



**DISASTER FUND** — Among first contributors to the Mississippi Disaster Fund for employee victims of Hurricane Camille were, from left, R. E. Greer, vice president, Space Station; M. R. Olsen, Research, Engineering and Test; Harold Raiklen, vice president, Saturn S-II, and Jim Cook, MTO representative, Seal Beach. Moneys collected will be distributed to division employees.

## Roll-Out of Apollo 12 Saturn V at KSC Set

Roll-out of the Apollo 12 Saturn V is scheduled for early next week at NASA's Kennedy Space Center.

The 364-foot tall space system will be moved three miles from KSC's Vehicle Assembly Building to Pad A at Launch Complex 39.

Included in the stack are the S-II-7 and CSM 108. When the CSM is launched Nov. 14 on the nation's second lunar landing mission, it will bear the code name suggested by Space Division employees.

Space Division Launch Operations test conductors for the Apollo 12 are David M. Dysart, Spacecraft CSM, and Hal Roper, for the Saturn S-II stage of the Saturn V.

Prime crew for Apollo 12 are  
(Continued on Page 2, Column 3)



**FIRST CONTRIBUTION** — Joseph P. McNamara, executive vice president, right, presents first contribution to Mississippi Disaster Fund, a check from President W. B. Bergen, to Walter Epps, Jr., fund-raising chairman. Bergen and NASA officials toured the disaster area along Mississippi's Gulf Coast last week.

## 1,500 ENTRIES SUBMITTED

# Twelve Names To Be Selected for Astronauts' Final Decision

Approximately 1,500 entries were submitted in the Space Division employee "Name the Apollo 12 Contest" which ended today.

From these entries, a division PRIDE Award Panel next week will choose 12 names and forward them to the Apollo 12 astronaut crew for final selection. Nine names will be submitted from California; two from Florida Launch Operations, and one from Mississippi Test Operations.

The crew, Charles Conrad, spacecraft commander; Dick Gordon, command module pilot, and Alan Bean, lunar module pilot, gave division employees

## WEEKLY NEWSPAPER BECOMES BI-WEEKLY

Beginning with this issue, the Space Division edition of the North American Rockwell News will be published bi-weekly, instead of weekly. The next issue will appear Sept. 19.

"The cost reduction move is in line with the division-wide effort to save money in every possible area," said Earl Blount, division director of Public Relations.

the honor of nominating the code name for the Apollo command and service modules because of their "outstanding contributions" to the Apollo Saturn program both in Downey and at Seal Beach. The astronauts asked Grumman employees to suggest a code name for the LM.

The winning CSM name will go down in space history along with Gumdrop, Charlie Brown and Columbia.

The employee who has submitted the winning CSM name and his or her spouse will be guests of the astronauts for the Apollo 12 launch Nov. 14. Apollo 12 is to be the nation's second lunar landing mission.

Employees were asked to explain in 25 words or fewer why they submitted their particular code name for the CSM. In case two or more employees entered the same name, the reasoning behind the name selection will have a bearing on the final selection.

Dwayne Gray, PRIDE Administrator, said that "We've received several excellent and very appropriate names. And the thinking behind the names has shown that the employees have given a lot of thought to their selections."



**APPELLATION FABRICATION** — Manufacturing, Engineering and Administration submitted hundreds of entries for the "Name the Apollo 12 Contest" which ended today. Discussing names are, from left, R. E. Hills, Bill Misiak and H. H. Lyons. Winner gets trip to launch.



# Fund-Raising Efforts Under Way at MTO

## Assistance for Space Division Employees Continues To Grow

The Space Division's Mississippi Disaster Fund to aid division employee victims of Hurricane Camille continued to swell today, after four days of campaigning.

Harold Raiklen, vice president, Saturn S-II, and campaign chairman, said that "this is one of the most important fund-raising efforts in the history of the division."

Moneys collected will be deposited in the Fidelity Bank in Slidell, La., and disbursed by division management at Mississippi Test Operations to division employee-victims of the hurricane which swept through the Gulf Coast area Aug. 17-18.

### Homes Damaged

In the rains, winds of up to 190 miles per hour and high waves, 46 employee homes were completely destroyed and homes of dozens of other MTO employees suffered major damage. In some cases, employees escaped with only the clothes they were wearing.

No division employee lives were lost. This was due largely to the fact that at NASA's Mississippi Test Facility some 1,600 persons huddled in MTF buildings the night of the hurricane.

