled For Sunday, March 3

Sampling Supper, an expanded version of the American Association of University Women's annual tasting tea, will be offered to the community on Sunday, March 3, from 4 to 7 p.m. at the Community Center.

Co-chairmen of the event, Jean Kraus and Peggy Porteus, state that the entire family is welcome, and that the food, prepared from favorite recipes of AAUW members, will cover a tasty variety of appetizers, salads, breads, main dishes, desserts, and beverages.

Proceeds from the supper will support the AAUW fellowship and scholarship fund. Tickets, at \$1.75 for adults and \$1.00 for children under 12 will be available from AAUW members and at the door.

NOTS Pasadena News

Virginia E. Lane — Ext. 481

Sailor of The Month



DENNY D. HOLSTEIN

Denny D. Holstein has been selected as "Sailor of the Month" for the month of January at the U.S. Naval Station, Long Beach.

Holstein is the Petty Officer in Charge of a 116' NOTS craft used as an acoustic research vessel and alternate Petty Officer in Charge of a 149' craft used in missile firing operations.

"Holstein does an outstanding job at NOTS," states Lt. (jg) J. A. Kennedy, Sea Operations Of-

ficer, "and is considered by his superiors to be, in all respects, an excellent Petty Officer."

Holstein recently received a personal commendation for outstanding services rendered in support of a current technical program.

As an award for being selected, Holstein received a pair of tickets to a Globe Trotters Basketball game which was played in the Long Beach Arena on Feb. 2.

Engineers' Week



NOTS DISPLAY — "By proclamation of the President of the United States, the week of February 17-23, 1963, the week of Washington's birthday, has been set aside to honor the engineering profession." In cooperation with the above proclamation, NOTS Pasadena furnished displays, one of which is pic-

tured above, for public viewing at the Security First National Bank, 230 E. Colorado Blvd., Pasadena. Local sponsors include Los Angeles Technical Societies Council, Los Angeles Council of Engineering Societies, and Consulting Engineers Association of California. Art work: Dick Frederick; Photo: Tom Fujii



REWARDED — Shown (l-r) are recipients of a group Superior Achievement Award — Harry Smith, Engineering Technician; and Harold Thompson, Electronics Engineer, both in Torpedo Development Division; Donald Ayers, Electronic Engineer; and Edgar Anderson, Electronic Mechanic, both in Systems Development Division; Eric Swanson, Mechanical Engineer; Carl Runge, Engineering Technician; and James Green, Supervisory Mechanical Engineer, all in the Propulsion Division. —Photo by Ron Tharp, FA

Group Award Presented

A group Superior Achievement Award of \$300 was approved for seven members of three divisions in the Underwater Ordnance Department, for their extraordinary performance in designing, constructing, and operating a captive test facility for the Torpedo MK 46-0.

This facility was assembled in a remarkably short time and under intense administrative and technical pressure. Its successful operation pointed out a previously unsuspected marginal design component and culminated in successful demonstrations of the deep-depth capability of the torpedo. These data have been important in evaluating the progress of the Torpedo MK 46-0 project.

The short time-scale under which the project was conducted, and the quality of the resulting data were convincing evidence of superior performance.

Friday Nighters Keep 'Em Rolling

Closely matched teams in the NOTS Friday Nighters Bowling League are providing some pretty exciting moments. In last Friday night's play, the fourth place team, by taking four points, moved up to first place. Current standings are:

Team	Won	Lost
Tigers	46	38
NNAA	45½	38½
A-Bums	44½	39½
Knotheads	43	41
Untouchables	39	45
Eagles	34	50

Bill White, Captain of the Tigers, turned in high score last week with a 211 scratch game. For non-bowlers, that means without handicap.

Al Cahagen, Captain of the Untouchables, had a 200 scratch game — his first time to hit that coveted mark. He also turned in high series for the week with 524. Games were 167, 157, and 200.

In handicap scoring, Irene White with 606 holds honors for high series, and Barbara Paulson high game with 230.

