

Space Division Skywriter

Downey, California Volume 29 Number 32 August 15, 1969



Apollo 11 Module Comes Back to Downey Home

Columbia on Display WORDS OF THANKS Saturday, Sunday for **Employees**, Families

The historic Apollo 11 Command Module has returned to Downey and will be on display this weekend for employees and their fam-

The spacecraft will be on display in Bldg, 247 from 6-9 p.m. today and 9-5 p.m. tomorrow

Since splashdown July 24, the craft, code-named "Colum-LRL VISIT — Apollo 11 Command Module Pilot Mike Collins visited the CM in NASA's Lunar bia," was taken aboard the Receiving Laboratory, Houston, before he, Neil Armstrong and Ed Aldrin were released from U.S.S. Hornet prime recovery quarantine Sunday. The spacecraft will be on display this weekend for employees and families. (Continued on Page 2, Column 3)

When the Apollo 11 command module hatch was opened for the first time at the Manned Spacecraft Center Lunar Receiving Laboratory in Houston, a NASA of-

employees with a smile. Inside the command module crew compartment, on a panel just to the left of the sextant, there was the following handwritten note:

ficial turned to assisting SD

'Spacecraft 107, alias Apollo 11, alias Columbia . . . the best ship to come down the line. God Bless Her.

/s/ Mike Collins, C.M.P.

Highland Named SD Coordinator

Robert Highland, former supervisor, Saturn S-II Engineering, has been named coordinator between the division and North American Rockwell Training and Services (NAR-TRANS).

Highland, who has been with serve as a point of contract developing for division personnel desiring to make use of NAR-TRANS capabilities.

SCIENCE SEMINARS

The following seminars will be held at the Science Center this month:

Seminar: "Ferromagnetic Resonance in Thin Films," Aug. 22, 10:30 a.m.

Seminar: "Thermodynamic and Transport Properties of Solid Electrolytes," Aug. 29, 10:30 a.m.

and Sunday. Parking will be available in Lot 18, southeast corner of Imperial Hwy. and Bellflower Blvd. Visitors will procede afoot through Gate 45B.

LRL VISIT — Apollo 11 Command Module Pilot Mike Collins visited the CM in NASA's Lunar bia,"

BERGEN ANNOUNCES SHIFTS FOR MYERS, GREER, OTHERS

President William B. Bergen | basic CSM effort, this week announced shifts in strengthen the division's new business posture.

Myers, formerly vice president and general manager, Apollo CSM Programs, is now vice president and program manager, Space Shuttle Pro-

Greer, formerly vice president and program manager, Saturn S-II, becomes vice president and general manager, Space Station Program.

In other moves, George W. Jeffs, program vice president, Apollo CSM Program, now fills the position of vice president CSM Programs, and, Harold Raiklen, formerly S-II chief engineer, becomes S-II program vice president.

The Apollo organizational change combines the Apollo Applications, Apollo Lunar Explor-

In July, NASA awarded the assignments for Dale D. Myers division one of two \$2.9-million ployees to help them select the Space Division personnel. Emand Robert E. Greer, to parallel study contracts to design and plan a space station which could reach flight status by the mid-1970s. Logistics systems to re-supply expendables and rotate crews of both the Space Station and, later, the Space Base, are included in the

> Modified existing spacecraft designs will be considered as initial logistics systems for the early phases of the Space Station Program in the event advanced space shuttle does not become available sufficiently early, NASA said.

Myers joined the company in 1943 as an aeronautical engineer and was project aerodynamicist on several airplane programs. Beginning in 1957, he led the team that designed, built and delivered more than 500 Hound Dog missiles for the Air ation Mission (ALEM) and the (Continued on Page 2, Column 1) gineering and Test, has walked, Nearly three years ago, Lip-

Space Division Employees Asked by Astronauts To Name Apollo 12

The Apollo 12 astronauts ing," he concluded.

ve asked Space Division emhave asked Space Division emcommand and service modules the lunar module, are being remission planned for mid- name for the LM. November.

