

# Carlton Named to New NR Corporate Planning Position

Robert W. Carlton, executive assistant to the chairman of the board, has been named executive director, Strategic Planning of North American Rockwell Corporation.

In the new position Carlton will devote himself primarily to corporate strategic planning, on the staff of Dupuy Bateman, Jr. Carlton will continue to be located at the General Offices.

Carlton has served as executive assistant to Willard F. Rockwell, Jr., chairman of the board, since North American Rockwell was formed in September, 1967 by the merger of North American Aviation, Inc., and Rockwell-Standard Corporation. Before that he had served in a similar capacity as executive assistant to the president of Rockwell-Standard Corporation.

In May, 1963, Carlton joined Rockwell-Standard as director of industrial design and development for the Aero Commander Division, headquartered in Bethany, Okla. He was promoted to the Rockwell-Standard

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Robert W. Carlton

# Seven Air Force Officers Receive AFIT Diplomas

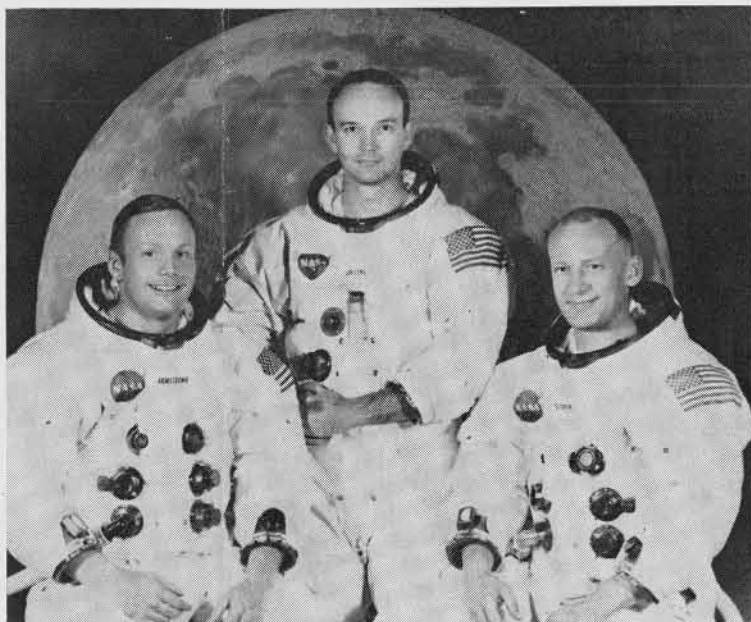
John R. Moore, president of the North American Rockwell Aerospace and Systems Group, awarded Air Force Institute of Technology (AFIT) "Education-With-Industry" program diplomas to seven Air Force officers at the Executive Offices Monday.

Certificate recipients were: Capt. Herman T. Long; Maj. Earnest H. Seborg; Capt. William T. Tollman; Capt. Richard L. Williams; Capt. Roosevelt Matthews, Jr.; Capt. Norman L. Barrett, and Capt. Vernon F. Fowler. Graduating officers not present at the ceremonies were: Capt. John V. Orsini, Jr.; Capt. Anastasios E. Dontchos; Capt. Richard H. Eaves, and Capt. Robert P. Lansell.

The Education-With-Industry (EWI) Program is a joint effort shared by the AFIT and leading industries throughout the United States. The program trains Air Force officers to interpret events leading to better decision-making in a technological/managerial environment.

Each year about 10 officers

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**APOLLO 11 CREW** — Spacecraft commander Neil Armstrong, command module pilot Michael Collins and lunar module pilot Edwin Aldrin are now in their final weeks of training for the epochal lunar landing mission. Armstrong, then Aldrin, are to be the first human beings to set foot on the bleak lunar surface.

# YITM Leaders Extend Program to Elementary School Pupils

Youth Incentive through Motivation — a program aimed primarily at Mexican-American students and designed to bridge the gap between industry and the schools and to preach the importance of higher education — has brought new praise to three of its members.

At the same time, the program has been so successful in high schools in the East Los Angeles area that members of YITM have begun taking the message to elementary school pupils and are considering pre-

senting their program in schools in non-minority areas.

Hector Maldonado, DSD Logistics Engineering, one of the driving forces behind the program at Autonetics, and Manny Alvarez and Hank Martinez, both of the Space Division, were commended by the principals of two Lincoln Heights elementary schools for the program they recently presented at assemblies.

At two elementary schools and one junior high school in the Lincoln Heights area, more than 600 students listened to the message of the Youth Incentive Through Motivation representatives.

At a meeting last week of the Lincoln Heights Elementary School Principals Conference, Maldonado and Alvarez talked about the YITM program.

"Our current and most pressing need," explained Maldonado, "is for more employees who would like to become active participants in the program, actually going out to the schools to talk to the pupils."

# 'Charlie Brown' Astronauts To Be Welcomed

Apollo 10 astronauts Tom Stafford, John Young and Eugene Cernan will visit the Space Division next Thursday during a triumphant tour of five California cities.

The astronauts, who thrilled the world with their lunar-orbiting mission last month, are to arrive at 11 a.m. in a party which will include their wives and Governor Ronald Reagan.

