

Three Experts Praise Space Program, Plans

Three views of the worth of the space program were reported in a recent issue of the NASA Manned Spacecraft Center's bi-weekly newspaper, *Roundup*.

Dr. Thomas O. Paine, NASA administrator, before the Aerospace Industries Association: "Why spend money on space instead of on poverty programs?"

"... If you want to distribute more wealth in welfare programs... one of the first things (to)... consider is how to create additional wealth.

"And I would submit that NASA's space exploration programs that are moving science and technology ahead... promise to create even more wealth... and in the process create new jobs and new opportunities that will not merely alleviate poverty but get at its root."

Dr. George E. Mueller, NASA associate administrator for Manned Space Flight, to the New York Society of Security Analysts: "What have we bought with our space dollars?"

"We have bought the facilities, the equipment and the knowledge to operate in space for our national security.

"We have upgraded our planet as well. The stringent requirements of the space programs and the availability of NASA educational grants have combined to raise the work skills and the educational levels of hundreds of thousands of workers and scientists.

"We have regained our position as the leading technological nation of the world. We have earned a monument in history."

Leigh S. Plummer, publisher, Gary, Indiana, *Herald*, from the *Congressional Record*: Measured as a mechanical achievement, the flight to the moon contrasts sharply with our way of life 75 or 80 years ago when man moved about the earth's surface on foot, on horseback or in steam-powered trains or
(Continued on Page 2, Column 5)

Rotating Action Controls Overheating and Freezing

The Apollo 10 astronauts will be executing rotating maneuvers with their spacecraft to keep it from overheating or freezing on their trip to and from the vicinity of the moon.

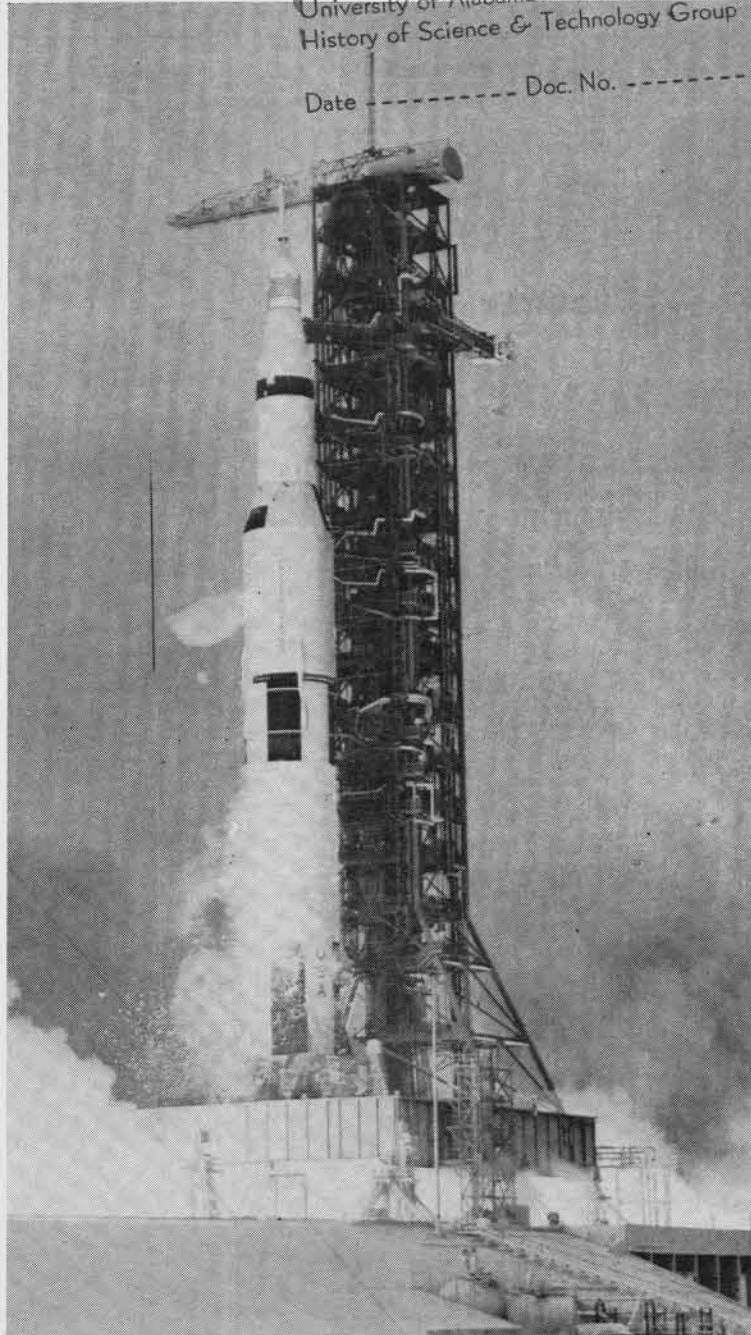
The crew has been deliberately rolling Apollo 10 for controlled heating. The maneuver is to evenly distribute the extreme heat and cold the spacecraft will encounter on its way to the moon.