personnel this week, astronauts Charles Conrad, Richard Gor- crew for the launch. don and Alan Bean pointed out that "you have earned the right tronauts, employees received a to aid us in making our selec- card on which to submit the tion through the invaluable con- code name of their choice. A tributions you have made to the lunar landing program. Your Page Four of this issue of the work at Space Division on both News. the spacecraft and the Saturn

code name for the division-built ployees at Grumman, who build the company eight years, will that will take them to and from quested to aid the Apollo 12 the moon in their lunar landing crew in the selection of the code

The person submitting the In a letter sent to division name chosen and his or her spouse will be the guests of the

> With the letter from the ascopy of the form appears on

Along with submitting a code S-II stage has been outstand- (Continued on Page 4, Column 3)

Lipjanec Likes To Walk, Not Run, on Mountains

Paul Lipjanec likes to walk.

systems analyst. Research, En- down the slopes of mountains.

One would have to say that or hiked more than 500 miles in janec stopped being a scoutaul Lipjanec likes to walk.

Lipjanec, senior management much of that mileage up and for Mountaineering Explorer Post 400X in South Gate.

Walking blends two of Lipjanec's interests-mountaineering and conservation. He and the nine teen-age boys in the Explorer Post have climbed 'just about every mountain worth scaling in Southern California. In September, we're going to climb Mt. Whitney, highest peak in the continental United States."

Bucking a trend, Lipjanec does not favor jogging-at least for himself.

LABOR DAY

Monday, Sept. 1, Labor Day, will be observed as a holiday. Regular work shifts will be in effect on Tuesday,

Only employees needed for special assignments will work on Sept. 1. Those required to work will be so notified by their supervisors.

Employees will receive eight hours' pay for Labor Day in accordance with existing pol-



EXECUTIVE GREETINGS - In photo at left, Vice President Spiro Agnew is greeted by J. L. Atwood, North American Rockwell president and chief executive officer, as former arrived for astronaut ceremonies in Los Angeles. Partly hidden by Atwood is



NR Executive Vice President Robert Anderson. Right photo, Defense Secretary Melvin Laird shakes hands with W. F. Rockwell, Ir. NR chairman of the board, as Los Angeles Mayor Sam Yorty exchanges pleasantries at center. Photo was taken at airport.



DRIVERS OF MONTH - J. E. Adams, left, manager, Distribution and Traffic, congratulates June winners of Driver-of-the-Month Awards. Winners, from left were: O. E. Kirby, chauffeur; Phil Burks, in-plant material handling, second shift, and M. E. Rommereide, who works for in-plant material handling, 1st shift.

Bergen Announces Shifts

ident and program manager for February, when he became vice president and general manager, CSM Programs.

major general, joined the company in July, 1965, after having space programs. A 1939 graduate of the U.S. Military Academy at West Point, several Pentagon and overseas of the Air Force. He is a rated 3,500 flying hours,

the company in 1947 as a mem- last August. ber of the Aerophysics Laboratory in the Los Angeles Division. From 1962 to 1964, he was vice president and program manager for the division's Pa- * BE CREATIVE raglider spacecraft recovery

(Continued from Page 1, Column 2) | system. He joined the Apollo Force Strategic Air Command. Program in 1966 and served as In 1964, he became vice pres- assistant program manager and chief program engineer before Apollo, a post he held until last assuming the post as program vice president, Apollo CSM Program.

Raiklen joined the company Greer, a retired Air Force in February, 1949, also at the ajor general, joined the comserved in the Air Force from directed several key Air Force 1939-1945. He received his BS degree (1947) and his MS degree (1949) from the Massachusetts Institute of Greer's military career included Technology. At the Los Angeles Division he worked on assignments. At one time he was director of Special Projects in the Office of the Secretary and the B-70 program, and the F-100, F-108, F-86 series and the B-45 airplanes. Raiklen came to the Space Division in command pilot with more than December, 1965, as assistant chief engineer for the Saturn Jeffs began his career with S-II. He became chief engineer



Robert Greer



Dale Myers



Harold Raiklen



SPACE HISTORY IN MAKING

Noted Names on Rolls of Men for Lunar Missions

America's space program is reflected in the announcement by Apollo 14 missions.

