

SPACE TRIO—Apollo 9 astronauts Russell Schweickart, left, Jim McDivitt, and Dave Scott will be welcomed back by employees in ceremonies planned for next Thursday at both Downey and Seal Beach facilities. This will be first visit to division for trio since their milestone flight.

NASA Awards Design Contract for Lunar Vehicle

NASA's Langley Research Center has awarded the Space Division a 10-month, \$155,000 feasibility study contract to design a two-man "lunar emergency escape-to-orbit vehicle."

The proposed vehicle could be carried aboard the lunar module and would be used by the two LM astronauts to return to the orbiting command/service module in case of LM failure on the lunar surface.

The escape vehicle is being designed as a "light, empty-weight, minimum-complexity two-man lunar escape system utilizing unsophisticated guidance and control techniques and simplified propulsion and stabilization and control concepts."

Remmert-Werner, Cleveland Field Office Join Casnet System

Executive Offices' Cleveland Field Office has become an "on-net" CASNET location. To call this facility, dial access code 8, followed by facility code 531-1008.

Also, CPG's Remmert-Werner Division, Lambert Field, St. Louis, Mo., has become an "on-net" CASNET location. To call this facility, dial access code 8, followed by facility code 439-5030.

The current spring issue of the Communications Directory does not reflect these additions.

EASTER EGG HUNT SET FOR TOMORROW

Candy by the box, fun, and a host of prizes are awaiting youngsters taking part in the division's Sixth Annual Easter Egg Hunt tomorrow at the Downey Recreation Center at 10 a.m.

The event is for employees' children two through seven years of age, with the children participating by age group. Refreshments will be available and a special prize drawing for youngster's will cap the event. Tickets may be obtained at the entrance.

Full-Scale Mockup of Apollo Will Be On Exhibit at Paris Air Show

For the first time, a full-scale mockup of the complete Apollo spacecraft and lunar module adapter (SLA) will be displayed to the public when the gates to the Paris Air Show open May 29 through June 8.

The 82-foot spacecraft and SLA mockups, built by Space Division for inclusion in the U.S. Department of Commerce exhibit, will be shipped to Europe this week.

Nearby will be another full-scale mockup of the command module.

It was constructed with a large plastic window to give the public a chance to see more of its interior and the many instruments, switches and controls used by Apollo astronauts.

They also will see actual F-1 and J-2 Rocketdyne engines in the same area. These engines are of the type that propel the huge Saturn V rocket into space.

The company is furnishing

mockups of the five F-1 engines that will be installed in a full-scale model of the 33-foot diameter "boat tail" of Saturn V. The huge tail will be mounted above the entrance to the U.S.A. outdoor exhibit.

Inside the pavilion, the company will illustrate some of the benefits the space program has handed to mankind. Such things as fast breeder nuclear reactors, new fireproof materials and earth resources sensors will be explained.

On the flight line, the OV-10A Bronco counterinsurgency aircraft will be shown and flight-demonstrated, this versatile new airplane has already proven its value with the military forces in Southeast Asia. Built by the Columbus Division, the Bronco was the first military aircraft specifically designed for counter-insurgency and limited war applications.

(Continued on Page 3, Column 1)

Deadline Set for April 15 on AIAA Abstracts

Division authors planning to submit abstracts for the American Institute of Aeronautics and Astronautics' 1970 Launch Operations Meeting have until April 15, it was announced this week.

Themed "Planning and Executing Successful Economical Launch Operations," the meeting will be held in Cocoa Beach, Fla., Feb. 2-4, 1970. Abstracts of 500 to 1,000 words should be received no later than April 15 by Harold G. Behl, A2-935, McDonnell Douglas Astronautics Co., 3000 Ocean Park Blvd., Santa Monica, 90406.

Objective of the meeting will be to take an in-depth look at the techniques, procedures, and operations required during the receipt of hardware at the launch area up to orbital insertion. Only papers on items during that time which actually affect the launch process will be considered.

SPACE DIVISION

Skywriter

NORTH AMERICAN ROCKWELL CORPORATION
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'Welcome Back' Planned for 'Gum Drop' Crew

Ceremonies Scheduled Thursday to Salute McDivitt, Scott and Schweickart

A special Space Division "Welcome Back" is planned next week for Apollo 9 astronauts Jim McDivitt, Dave Scott and Russell Schweickart who will be returning to the division for the first time since their milestone 10-day mission.