NOTS To NASA

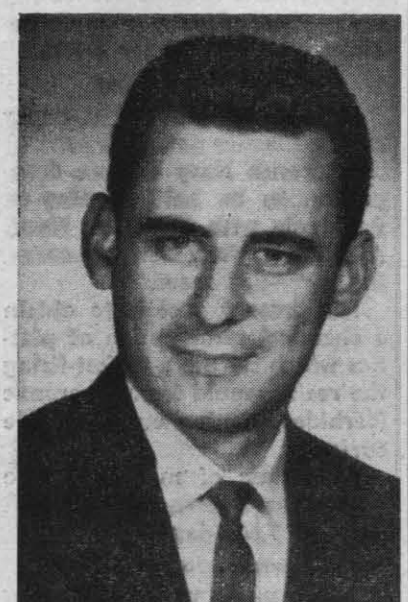
As guest of honor at a luncheon last Friday, Gene Rowden bade farewell to his many friends and associates at NOTS as he left the Station to join National Aeronautics & Space Administration (NASA), Culver City.

Gene has contributed much to the Station, not only in a technical capacity, but to Station morale as well. He has served as a member of several committees in various Station service organizations.

With a B.S. Degree in industrial engineering from Georgia Institute of Technology, Gene came aboard in 1956 with the

An active member of the NOTS Speakers' Bureau, Gene has received numerous commendation letters from Naval Reserve and Civic groups, to whom he devoted much of his spare time giving evening presentations of a technical nature.

Gene and his wife, Toni, reside at 3710 Arboleda, Pasadena with their three children.



Fred Eugene Rowden, Jr.

Junior Professional Assistant (JPA) program. As a General Engineer in the Missile Branch, Systems Operations Division, he most recently served as Associate Project Manager of Polaris Full-Scale Underwater Launch Program.

During his years at NOTS,

Personnel Statistics

New Employees

UOD — James Martin, Mathematician; Arnold O. Musolf, Civil Engineer; Elton M. Rife, Mathematician; Barton E. Dahneke, Mechanical Engineer.

Supply — Lisbeth J. Haviland, Clerk Typist; Doris E. Dave, Clerk Typist; Shirley S. Jones, Clerk Typist.

Public Works — Reino A. Johnson, Electrician.

Terminations

Public Works — Ray D. Becktel, Electrician; Abraham H. Malkin, Structural Engineer.

Supply — Betty M. Mahaffey, Clerk Typist.

UOD — George Broaker, Model Maker (Mech.); Charles E. Manry, Physicist.

Mardi Gras Ball Costume Winners



JUDGED BEST — NAF's Lt. Tony Tambini and Mrs. Burke West were judged winners for the best costumes at the Arabian Nights Mardi Gras Ball last Saturday evening at the

Officers Club. Nona and Harold Turner won the door prize of a two-night and three-day expense-free vacation at The Dunes in Las Vegas, Nevada.

Rent Survey . . . 'Bluejacket of Month' To Be Chosen, Feted

(Continued from Page 1) at this time, there is no official information on the new rent schedules on hand, that the Station has not received any directives to implement the new rent schedules, and that it is not even known whether the new schedules, if implemented, would be the same as those recommended by the appraiser.

SAFETY VALUE

Neurotic reactions can be a safety valve to help a person fufeted by the physical and emotional challenges of human experience keep his equilibrium, according to Dr. David Seegal, a Columbia University researcher.

A monthly program designed to bring recognition to China Lake Navy enlisted men will begin here next week with a "Cinderella Weekend" in Bakersfield as the main prize.

The program, sponsored jointly by the Bakersfield Chamber of Commerce, Military Affairs Committee and businessmen of that area, will be based on China Lake's "Bluejacket of the Month" selection.

One of the sponsors in Bakersfield, Ed Fant, is to provide the man selected each month with a new car for his transportation

while in that city.

While there, the Navyman will stay at the Skyway Motel as a guest of Warren Bruce, owner of that establishment.

All meals will be provided by the Skyway House during the free weekend.

The lucky recipient of these courtesies will attend headline attractions, including sporting events and theater attractions. In addition, he will appear on a television show in that city, according to Charles Carr, coordinator for the program from Bakersfield.



