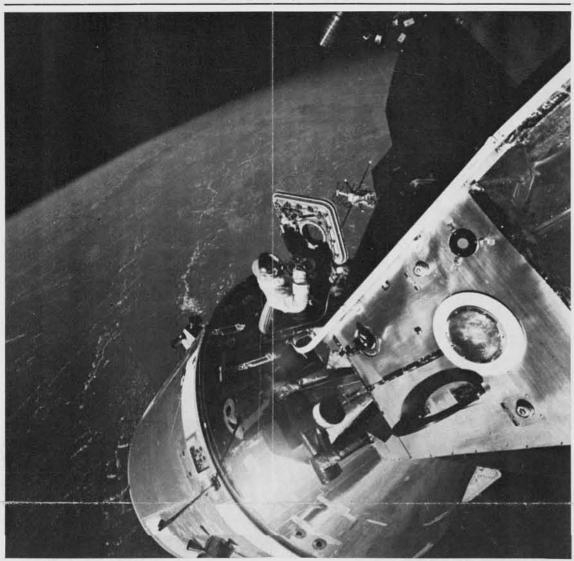
# DO CLUB CAMPAIGN TO BEGIN NEXT WEEK

# SPACE DIVISION

VOL. XXIX, No. 12

NORTH AMERICAN ROCKWELL CORPORATION

MARCH 21, 1969



SPACEMEN - Silhouetted by Earth backdrop, astronaut Dave Scott stands in open hatch of Apollo 9 command module to photograph lunar module. In turn, wide-angle photo of Scott and division-built command and service modules was taken by astronaut Russell Schweickart from the "porch" ule at splashdown was 11,108 of lunar module. Background land area in the center of photo is the Mississippi River Valley. pounds.

# Apollo 9 Command Module Arrives Home

## Employees, Families Invited to Downey To See Spacecraft

The Apollo 9 command module is back home at Downey and will be on view to employees and their families tonight through this weekend.

Fresh from its 10-day journey through space, the command module will be on display from 7 to 10 p.m. today and from 9 a.m. to 5 p.m. on Saturday and Sunday.

The display will be in Bldg. 247, and parking will be in the southeast lot, which has entrances on Imperial Hwy. between Bellflower and Clark. From there visitors will enter the display area through Gate 45B. Directional signs will be posted.

Also open to viewing by employees and their guests will be the Bldg. 201 studio used by CBS-TV for Downey-based broadcasts supporting its national coverage of Apollo manned missions. Participants will be able to see the scale mockups used by the network to explain and supplement its inflight reports.

Apollo 9 made 151 revolutions about the Earth during a flight that lasted 241 hours and 53 seconds and included the first docking and extra vehicular ac-

tivities in the Apollo program.

The first flight of the "allup" lunar landing configuration spacecraft, Apollo 9 was the heaviest manned payload yet put into Earth orbit. The command/ service module and lunar module weighed 95,168 pounds.

## Team Returns Apollo 9 for Post-Flight Test

A team of division post-retrieval specialists were at Norfolk, Va., earlier this week to greet the Apollo 9 command module as it arrived aboard the recovery ship USS Guadalcanal.

Job of the Apollo Test Operations crew was to "safe" the command module and prepare it so that the combined division-NASA team could begin the important post-flight test program as quickly as possible af-ter arrival of the spacecraft

back at Downey.
Among the chores of the post-retrieval crew were to give the spacecraft a quick check, and to disarm the pyrotechnics remaining aboard the command module that were not needed during the mission-as an example, those explosive charges and systems primed for readiness in the event an abort was necessary.

During the four- to five-day (Continued on Page 2, Column 5)

#### Anders' Biblical Quote To Be Used on Apollo Flight Stamp

The phrase, "In the begin-closely associated orbiting mission.

Anders used the words when he read from the Book of Genesis along with fellow crewmen Frank Borman and Jim Lovell as Apollo 8 circled the moon on Christmas Eve.

The phrase originally had not been considered in connection with the stamp. United States Postmaster General Winton Blount, following careful review, decided the proposal to use the quote should be adopted after receiving many requests.