The gala event is scheduled for next Thursday. Flying in from New York, the trio plan to arrive at Seal Beach at noontime. They will arrive by company helicopter.

Following these ceremonies, the trio will be whisked to Downey and saluted in ceremonies held on the flight line area just east of the Bldg. 1 Manufacturing area.

The events at both facilities are being arranged to enable as many employees as possible to greet the space travellers. Full details of the plans will be relayed to employees through sound system announcements and posters.

Astronauts' Request

The visit is being arranged at the request of the astronauts, who expressed the desire to give their personal thanks to the persons who built their "Gum Drop" spacecraft and the second stage of their Saturn V launch vehicle.

McDivitt, Scott and Schweickart were hailed for having performed the most complicated and complex mission yet attempted in the U.S. space program. During their 241-hour, 53-second flight, the trio travelled a total of more than 4,000,000 miles.

The combined vehicle that they flew into space initially—

(Continued on Page 3, Column 4)

JULY 16 LAUNCH

Day on Lunar Surface Set for Apollo 11 Mission

The first Americans on the moon will spend almost a day on the lunar surface, exploring, taking photographs, setting out experiments and gathering 50 pounds of moon rock for return to the Earth.

George Low, Apollo program manager for NASA's Manned Spacecraft Center, said the space agency is aiming for a July 16 launch date for Apollo 11, the flight now scheduled for the historic moon landing. Final decision on the mission will depend on the Apollo 10 moon orbiting flight planned for May 18.

Apollo 11 astronauts Neil Armstrong, Edwin Aldrin and Michael Collins will lift off from Kennedy Space Center and head some 250,000 miles into space for Apollo Site 2, a five-mile oval on the southwestern edge of the moon's Sea of Tranquility.

More than three days later they will go into orbit about 69 miles above the moon. They will spend more than a day checking

(Continued on Page 2, Column 1)



PARIS-BOUND—Space Division President William Bergen, left; B. J. Long, and Al Schmidt, Marketing, admire full-scale mockups of Apollo spacecraft built by division for U. S. Department of Commerce display at Paris Air Show, May 29-June 8. Mockups will support the exhibit's "Countdown Apollo" theme and focus on the nation's program to land men on the moon.



PERFECT TEAM — Apollo Service Module Fabrication and Installation team is congratulated by Mike Riley, right center, NASA resident Apollo office, on error-free completion of service module for Apollo Spacecraft 115. Module was third in row, seventh of last 10 fabricated by team without defects. Art Maier is general supervisor, W. H. Kestler, supervisor.

Audit Program Will Emphasize Safety Efforts

A Safety Audit program was initiated this week to further emphasize the division-wide safety program.

Purpose of the audit program, said Harley Tracy, manager of Industrial Safety, is to verify organizational compliance with safety criteria and procedures and the effectiveness of supervisory safety efforts, and to provide members of functional area management with increased visibility of their safety efforts.

Spearheading the program is the new Safety Audit Unit. Members of the unit will lead semi-annual team surveys of organizations to insure compliance with federal, state, and customer regulations, as well as with company requirements.

Tracy said organizations will be audited in the areas of safety program administration, control of physical and environmental hazards, training and motivation, and accident prevention and experience. The surveys will be conducted with advance notice and with the assistance of concerned management.



SAFETY AUDIT — Bob Wilmes, second from right, of Industrial Safety, audits work of Cliff Gabard during survey of Warehousing in line with new division Safety Audit program. Participating in survey with Wilmes are J. E. Adams, left, director of Traffic and Distribution; Steve Nelson, division director of Material, Al Perry, Warehousing general supervisor.

'View From Space' on TV This Monday at 7:30 p.m.

Practical benefits the space program already is bringing to mankind and added dividends of the future will be vividly spotlighted in the "View from Space," company-sponsored television special that will be shown locally Monday at 7:30 p.m. on ABC-TV, Channel 7.

The color telecast, third in the company's "Man and His Universe" series, originally was beamed in early February. It is being rebroadcast due to the interest generated by the Apollo 8 and 9 flights and the public acclaim for the show.

NASA astronauts Frank Borman and Jim Lovell, commander and command module pilot for Apollo 8, open the program with a description of the moon as they saw it from orbit last Christmas Eve. Astronaut Ed Aldrin, command module pilot for the forthcoming Apollo 11 flight, describes his feelings as he viewed the Earth in his extra-vehicular activities during the Gemini 12 flight.