VOICING HIS thanks to the Indian Wells Valley Council of the Navy League is Capt. Charles Blenman Jr. The local Council honored the Commander of NOTS at a dinner Saturday night at The Hideaway. Among those attending are (l-r): Mrs. Blenman; Mrs. M.

Carlson; Mel Carlson, President of the local Council; Capt. Blenman, "E" Pick McIver, 11th Naval District President of the Navy League, and Dr. Pierre St. Amand, Head of Earth and Planetary Sciences Division of NOTS Research Department.

'DESERT PHILOSOPHER'

Is Man Upsetting Nature's Balance



By "POP" LOFINCK

Is Man Upsetting the Balance of Nature? This subject is so vast and complex I hardly know where to start. The elements of balance keep changing. They are not static. The equation is not simple.

Time wise — man is a late comer in the history of this planet and may be an early leaver.

After 16 centuries — lands ruined by Romans in parts of the Sahara (areas that supplied Rome with food and clothing) are still worthless, because of stupid management. So . . . Balance Upset!

Thousands of years ago Mongolia was over-grazed — the rain ran off — lakes dried up — balance was upset — it is still a desolation. In those days all the savage hordes had to do was to move on — age after age — to loot and slaughter in other areas.

Man is running out of areas to exploit. Centuries ago North China was forested. Then the hills were denuded of vegetation. So rains washed the soil into the Yellow River — where it did no good. Floods drowned millions of people. Modern Chinese still have periodic famine. Upset balance.

European man migrated west to North America. For thousands of years the Plains Indians — and the buffalo — and the buffalo grass had kept in balance. The buffalo was their food — clothing — fuel and shelter — together with natural vegetation.

Then the European white man came and shot down the bison by the thousands — just for the kick — not even bothering to skin them in most cases.

Cattle were introduced to the plains. Not as well adapted as the buffalo.

Then the prairie sod was plowed under to plant wheat. They should have left the grass for grazing.

Depression came and the land lay fallow. Rain washed most of that rich top soil down the rivers into the Gulf of Mexico.

That rich top soil took many thousands of years to make from minerals and humus of the grass. The grass would have preserved that rich soil for many thousands of years more. Now it's gone forever. Balance upset.

In other areas, until recently, farmers stupidly plowed up and down hill, instead of following the contour of the hill. Rains leached out the top soil.

Further west, forests were eventually cut down. That was before the Forestry Dept. got control.

The forest cover acts as a sponge reservoir to retain the rain water so that it runs out gradually and usefully.

So with the forest cover gone the rain water goes out in a flood to the ocean — taking the rich soil with it. Springs dry up, and underground pools for irrigation have been so lowered by pumping and lack of replenishment from the forest cover, that salt water from the ocean has seeped in, spoiling the underwater pool for irrigation purpose.

There is no substitute for water. Had it not been for the persistent efforts of John Muir and Theodore Roosevelt, the Sequoias — which took from 1000 to 4000 years to grow — would have been destroyed.

Franklin Roosevelt put over a master stroke of wisdom in forming the C.C.C. to plant trees and reforest many areas.

The Navy Department has almost perfected an economic method of purifying sea water for irrigation — not too far from the ocean, that is. Of course the cost of pumping it to higher altitudes would be prohibitive unless atomic power can be used.

Cities are an abomination. Smog and jangle and noise and traffic collisions and frantic speed are a greater hazard to health and sanity than atomic fallout. The casualties are just as dead as from war.

One of America's greatest assets are the National Parks. Pythagoras and the great Aristotle accented the necessity of getting close to nature to meditate — contemplate — and get reoriented. How much more important that is today!

People and industry should scatter out to the desert areas — which is what they are beginning to do.

With the population explosion all over the world — disease brought under control — longevity increased — infant mortality decrease, etc., maybe science will work out a method for people to live in the ocean — which is 70 per cent of the earth's land. There is plenty of food in the sea. Whales evolved to a land animal eons ago and then went back to the ocean. Maybe man will.

Science is working on a gimmick that fits in the arm pit to oxygenate the blood from air in the water for long periods without having to breathe under water.

This Earth will go on with or without man. Nature has a way of eliminating any species that is out of balance and doesn't adjust or adapt fast enough.

My human ego leads me to hope that man will be guided away from destruction, to living in a harmonious balance with Nature and himself.