HOLIDAY NOTICE

Friday, May 30 — Memorial Day — will be observed as a holiday. Regular work shifts will be in effect on Monday, June 2.

Only employees needed for special assignments will work on May 30. Those required to work will be so notified by their supervisors

Employees will receive eight hours' pay for Memorial Day in accordance with existing policy.



IGNITION SEQUENCE — Apollo 10 shakes chunks of ice from first stage during launch. The Space Division-built CSM rides atop the 363-foot vehicle. S-II burned perfectly during the second powered boost phase Sunday at Kennedy Space Center.

BERGEN, EPPS ESTABLISH 100% BOND DRIVE GOAL

A goal of 100 percent participation among division employees has been set for the 1969 U. S. Payroll Savings Bonds Drive, June 2-13.

The goal was established by Division President William B. Bergen and Walter Epps, Jr.,

management systems analyst, Accounting, who is serving as the division's 1969 Bond Drive chairman.

Announcement of the goal of complete division participation followed by one week the news that North American Rockwell President J. L. Atwood had accepted—for the second year in succession—the national chairmanship of the Aerospace Industry Committee for the U. S. Payroll Savings Campaign.

"I urge each employee to sign up through the Payroll Savings Plan for the Bonds, which are really buying a share in your own future as well as helping your country," Bergen said. "I feel very sincere about this; I've been buying U. S. Savings Bonds ever since World War II. This is not another campaign for contributions; it's an automatic means of saving for yourself."

In a letter to Management Council members, Bergen pointed out that "Last year, our division tied with Tulsa for the lead of the entire corporation in total participation of our employees. More than 98 percent had signed by the conclusion of the 1968 drive. As pleased as we all were with our record last year, I want to do better this year."

"At this time it is more essential than ever that we demonstrate to our customers in the U.S. government that we can solidly unite as a division to
(Continued on Page 2, Column 4)

Apollo 10 Crew Ready for Return from Space

Trio Scheduled To Move into Trans-Earth Path Tomorrow

The Apollo 10 crew, having swept twice to within 10 miles of the moon's surface yesterday, today were to continue in lunar orbit and then head for home early tomorrow morning.

According to the flight plan in effect as of *Skywriter* press time, Astronauts Tom Stafford, John Young and Gene Cernan were to fire the service propulsion system engine shortly after 3 a.m. (PDT) tomorrow and place themselves on the transearth trajectory.

The spacecraft was to splash down shortly before 10 a.m. (PDT) Monday in the Pacific Ocean some 400 statute miles east of Pago Pago, Tutuila, American Samoa, Apollo 10 primary recovery vessel, the helicopter carrier USS *Princeton*, is to be nearby.

Successful completion of the Apollo 10 mission is to be the final men-spacecraft flight test for Apollo 11, the lunar landing mission, which NASA has scheduled for July 16.

All aspects of Apollo 10 duplicated conditions of the lunar landing mission as closely as possible, including the sun angles at Apollo Lunar Landing Site No. 2 in the Sea of Tranquility, the to-and-from flight path to the moon, and the time line of mission events. Apollo 10 differed from Apollo 11 principally in that the actual lunar landing was not made.

Sunday, the Saturn V lifted off Complex 39B at Kennedy Space Center in a near-perfect launch, precisely on schedule at

9:49 a.m. (PDT), Royalty, diplomats, business and civic leaders joined hundreds of news media representatives and thousands of citizens who converged
(Continued on Page 3, Column 3)

Atwood Receives Honorary Degree from Clark Univ.

J. L. Atwood, president and chief executive officer of North American Rockwell, was among four persons receiving honorary degrees from Clark University, Worcester, Mass., Monday. Atwood, general chairman of the Goddard Library Program, has been a leader of the national effort to create the Robert Hutchings Goddard Library at the university.

Atwood shared honors with Jack S. Parker, chairman of the program's Electronics Corporations Division, and vice chairman of the General Electric Company; Sen. Edward M. Kennedy, the principal speaker, and Air Force Col. Edwin E. Aldrin, Jr., astronaut. Atwood, Parker and Kennedy received honorary doctor of laws degrees and Aldrin received an honorary doctor of science degree.