Ceremonies welcoming the astronaut party will be similar to those greeting the astronaut crews of Apollo 7 and Apollo 9.

'110% Success'

The Apollo 10 mission, which took Stafford and Cernan closer to the moon than man had ever before been, was termed a "110 percent" success by Glynn Lunney, NASA Manned Spacecraft Center Flight Director.

Tuesday, the astronauts will visit San Francisco, then address a joint meeting of the State Legislature in Sacramento. Wednesday, they are to be welcomed to Los Angeles with what is expected to be one of the biggest parades in the city's history. That evening they are to be feted with a banquet at the Hollywood Palladium.

# RUDY CASTRO TO SPEAK AT NEXT YITM MEETING

YITM next Friday at 7:30 p.m. in the Downey Recreation Center will present Rudy Castro, Governor Reagan's special representative on Mexican-American affairs, who will explain functions and activities of his office. All are welcome. Admission is free.



**MOTIVATORS** — Three of the principal reasons why the Youth Incentive Through Motivation (YITM) program has been so successful are, from left, Manny Alvarez, Hector Maldonado and Hank Martinez. Three employees were commended by school principals for efforts in motivating youngsters to stay in school and seek higher education. Their program includes talks, showing of Apollo films and questions and answers, breaching the gap between industry and schools.

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# July 16 Confirmed As Definite for Apollo 11

## Test Data Analysis Aided in Decision on Mission to Moon

NASA officials announced yesterday that the historic Apollo 11 lunar-landing mission will be launched on July 16, as planned.

The announcement was made in Washington, D.C., following a flight readiness determination meeting conducted by NASA headquarters personnel.

A final flight readiness review is to be conducted for NASA headquarters officials at Kennedy Space Center Tuesday.

Lt. Gen. Samuel Phillips, Apollo program director, said:

"We will not hesitate to postpone the flight at any time between now and July 16 if we are not ready in every way."

### Decisive Factors

In checking the weights and balances to arrive at the decision, NASA had to take into account the crew readiness, the 5.6-million parts of the Saturn V, plus the ground support equipment and personnel. The mood was not one of doubt; rather, it was one of cautious optimism.

Meanwhile, at NASA's Manned Spacecraft Center in Houston and at NASA's Kennedy Space Center, tests pro-

(Continued on Page 3, Column 2)

# APOLLO 11 SLATED TO TRANSMIT IN COLOR

Mission planners at NASA's Manned Spacecraft Center, Houston, have announced intentions to include live color television transmission in the flight schedule of Apollo 11. First color TV transmissions were made during Apollo 10.

# AMERICANS EXPRESS VIEWS ON MANNED SPACE EXPLORATION

The following "Space Quotes" are reprinted from the NASA Manned Spacecraft Center publications, *Roundup*:

Dr. George E. Mueller, associate administrator for Manned Space Flight—"... it's an interesting coincidence that this was the twentieth launch of the Saturn vehicle, Apollo 10, the twentieth successful launch in a row. It also happens to be the twentieth manned flight in space, and also the twentieth successful one in a row."

"I think that the flight of July, if it goes off well, will represent the coming of age, if you will, of our space program."

"It will be the twenty-first, both of men and vehicles, in space."

Louis Frey, Jr., Florida House of Representatives — "Most Americans think of the space program only when they view a launch or splashdown on television."

"This is only a small part of the story."

"The work leading up to the final Apollo mission will not only unlock the secrets of the moon, but has already been of tremendous benefit to man on Earth."

(Continued on Page 2, Column 3)





**ENCAPSULATED HISTORY**—Near 20,000 visitors filed past the Apollo 10 Command Module last weekend when the capsule was on display for NR employees and their families. The spacecraft was returned to the Space Division for post-flight analysis.

### Americans Express Views . . .

(Continued from Page 1, Column 5)

"A six-legged vehicle proposed for unmanned exploration of the moon was redesigned as a walking chair for crippled children.

A plastic-metallic spray for attaching heart electrodes to NASA test pilots is used to transmit electrocardiograms of ambulance patients ahead to a hospital receiving room.

"Safer designs for highway and runway surfaces have resulted in 15 airports modifying their runways, and many states experimenting on treacherous stretches of highway.

"From miniaturization to computer technology, from Teflon to new long-wearing paint—the space program is helping us with new ideas, new

technology and new jobs here on Earth.

"I think it is fitting that we recognize not only the glimmers of our space program, but also the spinoff which affects every American at some point every day, and promises new benefits in the future."

Tom Wicker, *New York Times*—"Our reaching out into space is akin to our first clutch at a tool, or to the poor fish's straining to be an amphibian, or to the development of the first nervous system.

"In its portent, it is of a different order of magnitude than Columbus's discovery. Except for some immediate practical considerations, our reasons for reaching out are inconsequential."

### Allen Organ Co., NR Undertake Market Effort

Autonetics and the Allen Organ Co. of Macungie, Pa., recently announced a joint effort in the development of microelectronic devices for use in electronic musical instruments.

The announcement was made by Autonetics President S. F. Eyestone and Jerome Markowitz, president of Allen.