The reading has become

#### Color Film of Apollo 8 Mission Now Available

A division-produced color film highlighting the historymaking Apollo 8 moon orbiting mission will be available to employees beginning tomorrow at the Surplus Store in Downey and at the cafeterias in Downey and Seal Beach through the week. The seven-minute film will sell for \$3, including tax, in both 8mm and Super-8mm.

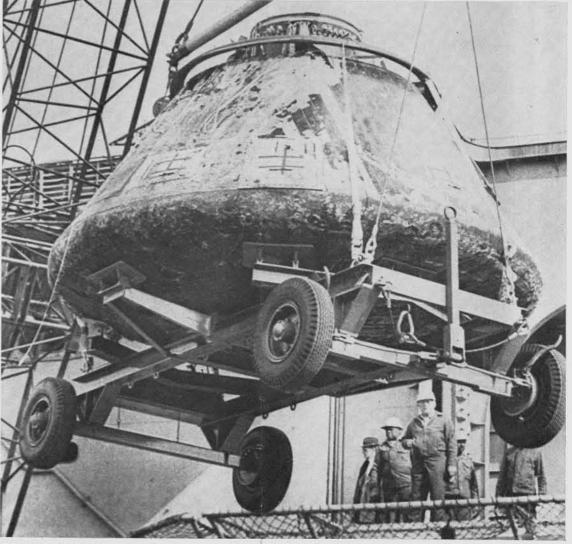
ning God . . ," spoken by astro-naut Bill Anders during the Blount said that it seemed Apollo 8 flight, will be included eminently appropriate that this on the forthcoming stamp com-memorating the historic moon pear on the stamp.

#### **EMPLOYEES LAUDED**

Commendation for a job well done on the Apollo 9 hardware has been extended division employees by George Low, manager of the Apollo Spacecraft Program for NASA's Manned Spacecraft

In a letter to division President William Bergen, Low wrote, "I remember talking to you after Apollo 8 and you said, 'How can we top this one?'. Well, you have done it again. Apollo 9, as we all have said, was an exceedingly difficult mission and turned out to be an outstanding success. The nearly perfect performance of the command and service module, which by now is a mature spacecraft, of course made all of this pos-

"Please convey my congratulations on a job well done to all at North American Rockwell Space Division who contributed to this tremendous achievement."



COMING HOME - Apollo 9 command module is unloaded from recovery ship USS Guadalcanal at Norfolk, Va., on first leg of journey back to Downey. Command module will be put on special display for employees and their families tonight from 7 to 10 o'clock, and on Saturday and Sunday from 9 a.m. to 5 p.m. in Bldg. 247 at Downey. Apollo 9 flight time was 241 hours, 53 seconds.

SPLASHDOWN -- Spectacular NASA photograph shows Apollo 9 command module at moment of impact in west Atlantic Ocean on return from 10-day flight through space with astronauts Jim Mc-Divitt, Dave Scott, Russell Schweickart. Apollo 9 impacted approximately five miles from target. luncheon entertainment.

### **UC COLLEGE CREDIT CLASSES TO** BEGIN AT DOWNEY, SEAL BEACH

at Downey and Seal Beach, Bldg. 80. Manpower Development an Classes nounced this week.

Classes will be given one starting dates are: night weekly from 5:30 to 8:30, Inspection Me and will be held in the local area. Interested employees should register prior to the first class night to assure their participation.

Downey employees may reg-ister at the Educational Programs Office in Bldg. 5, grid locations S278 and E85. At Seal

## Points of Law To Be Clarified by Professionals

Three top speakers will discuss points of law for the individual at a luncheon seminar tomorrow sponsored by the Secretaries Assn.

Themed, "Leave the Court-ship to Us," the seminar will be held at the Los Coyotes Country Club in Buena Park. Registration will be at 8:15 a.m., and the cost is \$6 including lunch. All division secretaries and their guests are invited.

Guest speakers will include Downey Police Chief Ivan Robinson, who will talk on, "Web of Destruction-Narcotics in the Home." Judge Patricia Hofstetter of the Whittier Ju-dicial District will dicuss "The Law and the Individual in the Courts."