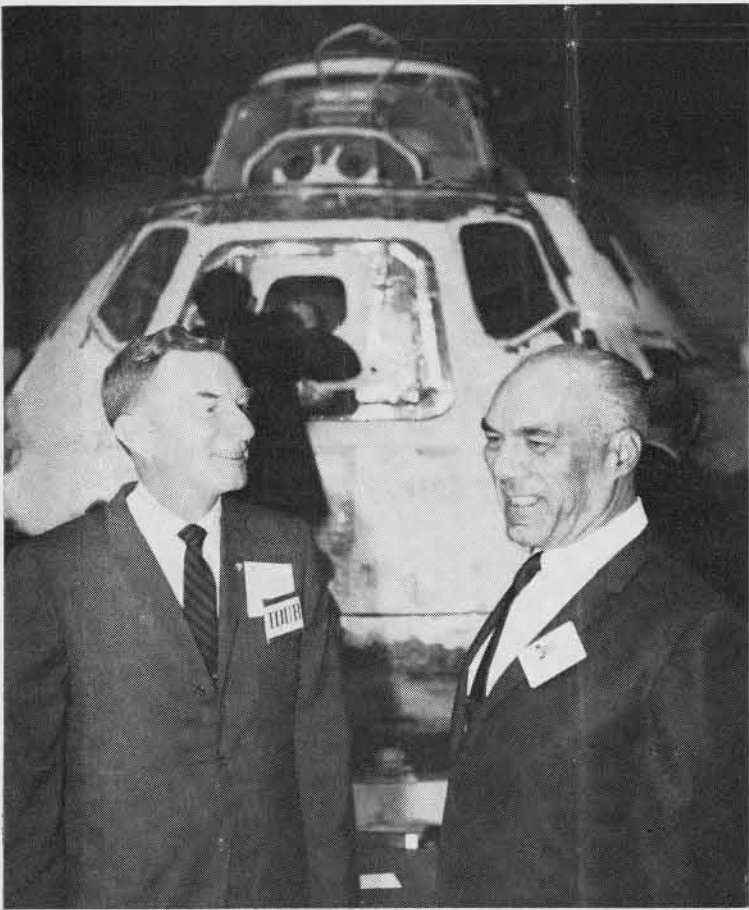
The Goddard Library Program, which Atwood, Parker and others have been leading, is a \$5,400,000 effort to build and endow Clark's new library as a tribute to the "Father of the Space Age."

NO HOLIDAY 'SKYWRITER'

Because of the Memorial Day holiday Friday, no Space Division *Skywriter* will be published next week. Next issue will be published June 6.



SAVINGS PLAN — Division President William B. Bergen reviews Payroll Savings Plan poster with Walter Epps, Jr., division's U.S. Savings Bond campaign chairman. Drive is June 2-13.



ASQC TOUR — Discussing innovations in quality control are, right, Ray Martin, director of Central Quality and Reliability Assurance, and William Hedeman, president of National Assn. of Purchasing Management. Hedeman was among guests of division last week during tour by American Society for Quality Control.

Market Place, Not Government Fiat

ROCKWELL SUGGESTS GROUND RULES FOR MERGER ACTION

The free competitive market place, not a government decree, should remain the final decisive test for multi-market business ventures, W. F. Rockwell, Jr., chairman of the board, North American Rockwell, has told a meeting at Town Hall in Los Angeles.

Defending constructive merger programs, he said they "attempt to build solid companies that can survive the tests of competition and become long-term contributors to the economic and social growth of the communities in which they exist."

"The government," Rockwell said, "is going beyond just saying that, from an anti-trust point of view, a certain merger isn't allowable. Now they're saying what's proposed in the merger is not economic."

The North American Rockwell board chairman, who has been involved in more than 30 mergers or acquisitions over the past 11 years, said that government should limit itself to three considerations when mergers are being proposed:

First, to assure the investing public that all the relevant facts surrounding a merger or acquisition are available for review.

Anti-Trust Enforcement

Second, to enforce the anti-trust and other regulatory provisions of existing legislation, and

Third, to consider and pass new legislation when it seems appropriate.

Beyond that, Rockwell contended that industry must be allowed to take business risks, with their chances of success or failure, after thorough investigation of the merits of any merger. The private market place then would be the battleground, as it has always been, for testing the economic wisdom or lack of wisdom for any lawful merger or acquisition.

LUNAR EXPERIMENTS TO CONTINUE AFTER APOLLO 11 RETURN

When American astronauts return to earth after the first lunar landing, they will have set the stage for continued lunar experiments.

NASA says that chief among these will be ALSEP — Apollo Lunar Surface Experiments Package.

This is designed to perform a variety of geo-physical, geodetic and particles and fields measurements after the astronauts have gone.

Lunar quakes, tides, free oscillations and the steady state net heat flux of the moon's interior will be recorded along with elastic properties of the lunar crust to a depth of about 500 feet.

W. A. Chapin Featured at Quality Control Meet

W. A. Chapin, of Ocean Systems Operations, was the featured speaker for the monthly meeting of the Valley Section of the American Society for Quality Control.

Chapin participated in the development of the quality assurance function for OSO. He is a past vice chairman of the ASQC's Los Angeles Chapter.

Voices from Space

Intelsat III satellites can carry 1,200 two-way voice circuits or four color television channels simultaneously. The communication satellites are launched by the National Aeronautics and Space Administration and operated by the International Telecommunications Satellite Consortium.

DIVISION SEEKS TO CAPTURE NEW SPACE STATION CONTRACT

The division has mounted a major effort toward capturing a study contract for a NASA space station scheduled for operation in the mid-1970s. Heading the division effort is Dr. Ian Dodds, manager of manned spacesystems, Advanced Programs.

There are to be two space station program definition contracts awarded, one each to be monitored by the Manned Spacecraft Center, Houston, and the Marshall Space Flight Center, Huntsville.