The ancient philosophers predicted that this state of being would come, about the equivalent of our year 2000. If that prophecy is true and our calendar is correct, that gives us 37 more years to learn in, before the Great Symphony of Nature becomes harmonious.

Things should happen pretty fast from here on out. As a matter of fact, things have been happening pretty fast for the past 30 years.

Emerson said "We must turn to Nature—not to the past to find our way — look at Nature with new eyes."

That's the answer.

'FANTASTIC PLASTICS' -- NOTS RESEARCH SEES NEW ERA

(Continued from Page 1)

followed by a silicone primer. A ready-to-use silicone rubber sealant is thinned with cyclohexane, then sprayed on the critical areas.

This protective coating for the F8U-2N has been in use for over a year now.

Plastics Started 1954

Bartel's achievement is but one of the many, since the Plastics Section got its start back in 1954 in a balcony room overlooking the All Weather Chamber. It was then under the Process Branch of Materials Engineering Division.

A reorganization occurred in 1956 and the Materials Engineering Branch was established with Steve Herzog as its head. The Branch is composed of the Ceramics Section, the Components Section, and the Plastics Section.

Under Herzog, the Branch has carried on a well-planned, well-implemented, comprehensive, long range program in applied research on missile materials.

Its program has a three-fold purpose: Development of new and better basic materials, improvement of existing materials through new processing techniques, and utilization of materials through engineering design.

"When NOTS rocket designers set down their specifications, our chemists, physicists, and metallurgists go to work to meet them," Herzog says. "We look for lightweight materials—plastics and metal alloys—that can be rolled micro-thin and then pressed into Hercules-strong rocket casings, nose cones, etc."

"We must find materials that can stand the terrific heat of re-entry or plastics that are light as a feather but strong enough to survive the most violent shocks of take-off."

Importance of Plastics

Authorities in the field of plastics predict that if current research and development continue at the present pace, a whole new era will be opened in plastics.

Faced with the rapidly increasing importance of plastics in military applications — in missiles as well as in many other areas — the Plastics Section is doing a stalwart job from basic research through fabrication for NOTS.

Raoul Landry, a graduate of Southwestern Louisiana University with a B.S. degree in chemistry and biology and an M.S. degree in inorganic and physical chemistry from Tulane University, heads the section and was a research student of Dr. Julius Stieglitz of the University of Chicago.

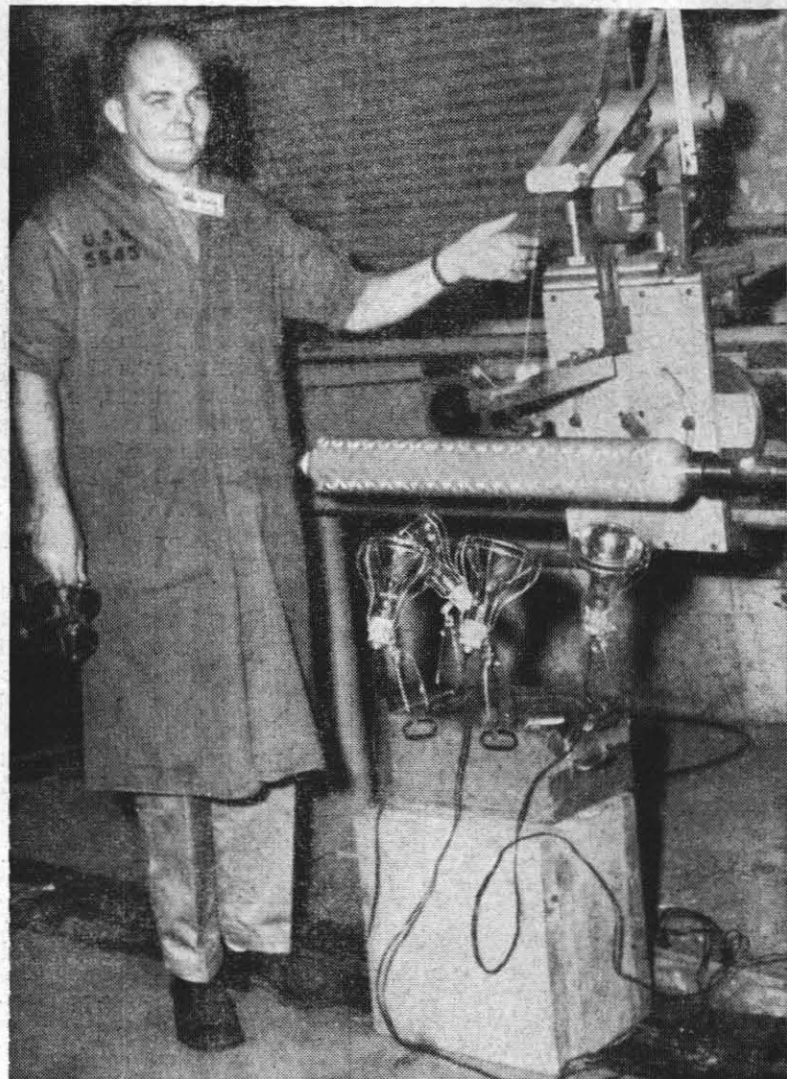
He is a well-informed specialist in the field of plastics. A material that is rapidly replacing metals in some areas.