Prime crew members for Apollo 13 are astronauts James A. Lovell, Jr., commander; Thomas K. Mattingly, II, command module pilot and Fred W. Haise, Jr., lunar module pilot.

For Apollo 14, prime crewmen are astronauts Alan B. Shepard, Jr., command and er; Stuart A. Roosa, command module pilot, and Edgar D. and Apollo 8. He will be the first person to have flown on two Apollo missions. Mitchell, lunar module pilot.

The crew for Apollo 12, named earlier, is composed of Charles "Pete" Conrad, commander; Richard Gordon, command module pilot and Alan Bean, lunar module pilot.

All three missions will include lunar landings and exploration. Landing site No. 7 in the Ocean of Storms was selected by NASA for Apollo 12. Landing sites for Apollo's 13 and 14 are expected to be chosen this fall.

Prime consideration in site selection will be to meet scientific objectives within operational capabilities, NASA's Manned Spacecraft Center, Houston, said.

Apollo Lunar Surface Experiment Packages (ALSEP) will be deployed on the Apollo's 13 and 14 missions, extending the distribution of scientific devices on the moon's surface.

For each of the three missions there will be two periods extra - vehicular activity (EVA). In each case the com-

Apollo 11 Home . . .

(Continued from Page 1, Column 4) ship, to Hawaii where division teams performed "safing" oper-

The command module was then flown to Houston.

Quarantine for both the astronauts and the spacecraft ended Sunday. The Apollo 11 astronauts, Neil Armstrong, commander; Mike Collins, command module pilot, and Edwin Aldrin, lunar module pilot, were reunitel briefly with their families and preparations were begun to ship the command module to Downey.

Wednesday was quite a day for the astronauts. In the morning, they were given a tickertape parade in Manhattan; in the afternoon, a heroes welcome in Chicago celebrated their epic lunar landing mission. Ceremonies Wednesday culminated in an official White House State Dinner at Los Angeles' Century Plaza Hotel. The banquet, lieved to be the first State Dinner held outside Washington, D. C., was attended by President Richard Nixon and hundreds of dignitaries.

Division teams who assisted MSC personnel in sterilization procedures at the LRL included Charles McKim, Gary Mortensen, W. G. Schmidt, Jr., Wilfred Anderson, Lino Salazar, Dennis Tucker, Bill Nasse, P. R. McCarley, Albert Backman, Ben Bolger and Charles Wilson. Also assisting at the LRL in Houston were Harry Peck and Resident Apollo Spacecraft Program Office, Downey.

Much of the history of mander and lunar module pilot are expected to be afoot on the lunar surface between five and Safety. NASA last week of the prime six hours compared with the crews for the Apollo 13 and slightly more than 2½ hours of EVA activity by Neil Armstrong and Edwin Aldrin during the Apollo 11 mission.

> be making his fourth space mission. He has already spent more time in space than any other human being. Previous missions include Gemini's 7 and 12,

For Mattingly, 33, a Navy lieutenant commander, and Haise, 35, a civilian, Apollo 13 will be the first space flight.

Apollo 14 will mark the re-turn to space flight of Shepard, first American

in space. His suborbital flight in Freedom 7 during Project Mercury, took place on May 5, 1961.

Shepard, a Navy captain, will be 46 four days after the



Lovell



Mattingly



Shepard



Mitchell Conrad



Gordon

Bean

commander will be making their

Roelands Named Safety Manager

Don Roelands, former manager of Reliability and System Integration for the Saturn S-II, has been appointed manager of

In making the announcement, Joseph P. McNamara, executive vice president, said that Roelands "will report to the vice president, Research, En-Lovell, a Navy captain, will gineering and Test, but will be responsible for providing direction and coordination for all Space Division safety activities."