Serving as Fund Raising Chairman is Walter Epps, Jr., management systems analyst, Accounting, who served as the division's 1969 Savings Bond Drive chairman. Milo R. Olsen, manager, Division Test, Re-

(Continued on Page 3, Column 3)

## EIGHT DIVISION MEN

# NR Personnel To Participate in SAE Meeting

Twenty-two North American Rockwell employees will be among those participating in the 1969 SAE National Aeronautic and Space Engineering and Manufacturing meeting to be held at the Ambassador Hotel in Los Angeles, Oct. 6-10.

More than 100 papers and 12 panel discussions will relate to various aspects of engineering and manufacturing.

NR Employees participating in the conference are:

Glen H. Burow (Rocketdyne), panel chairman, High and Low Rate Producibility.

W. C. Johnson (Rocketdyne), panel secretary, High and Low Rate Producibility.

Ted Avery (Los Angeles), panelist, Preventive Maintenance — the Key to Up-Time in Manufacturing.

Harold Gould (Rocketdyne), panelist, Productive Application of New and Better Fabrication Techniques.

James M. Ross (Space), paper, co-author, The Environmental Control System for the Command and Service Modules of Project Apollo.

C. H. Hamilton (Tulsa), panel chairman, Developing and Implementing a New Aircraft Program from Engineering to Manufacturing.

Joe Halisky (Los Angeles), panelist, Technical Information Requirements of Manufacturing Personnel.

(Continued on Page 3, Column 4)

MORE THAN 80 TROPHIES AND 200 MEDALS

# Billie Yoshino Sets New Records

Billie Yoshino, daughter of Stan Yoshino, Manufacturing Engineering Subcontracts representative, has made a big splash in national swimming circles.

Billie set a new National Junior Olympics record last month in San Diego by winning the 11-12 age group 100 meter butterfly with a time of 1:11.5. Then Billie came back to swim the "fly" on the California region relay team which set another national JO record.

To capture the gold medals in these events, Billie competed against the best regional swimmers from throughout the United States, including Hawaii. These new medals have now been added to the 80 other trophies and 200 medals which Billie has won since she entered competition at age 8. The den in the Yoshino hilltop home in Monterey Park is known also as the "Trophy Room."

Before turning 11 last March, Billie had captured seven of 11 Southern Pacific Amateur Athletic Union records for the 9-10 age group in freestyle, butterfly and back strokes.

It seemed natural to ask

whether Billie had set her eyes on the 1972 Olympics in Munich. Both Billie and Stan agreed that this goal was a little premature. This fall, Billie will be dividing her time between her 6th grade studies at Brightwood Elementary School and preparing herself for the Senior Nationals in Cincinnati next August. "One

thing at a time," Stan said. "If Billie does well in the Senior Nationals, then we might start thinking of the Olympics."

Stan and Dorothy have one other child, Keith, 5, who Stan hopes one day will be the first Japanese quarterback on the "Fighting Irish" eleven of Notre Dame.



**FAMILY PORTRAIT** — Stan Yoshino, Manufacturing Engineering, and his wife, Dorothy, are proud of Keith, 5, and Billie, who has won national recognition for her swimming prowess. In 1968, at age 10, Billie was named *Los Angeles Times* "Woman of the Year" for San Gabriel Valley. If Stan has his own way, Keith will be the first Japanese quarterback for Notre Dame.

## Division Configuration Management Manuals Provide New Measuring Tool

The Space Division has taken another step to improve its new business posture.

A Space Division Configuration Management Manual (SD-CMM) has been issued. The manual provides a division yard-

stick for measuring all business systems effectiveness from a configuration management point of view and specifically defines the configuration management functional systems which are to be followed.

In a letter which accompanied distribution of the manual, President William B. Bergen said that "This document establishes the formal NR/SD requirements baseline for configuration management on new business contracts.

"Each of the central functions should begin now to develop business systems within their respective functional manuals which will implement these requirements. This effort is important in order to ensure that we will be responsive as these requirements become mandatory on Space Station and other new contracts," Bergen said.

What is configuration management? Essentially, it is a management tool, an element of the system approach to manage-

ment.

In a manual preface, it was explained that "The explosion of science and technology in the aerospace industry and the complexity of its projects, coupled with short lead times, have led to a necessity to formalize the management technology used during space-age product development. Both the military and NASA have universally adopted what is now widely identified as the system approach.