Allen Organ Co. produces electronic organs for institutional and home use, and electronic components for commercial and government accounts. The company's R.M.I. (Rocky Mount Instruments) subsidiary, located in Rocky Mount, N.C., produces and markets music instruments for popular use.

#### Autonetics' Part

Under the agreement, Autonetics will develop microelectronic devices for use in Allen instruments.

Eyestone said the introduction of sophisticated data processing devices to the musical field is further evidence of Autonetics' technological leadership in advanced microelectronics.

Marketing of the instruments will begin during 1970 and will probably be handled by the Rocky Mount Instruments subsidiary.

The transaction includes development work by Autonetics, an exclusive license to Allen for application of the devices for an undisclosed consideration of cash and a convertible Allen note.

W. F. Sauers, executive vice president of Autonetics, has been elected to fill a vacancy on the seven-man board of directors of Allen Organ Co.

### Diplomas Received . . .

(Continued from Page 1, Column 1) receive on-the-job training in several divisions of the Aerospace and Systems Group.

During their 10-month study tour, individual officers, under the direction of NR managers, participate in actual real-time problem-solving and decision-making processes.

The EWI program provides Air Force officers with a broadened perspective of the Government-industry relationship.



**DIPLOMA RECIPIENTS**—Air Force officers in Education With Industry program recently received certificates from Aerospace & Systems Group President John R. Moore. Shown with Moore are, from left, Capt. Herman T. Long, Maj. Earnest H. Seborg, Capt. William T. Tollman, (Moore), Capt. Richard L. Williams, Capt. Roosevelt Matthews, Jr., Capt. Norman L. Barrett, and Capt. Vernon F. Fowler, at special ceremonies following presentation of the diplomas.

### Toastmasters Chapter Offers Spanish Class

Muy buenos tardes, caballeros.

Perhaps it would be best to know that much Spanish in order to qualify, but for those men with only a modicum of Spanish who would like to improve their public speaking ability in that noble language, here's an opportunity.

A new chapter of the Toastmasters International Club has been formed to improve or teach public speaking in Spanish and, incidentally, improve language facility.

The chapter meets Wednesdays, from 5-7 p.m. in the clubhouse at Pico Park, Pico Rivera. For further information, contact Edward Aleantara, Saturn S-II Quality and Reliability Assurance, Seal Beach, Ext. 2243.

### SCIENCE SEMINARS SLATED FOR JUNE

Following is a list of seminars to be held at the Science Center during the month of June.

Colloquium: "The Deformation of Plastically Non-Homogeneous Materials," June 20, 10:30 a.m.

Interdivision Technical Seminar: "Fiber Optics Telemetry System Development," June 27, 10:30 a.m.

### Walkover Presents Paper on Apollo

Louis J. Walkover, project manager, Space Station Design, recently at the University of Santa Clara presented a paper on the "Apollo Command Module Side Access Hatch System."

The paper, co-authored by R. J. Hart and E. W. Zosky, was given at the 4th Aerospace Mechanisms Symposium.

### President Nominates William Anders Space Council Executive Secretary

William A. Anders, Apollo 8 crewman and backup command pilot for Apollo 11, has received Presidential nomination to the post of executive secretary of the National Aeronautics and Space Council.

The announcement came from Vice President Spiro T. Agnew, chairman of the Council which advises the President on space and aeronautics plans, policies and programs.

Other members of the Space Council are the Secretary of State, the Secretary of Defense, the NASA administrator and the chairman of the Atomic Energy Commission. Of Anders, Agnew said, "He brings to the position a unique background. The photographic record he made of man's first visit to the moon will be studied by scientists for years to come. He has been an Air Force fighter pilot, a teacher in the field of nuclear engineering and he has a fine grasp of how the Executive and Legislative Departments work."

### AAP COMMAND MODULE TUNNEL MOCKUP WINS NASA APPROVAL

The Apollo Applications Program command module tunnel mockup won approval by NASA last week in Downey during the fourth astronaut review.

Already en route to NASA's Marshall Space Flight Center, Huntsville, Ala., the AAP tunnel mockup is a different version of the command module tunnel from that used to link the CM and the lunar module in the lunar landing program.

During the three-day review,

some 50 NASA and Space Division personnel also assessed improvements made since the Preliminary Design Review of CSM displays and controls last February.

Among those who participated last week were Walt Cunningham, a member of the crew of Apollo 7, who last October flew in the first manned Apollo mission; Dr. Joseph Kerwin, physician-astronaut, and one of the newer astronauts, Dr. Joseph Allen, who has his PhD in Physics from Yale University.

#### Varied Briefings

The review included an introductory briefing by Leonard M. Tinnan, Division AAP Program vice president; a detailed technical briefing by David Cureton, supervisor, AAP Engineering, an expert in spacecraft displays and controls; and James Shows, who headed the NASA management team. A total of some 42 items were reviewed.

A fifth astronaut review has been tentatively scheduled for next month to determine the suitability of the Division's newly-designed stowage lockers for the AAP Command Module.

Space Division personnel are working under NASA contract for modifying Apollo spacecraft for AAP. Present plans call for AAP launches beginning in late 1971.