Apollo Workers

A resolution introduced by Senate Leaders Mike Mansfield and Everett M. Dirksen has been passed by the Senate, expressing gratitude of the American people to those associated with the Apollo Program. The resolution reads:

"Resolved: That the Senate of the United States commends the magnificent effort of the men and women throughout the United States and the world at large, in government, industry, and education, whose contributions were so vitally necessary to the success of these achievements.

"Be it further resolved: That the Senate of the United States expresses its gratitude on behalf of itself and of all the American people for the dedication, courage and effort of all associated with the Apollo Program and the Apollo 11 mission."



Haise



Roosa



scheduled launch of Apollo 12 and thus, the oldest astronaut on flight status.

first space flights.



North American Rockwell News

J. S. Elliott Editor, Skywriter Judy R. Brown Assistant Editor Space Division Jack Kearney

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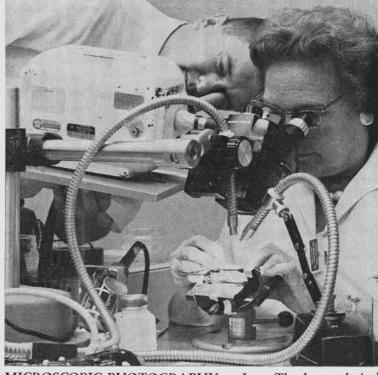
Technical Bookshelf

TECHNIQUES OF SYS-TEM ENGINEERING, by Stanley M. Shinners, McGraw-Hill Book Company, \$14.00 — 1967.

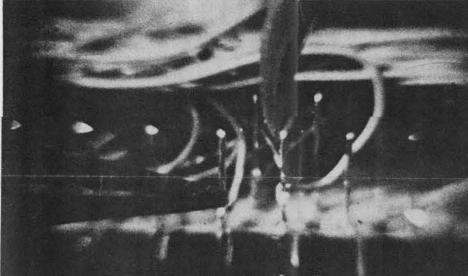
Here is the most complete and up-to-date work available on system engineering today. Covering more topics than any other book of its kind, the book is analytical in approach and es system theory proctical applications in a clear and unified manner. State-ofthe-art techniques are illustrated with current and planned applications in the commercial and military fields. The first seven chapters discuss system engineering theory as related to performance . . . reliability . . . schedule . . . cost . . . maintainability . . . optimization . . . testing . . . and the man-machine interface. These principles are then applied to the design of systems in the fields of trans-Houston were Harry Peck and Roosa, 35, an Air Force ma-portation . . . command and Al Manire, both of the NASA jor, and Mitchell, 38, a Navy control . . . fluidics . . . space . . . and instrumentation tracking radars.

STUDY OF EYE MOVEMENTS BEING ADVANCED AT AUTONETICS



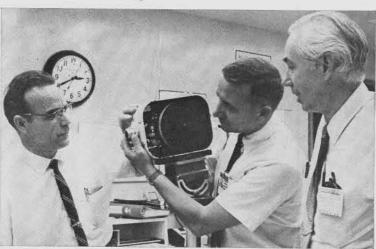


MICROSCOPIC PHOTOGRAPHY — Jerry Theaker, technical photographer, left, foreground, synchronizes equipment for filming the micro assembly. Beulah Abbott, Dept. 324, sets up assembly under microscope, as Howard Maples, manufacturing engineer, Autonetics Dept. 33, takes notes. Above, Theaker bore-sights movie camera to align it with Beulah's microscope.





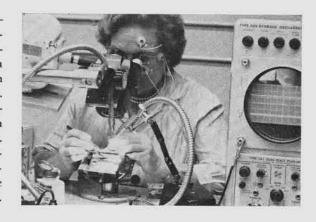
ELECTRO-OCULAROGRAPHY — Above right, Prof. Don B. Chaffin, Univ. of Michigan, right, Dan Clark, Autonetics AIM Program, set oscilloscope to monitor eye movements of assembler Beulah Abbott. Closeup, above, is greatly magnified view through microscope as she solders wires to connector.