With many different kinds of plastics available, each with its own set of characteristics and with new plastics appearing every day, NOTS engineers need someone to guide them through this maze and to advise them on which materials fits their specific needs.

Just a few of the "common garden varieties," as Landry and his assistants term them, are epoxy, polyester, polyurethane, phenolics, epoxy-phenolics, silicones, acrylics, vinyls, polyethylene, polypropylenes, teflon, nylon and cellulotics.

Build Catamaran

One of the more spectacular jobs in Plastics at NOTS is being carried out by the Components Section at present in the construction of a catamaran

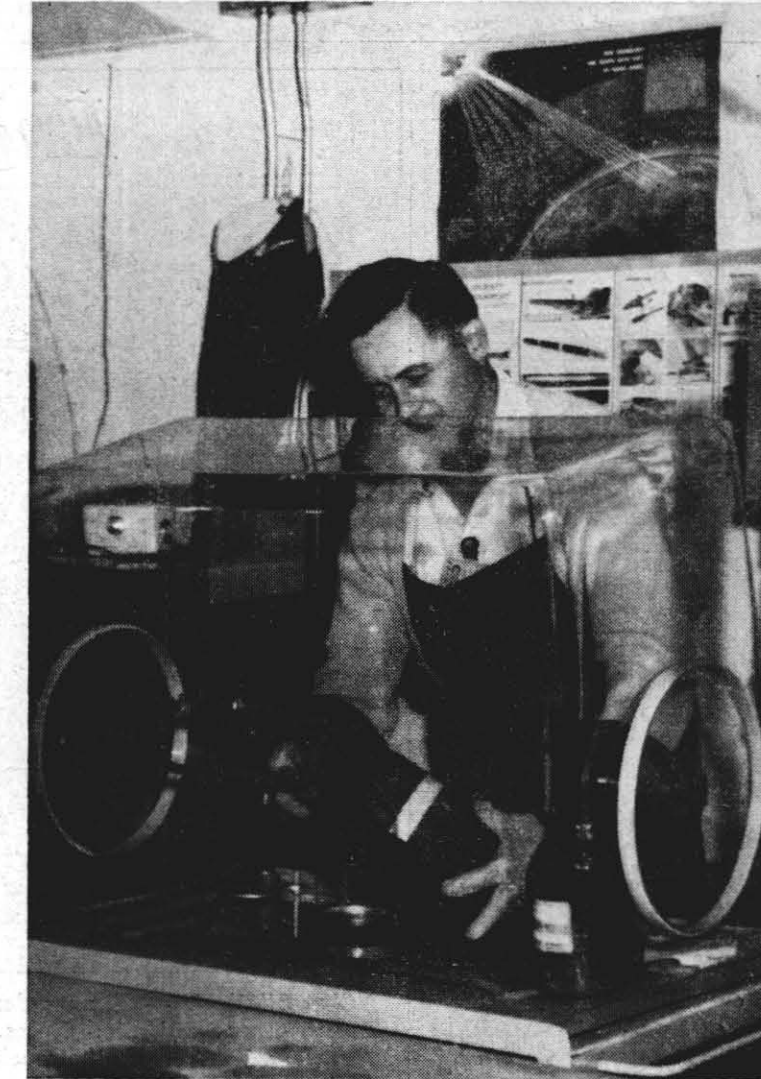


WINDS ROCKET CASING—Malvin P. Ennis, model maker machinist, uses a filament winding machine to coat a powder charge plastic container. Cylinders of 12" dia. and 6' to 10' in length can be produced on machine.