### Apollo 8 Command Module is 'Star' of Paris Air Show

If there was a "star" at the 10-day Paris Air Show, which closed last Sunday, it was the Space Division-built Apollo 8 command module which was viewed by thousands of visitors from many nations representing every continent.

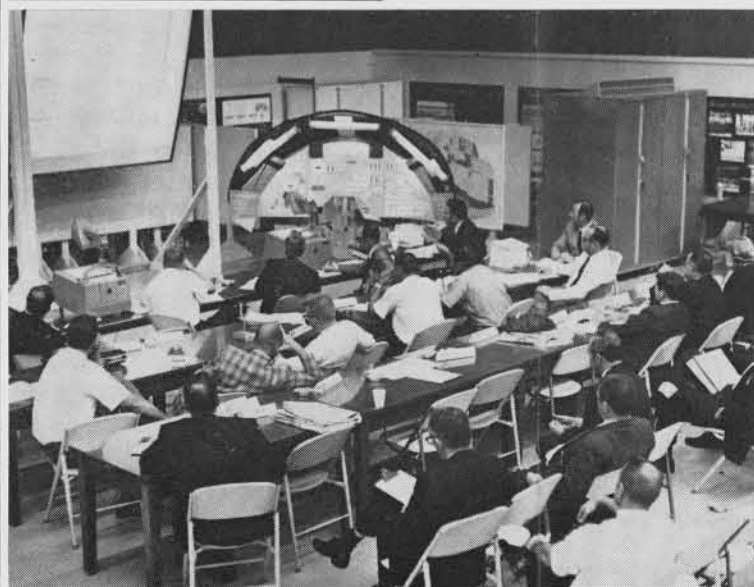
The lunar-orbiting spacecraft, which drew acclaim of millions of persons throughout the world last Christmas, was the centerpiece of the United States exhibit, devoted largely to the Apollo Program.

In addition to the Apollo 8 command module, there was exhibited for the first time, a full-scale mockup of the complete Apollo spacecraft and lunar module adapter. Visitors also saw actual F-1 and J-2 engines. These Rocketdyne engines are

of the type that propel all three Saturn V stages. Many other North American Rockwell products were displayed.

Under previous agreement, the Apollo command module has now been turned over to the Smithsonian Institution, which plans to tour the spacecraft in Liege, Belgium; Copenhagen and Jutland, Denmark; Berlin, Germany, Zagreb, Yugoslavia, and London, England, before returning the spacecraft to Washington.

It is expected to be placed on display at the Smithsonian Institution in mid-November, replacing the Apollo 4 command module now being displayed in the nation's capital. The Apollo 4 command module flew unmanned in the first Saturn V.



**AAP REVIEW**—The fourth astronaut review of Apollo Applications command and service modules displays and controls was conducted successfully at the division last week. Tunnel mockup was among many items approved during the two-day meeting.



## New York City To Host Eighth AIAA Meeting

The American Institute of Aeronautics and Astronautics (AIAA) 8th Aerospace Sciences Meeting will be next Jan. 19-21 in New York City. Abstracts for the meeting are due Aug. 18 and final manuscripts, Dec. 8.

Traditionally, this meeting is devoted to the exchange of fundamental information and ideas in various engineering and scientific specialties.

Sessions will be conducted in the fields of astrodynamics, air-breathing propulsion, atmospheric environment, atmospheric flight mechanics and electric propulsion. Also included will be entry vehicles, fluid dynamics, ground testing and stimulation, guidance and control plasma dynamics, space and atmospheric physics, structural dynamics, structures and thermophysics.

Abstracts should be sent to the various session chairmen, listed in the *AIAA Bulletin* for May.

Authors are reminded that abstracts as well as papers must be cleared before submission. This clearance is obtained through use of the M-94-X Form. Answers to questions concerning clearance may be obtained from Public Relations, Downey Ext. 6468, 5948.

## Journal Publishes Article by Two Seal Beach IEs

An article by two Seal Beach facility industrial engineers was the lead story for a recent issue of the *Journal of Industrial Engineering*.

Entitled, "IE's Do the Ground Work for the Moon Shot," the article was co-authored by Bill Naylor, chief of Materials Handling, and John Laputz, a supervisor in Industrial Engineering. Their story also set the theme, "Target Moon," for the journal's annual conference issue.

The article discusses the analyses performed and methods and handling techniques.

## Apollo 11 Tests Under Way . . .

(Continued from Page 1, Column 4) 10 crew debriefings last week at MSC and continued their training in mission simulators.

A Flight Readiness Test was completed at KSC at 3 a.m. last Saturday with Apollo 11 at Launch Complex 39A. Command module Pilot Collins, encoached in the Space Division-built vehicle, took part in the later hours of the FRT. Tuesday, Armstrong and Aldrin took part in other tests and simulations at KSC of the command module and the lunar module.

## Five Division Papers Given at Colorado Meet

A treatise on a concept for harnessing the Saturn S-II to a nuclear engine for mid-1970 space exploration was the basis of one of five division papers presented this week at the American Institute of Aeronautics and Astronautics 5th Propulsion Joint Specialist Conference at the U. S. Air Force Academy, Colo.