MAGNIFICATION TECHNOLOGY — Above left, Jim Reasman of Autonetics, center, explains lens setting of high-speed camera to R. J. Zimmerman, left, of Sylvania and W. C. Thompson of TRW. At left, Dan O. Clark, left, takes data as Dr. Walton M. Hancock, University of Michigan, demonstrates eye-hand coordination board, with Jim Reasman observing. Above, W. C. Thompson and Clark analyze movie of microscopic operation. Electrodes wired to assembler Beulah Abbott, right, record her eye movements in the oscilloscope at right.







HEALEY-ARCS VS. TIGERS - Len Tinnan, right, vice presi- CAPACITY CROWD-Some 150 highly vocal partisans jammed Rec Center stands, saw the dent, Apollo Applications, congratulates John Healey, vice presi- Healey-Arcs score all runs in a wild third inning. Winning pitcher, Ted Lei, collected a single durdent, Manufacturing and Facilities, following the Healey-Arcs' ing the seven-inning game. Losing pitcher, Wayne Horning, rapped out the only extra-base hit, a victory, 3-0, over the Tinnan Tigers last week at Rec Center. double, held victors to one hit, a pinch-hitting single by Joe Cuzzupoli. Tinnan's Tigers got four hits.

Classified Ads

AUTOS Coupe, no eng./trans., 714-5 Chev. 893-1644 '56 Chev., 283 w/4 barrel, 879-6915. '65 Impala, 2 dr., \$1175, 941-0972. '67 Chev. Caprice, \$2200, 927-1093 Dodge Pickup-Util. Box, \$600, 863-66 Ford Fairlane, G.T. 390, 863-5627.

²65 Mustang, V-8, \$975, 714-828-3008. ²56 T-Bird, 431-4127. '62 Tempest, 4-cyl. auto. \$300, 862-6247.
'57 VW, \$275, 596-0645.

MOTORCYCLES-

'68 Honda 350 cc Scrambler, 862-2053.

MISCELLANEOUS-

53 Silverstreak 22' trailer, 633-3624. Stingray bicycle, 421-2935. Youth wheelchair, \$100, 714-826-4502. 4 8:25x14 tires, new \$40, 428-6534.

Piano Accordion, Rivoli, ½ price, TO 9-3821.

Chrome Osterizer w/Maly Attach. 714-547-8116.

6'8"x5' Glass Sliding Ext. Dr. & Screen, EL 5-1769. '58 Triumph Engine & Trans, 714-893-

VC 375 Radio Transmitter, \$100, 869-3971.

Silverstreak Trailer, 22 ft., 633-3624. Polaroid #230, \$40, 721-6536. 2 new 11-L-15 Tires, 682-4674.

Golf Clubs, full set, 920-2786 Elec. Cement Mixer, \$70, 213/943-2574.

Script Manual Typewriter, \$75, 714/879-6319.

*COST REDUCTION * BE CREATIVE

FOR SALE Mower, \$30, FR 2-5049. 59 Ranchero, amper for Amplifier & Speakers, \$325, GA 3-3661. 10 speed bike, 892-9834. 35mm Cannon Camera, 892-9834. DOXA Skin Diving watch, 714/636-3536, 8 M/M Bolex, 714/636-3536. Terry Trailer, 429-5568. Piano Accord, Rivoli, TO 9-3821 guitar, \$100, DA 9-0647

Yashika 8 string guitar, 438-2327.
Bari Sax, Gold Plated, \$300, 714/JE 7-3845. HOMES-

3 bdrm & Guesthouse, 2¾ ba., 925-6825 4 bdrm, pool, Canoga Park, 340-5863.

8' Unfinished boat, \$350, UN 3-9476 Venture 21 Sailboat, fully equipped, 714-528-9723.

yr. Beagle w/shots & papers, 423-2016. wks. old Chihuahua pups, 692-4382.

RIDE WANTED/OFFERED-Wanted, Bellflower to S.B., 7:30-4:00, 866-5648.