Scientist-Astronaut
Also appearing on the program will be Jack Schmitt, one of NASA's new scientist-astro-

nauts. Borman, Lovell and Aldrin team to take viewers on a space trip around the world, highlighting key applications.

Explained will be how a single Gemini photograph aided in the mapping of more than a thousand villages in the Nile Delta, and how another was used in the creation of a geologic map of the Arabian continent's Gulf of Oman area, helping to accelerate the study of natural resources.

Other Gemini and Apollo The special will be retelecast from 7:30 to 8:30 p.m., over the ABC-TV network, and Channel 9 in Orlando.

photographs are being utilized in pinpointing areas for new sources of oil and natural gas, food and water supplies, and for crop and forest surveys.

Fastest Travelers

Members of the Apollo 8 crew, according to the National Aeronautics and Space Administration, traveled faster than man has ever previously flown — 24,695 miles-per-hour.

Lunar 'Day' ...

(Continued from Page 1, Column 5) out the lunar module, sleeping and taking navigational sightings of the landing site, then Aldrin and Armstrong will descend to the surface in the LM while Collins orbits above them in the command/service modules spacecraft.

During their approximately 22 hours on the moon, Armstrong and Aldrin will leave LM for about three hours for exploration. After completing their tasks, the two will return to Collins in the orbiting command/service modules mother ship in the LM's ascent stage, leaving its four-legged descent stage on the moon.

Back in the command module, the trio will jettison the LM stage and head back Earthward for splashdown in the Pacific Ocean. Their entire trip will last slightly more than eight days.

Manned Spacecraft Center officials stressed that timelines for the lunar landing and the actual time Armstrong and Aldrin will spend on the moon are subject to change up to flight date. Actual operations will depend on many things, including the condition of the crew and their spacecraft.

'SKYWRITER' ERRS IN IDENTIFICATION

Skywriter last week succumbed to the numbers game. The Saturn S-II stage shipped from Seal Beach March 20 was incorrectly identified as the eighth S-II flight stage instead of the S-II-9.

That it was the S-II-9 is readily borne out in the photograph on Page 3 of this issue. The S-II-8 left Seal Beach for NASA's Mississippi Test Facility in early February.

OSO LETS SUBSEA SATELLITE CONTRACT TO HOUSTON FIRM

A contract to design and build an automatic control system for remote operation of oil and gas production wells at ocean-floor depths, has been given the Houston Research Institute, Houston, Tex.

The contract was announced Tuesday by Ernest Manuel, vice president and general manager of Ocean Systems Operations.

In a joint agreement with Mobil Oil Corp., NR is designing and building a revolutionary deep ocean oil production system which will use the Houston Research supervisory control system to automate the operation of production stations — called satellites — located on the sea floor. It is scheduled for test at an off-shore site early next year.

"The Houston Research equipment is a key subsystem

in terms of economy and reliability," said John Adams, program manager for NR's production system. "It will be similar to their Remote Data Acquisition and Control System (RDACS)."

Roy G. Gage, president of Houston Research Institute, explained that "the system design includes self-check and fail-safe features which allow unattended operation," and reduce costly trips to the satellite area as well as provide a safe and reliable control.