In a paper, "NUSAT—First Generation Nuclear Flight Stage," by J. W. Sandford and T. M. Littman, the authors stated that "A 75,000-pound-thrust NERVA (nuclear energy for rocket vehicle application) flight engine and a first-generation nuclear flight stage will substantially increase booster capability after 1975.

### Flight Stage

To develop a nuclear-powered flight stage, NASA has four alternatives: Use the nuclear engine with one of the Saturn V's three stages, or develop a new stage. "Our studies show that from an engineering point of view, it would be best to harness the NERVA to a Saturn S-II."

Other division papers presented were:

"Enhancing the Saturn V Translunar Payload Capability," by R. C. Africano and T. S. Logsdon.

"Propellant Position Control by Capillary Barriers During Spacecraft Rotational Maneuvers," by D. F. Gluck, who is studying under a North American Rockwell fellowship for his PhD at the University of Southern California.

"Morphological Analysis and Comparison of Nuclear Pulse Drive Mechanization Concepts," by Dr. K. A. Ehrlicke, and,

"Attitude Control Rocket Exhaust Plume Effects," by F. G. Etheridge, R. A. Boudreaux.

Another major engineering milestone will have to be passed before launch, the Countdown Demonstration Tests. If the decision is made to adhere to the July 16 launch date, these CDDTs, are expected to be completed during the first week of next month.



**FULL PARTICIPATION** — S. E. Ellis, second from right, vice president for Administration, presents certificates to several of his departments in recognition of their 100 percent participation in the division's United States Payroll Savings Bonds Drive.

## U. S. SAVINGS BONDS SIGN-UP STILL OPEN TO EMPLOYEES

The division U. S. Payroll Savings Bonds Drive continued today with more and more personnel signing up for shares in their own futures.

Said Walter Epps, Jr., campaign chairman:

"Space Division employees should feel proud of themselves for the manner in which they've supported this drive. We still have a way to go; don't get me wrong. We still have not reached 100 percent participation but we're close to that figure. I want to emphasize that individuals do count and I urge each of those



**MARCH-APRIL WINNERS** — J. E. Adams, center, director of Distribution and Traffic, congratulates driver award winners, left to right, R. L. Hipp, truck driver; F. G. Warren, inplant driver and O. E. Kirby, chauffeur, all April winners, and, R. E. Newland, in-plant leadman, 1st shift; M. P. Black, in-plant leadman, second shift, and R. L. Wilkins truck driver, March winners. The monthly awards reflect safe driving records.

## Derbyshire Given Honorary Award From Lecturer

The rewards for public speaking, except for personal satisfaction and applause, usually are few and far between, but a recent speaking trip along the East Coast brought Charles Derbyshire, engineering specialist in Apollo Design Projects, something quite different.

During one of his talks in Kingston, N.Y., Frederick Snyder, a well-known lecturer in his own right, was in the audience. So impressed was Snyder with Derbyshire's slide and film presentation on "Apollo-Up to Date," that he designated the Space Division speaker as a member of the Citizen Churchill's Honorary Roster, a "registry of creative citizens who desire to herald the fact that Winston Churchill is an honorary citizen of the U.S."

The citation presented Derbyshire was "provided in view of duties accomplished, not services expected." Accompanying the citation was a medal key chain bearing an engraved likeness of the late prime minister.

## Carlton . . .

(Continued from Page 1, Column 1) Corporation staff in May, 1965.

A native of Champaign, Ill., Carlton was graduated in 1952 from the Institute of Aviation at the University of Illinois. In 1960 he also was graduated from the University of Illinois with a bachelor of fine arts degree in industrial design.

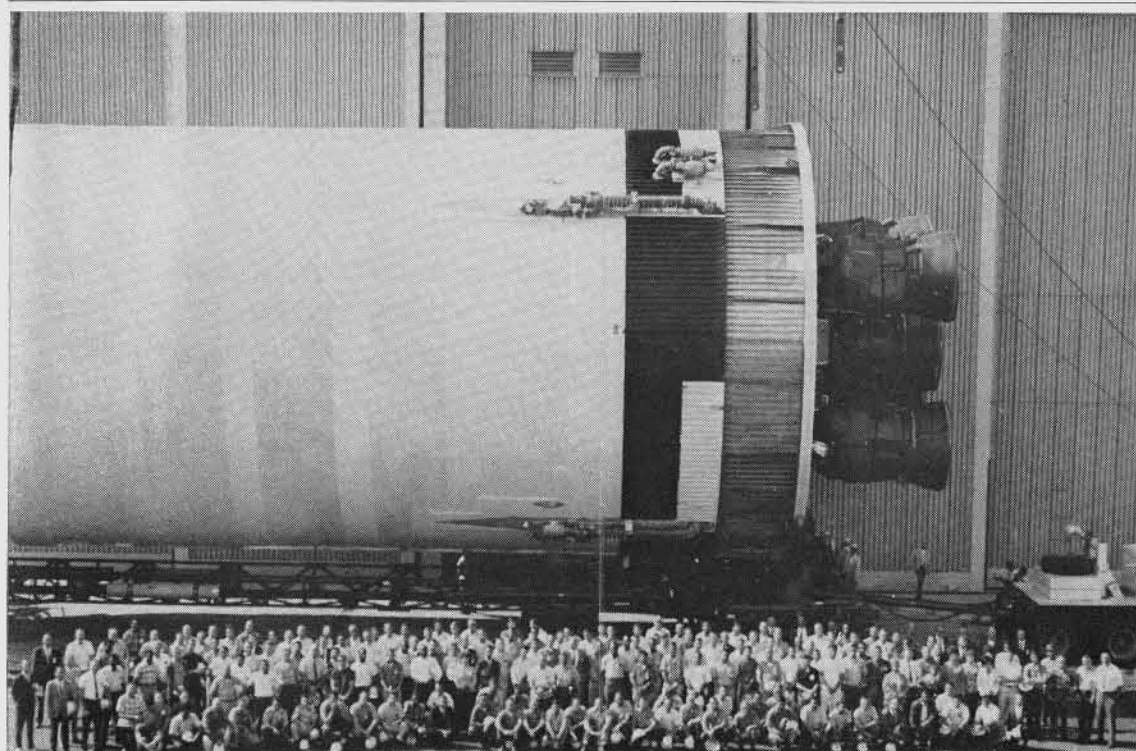
Carlton lives with his wife, Patricia, and their three children in Palos Verdes.