F8U-2N PROTECTION—Silicone coating on the F8U-2N Crusader is still intact but thin after three firings. The coating was developed to protect craft against the erosive gases of air-launched missiles. Elder Bartel of the Plastics Section,

Materials Engineering Branch, Engineering Department, conducted 65 tests before the proper coating was perfected. The Plastics Section has been carrying on an applied research program in plastics since 1954.



MIXES PLASTICS—Elder Bartel works inside an enclosed dry box for handling metal-phenoxyaldehydes. The materials must be weighed and transferred in extremely dry atmosphere until the resins have formed.

made out of plastics for retrieving underwater research vehicles.

The catamaran will consist of two pontoons 40 feet long and held together with a working deck 21 feet long and 15 feet wide on which will be installed winches fore and aft for raising and lowering vehicles.

The 40 foot long pontoons are constructed of polyurethane foam slabs and bonded together with polyester resins. They are 3 feet wide and 3½ feet high. A step in the aft end of each pontoon will house a 100 horsepower outboard motor.

Large Project

This is one of the largest plastics projects undertaken by the Plastics Section. Blocks of polyurethane were assembled like bricks, a layer of adhesive was sprayed on, another block added, another layer of adhesive, and so on until the 40 foot pontoons were completed.

A cover glass laminate was then rolled on the pontoons and a three-system spray gun was used to apply the final finish of chopped glass fibers, resins, and a curing agent.

The epoxy finish gives the pontoons a rock hard surface that cannot be damaged when docking against piers.

Hunnell Engineer

Henry C. Hunnell of the Components Section is project engineer for the construction of the catamaran while Richard J. DeMarco of the Weapons Development Department is project engineer in charge for the development of the catamaran.

Hunnell is being assisted by men with a long experience in plastics, Bert Unger, Ellsworth G. Smith, and Gordon Bredstrand.

Develops 10 New Plastics

NOTS' frontiersmen in plastics, Raoul Landry, Elder Bartel, and Bob Gracia, who recently transferred to Code 4544, during the past year, have developed over 10 new plastics. Landry and Bartel have received superior accomplishment awards for their work.

While exploring the jungle of plastics with applied research these men have developed better nozzels for Sidewinder 1C, the Terrasca probe, and ASROC plastic insulators for the Terrier and Tartar missiles and Polaris.

The Plastics Section's adaptation of the high temperature polyurethane foam is cushioning the payload of instruments in vehicles now orbiting the earth.

To Present Paper

Landry will present a paper on the Plastics Section's work at the seventh Navy Science Symposium to be held in May at Pensacola with the U. S. Naval Aviation Medical Center hosting the three-day meet.

His present goal is to obtain a chemical combination of plastics which during a rocket-firing the resins would form a ceramic (carbides) coating on the nozzle surface.