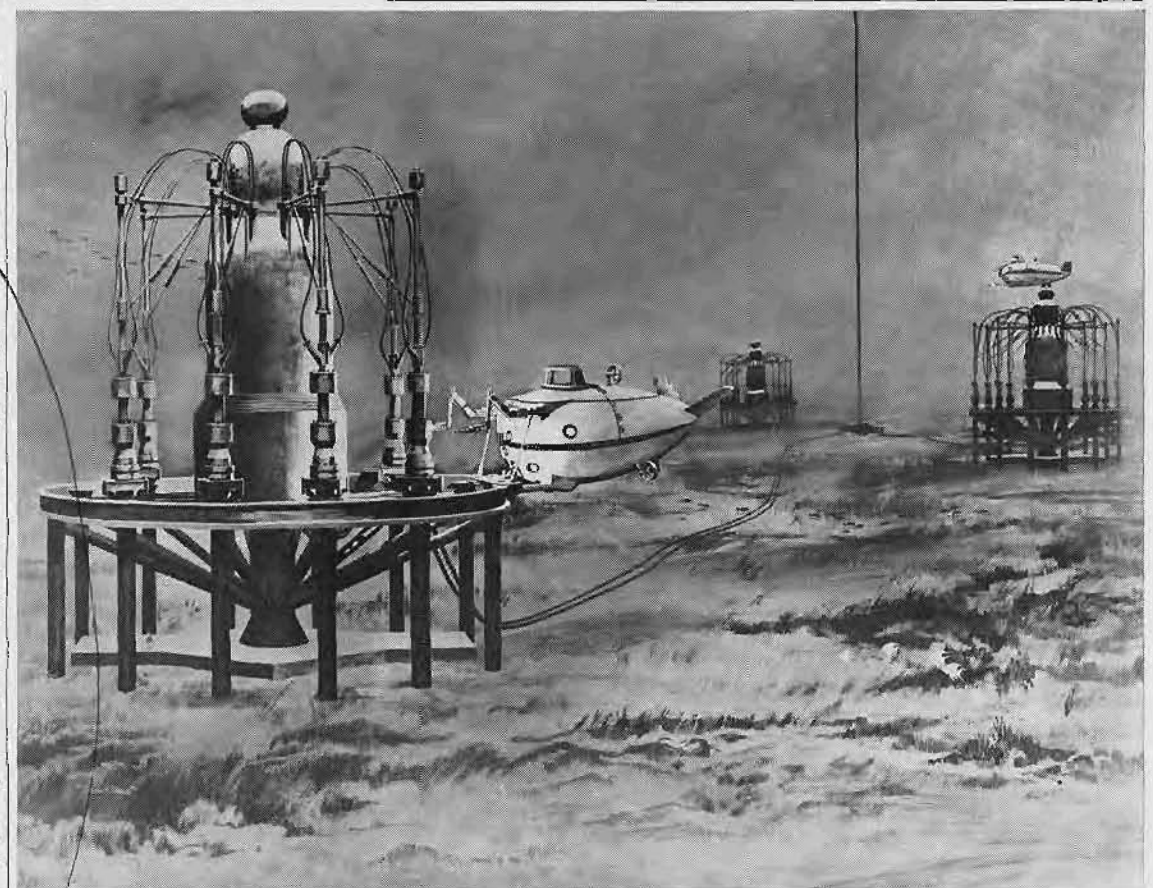
The computerized control system will be located on a surface vessel with multiple remote slave units installed on ocean floor satellites which support clusters of subsea wells.

Stivers Delivers Address Before AIAA Seminar

An address on "Space Applications Benefits" was presented by Dr. R. H. Stivers this week as part of the Orange County Chapter, American Institute of Aeronautics and Astronautics, 1969 Spacecraft Technical Seminars.

Dr. Stivers, manager of Unmanned Space Systems, touched on almost all space technologies, including structures, electronics, sensors, aeromedical instrumentation, environmental control, electrical power and human factors.

He also traced the development of several non-space products from their space program derivatives, such as new thin-walled structures, new food processing techniques, automated medical monitoring systems and civil management systems.



RECOVERY SYSTEM — Artist's concept shows satellite structure of Ocean Systems Operation's sea floor oil and gas recovery system. Multiple production well heads are on "ring" surrounding satellite. Computerized supervisory control system automates operation. Beaver is system workboat.

COST REDUCTION PARTICIPATE

Aerospike Engine Contract Awarded To Rocketdyne

A \$1,142,924 contract calling for additional work on an aerospike engine system has been awarded Rocketdyne by NASA's Marshall Space Flight Center.

Work under the contract is designed to increase technological developments in advanced rocket engines. NASA said Rocketdyne will be required to set design criteria for lightweight, low-cost aerospike thrust chambers; acquire experience in building the chambers, and evaluate component combustion dynamics, if necessary.

The aerospike engine—also called a plug-nozzle—is a ring-like engine with many tiny throats along its circumference that discharge engine exhaust down the sides of the plug.

Apollo Mockup . . .

(Continued from Page 1, Column 4)

Al Schmidt and B. J. Long, Space Division Marketing, will be among the company show representatives. The work on the division-built mockup was done in the Engineering Support Shop (ESS) under the direction of General Supervisor Doug Chidley and Supervisor Gene Hennes, and coordinated by Lou Villegas of Marketing.