"The Inter-Relationships Between the Police and the Community They Serve," will be the topic of Daryl Gates, deputy police chief of Los Angeles. The Warren High School, Downey, Mixed Quintet will provide

In-plant University of Cal- Beach, employees may register ifornia college credit classes in the Manpower Development will begin the week of March 30 office on the first floor of

> Classes that will be offered in the Downey area and their

> Inspection Methods and Techniques, April 1; Advanced Purchasing, Business Finance and Cost Schedule Planning and Control Systems April 2; Organization and Management Theory, April 3, and Elements of Industrial Relations, April 7.

Seal Beach classes and their starting dates are:

Cost Effectiveness and Control, March 31; Integrated Information Systems and Program Management, both April 2, and Leadership Principles

and Practices, to be announced. Full information on the classes may be obtained by calling the Educational Programs office, Downey Ext. 3141.

#### Apollo 9 Returns . . .

(Continued from Page 1, Column 5) job, the team also worked on the electrical and electronic circuitry and drained any salt water that might have been aboard the spacecraft, to lessen the possibility of contamination and corrosion.

During the post-recovery period at Downey, the command module will be put through var-

## Company Goal for **Electronics Growth** 15 Percent a Year

The corporation's goal for electronics growth is at least 15 percent a year for the next five vears. Willard F. Rockwell, Jr., chairman of the board, told a group of institutional investors Wednesday.

"We have set \$1 billion as our electronic sales goal by 1972, he said at the Sutro Institutional Seminar on California Corporations, in the Music Center. In 1968 North American Rockwell reported electronic sales of \$575,000,000, representing 21.8 percent of total company sales.

One of NR's prime objectives, Rockwell emphasized, is to achieve a larger proportion of commercial sales with their greater profit potential.
"In electronics, for example,

our goal is to have \$100 million to \$200 million of commercial sales by 1972.

He also announced receipt of a contract valued at nearly \$30,000,000 to supply advanced microelectronic devices for a revolutionary desk-top calculator to be produced by Havakawa Electric Company of Osaka, Japan.

The contract is the largest to date for the production of metaloxide semiconductor, large-scale integrated (MOS/LSI) circuits, Rockwell said.

Rockwell observed that the Commerce Department projects factory shipments of commercial, industrial and governmental electronic systems and equipment in 1969 will reach a new 1968. "Thus," he said, "our tar-



WELCOME BACK - Apollo 9 commander McDivitt, at microphone; Schweickart, left in flight coveralls, Scott, right in cap.

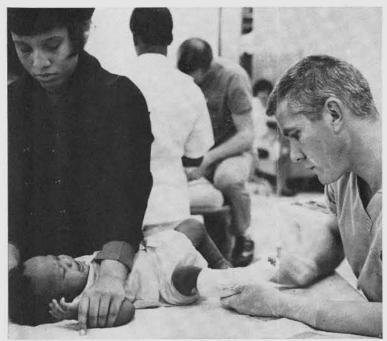


APOLLO EVA - Schweickart is shown on lunar module porch when he was outside of spacecraft during EVA phase of flight. Scientists will make study of selected photographs of the Earth. get is decidedly more ambitious."



SKY EARTHVIEW - Black-and-white print of color infrared photo taken from Apollo 9 at about 149 miles altitude shows mouth of Colorado River in northern Baja California, and Sonora, Mexico. White, ribbon-like salt lakes are at left near mouth of high of \$8.7 billion—an increase the river. Light shadings in water, right center in photograph, of nearly five percent above are caused by silt sands in the water of Gulf of California.