FOR RENT-

3 bdrm, den. Norwalk, 863-0547. Ocean Ft. apart., furn., 492-3674. Furn. cabin, Tahoe., weekly, 965-2344. Vac. hse. Mountains, \$50 wk., 632-4133. 2 bdrm Duplex, \$130, 862-6051. 3 bdrm cabin, Tahoe, 965-2344. Cabin, Big Bear, Sleeps 7, 598-4144. br Duplex Furnished, S.B., 431-0559. Vac. Trailer, Sleeps 5, 370-5136.
Fam. Vac. Mammoth Lakes, 714/846-3533.

JOBS WANTED-

Childcare, Days, L.B., References, 426-

Child Care — Lakewood & South, 867-0916.



GAME OF NAME - Janet Colmerauer, left, Janie Walker, both tivity periods on the surface, of Apollo Applications, ponder opportunity to suggest code name both longer than the EVA time for Apollo 12 command module. Winner gets trip to the launch. for the Apollo 11 crewmen.

APOLLO 11 MATERIAL INCLUDED

Revised 'Man on the Moon' To Be Sold

The magazine, Man on the terest throughout the world guage newspaper, Moon, distributed to employees than any other and throughout much of the we've ever issued." From USIS world, will be revised to include additional Apollo 11 material and sold beginning around the end of August through Surplus Sales and division cafeterias.

The magazine was prepared by Space Division Design Graphics artists from material developed throughout the Apollo Program. The revision will include reproductions of actual photographs taken on the moon and this insert will be mailed to all Space Division employees.

Abroad, the United States Information Service distributed some 800,000 copies in 20 languages in 110 countries from Afghanistan to Zanzibar.

Wesley Pedersen, of USIS, said in Washington that "Man on the Moon created more in-

publication posts came these reports of popular demand.

ians besieged the American

Magyar version. Rome: After initial distribution, there was heavy pressure from members of Parliament, key journalists and others who were desperately seeking additional copies.

Athens: Hundreds students and scientists came

seeking copies.

Ibadan, Nigeria: Space pam-phlet supply almost exhausted in somewhat chaotic tug-of-war among library users.

largest circulation Chinese lan- were received.

Wan Pao, serialized the text.

Lima: Demand for Man on the Moon and other material on space was the "greatest in our Budapest: There was a near experience." All Peruvian newsstampede when 5,000 Hungar- men received copies of "Man.'

Tehran: Comment included a Embassy for copies of the personal letter from the deputy minister of the Imperial Court expressing his appreciation.

Manilla: Man on the Moon was used extensively by newspapers and television stations throughout the Philippines.

Kuwait: At a special embassy reception, hundreds of copies were literally grabbed.

Taipei: Prior to the moonwalk, USIS presented a 30minute TV program on Apollo 11 during which Man on the Moon was offered. Within 36 Hong Kong: The Colony's hours, 15,000 letters of request

Division Employees . . .

(Continued from Page 1, Column 4) name, persons participating in the program were asked to explain in 25 words or less their reasons for selecting the particular name. The reason will be used in helping to determine the winner in the event the name chosen by the crew is submitted by more than one person.

All entries must be submitted on the form and sent no later than Sept. 5 to PRIDE Administration, Dept. 41 - 041, Mail Location EA-06. Only one entry per person will be accept-

Apollo 12, the second lunar landing mission, is planned for launch from Kennedy Space Center on Nov. 14. Target landing site for the flight is in the Ocean of Storms, near the landing site of Surveyor 3. This will be about 920 miles from the Sea of Tranquility landing site of Apollo 11.

One of the mission objectives for the crew will be to photograph the planned landing area for Apollo 13.

As planned, Conrad and Bean will leave a bevy of scientific instruments on the moon. They also are scheduled to have two extra-vehicular ac-

NAME APOLLO 12

My choice for the code name for the Apollo 12 command module is:

> My reason for suggesting this name is: (25 words or less)

This contest is limited to Space Division employees. Only one entry per employee will be accepted.

Mail this form by Sept. 5 to:

PRIDE ADMINISTRATION

41/041/EA-06.

(internal mail)

NAME: DEPT.: _____ SERIAL NO.:____ MAIL CODE: ______TEL. EXT.:____