YOU ARE THE "I" IN PRIDE

Clifford Sutton to Attend Claremont College Session

Twelve-year-old Clifford Sutton is among a select group of Los Angeles youngsters invited to attend an advanced education program this summer at Claremont College.

Clifford is the son of Cliff Sutton of the Machine Shop. The special program is limited to the top 10 students at each school in the LA district.

A seventh grader at Vanguard Junior High School, Clifford plays basketball and baseball and was just elected president of his school's Astronomy Club.

Sutton and his wife, Ethel, have two other children, La Fonda, 10, and Paul Wayne, 2. He noted with pride that both the older youngsters consistently receive high grades in their school work.



Clifford Sutton



S-II STAGE PARADE — Unique photo, which was taken last week, shows two Saturn S-II stages making their way down Bay Blvd. in Seal Beach. Leading the historic parade is S-II-9, on its way to NASA's Mississippi Test Facility, then

interstage for S-II-8 and S-II-12 stage being moved to Navy Special Weapons Center facility at Seal Beach for pneumostat (pressure) testing. This was the first time in the Apollo program that two S-II stages have been on move at same time.

Moore and Haber Elected Lifetime Members of IAA

John R. Moore, Aerospace and Systems Group president, and Bernard D. Haber, Group senior vice president — Research and Engineering, this month were elected lifetime members of the International Academy of Astronautics.

The Academy, composed of the world's leading space engineers and scientists, promotes advances in astronautics through a wide range of meetings, programs and publications.

C. Stark Draper, director of the Instrumentation Laboratory at the Massachusetts Institute of Technology, is president of the Academy and announced the election of Moore and Haber.

The North American Rockwell executives were named corresponding members of the Engineering Sciences section of the Academy. The Academy also has Basic and Life Sciences sections.

Elite Group

A total of 41 persons were named to the elite professional group for 1969. Fifteen are from the United States, six are from Russia, five from France, four from Italy, two each from the German Federal Republic, Hungary and Sweden, and one each from Australia, Czechoslovakia, Israel, the United Kingdom and Yugoslavia.

Total Academy membership is now 389. Six are from North American Rockwell.

Company men named to membership in former years include: Harrison A. Storms, North American Aviation Divisions Organization vice president; Samuel K. Hoffman, Rocketdyne Division president; George P. Sutton, Rocketdyne assistant to the president; and Krafft E. Ehrlicke, Space Division chief scientific advisor, Advanced Programs.

Division Men Participate In 12-Week Metallurgists Course

Four division men from Research, Engineering and Test will be playing major roles in a 12-week course for metallurgists that will be co-sponsored beginning this week by the UCLA Engineering/Physical Sciences Extension and the Los Angeles Chapter of the American Society for Metals.

Participants

A. J. Yeast is co-coordinator for the four-unit course, and giving presentations will be L. K. Crockett, D. C. Root, and H. E. Pellett. All are from Materials and Processes.

Crockett and Pellett, both from Seal Beach, will discuss aluminum alloys and carbon and low alloy steels, respective-

ly. Root, from Downey, will give a presentation on titanium alloys.

Entitled "Interpretation of Metallographic Structures" the course will be given at the Downtown Center, 1100 So. Grand Ave. in Los Angeles. Full information may be obtained by calling the University of California Extension.

Welcome Back! . . .

(Continued from Page 1, Column 4)

Apollo command/service modules, lunar module, and Saturn V third stage—weighed 150 tons and was the heaviest satellite placed in orbit about the Earth.

AIAA Honors Apollo 7 Crew

Apollo 7 astronauts Wally Schirra, Donn Eisele and Walt Cunningham have been presented the American Institute of Aeronautics and Astronautics' annual Haley Award.

The three men were honored for their "exceptionally meritorious service and outstanding contributions to the advancement of manned space flight during the 11-day flight of Apollo 7."

The Award is presented each year for an outstanding contribution by test personnel who undergo personal risk in the advancement of space flight. It consists of an honorarium of \$500, a medal and certificate.



ON THE WAY — Apollo Spacecraft 108 command module, right, and service module, bedecked with "Lunar Schooner" sign, left Downey facility last week for NASA's Kennedy Space Center on first leg of journey that will carry it into space. Spacecraft is planned for use in first manned mission following scheduled lunar landing flight, which is now programmed for mid-July time period.