## Vucelic To Speak at Dinner

M. M. Vucelic, manager of CSM Systems Engineering, will speak on the Apollo Program at a dinner meeting of the Research Society of America Tuesday in Marmac's Restaurant, Downey. Dinner begins at 7 p.m.

## Transporter Used

NASA uses a transporter to carry the Apollo/Saturn V launch vehicle from Kennedy Space Center's Vehicle Assembly Building to the launch pad. Each vehicle is 131 feet long, 114 feet wide and weighs approximately six million pounds.



**OUTSTANDING TEAM** — Members of Saturn S-II Final Systems Installation, S-II Stage Insulation, S-II Quality Control, and NASA S-II Resident office at Seal Beach gather for photo following congratulations on outstanding team achievement on S-II-10 stage. Insulation and final systems installation work was completed one month ahead of time needed in past, at improved quality.



# Classified Advertisements



**MAINE EVENT** — J. M. Hammons, left, manager, Manufacturing Engineering, during an Apollo speaking tour late last month, presented an Apollo spacecraft model and a core section of the Apollo 8 heat shield ablative material to Maine Governor Kenneth M. Curtis. The presentation was made by Hammons to Governor Curtis on behalf of division President William B. Bergen. Hammons, Governor Curtis attended Maine Maritime Academy.

## COMPLETE MORE THAN 100 FIRINGS ...

### Crocketts Undertake New Kind of Scouting—in Space

Any time a 13-year-old boy asks his father to "Fly me to the moon," chances are the lad will get a pat on the head and a "Later, kid," for an answer.

Not so in the case of David Crockett and his 15-year-old brother, Dennis. These two young brothers talked their father, Bob Crockett, Saturn S-II Structure Installation, into helping their Boy Scout troop build, and launch, some strictly exploratory spacecraft.

This was early in the summer of 1967. Now, two years and more than 100 firings later, Crockett's Rockets are still taking off.

When he first accepted the weekend assignment, Bob took to the post a familiarity with the booster end of the space business. However, paring this know-how down to Boy Scout dimensions did present certain handicaps — namely, thinking small enough and, at the same time, sharp enough to stay ahead of the kids.

Evidence that Crockett has succeeded was spectacularly proved last November when Downey Troop No. 2 fired off 50 rockets, including a 37-inch Saturn 1B that soared to a new all-time high of 1,500 feet.

For purposes of safety and operating efficiency, the Downey

Rocketeers neither build their own engines nor mix their propellants. The rockets are either "scratch built" or made from kits. Constructed of nonmetallic materials — balsa, paper and plastic — they are painted vivid colors for ease of tracking and recovery.

The rockets are put into flight by a 12-volt automobile battery with a launch control panel, safety key and 18 feet of wire. A stand with a two-piece launch rod and blast deflector mounted on a tripod is capable of sending the rockets to altitudes of 500 to 2,000 feet.

Experience has shown that the best hours to fire rockets are from sun-up to 10 a.m., when visibility is tops and prevailing winds are minimal. Because of the hour and the distance involved, Operation Blast-off usually take up the best part of the Saturday involved.

### Picnickers Urged To Make Reservations

The picnic season is here! All departments interested in holding a picnic at the Downey Recreation Center are urged to make reservations as soon as possible. Contact Ext. 6094 for reservations and help in planning your picnic.



**ROCKETEERS** — Bob Crockett of Saturn S-II Structure Installation, tests parachute recovery system for rocket model payload, as sons David, left, and Dennis watch. Crocketts are members of Downey Scout Troop that has fired more than 100 rockets.