NASA headquarters released to industry late last month the Request for Proposals (RFP). Proposals are to be submitted to the Office of Manned Space Flight June 9. From these proposals, two firms will be selected around mid-summer to perform 11-month studies under cost-plus-fixed-fee contracts.

Major effort of the \$5.8-million parallel studies will be toward development of a 12-man earth-orbital space station by 1975. The station would be

designed to have an operating life of 10 years, subject to re-supply of expendables and rotation of crews via logistics vehicles. This is envisioned as the first step toward a large space base.

The work will include conceptual design of a 50-man space base made up of specialized modules assembled in low earth-orbit in the late 1970s or early 1980s. The base would be a centralized facility comparable to a scientific and technical research, development and operations center on Earth.

Scientists and engineers could use its unique features, such as weightlessness, vacuum, earth-viewing and celestial-viewing, for a variety of research and applications activities.

Several concepts of advanced space shuttles will be evaluated by NASA to select the most economical means of supplying a large space base. Each shuttle concept will be required to have the capability of landing at precise locations.

'JUST LIKE A NAGGING HOUSEWIFE'

Signals, Lights Comprise Apollo Nerve System

Warbling signals and nagging red lights remind astronauts to check a temperature, push a button or solve a problem onboard the Apollo spacecraft.

"The Apollo caution and warning system is like a nagging housewife," says Al Kehlet, Space Division spacecraft manager.

"It's the nerve system that senses out-of-tolerance limits in the spacecraft and alerts the crew to a possible malfunction."

The caution and warning system gathers information from about 70 points in the command and service modules which will carry three astronauts to the moon.

The network of nerve-type sensors is extremely sensitive to variations beyond normal range.

So precise is the warning system's nerve center that during one mission, astronauts outfoxed it by prematurely turning on fans to lower the heat and pressure in the service module's hydrogen tanks. A sensor, whose limits had been set too high, had insisted on touching off the alarm during all hours, including those reserved for sleep.

A problem touches off the nagging warning system and a steady red master alarm light appears along with the audio tone in the astronauts' headsets.

The astronauts then turn to check the panel of lights which will pinpoint the potential trouble area. There, if the problem is in a vital life support system, the light will indicate it by again glowing red. If the light is yellow, the problem is not major.

Bergen . . .

(Continued from Page 1, Column 3) achieve a given goal. I believe that goal should be 100 percent participation in U. S. Savings Bond payroll sign-ups."

Epps explained that "Each and every employee will have the opportunity to sign up during the campaign. Permit me to emphasize that we consider this a team effort and we want each division employee to join the team. We want your participation, even if you sign up for only a fifty-cent weekly deduction. Of course, the more you sign up for, the more you'll be saving."

Three Experts . . .

(Continued from Page 1, Column 1) boats.

"In these few years more has been achieved than in all recorded history before.

"And, by the same token, this achievement points the way, in the next 75 to 100 years, to accomplishments which even the most inventive science fiction writers cannot imagine.

"Considering that nuclear energy has not yet been harnessed to power spacecraft, the possibility exists that by the time our grandchildren become grandfathers and grandmothers it will be common for man to travel in space not only to the moon but to the planets.

"What's it all worth? Why do it? What has been accomplished?"

"Cynics will say 'nothing. It's all a waste of money and lives.' But others will take a more charitable view; the flight of Apollo . . . really is just one more step in man's quest for knowledge, in his never-ending effort to attain the unattainable.

"Striving for goals . . . is what separates man from animals . . ."

Astronauts may turn off the initial master alarm light and warbling that first brought the problem to their attention. But a red or yellow light will continue to pinpoint the location.

The caution and warning system even monitors itself. Should it malfunction, it confesses and tells the astronauts with an appropriate signal.

New Computer, Related Courses To Begin Soon

Eight after-hours courses for division personnel will begin next month, H. S. Hill, manager, Manpower Development, announced last week.

Course titles (and starting dates) are: The Computer in the Engineering Design Process (June 3); Digital Mathematics (June 4); Physical System and Circuit Analysis by Digital Computer (June 5) Industrial and Radiation Safety (June 5); Computing Systems Fundamentals (June 12); Programming Systems, Part A (June 23); Digital Computer Concepts (June 24), (June 28).

E. G. Christiansen, supervisor, Manpower Development, said that two additional courses, Basic Shop Mathematics and Mechanical Blueprint Interpretation, are planned.

Additional information on these and other courses may be obtained from Manpower Development, Ext. 1165-6.

Women Sought for Softball League

The division Women's Softball League is looking for players to round out its team rosters.

League play began Wednesday, May 20, with games scheduled on Tuesdays at 6 and 7:30 p.m. at the Downey Recreation Center. Interested women should contact Cheryl Pellicano at Downey Ext. 1723.



WHEELER DEALERS — Trio of company employees and their wives left last week on 7,000-mile motorcycle trip that will take them through 23 to 26 states, including stops at NASA's Manned Spacecraft Center, Houston, Tex. and Kennedy Space Center in Florida. From left are Al Sommers of Space Division's Apollo Manufacturing and wife Leah, and Autonetics employees D. P. Ekins and wife Laura, Ray, right, and Donna Muth.