"The system approach, in simple terms, involves phased and detailed analytical efforts, plus an increasing depth of control, also phased, to ensure that all system requirements are met from the beginning of a concept throughout the life cycle of end products or systems.

"Configuration management is that element of program management which is involved with assuring that the technical documentation by which a system or product is identified, controlled, and recorded is in conformance with contractual agreements."

Requirements outlined in the manual are optional for current programs but are mandatory for future business.

Additional information may be obtained from N. C. Brady, manager, Division Configuration Management Office, Ext. 5023, or from Charles L. Stone, manager, Configuration Management Requirements, Ext. 6115 or 5440.

### Apollo 12 Roll-Out ...

(Continued from Page 1, Column 1) Charles Conrad, commander, Richard Gordon, command module pilot, and Alan L. Bean lunar module pilot.

Back-up crew are astronauts David Scott, commander; Alfred Worden, command module pilot, and James Irwin, lunar module pilot.

Support crew are astronauts Gerald Carr, Paul Weitz and Edward Gibson.

### Wilmot Hess Moves to Environmental Sciences

Dr. Wilmot H. Hess, director of Science and Applications at NASA's Manned Spacecraft Center, Houston, has accepted a post with the Environmental Sciences Service Administration.

Dr. Hess will assume his new duties this month as director of research for 12 ESSA Laboratories in the United States. He will be located at Boulder, Colo.

The research program encompasses meteorology, oceanography, aeronomy, Earth sciences, research on hurricanes and other related disciplines.



**APOLLO ATTRACTION** — An estimated 5,400 employees and visitors viewed the traveling display van in Seal Beach and Downey last week. The display was produced by NASA's Manned Flight Awareness Office, Huntsville, Ala., and brought to the Space Division through arrangements made by PRIDE Office.

### A&SG SCHOLARSHIPS OFFERED

Children of Aerospace and Systems Group employees interested in a company scholarship worth up to \$11,000 can enter the 1970 competition by acting promptly. The application in this paper should be filled out and mailed as soon as possible.

This year's program offers up to 25 scholarships.

High school seniors who are the children, stepchildren, or adopted children of A&SG employees with at least 1 year of company service as of Oct. 15, are eligible to enter the competition. If an employee who would

otherwise qualify is on leave, on layoff, retired, or deceased as of Oct. 15, his children are still eligible to enter the competition.

#### Selection of Winners

Approximately 75 semifinalists are selected on the basis of a test given Oct. 25. From the 75, about 25 finalists are chosen on the basis of further evaluation, high school grades, and a second test. Both tests are academic aptitude tests that require no preparation other than attention to current studies. Winners will be announced next spring.

OFFICIAL APPLICATION  
AEROSPACE AND SYSTEMS GROUP COLLEGE SCHOLARSHIP PROGRAM

(please print)

APPLICANT (must be graduating from high school in 1970):

(last name) (first name) (middle name)

(number and street) (telephone)

(city) (state) (zip code)

PARENT (must be employed by A&SG for 1 year as of 10-15-69):

(last name) (first name) (middle name)

Dept. No. / Serial No. / Phone Ext. / Division and Facility where employed

MAIL TO: Executive Secretary, Scholarship Committee  
North American Rockwell Corporation  
Aerospace and Systems Group  
Executive Offices, D891 A-58  
1700 East Imperial Highway  
El Segundo, California 90245

APPLICATION MUST BE RECEIVED AT THE ABOVE ADDRESS BY OR BEFORE  
OCTOBER 15, 1969



**LUNAR MISSION PRELUDE** — Apollo 12 Command Pilot Richard Gordon, a frequent visitor to Downey, is shown preparing to enter the CM for a test earlier this summer at NASA's Kennedy Space Center Manned Spacecraft Operations Building, Fla.



**NATIONAL FOCUS** — Stories on Hurricane Camille, the worst disaster ever to hit Mississippi's Gulf Coast, erupted onto front pages throughout the nation. Reading accounts of the tragedy are Garnie Scheide, left, and Pat Whitney, S-II Engineering.



**HELPING HAND** — R. W. Madsen, left, Mississippi Disaster Fund drive representative for Apollo CSM Programs, accepts donations from William L. Chaney, center, Thomas Borzon.

### Hurricane 'Camille' ...

(Continued from Page 1, Column 4) search, Engineering and Test, is serving as deputy chairman. Assisting Olsen is Jim Cook, MTO coordinator and representative at Seal Beach.