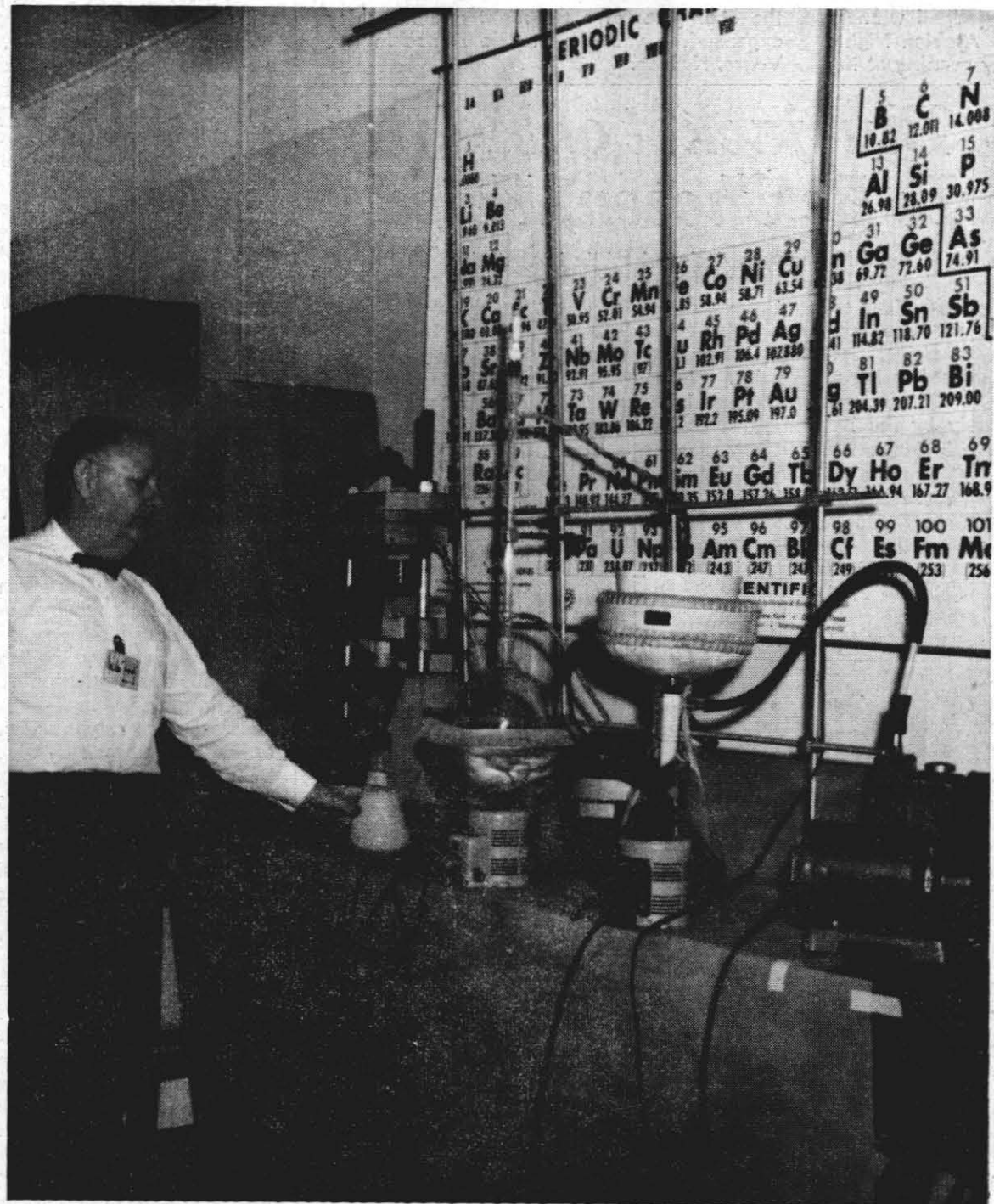
This class of materials have the highest known melting point of about 7,500 degrees F.

Formula for Success

When Steve Herzog, Head of the Materials Engineering Branch, was questioned on the success of his Plastics Section, he gave this simple formula:

"When you have men who know their field, give them a 'home' — a place to work, lab equipment to work with, and leave them alone in an atmosphere conducive to creative work... well, you can hardly miss."