SOME TIPS ON PHONING

Casnet Provides Many Employee Benefits if Used Properly — Gere

Donald W. Gere, manager of Security and Communications, is pleased at the service to Division employees available via CASNET; he believes that even greater service may be available if CASNET dialers knew more about the proper use of the system.

Toward acquainting personnel with correct employment of the system, Gere is passing along the following list of questions and answers assembled by the division Conservation Committee:

1. When I dial a CASNET off-net number, is this recorded? Is there a charge?

Yes. An off-net CASNET number is recorded in the same manner as directly dialed calls you make from your home. Certain toll and message units are added on calls into metropolitan areas from the destination of the call to the nearest Network point.

2. Why should I use 91, 92, or go through the operator on calls to area code 213? Is not this more costly?

No. Local calls on CASNET, except calls to other NR divisions, cost more than ninth level calls. The CASNET system is designed for economical long distance usage. The number of lines available is limited. To tie-up CASNET lines on local calls, which are more numerous, delays long distance calls and defeats the purpose and economy of CASNET.

'The Book of Mars' Released by NASA

"The Book of Mars," a one-volume digest of facts and theories about the planet, has been released by NASA.

Written by Dr. Samuel Glassstone, the book represents the baseline of man's knowledge of Mars. It is illustrated by telescopic views and other photographs taken during NASA's 1964-65 Mariner IV mission. The book also contains maps, drawings and charts.

The 314-page "Book of Mars" (NASA SP-179) is available for \$5.25 from the U. S. Government Printing Office, Washington, D. C. 20402.

Apollo 11 Astronauts Train for Mid-July Lunar Landing

While attention this week focussed on the windup of the Apollo 10 flight, the Apollo 11 astronauts were busily continuing their training for the planned mid-July lunar landing mission.

Prime crewmen Neil Arm-

Apollo Applications Slates 'Festival in Madrid' Fete

Apollo Applications Program will present a "Festival in Madrid" dinner-dance Friday, June 6, beginning at 7 p.m. at the Golden Sails Restaurant, 6285 Pacific Coast Highway, Long Beach. All division personnel are invited. Tickets at \$7.50 per person covers a medallions of beef dinner, door prizes, entertainment and dancing. Dress is semi-formal.

3. I have heard that there is a charge every time I dial "8" for access to CASNET. Is this true? Please explain.

Each time you dial "8" and gain access to CASNET, this call is recorded and charged to the Division as one call even though you get a busy signal at the number you are calling. That is why it is requested that if you receive a busy signal from the number dialed after gaining access to CASNET, you should wait a reasonable time before dialing again. These usage figures are the basis for prorating the telephone costs to the divisions. The call is not recorded if you get a busy signal when you dial "8"; only if you acquire the CASNET dial tone.

4. Is not CASNET a leased wire service wherein the more calls you make the cheaper the individual call becomes?

Yes. CASNET is a leased network and the cost per call goes down generally with volume. However the network is sized to accommodate the volume and if unnecessary calls cause the load of the network to increase, the CASNET costs go up. As always, even with CASNET, company telephones are to be used for business calls only.

5. Can CASNET be utilized by employees on the road? If so, how?

Yes, CASNET may be utilized by employees on the road by following the instructions in NR Form 501-A-1, Revised 3/68. The use of the special telephone numbers in that form by persons on company business trips will result in fast and efficient service at reduced telephone costs. These forms are available in the Division travel section. Additional information on use of CASNET by travelers will be forthcoming.

6. Do other companies have CASNET and can we dial them direct?

Other companies have similar telephone systems but CASNET is an acronym for Centralized Automated Switching Network and refers only to the North American Rockwell telephone network. Calls to other companies are off-net calls and involve additional costs.

strong, flight commander, and lunar module pilot Ed Aldrin and backup crewmen Jim Lovell, commander, and Fred Haise, lunar module pilot, last week trained in a giant vacuum chamber at NASA's Manned Spacecraft Center under conditions simulating the vacuum and thermal environment of the lunar surface.

Armstrong and Aldrin are scheduled to be the first persons to set foot on the moon. Purpose of the training is to further familiarize the astronauts with the equipment they will use and the tasks they will perform on the lunar surface.

The crewmen used the entire Apollo Extra-Vehicular Mobility Unit (EMU), which includes their pressure suit, portable life support system and oxygen purge system.

Apollo 10 Crew Ready . . .

(Continued from Page 1, Column 5) at the Cape to witness the "bird" soar skyward, trailing an inferno of orange.

Following a successful test last month at NASA's Mississippi Test Facility, the center engine of the Saturn S-II second stage's five engines was intentionally shut down early during the Saturn V boost phase to suppress longitudinal oscillations, or vibrations, which occurred late in the S-II's six-minute burn period during Apollo 9 flights. The S-II's four outboard engines burned longer to deliver full S-II thrust.