# Donate Once Club Helps Non-Profit Organizations





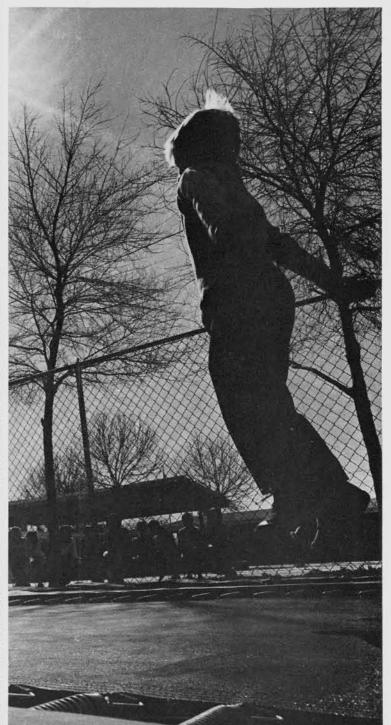
HELPS CHILDREN'S ORTHOPAEDIC PROGRAMS AND AIDS HOSPITALS



HELPS BLIND USE SPECIALLY TRAINED DOGS



PROVIDES YOUTH RECREATIONAL ACTIVITY FACILITIES







ASSISTS IN BUILDING YMCAS

AIDS PROGRAMS FOR MENTALLY RETARDED



CONGRESSIONAL VISITORS - Space Division President William Bergen, right, and members of House Manned Space Flight subcommittee stop to look at Apollo 8 command module during tour of Downey facility. From left, Robert Price, Tex.; Larry Winn, Jr., Kan., Don Fuqua, Fla., and James Fulton, Pa. They visited division to hear review of program plans for next decade. parison is more readily available.

MULTISPECTRAL PHOTOGRAPHY

## 4-Barrel Camera Combination Aids Earth-Studying Scientists

Earth and its natural and manmade features.

The photographs were taken by a four-barrel combination of ring mount and operated by film-filter combinations. Apollo electric motors, were synchro-9 was the first time a NASA nized for simultaneous expomanned space flight carried multispectral photography.

Objective of the multispectral terrain photography experiment was to determine the usefulness of this type of photography from orbital altitudes to the Earth resources disciplines, said NASA.

#### Wide Coverage

Plans emphasized coverage of southwestern U.S. areas where information from ground and aircraft observations for com-

Earth orbit during the Apollo 9 Paso, Dallas/Ft. Worth, and the mission will be of special interest to scientists studying the Vegetable, Soil and Water Research Laboratory at Weslaco, Tex., NASA said.

> The cameras, installed in a sure. Each camera had standard 80 millimeter focal length lens and a single film magazine containing about 150 frames, and was set to obtain systematic overlapping, or stereo, photographs.

#### Infrared Technique

One of the cameras provided narrow-band infrared data for comparison with the responses obtained in the visible region of the electromagnetic spectrum by the other cameras.

Another camera had color infrared film to take advantage of plant reflectance in the near infrared region and to show the maximum difference between natural and cultural features.

#### High Contrast

The third camera was designed to provide photos to use in telling the difference in various types of land use and in enhancing high-contrast objects, such as clouds.

The fourth camera was equipped to provide for maxi- Committee serving at the heart mum penetration of lakes and of this function.

from The areas included Tucson, El for coastal water bottom topog-

#### Scientific Studies

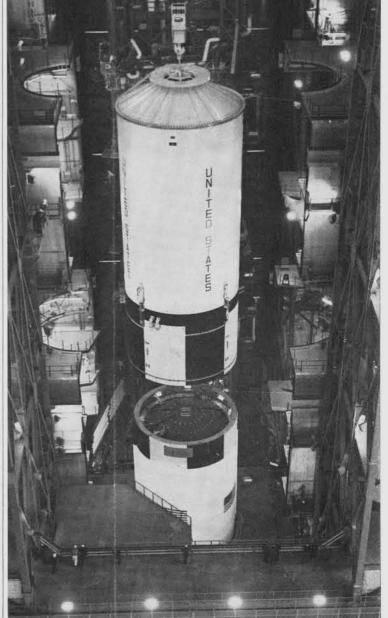
Complete sets of the photos are being prepared for more than a dozen scientists from universities and Federal agencies who will analyze them under contract to NASA. Their reports will be compiled and published by the space agency.