Joseph P. McNamara, executive vice president, pointed out that whereas the Red Cross is aiding hurricane area victims generally, the Space Division's Mississippi Disaster Fund will be used solely to benefit Division employees.

First fund check was given by division President William B. Bergen who last week made an inspection tour of the disaster area along with a government-industry group.

The group included Dr. Werner von Braun, director of NASA Marshall Space Flight Center, Huntsville, Ala., of which MTF is a part; Dr. Thomas O. Paine, NASA Administrator; Mississippi Senator John C. Stennis; Dr. George E. Mueller, NASA associate Administrator for Manned Space Flight, and Harry B. Finger, assistant secretary for Research and Technology, Department of Housing and Urban Development.

Bergen said after inspecting the area, "I've had some experience with hurricanes. I've never seen devastation such as this. I urge each employee to contribute what he can on a friend-to-friend basis."

Similar fund-raising campaigns are being conducted by NASA and other industrial firms with employees at MTF.

### IDEP Elects Jurist to Advisory Board

Irving Jurist, division representative to the Interagency Data Exchange Program, recently was re-elected by the IDEP membership of aerospace and defense industrial contractors to serve for a two-year term as a member of the Contractors Advisory Board.

### Review Course for CPS Exam Slated to Begin

A Certified Professional Secretary (CPS) Review Course will be offered at Westchester High School, 7400 West Manchester Ave., Los Angeles, beginning Sept. 16. Classes will meet Tuesdays from 7 to 9 p.m. through April 28.

The main purpose of the 27-meeting series of review classes is to prepare secretaries for the CPS examination. Subjects to be covered are business administration, secretarial procedures and skills, secretarial accounting, business law, and human relations. Opportunities for practice testing are included.

Students may enroll for the first semester of the two-semester series in the Library, Westchester High School when the classes meet for the first time. A nominal tuition fee will be charged per semester. Brochures detailing information are available from Elizabeth O'Donnol, Executive Offices, Ext. 5717.

### Smith Named to Audit Post

Troy Smith, manager of Internal Audit, has been elected president of the Los Angeles Chapter of the Institute of Internal Auditors.



**PRESENTATION** — Twenty years with North American Rockwell was marked recently by presentation of two-decade pin to Rocketdyne President S. K. Hoffman, right, by Aerospace and Systems Group President John R. Moore in special ceremony.

### Division Personnel at SAE ...

(Continued from Page 1, Column 5)

Art Papp and G. R. Geiger (Los Angeles), co-chairmen, panel, Manufacture Measured for Profit.

A. R. Affleck (Los Angeles), panel, secretary, Manufacture Measured for Profit.

Robert H. Stivers (Space), paper, Benefits of the Space Program.

H. S. Oder (Space), organizer, space technology activity.

Boris G. Palarz (Los Angeles), paper, Development of a Digital Variable Stability System.

W. Austin Davis (NAAD), panelist, The Relation of Technical Risks and Incentives to Weapon System Acquisition.

Charles E. Bodey and Ronald J. Knight (Ocean Systems),

paper, Development and Use of Underwater Work Systems.

Richard J. Arnold (Columbus), paper, Survivability Design of Forward Air Control and Light Attach Aircraft.

Paul L. Wickham (Space), section chairman, Aerospace Systems Safety.

Harley L. Tracy (Space), section secretary, Aerospace Systems Safety.

J. W. Sanford (Space), co-author, paper, The Saturn V for the 1970s.

W. C. McLeod (Executive Offices), chairman, section on Engineering Management.



### Technical Bookshelf

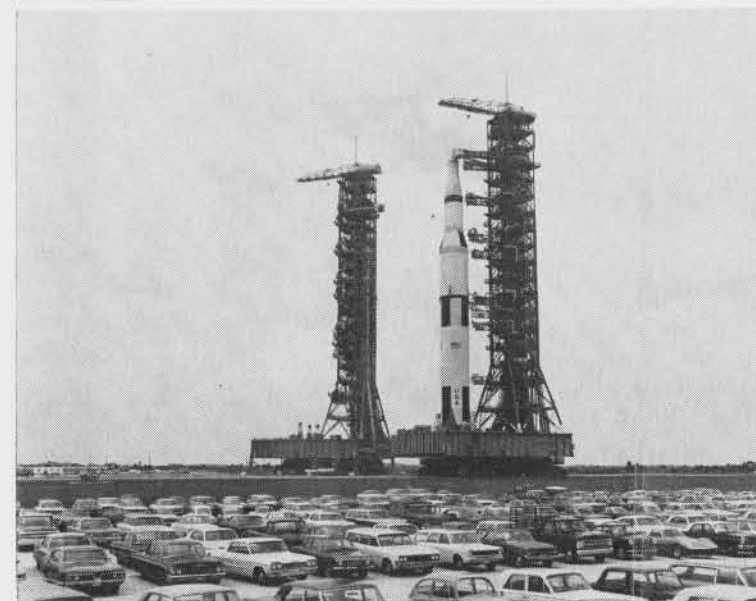
**INTRODUCTION TO OPERATION RESEARCH**, by Frederick S. Hillier, Gerald J. Lieberman, Holden-Day, Inc., \$12.50 — 1967.