Some three hours into the mission, the astronauts enthusiastically presented viewers throughout much of the world the first color TV transmission of the global earth. Like a gem displayed on black velvet in a jewelry shop window, the earth appeared "in incredible beauty" as a multi-colored jewel against the void of space.

Monday and Tuesday, armchair astronauts on earth again viewed the receding earth and were shown unusually clear transmissions of crew activities aboard the command module.

Wednesday, the intrepid trio arrived at the vicinity of the moon and began the first of 31 scheduled revolutions of the moon. Television transmissions brought to mind the first lunar orbital mission, Apollo 8, last December.

Thursday: Command module pilot Young saw Stafford and Cernan in the lunar module

undock from the CSM and place themselves into an orbit which took them twice to within 10 miles of the lunar surface.

Some eight hours later, the CSM docked with the LM and Stafford and Cernan, now bearing the imprint of lunar history, rejoined Young in the command module.

Today, the crew rested and continued in lunar orbit. A 40-minute TV transmission is scheduled for 4:08 p.m. (PDT). All three networks are expected to record this transmission for later showing tonight.

Tomorrow, the critical SPS engine burn for trans-earth trajectory is scheduled for 3:08 a.m. (PDT). The crew will then rest until a scheduled course correction at 6:08 p.m. (PDT), followed almost immediately (at 6:23) by a 10-minute telecast.

Sunday will be a day of rest for the astronauts. A course correction burn is scheduled for 6:38 p.m. (PDT).

Monday, following the final flight TV transmission at 4:38 a.m. (PDT) and a final course correction (scheduled for 6:38 a.m.), the command module and service module are to separate around 9:30 a.m. (PDT) and to begin entering the earth's atmosphere. Splashdown, slated for about 9:50 a.m., will be carried live over the division's sound and video systems.

Rolling Motion . . .

(Continued from Page 1, Column 2) to roll at this rate without additional thrust.

The only other manned mission in which the rolling would do no good because the Apollo 8, the first lunar-orbit trip.

Space Division engineers said that during the coast toward the moon and then back again, the spacecraft is maintained at an angle, or attitude, that keeps it broadside to the sun.

If it had its nose pointed toward the sun the revolving would do no good because the front of the spacecraft would be constantly exposed to the direct rays of the sun. The same would be true if the bottom of the spacecraft were pointed toward the sun.

Jurist Chairs Session at IDEP Conference

Irving Jurist, Space Division representative for the Interagency Data Exchange Program and a member of the Contractors Advisory Board, is chairing a session this week in Baltimore at the Seventh Annual Workshop Conference of IDEP.

IDEP, chartered by the Army, Navy, Air Force and NASA, has more than 200 participating aerospace/defense contractors and government activities in the United States and Canada, all centered around mutual exchange of technical data.



BUC TRIMMER — CSM personnel have edged into first place in cumulative annual Buc Trimmer trophy competition, with only two more months to go. Positioning trophy for all CSM personnel to enjoy are (left to right) L. M. Tinnan, M. I. Drucker and J. J. Edwards, Jr. S-II is in second place in annual race.

Press, Television Media Briefed on Apollo 10 Flight

Press, radio and television media in New York, Washington, D. C., Chicago and Dayton in the past weeks were briefed on the Apollo mission and the role of Space Division hardware in the flight.

Don Patterson of Apollo Mission Support and Al Kehlet, Apollo assistant program manager for Spacecraft 10 and 11, addressed the press in Chicago and New York. Patterson and Dale Myers, vice president and general manager of CSM Programs, briefed newsmen in the nation's capitol.

Later Patterson teamed with Tom Kelly, Grumman's lunar module assistant program manager, in a two-hour presentation before the Aviation/Space Writers Assn. in Dayton. Following them during the event, AWA's 31st annual meeting, was Charles Mathews, NASA deputy associate administrator for Manned Space Flight, who gave a status report on AAP.

Lunar Surface Studies

Some 113 scientists or scientific groups currently are scheduled to study lunar surface materials, to be brought back from the first Apollo lunar landing.

CSM Takes Over No. One Spot in Trimmer Trophy

CSM personnel, by dint of winning the monthly Buc Trimmer award for April as well as March, have edged into first place in the annual Trim Cost Program competition.

With a cumulative total of 88 points, CSM leads Saturn S-II by one point in the annual race for permanent possession of the Buc Trimmer trophy. The annual competition ends June 30. Material is third with 85 points.

Last July, first month of the annual competition, CSM was in seventh place, eight points behind Saturn S-II. To arrive at the top, CSM has won first place in the monthly standings six out of the last eight months.

Special Honor

Worthy of special mention is Contracts and Pricing which leaped from 10th place in March to second place in April in the monthly standings. Contracts and Pricing is seventh in the cumulative total.

Top 10 for the month of April were CSM, Contracts and Pricing, Saturn S-II, Material, Quality & Reliability Assurance, Research, Engineering & Test, Administration, Financial, Launch Operations and Manufacturing and Facilities.