#### FOR SALE

- AUTOS**
- '67 Skylark, Air/Power, 213/677-3851.
  - '66 Caprice, 2/Dr, Air 213/866-4463.
  - '64 Chev. \$35., 213/TO 6-8133.
  - '63 Chev. Stu. Wagn., 714/539-3817.
  - '62 Comet, \$400, 430-5059, eve.
  - '66 Cutlass, Air, \$1,950, 213/943-1595.
  - '64 Corvette Air/Pwr., 213/865-0016.
  - '60 Falcon, 4/Dr., 213/633-7857.
  - '69 Fiat Spider, \$2,350, 213/634-5942.
  - '67 Mustang, 213/866-8508.
  - '65 MGB, \$1,395, 213/FR 5-4836.
  - '63 Simca Aronda, \$100, 596-2372.
  - '66 Sunbeam Imp., \$550, 430-9648.
  - '65 Olds, Air, \$1,200, 213/923-4228.
  - '68 Olds, AM/FM, 213/867-3693.
  - '60 V.W. \$575, 213/836-4616.
  - '63 V.W. 714/827-6394.

- MOTORCYCLES**
- '65 Honda 350cc, \$300, 860-6248.
  - Yamaha Trailbike, warranted, TO 6-0069.
  - '64 Yamaha 90cc, \$150, 691 4983.
  - '66 Triumph TR6 650cc, \$795, extras, 869-7463.
  - '57 Alfa, 1,300cc, \$575, 376-1181.
  - BSA, 650cc, 213-866-6439.
  - '65 Bridgestone, 50cc, 213-534-7549.
  - '65 Ducati, 250cc, \$350, 545-1570.
  - '65 H/Davidson, \$1,000, 714-879-6676.
  - '67 Honda, 175cc, \$400, 213-320-7603.
  - '67 Honda, Scrambler, 527-6612.
  - '67 Honda, Scrambler, 2138-65-7014.
  - Kawasaki, 175cc, \$430, 213-862-6051.
  - '62 Triumph, TR-4, 213-869-2362.
  - '55 Triumph, Chopper, \$800, 213-676-0525.
  - '66 Triumph, 500cc, \$650, 213-923-4968.
  - '67 Triumph, \$1,050, Afr 5:30, 213-863-4892.

- BOATS**
- 22' steel lifeboat, 714-495-4566.
  - 16' Westerner, 18 hp, \$500, 213-866-1890.
  - Racing boat/trlr, \$100, 213-862-4321.

- APPLIANCES**
- Washer, Kenmore, \$30, 213-635-7864.
  - Stove gas, \$25, 714-639-3143.

### Division Golf Tourney Scheduled July 20

The division monthly Golf Tournament for July will be at Rancho San Joaquin Golf Course Sunday, July 20. Sign-up will be Tuesday, July 8, beginning at 8 a.m. in the Recreation and Welfare Offices in Downey or Seal Beach. Entry fee is \$7.50.



**SEMINAR SPEAKER** — Dave Lewis of Manpower Development was charter speaker for County Health Dept. employees' first Educational Lunchtime Seminar. Lewis discussed means of stimulating a person to work to full capacity to better enjoy his job.

### NR Swim Meet Due Tomorrow at Warren High

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

Although entries have closed, employees are urged to support the swim meet by their attendance. The invitational meet is open to children and grandchildren of employees of all divisions, and of NASA and Air Force representatives.

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

#### FOR SALE

- FURNISHINGS**
- Couch/chair wt, naugahyde, 828-7583.
  - 3/4 headboard/spread, 213-527-8691.
  - Walnut/brass liv. rm. tble lamps, 213-865-7014.
  - Bed, dresser, 213-597-8045.

- HOMES**
- 3 bdrm, 2 bath, \$26,000, 213-756-0328.

- MISCELLANEOUS**
- Lot, Big Bear, 213-425-2577.
  - Acreage, houses for lots, 714-921-5479.
  - Poodle, toy, 714-962-6585.
  - Lawn mower, Pennsylvania, \$12.50, 213-862-5543.
  - '63 tinted windshield, 865-0016.
  - Nylon carpet/pad, 13x18, 828-7583.
  - Rug/pad, \$75, 213-861-4193.
  - Rug, green shag, \$50, 892-6967.
  - Golf clubs, \$50, 213-920-2786.
  - Golf clubs/cart, \$30, 213-634-1550.
  - Generator, 12V, 60 AMP, \$60, 329-2951.
  - Alum ladder, 20', 213-633-3226.
  - '59 Sprite parts, 213-923-7083.
  - Wkshop manual, '64 MGB, \$10, 714-544-4179.
  - Doughboy pool w/access, \$125, 772-3632.
  - Surfboard, 9'10", 714-523-0418.
  - Scuba diving equip, 714-636-3536.
  - 9' Kahanamoku surfboard, 862-4139.
  - Chimes clock, grandmother, 213-639-4414.
  - 26" boys Schwinn bike, 213-865-7014.
  - Pool table, slate, \$325, 213-862-6051.
  - Tent-trl, \$850, 714-774-1718.
  - 8' cahover camper, \$800, 714-521-1722.
  - '63 Corvan camper, 213-865-7014.
  - Amana \$90, 115 V/AC 213/927-9867.
  - 3 Bdrm., 213/861-1986.
  - Gas Stove, G/Sattler, 714/536-1584.
  - Living Rm. Set 213/920-2786.
  - Bunk Beds, 213/747-1483.
  - 15' Boat/Trailer, \$475, 213/866-1890.
  - T.V. Color, 213/867-9925.
  - View Acre — Oranges, 828-1965.
  - 10 Acres, Near Calif. City, 213/433-8045.
  - Lot, Big Bear, 213/425-2577.
  - Samoyed Puppy — AKC, \$135, 213/925-9349.
  - Airedale Puppies, AKC, 714/FR 9-3119.
  - Toy Terrier, 2 Yrs., Male, 213/868-8455.
  - Guitar "Fender FUZZ-WAH", 714/534-4001.
  - Crib, \$10, 714/879-7044.
  - Highchair, 714/431-2038.
  - Tent, 10X13, 213/867-9508.
  - Pool Table, \$375, 213/430-1979.
  - Vise, 4 1/2" \$30, 213/430-1979.
  - Direction Finder, Marine Radio, 714/839-4078.
  - Sankyo 8mm, \$20, 826-0935.
  - Horns, Bogen Amp/Banshee, \$400, 213/862-4735.
  - Singer Stitcher, 213/421-2935.
  - Surfboard, 9' Kahanamoku, 962-4139.
  - Piano, Upright, 714/630-2273.