This introductory text offers a comprehensive survey of the basic methodology and techniques of operations research, with emphasis on motivation and simplicity of explanation rather than rigorous proofs and technical details. Notable for its broad up-to-date coverage and clear expository style, the book is organized into five parts and separates the more advanced material from that on a relatively elementary level.

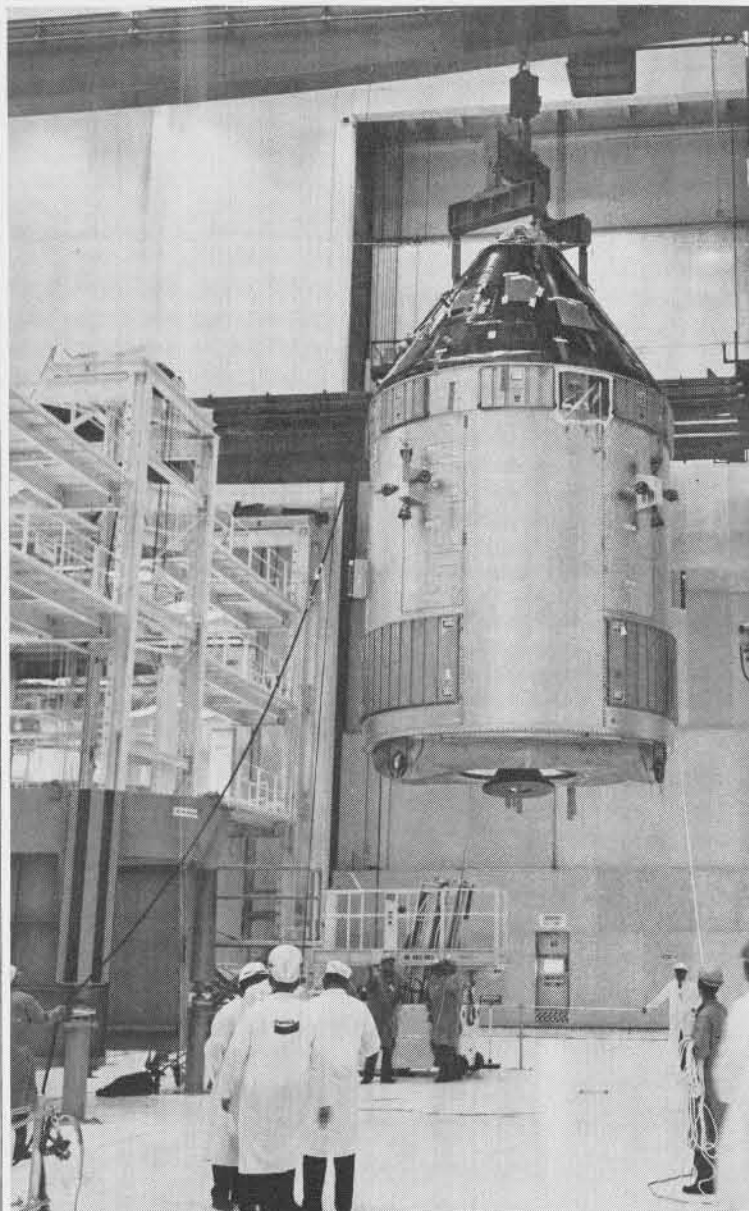
**FUNDAMENTAL OF SILICON INTEGRATED DEVICE TECHNOLOGY**, Volume 1, Edited by R. M. Burger,

R. P. Donovan, Prentice-Hall, Inc., \$12.45 — 1967.

This volume describes the practices and theories associated with three of the most basic technologies employed in the fabrication of silicon integrated devices. The aim has been to prepare a comprehensive source of information on these subjects so as to allow both the novice and the experienced practitioner to function more efficiently. Much practical detail is provided to assist in implementing each process; the theory underlying each process is summarized to provide better understanding of the process fundamentals. The authors have attempted to identify both the capabilities and the limitations of oxidation, diffusion, and epitaxy.