Outstanding individual contributors during April were R. J. Dingman, Administration; J. J. Edwards, Jr., M. I. Drucker and L. M. Tinnan, of CSM; D. W. Davis, Financial; J. A. Lightfoot, Management Planning and Controls; D. E. Rosenberger, Manufacturing and Facilities; Ernest Thompson, Quality and Reliability Assurance; James Bates, Research, Engineering and Test, and D. W. Triplett, Saturn S-II.



FIRE FIGHTERS — Members of Cryogenic Committee of California Fire Marshall's Assn. review proposed state ordinance for transportation and handling of cryogenics during meeting held at Downey. From left are Don Fox of Industrial Safety, a guest representing industry; Charles Chapman of Southern California Gas Co., and firemen Bob Travis, Culver City, Bill Hargett, city of Los Angeles, and Barney Dickey, LA County.

NEW AIR CONDITIONING TO BE INSTALLED IN BLDG. 2, DOWNEY

A \$390,000 contract calling for the rehabilitation and re-equipment in Bldg. 2 at Downey has been awarded by the division.

The Western Allied Corp. of Santa Fe Springs will begin work on the project the first part of next month with completion scheduled next January, said W. J. Leseman Jr., director of Facilities and Industrial Engineering. Wayne Graham of Downey Facilities and Industrial Engineering is project engineer for the division.

Graham said that no personnel relocations will be required. The majority of the work will be on the exterior and roof of the building. He did point out he expects minor inconveniences

to occupants of the building during some phases of the construction.

The project is planned so that work will be done on one quarter of the building at a time. Primary occupants of Bldg. 2 are Research, Engineering and Test, Marketing and Advanced Programs.

Under the work project, said Graham, all the air conditioning, refrigeration and cooling equipment for the building basically will be centralized on the south side of the building. The projects will improve the reliability and flexibility of the system, reduce the cost of maintenance and repair, and also provide a backup cooling system for Bldg. 4.

Stellar Chapter Installs New Officers in Downey Ceremonies

Four division secretaries were among the new officers installed by the Stellar Chapter, National Secretaries Assn., in a dinner meeting recently.

The annual installation ceremonies were held in the Bamboo

Room at the Tahitian Village in Downey.

Accepting the gavel as the chapter's new president was Donna Wales of Apollo Manufacturing. Nola Richardson of Apollo Engineering is the new second vice president, Mary Ann Gravely, Apollo Applications Program, is the new recording secretary, and Muriel Burke, Research, Engineering and Test, assumed the post of corresponding secretary.

Why Explore the Moon? NASA Gives Reasons

Why explore the moon? NASA says the goals of lunar exploration fall into four categories. These immediate goals are:

To develop a comprehensive understanding of the lunar surface and interior;

To develop a perspective in understanding our planet and our solar system through comparative studies of the moon;

To establish the role of the moon in future scientific investigations and space flight operations, and,

To develop broad technological and operational space capabilities in support of national interests.

Division Golf Tournament of Champions Set

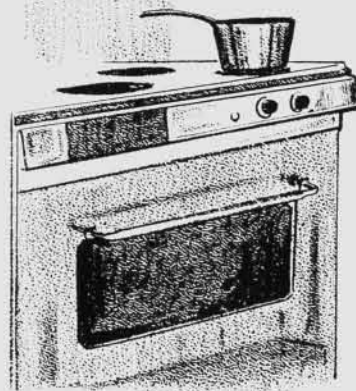
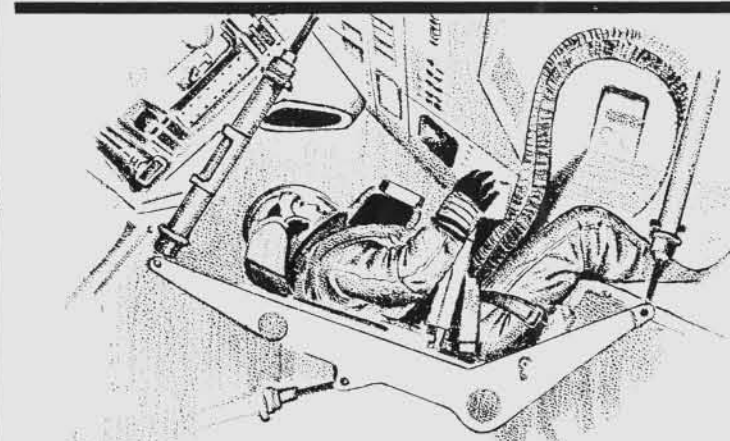
Division Tournament of Champions will be held June 14-15 at the Carlton Oaks Country Club in Santee.

Registrations will be taken at Recreation and Welfare Offices in Downey and Seal Beach June 2-6. No applications will be accepted after 4 p.m. June 6.

Division golfers may pick up eligibility rosters at either Recreation Office. To be eligible, golfers must have won a first place trophy in a handicap Flight between June 9, 1968 and June 14, 1969, and have competed in at least three monthly golf tournaments.

Entry fee of \$5 will be payable at the time of sign-up. Fee covers two days of golf and a Sunday buffet.