CHAMPIONSHIP TILT—Hawks and Green Giants players wait for rebound in division basketball championship game won by Hawks, 55-49. Title gave Hawks fourth championship in last five years. Both teams entered contest with 9-0 records.

Hawks Defeat Green Giants To Win Crown

A balanced scoring attack backed by a strong defense gave the Hawks a 55-49 victory over the Green Giants and the 1969 division basketball crown last week in a battle of the unbeaten.

Both teams went into the championship playoff with unblemished 9-0 slates. The Hawks, who gained their fourth title in five years, were the victors in the Thursday Night League, while the Green Giants were the leaders in the Wednesday Night League.

The Hawks, managed by Jack Fletcher, were paced by the scoring of center Virgil Roznos and forwards Ken Norman and Fred James, all with 11 points each. Guard Ray Sena followed with 9, guard Dick Thiel and forward Bill Marsh had 6 each, and guard Jess Orna had one. Only Bob Santen, a forward, failed to gain the tally sheet.

The two teams battled evenly throughout most of the first half of play, with the Green Giants holding a three-point lead going into the final three minutes of the stanza. The Hawks scored six straight to catch them and then take a 26-24 lead at the bell.

The Hawks switched from a man-to-man to a zone defense in the third quarter to hold the Green Giants to their lowest scoring period of the game. From there, the Hawks went on to take leads of up to 13 points and were never headed for the rest of the game.

Top scorers for the Green Giants were Vyril Pierce with 25 points and Joe Griffin with 12. Managed by Don Baum, the team included Don Gehring, Tom Donovan, Tony Avelino, Duane Pyle, Chuck Pollitt, Terry Thomas, Scott Hawkins, and Bob Coopman.

Plans Finalized for Golf Lessons

With warmer and longer days beginning to appear, Recreation and Welfare is finalizing plans for the first series of golf lessons of the year for employees and their families.

Limited to five persons each, the classes will be at the Heartwell Golf Park at 6700 E. Carson St. in Long Beach. Class days will be Tuesdays, Wednesdays and Thursdays at 5:30 and 6:30 p.m.

Six Lessons

Charge will be \$10 for six hour-long lessons, including equipment. Full information on the classes may be obtained by calling the Recreation and Welfare offices at Downey, Ext. 6734, or at Seal Beach, Ext. 4018.



WINNER—Charlo Mann of Saturn S-II Schedule Management adds more luster to Buc Trimmer Trophy earned by Saturn S-II for February. Victory was second of program year for organization, which also holds lead in annual Buc Trimmer program.

Saturn S-II Personnel Take Top Spot in Buc Trimmer Competition

Consistent, high performance is paying off for Saturn S-II personnel in the Buc Trimmer Trophy competition.

The organization took the top spot in the February Buc Trimmer ratings and vaulted into a tie with Material for the lead in the standings for the yearly honors. Apollo, third in the rankings, was only two points back.

Saturn S-II has won first place in the monthly standings only twice during the eight months completed in the current program year, but has almost always been among the leaders.

Rounding out the Top 10 in the annual standings were, in order, Quality and Reliability Assurance; Administration; Research, Engineering and Test; Contracts and Pricing; Manufacturing and Facilities; and Management Planning and Controls. Financial, and Launch Operations in a three-way tie for ninth.

In the Top 10 standings for February, Saturn S-II was followed by Apollo; Material; Quality and Reliability Assurance; Administration; Research, Engineering and Test; Management Planning and

Controls; Contracts and Pricing; Manufacturing and Facilities, and Financial.

Outstanding contributors in the major organizations for February were:

E. D. Delnick, Administration; E. E. Cox, Apollo; T. J. Smith, Financial; R. E. May, Management Planning and Controls; K. L. Land, Manufacturing and Facilities.

And J. E. Adams, Material; R. O. Dale, Quality and Reliability Assurance; J. H. Hicks, Research, Engineering and Test, and Bud Green, Saturn S-II.

SCIENCE SEMINARS SLATED FOR APRIL

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

Colloquium: "Some Surface Formations in Anodic Oxide Films," April 11, 3:30 p.m.

Colloquium: "Nuclear Magnetic Resonance Studies of Ion Solvation," April 18, 10:30 a.m.

Colloquium: "Some Surface Properties of Ionic Crystals," April 25, 10:30 a.m.