#### Haber Named to SAE Post

Bernard D. Haber, Aerospace and Systems Group senior vice president for Research and Engineering, has been appointed to the Society of Automotive Engineers' Technical Board and the board's Executive Commit-

He was named to the posts by National President Phillip S. Myers, who is from the University of Wisconsin. According to Myers, the board and committee are made up of a select number of engineers who have demonstrated outstanding professional and technical qualifica-

The board provides general direction and supervision to the Society's various technical committees, with the Executive



LUNAR MISSION HARDWARE - Seal Beach-built sixth Saturn S-II stage is stacked atop S-IC booster in Vehicle Assembly Bldg, at NASA's Kennedy Space Center. Launch vehicle is being prepared for Apollo 11 mission which could place first Americans on moon. Downey-built Apollo Spacecraft 107 is payload for flight now scheduled for the mid-July time period.

## Classified Ads

- FOR SALE -

66 VW, \$1,300. 861-5425.

Ford pickup truck, 370-5136. '61 Ford wagn, r/h, o/drive. 714/842-3056.

Mustang, auto., ps, ac, 35,800, 436-3087.
 T-Bird, make offer, 860-7130 aft, 4.
 ½T pickup truck, 749-9775.

'59 Cadillac. 213/597-4214. <sup>1</sup>62 Healy 3000, 714/675-3180, <sup>1</sup>60 Healy Sprite, 865-7995.

Bonneville, pb, ac, \$1,250. 714/531

4692. '60 TR-3 roadster. 213/596-4194. '65 Impala, 2 dr., ht, 283, V8, \$1,100. 213/633-4331.

67 Corvette, \$650. tk. over pyt. 868-0182. 769 Camaro, assume pyts. 714/846-1004.
763 Monza, 4 sp., make offer. 537-4250.
767 Tempest, air, \$1,850. 714/892-0876.

MOTORCYCLES-

'63 Cushman Trailster. 213/634-6797.
'64 Yamaha, 50cc, 800 miles, \$125. 635-

'66 Honda S-90, 421-2935.

66 Triumph TR6, 650cc. 869-7463, aft. 5.

REAL ESTATE-

San Clemente, \$4,800, 213/964-5823 Bedroom, dining rm., family rm. Huntington Bch. \$33,500. Neal, 714/847-0445. Lot, N. Clementine St., Anaheim, 535-7596

Poodle, Toy, 714/962-6585. German Shepherd pups. 714/528-8159.

WANTED TO BUY
Twin Baby Stroller, 965-4353.
"Doc Savage" Magazines, 714/826-1396.

RIDE WANTED-Lomita/Downey, 7:30-4, 326-5056. San Diego Frwy/Woodruff, 598-1788

Commonwealth State College to B/1 Dny, 8:12-4:54, 870-0195. Hollywd-Downey, 8:12-4:54, 2254 N. Ca huenga Blvd., Apt. 11, Hollywood.

FOR RENT-

Big Bear, Ski Area, 714/537-7299. Woman to share my home, 213/424-0901 Big Bear-ski area, 714/537-7299. 2 brd., den, pool, Lakewood. TO 6-9761



COMPANY HONOR - J. L. Atwood, NR president, is shown as he received copy of resolution by the Los Angeles County Board of Supervisors commending NR for its hiring and training of hardcore unemployed at NARTRANS. Supervisor Burton Chace, at right, presented the copy at meeting of El Segundo Chamber.

## **Rockwell-Standard Divisions** Are Renamed 'Automotive'

American Rockwell's Rockwell-Standard divisions will be known as the Automotive Divisions, according to F. W. Par-

Effective immediately, North ker, Jr., president of the divi-

"Automotive Divisions" will be used to describe the organization which encompasses 33 manufacturing operations in the United States and Canada and employs about 16,000 persons in five operating units.

"We sincerely hope," Parker emphasized, "that the public will continue to think 'Rockwell-Standard' when it thinks of drive and steering axles, brakes, universal joints, springs, wheel covers, head and tail lamp assemblies and other similar components for heavy duty trucks, buses and passenger cars.



NUMBER ONE - Edgar Long, second from right, Apollo Command Module Installations, is presented first Apollo Manufacturing Certificate of Accomplishment by W. D. McQuillin, manager of Apollo Systems Installation and Test. Long was cited for work during 13-week period in which he did not have a single defect. Taking part in presentation were L. M. Herm, left, Lakewood Blvd., Downey, Ca supervisor, and W. L. Hinze, general supervisor, of department. 90241, as a service to employees.

Skywriter

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