HOW ABOUT THAT!



THE APOLLO SPACE-CRAFT COMMAND MODULE WHICH WILL CARRY U.S. ASTRO-NAUTS TO AND FROM THE MOON USES ONLY 2000 WATTS OF ELECTRICITY, ABOUT THE SAME AS THAT REQUIRED BY THE OVEN IN AN ELECTRIC RANGE.

REGISTRATION BY JUNE 1

Third Annual Company Swim Meet To Be Sponsored by Space Division

The third annual North American Rockwell Corporation Swim Meet, sponsored by Space Division, will be held Saturday, June 14, beginning 9 a.m. at Warren High School, 8141 DePalma Ave., in Downey.

The invitational meet is open to children and grandchildren of company employees of all divisions, and of Air Force and NASA representatives at the company.

Swimming competition will be offered for boys and girls in age groups ranging from 6 through 17 years in freestyle, breast stroke, butterfly and individual medley events. A special event will be held for mini-

citizens four years and under.

Information sheets and entry cards are available at all company Recreation and Welfare offices. Entries must be received (or postmarked) no later than midnight, June 1. A fee of 50 cents must accompany each event.

Trophies will be awarded for first, second and third place. Ribbons will be given to fourth, fifth and sixth-place finishers and to all heat winners.

Additional information may be obtained from Roger Lawrence, meet coordinator, Space Division Recreation and Welfare Office, Seal Beach, Exts. 4018, 5198.

Travelers Advised to Pick Up Travel Accommodation Packets

Division travelers are finding it easier to pick up their travel accommodation packets.

Travel packets are available for pickup by the traveler or designated employees at the Mail Room used by the requesting department. The packets, which include airline tickets and hotel/motel reservations, normally will be available the working day prior to the traveler's day of departure.

Request Rules

To obtain the packet, the requestor should present the blue copy of his signed Travel Authorization (Form 84-L) to the Mail Room attendant and sign a receipt, said Hal Macrum, supervisor of Traffic Services.

All initial requests for travel accommodations will continue to be made through Traffic, Downey Exts. 3801-2-3. The traveler should give the travel reservationist his Mail Room at the time the reservations are made.

Generally, employees in Bldg. 1 will pick up their packets in the Bldg. 1 Mail Room; Bldg. 6, 290 and 288 personnel will obtain theirs from the Bldg. 6 Mail Room; persons in Bldgs. 2 and 4 will use the Bldg. 2 Mail Room, and Bldg. 5 employees will use the Bldg. 5 Mail Room. Persons in Bldg. 3 will continue to pick up their tickets at the Reservation Counter in Bldg. 3.

Society's Honors Are Presented to Cerquettini

"Man of the Year" honors have been presented by the Western Section of the Society of Plastics Industry to C. S. (Tony) Cerquettini of Saturn S-II Manufacturing Engineering.

Cerquettini was cited for his development of innovations and his contribution of ideas for the use of plastics. Noted as his most important contribution was his involvement in the development of plastic spray foam, methods of application and foam-machining tooling.

FRANKLIN AIDS SHERIFFS

Paul Franklin, manager of support programs and technology exploitation, Advanced Programs, has been appointed a member of a Los Angeles County Sheriff's Department new task force to study the impact of science and technology on crime.

Science Payloads

Science payloads of 1,000 to 2,000 lbs in lunar orbit and 1,000 to 8,000 lbs on the lunar surface appear feasible for extended Apollo missions, according to NASA.

Parker Named Ass't. Division Director, RE&T

William F. Parker has been appointed assistant division director, Research, Engineering and Test, reporting to the vice president, RE&T.

Parker, a veteran space engineer, formerly was deputy program manager for the Saturn S-II. He was one of the first engineers in the country to enter the field of guided missile engineering and is an expert on large liquid rocket booster systems.

Parker was graduated from the University of Michigan in 1939 with a BS degree in Aeronautical Engineering. In 1958, he was cited by the University for his contributions to the aeronautical engineering profession.

Active in professional societies, Parker during his career served two successive terms as a member of the American Institute of Aeronautics and Astronautics Technical Committee on Management.



William F. Parker

SPACE DIVISION Skywriter

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Classified Ads

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AUTOS		REAL ESTATE	
'67 Cougar, air, AM/FM, tilt & pwr steering, tinted glass. Clark (D), 322-9242.		Cabin, fully furn. fireplace, year round livability, or seasonal rental. Sorrells (D), 454-2107.	
'61 Porsche, Remove/top, \$2,000, EA 2-3740.		FURNITURE	
'65 VW, 714/538-2968.		Bed, Headboard, upholstered chairs, end tables, lamps, rugs, hassock. Murphy (D), 785-5013.	
'64 VW, \$900, 714/826-8753.		PETS	
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'68 Malibu, \$2,700, w/everything, GA 6-4396.		Guppies, Show Veils, \$1.50 for pr., 596-6498.	
'67 Camaro, 6 cyl., 3/spd., Am/Fm, DA 6-7743.			