**APOLLO 13 LOCAL TRIP** — The Apollo 13 Saturn V vehicle with boilerplate spacecraft was moved to VAB last month.



**APOLLO 12 CSM** — SC 108 is now stacked in the Apollo 12 Saturn V in the Vehicle Assembly Building at NASA's Kennedy Space Center. It will be transferred Monday to Launch Complex 39A for Nov. 14 lift-off. Photo shows CSM being prepared for transport to VAB after manned altitude tests earlier this summer.



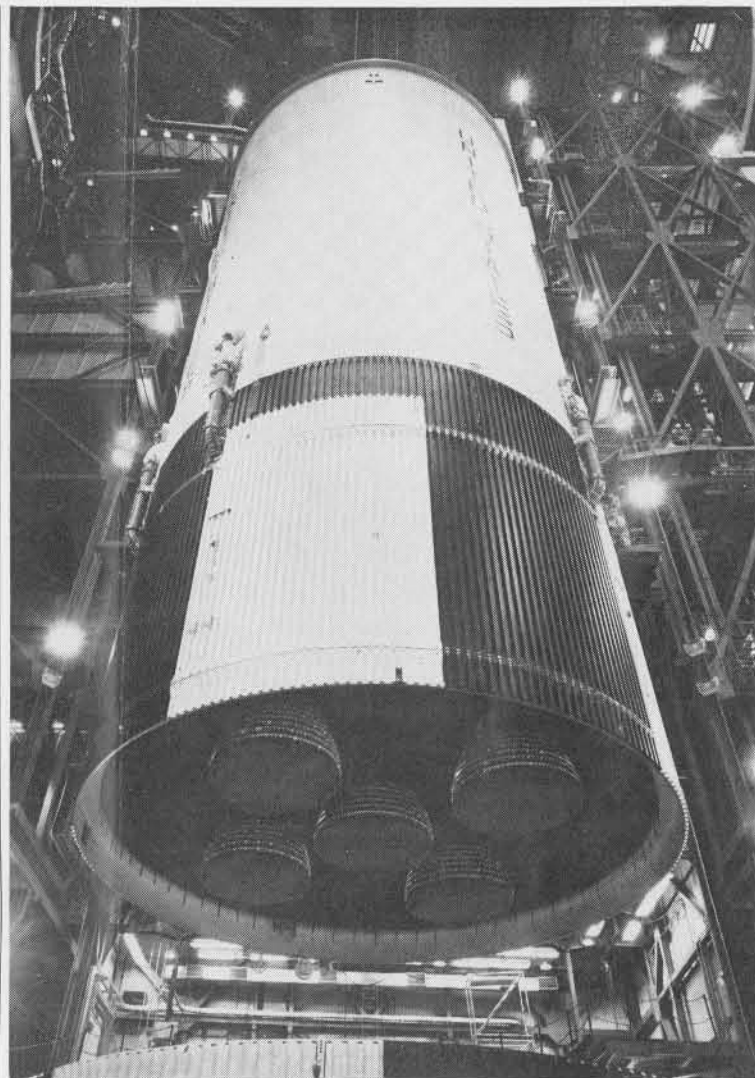
**SOFTBALL CHAMPS** — Lion d'Or Hi-Balls won the 1969 Space Division Women's Softball title with a season record of six wins, one loss, two ties. Coach Don Crabb denies that his team will challenge the Los Angeles Dodgers, however. Carol Cusey, extreme left, of Research, Engineering and Test, pitched, was team captain, this Sunday will receive Most Valuable Player Award at picnic.