#### FOR SALE

- MISCELLANEOUS**
- Golf Clubs, 213/920-2786 a.m.
  - '38-'45 Record Collection, 714/535-5874.
  - Drums, Blue Pearl, 714/943-9775.
  - Ride, Silverlake/Echo Park, 213/661-5883.
  - Kittens, Free 5 wks., 714/827-6489.
  - Kittens, Free, 213/425-6747.
  - Share house, rd. 2 girls, Huntington Beach, Ruddy (D), 714/846-2680.
  - '68 Honda, electric start, \$200, Lemhan (D), 679-5193 bet. 5 & 6 p.m.
  - '67 Yamaha Twin 100, overhauled, St. & trail gears \$220, Cavicchi (D), 883-6954.
  - '68 Honda 160 Scrambler, 700 mi., \$450, Gordon (N), 396-7677.
  - Boat 15'6", glassed motor trailer, 1969 tags, \$250, Madore (D), 1204 Stanford Ave., Redondo Beach.
  - '64 Suzuki 250 CC, new eng., \$275 or best offer, Nelson (D), 327-5519.
  - Baby sitter needed, Wkends, and/or evenings, 2 preschoolers, Stratton (D), 320-4139 or 372-0878.
  - Rotisserie, Roto-Broil, \$20, Sanders (D), 675-9589.
  - Washer, GE, fully auto., \$30, Sanders (D), 329-5584.
  - Bookcase headboard, walnut, full size, make offer, Shippin (D), 755-9657.
  - Piano, spinet, full keyboard, Lester, walnut, Edell (D), 645-1404.
  - Organ, Gulbransen Model D, electronic w/Selectorhythm, \$1795, Rouse (D), 534-2962.
  - House trailer, 33 ft., Terry, good tires, Luce (D), 320-0956.
  - Sofa, 3 pc. sectional, beige, \$75, Summers (D), EX 3-3136 after 5.
  - Arm chairs, 3 blue leather; sofa, 7-ft. grey; bronze torchiere, make offer, Bordeck (D), FR 5-4663.
  - Air conditioner, auto., Bon Aire, \$25, Movner (D), EX 7-6697.
  - Air conditioner, 5000 BTU Emerson, window model, Jackson (D), OS 5-7596.
  - Refrigerator/freezer, Crosley, 2 dr., 21 cu. ft. \$85, Wolfe (D), FR 5-5573.
  - Babysitter needed, 3 weeks, days, live in start June 28, Battreall (D), 679-1973.

- WANTED TO BUY**
- Doc Savage magazines, 714-826-1396.
  - Small Utility Trailer, 714/544-8380.

- RIDE WANTED/OFFERED**
- Silverlake/Echo Park, 213-661-5883.
  - Offer, Fountain Valley to Seal Beach, 962-4139.

- ODDS AND ENDS**
- Lost, Jade Earring, rewd, 714-539-3736.

- RIDE WANTED/OFFERED**
- Silverlake/Echo Pk, 8:12-4:54 661-5883.
  - Magnolia & Talbert, 7:30-4:00 S/B, 926-4139.
  - Lomita to Downey 8-4:42, 326-5056.

- FOR RENT**
- 4 Bdrm., Pool, \$225, 714/847-1659.
  - Room, No. Dwny, \$10 wk., 714/869-5875.
  - Cottage, Bass Lake, 213/869-4297.
  - 3 Bdrm./2 Bath, \$224, 213/322-5894.
  - Apt., Newport Beach, 714/642-8549.
  - Mt. Hse., \$50 wk., 213/NE 2-4133.
  - Cabin, Big Bear, 213/598-4144.
  - Bass Lake Cottage, 209/OV 3-7138.
  - Male to Share apt., 714/776-8276 aft. 10 p.m.
  - Big Bear Cabin, sleeps 7, 213/598-4144.
  - Vacation Home, Bass & Mammoth Lakes, 213/421-8638.
  - Vac. Hse., No. Calif., \$50 wk., NE 2-4133.
  - Arrowhead Cabin, Sleeps 7, 698-5651.

**SPACE DIVISION**  
**Skywriter**

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### Mick O'Mach & Buster



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