Resists Extreme Heat and Shock, Has Great Strength in Lamination

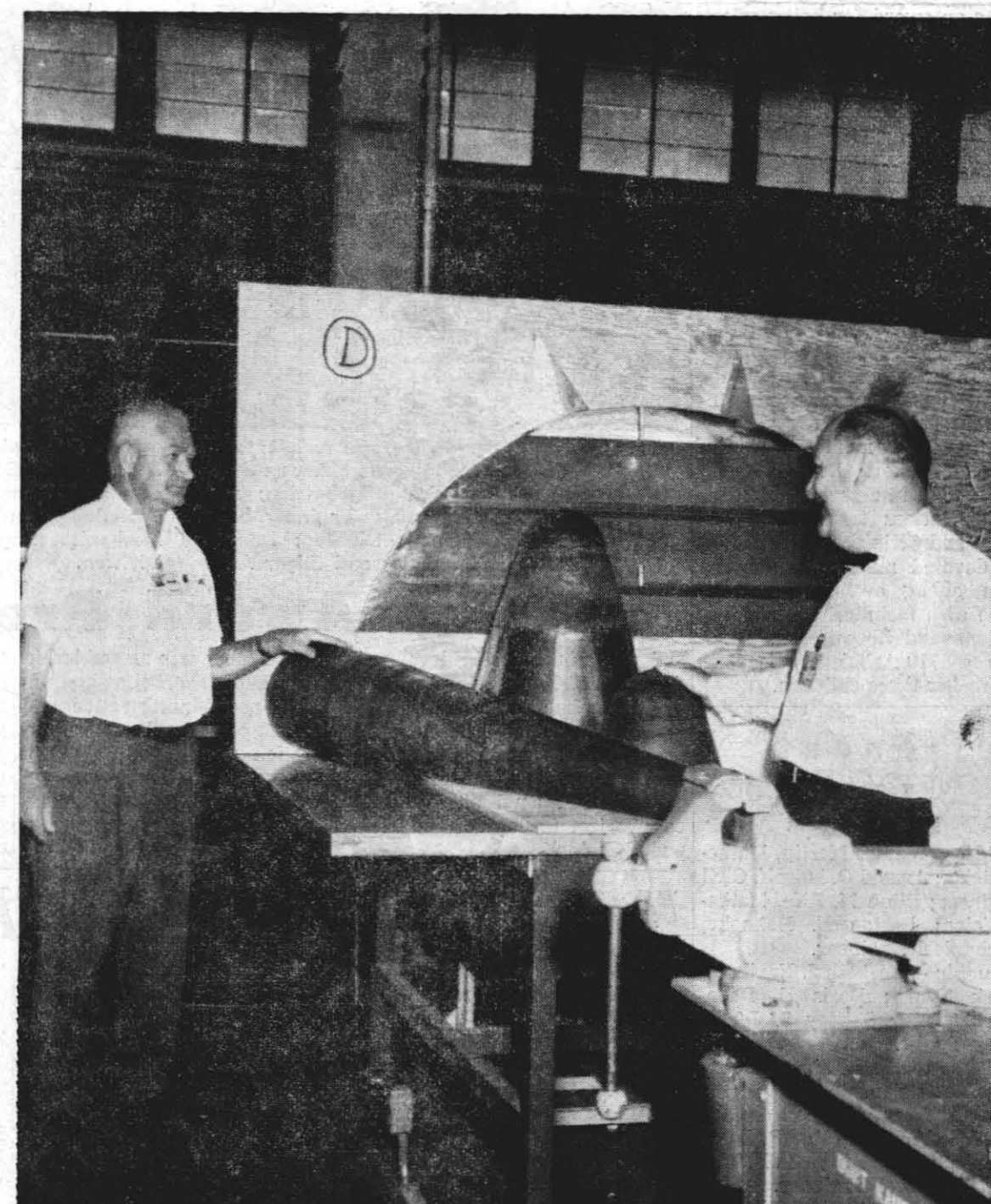


PLASTICS MADE HERE — Raoul Landry, Head of Plastics Section, points out equipment used in plastics work here. From left are compression press, processing equipment

for preparing inorganic-organic polymers, filter flask, and vacuum pump. A specialist in plastics, Landry meets NOTS' rocket designers' specifications with new materials.



CATAMARAN PONTOON—Construction engineer Henry Hunnell (left) and Gordon Bredstrand, Ellsworth Smith, Bert Unger (front to rear) add the finishing touches to a 40' catamaran pontoon. Epoxy plastic makes rock-hard surface.



FINISHED PRODUCT—Harold Berry, leading man in metals and plastics, and Raoul Landry pose with nose cones formed here out of plastics for NOTS' missiles. Cones

must withstand high temperatures and survive violent shock of take-off. Item in background is metal mold for forming plastics. Applied research in plastics began here in '54.