Classified Ads

FOR SALE

AUTOS

'69 El Camino, best offer, 827-6093.
'68 Camaro, 4 spd., T.O.P., \$2,800, UN 4-4858.
'68 Camaro, \$2,450, 863-9992.
'66 Caprice Wagn., 871-1419.
'63 Corvette, 427, \$2,200, 323-8717.
'57 Chev. Nomad, JA 7-2510.
'56 Chev., Bel Air, \$395, 434-7205.
'68 Ford Cortina, 160cc, \$1,500., 528-3273.
'67 Mustang 2+2, 390 Eng., 213/292-4042.
'60 Falcon, Trans., \$75, 213/430-5766.
'59 Mercury Wagn., 923-7083.
'67 Buick Rivera, f/p. Vinyl Top, \$2,400, 921-1137.
'67 Opel Wagn., 213/631-0725.
'61 Dodge Truck, 1/2 T, 714/847-9846.
'64 Tempest, V-8 Stk., \$650, 433-4139.
'65 Rambler Amer. Wagn., 213/430-6865 (best offer).
'65 VW Sedan, Sunr., aft. 6, 697-0241.
'68 VW bug, auto, stick, \$1,825, 342-7317.

ODDS AND ENDS

'66 VW Bucket Seats, \$30 pr., TO 9-3821.
March Cover Table, \$15, 714/636-3536.
4" Joinder complete, Sears, \$65, 370-4760.
'63-'67 Corvette windshield, tinted, \$15, 865-0016.
Snow tires, (2) 6:50x13, \$25, 714/871-6168.
Model T chassis, 749-9775.
A-100 Hammond, 714/892-2059.
Guitar, Goya, Vox AMP, TO 7-4540.
Lost Presc. glasses S/B parking lot, 962-4139.
Lost 25-yr. tie clip, \$10 rew. S/B, 370-7236.

FOR RENT

Share Apt, Male, Garden Grove, 714/897-5079.
Big Bear Cabin, \$15/day, 430-3066.
2 br. Glendale duplex, 243-1524.

WANTED TO BUY

World Book Encyclopedias, HO 3-0720.

FOR SALE

MISCELLANEOUS

Desk, modern, \$25, 213/547-2683, eve.
Luggage rack, 213/439-9331.
Camera, Polaroid 210, \$25, 213/523-1942.
Racemasters, 2-8" wide 7:10x15, 679-4395.
Sewing mach., Singer, 714/893-4175.
Sewing mach. w/cab., \$50, 213/866-4463.
Racing car, Elva, 213/923-8012.
Honeywell Pentax, 35mm, 213/421-2935.
Electric dryer, \$45, 714/842-8058.
2 Medlan C.B. ear sets, 5 watt, 23 channel, 213/632-0724.
'63 Mobilhome, United, 12' x 58', 714/893-4175.
Baton, balanced, \$5, 923-2747.
Four wheels, Fairlane, 14", mk. offer, EL 5-1769.

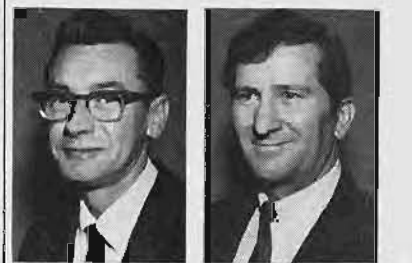
Quarterly PRIDE Winners Chosen From 16 Nominees

Gene Spurgeon of Apollo Scheduling and Change Control and Ed Long of Apollo Command Module Installations are Apollo Manufacturing's PRIDE quarterly award winners.

Spurgeon was the winner among administrative personnel, with Art Cathey, Apollo Cost Planning and Performance Analysis as the runner-up. Placing second to Long among shop employees was Rudy Nunez of Apollo Final Systems Installation.

The two award winners were selected from a total of 16 nominees representing 15 Apollo Manufacturing departments.

Long was commended for his assistance in improving the flushing, drying and leak test operations on the Apollo environmental control system. Spurgeon was honored for his contributions to an Apollo service propulsion system helium panel effort.



Gene Spurgeon Ed Long



TOASTMASTER TALK—Chuck Yee, left, of Apollo Engineering and president of Space Toastmasters, and Wallace Booth, company vice president, Finance, discuss potential contributions to industry of Toastmasters International. Club meets each Wednesday at 5:30 p.m. at the Carriage Room, 11032 Downey Ave., and is open to all division employees interested in speaking.

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