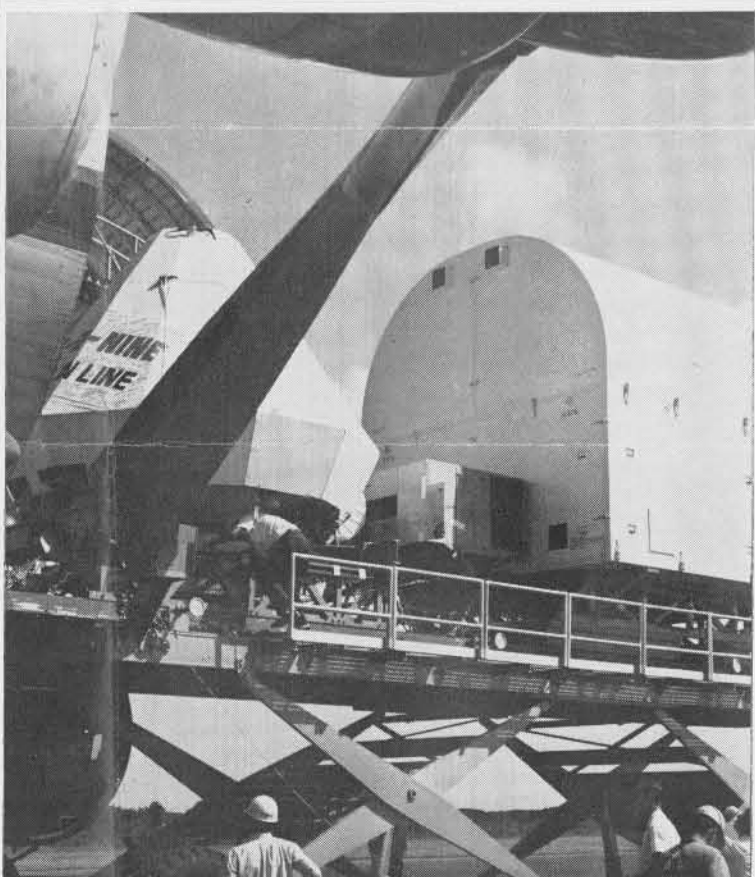
**MOTIVATION OCCUPATION** — Space Division and Autonetics employees comprise the board of directors for the Youth Incentive Through Motivation organization combatting the school "drop out" problem. Planning activities are, seated, Fred Rodriguez, Robert Arebalo, Autonetics; Manny Alvarez, Space; standing, Hank Martinez, Phil Padilla, Jake Alarid, Joe Gomez, Ted Garcia, Space.



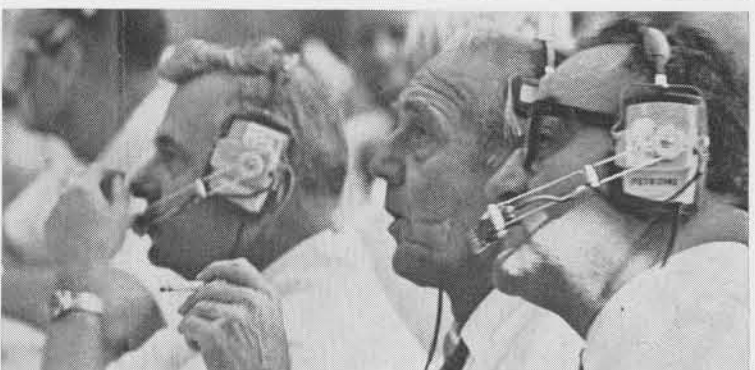
**FAIR VISITORS** — Charlie Brown, Apollo 10 Command Module, was taken to Sacramento last month to occupy a place of honor at the 1969 California State Fair and Exposition. Those who escorted Charlie Brown to the fair included, from left, Lloyd Cox, NASA Houston, and P. R. McCarley, Ossie Reid, D. T. Fillmore, and Chuck Burch, of Space Division. Fair closes tomorrow.



**UP, UP AND AWAY** — The 81-foot-long Apollo 12 second stage, weighing 84,367 pounds, is mated with the S-IC in the VAB. The S-II will be part of the 363-foot-high Apollo/Saturn V space vehicle scheduled to launch astronauts Charles Conrad, Richard Gordon and Alan Bean on second lunar visit this year.



**FLORIDA ARRIVAL** — SC 109, Command and Service Modules for Apollo 13, the nation's third lunar-landing mission, slated for launch early next year, is shown arriving at NASA's KSC. Apollo 12, the second lunar-landing mission, is slated for Nov. 14.



**OFFICIAL PREOCCUPATION** — Rocco Petrone, right, newly named Apollo Program director, intensely followed activities on the morning of the Apollo 11 launch. Other officials in Kennedy Space Center's Launch Control Center included Walter Kapryan, left, who succeeds Petrone as Launch Operations director, and Dr. Kurt Debus, KSC director. Changes were effective last week.

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