



Marshall Star



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NASA George C. Marshall Space Flight Center — Huntsville, Ala. 35812

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SCHMITT SEES SOLAR ENERGY TEST PROJECT — Dr. Harrison H. Schmitt, a member of the astronaut corps and newly appointed NASA Energy Coordinator, visited Marshall Center March 1 for a first-hand look at the Center's solar energy heating and cooling project. Shown with Schmitt (left) are Dr. Rocco A. Petrone, director of MSFC, and Charles C. Wood, acting chief of the Propulsion and Thermodynamics Div., ASTN. Wood gave Schmitt an in-depth briefing on operation and results from the test solar collector erected near the simulated residence (seen in background) which will have 31 such modules mounted on the roof facing south.

Deadline Is Near For Computerized Carpool System

Marshall Center employees who wish to participate in the computerized Carpool Computer System with the U. S. Army Missile Command have until March 15 to submit the required data. A letter from the Center director to all employees on Feb. 6 contained instructions and a data form for submission by interested employees.

Computer printouts of the Carpool Computer System will be placed in strategic locations throughout Marshall Center and the Missile Command. Names and addresses of all participating personnel will be included on the printouts.

The MSFC Carpool Bulletin Board, a completely different program, may also be used for arranging carpools.

Manpower Office officials have stated that it is extremely important that employees register carpool members, regardless of the method used to form the carpool.

Early Retirement Possible For Some Marshall Employees

Howell R. Riggs, director of the Manpower Office, has announced that the U. S. Civil Service Commission has determined that the law regarding retirement in major reduction in force situations may be applied at Marshall Center from now until April 30, 1974.

Public Law 93-39, an amendment to Section 8336(d) (2) of Title 5, U. S. Code, provides that an employee separated from the service during a period when his agency is undergoing a major reduction-in-force, after completing 25 years of service or after becoming 50 years of age and completing 20 years of service, is entitled to a reduced annuity under the Civil Service Retirement System.

Fifty-six employees took advantage of this early retirement provision in two periods of major reduction in force situations during 1973.

Retirement under the provision is voluntary and employees subsequently reemployed by the Federal government will become re-employed annuitants. This means that the re-employed annuitant's retirement continues and his salary is reduced by the amount of (See RETIREMENT on Page 4)

GPL Series

Space Payload Concept Tests Underway At MSFC

By AMOS CRISP

Stepped up activity is underway at the Marshall Center to meet the challenge of preparing for and accommodating the many varieties of experiments expected to be flown aboard the Space Shuttle in experiment carriers such as Spacelab.

Scheduled for flight late in this decade, the Space Shuttle will become the carrier for almost all of NASA's space payloads.

In order to attain the full potential offered by the Shuttle, efficient and flexible techniques must be developed to integrate experiments economically. This development of techniques is being done through a NASA-wide effort termed "Concept Verification Test" (CVT), with MSFC as the lead center. W. A. Brooksbank is manager of the CVT task team at MSFC.

The pioneering CVT effort will investigate typical experiments intended for Spacelab, a fully-equipped laboratory which will be "plugged in" to the Shuttle cargo bay and flown into Earth orbit. After flying its mission in orbit, the Shuttle will return the Spacelab to Earth where it can then be reserviced for another flight.

One operational CVT test facility is a General Purpose Laboratory (GPL) located in the west end of Building 4619. The GPL is cylindrical, 7.32 meters (24 feet) long and 4.12 meters (13.5 feet) in internal diameter, has experiment accommodations on two levels inside the cylinder, and a 4.57 meters (15 foot) platform (pallet) for mounting experiments outside the cylinder.

Under the auspices of the CVT program, two series of tests have already been completed in the GPL, in April, 1973, and January, 1974. Three additional test series are tentatively scheduled for the coming summer and fall.

The first of the upcoming test series, expected to begin in May, will involve life sciences demonstration experiments provided by the NASA-Ames Research Center, Moffett Field, Calif. A second test series, set for July, also involves life sciences and will be provided by the NASA-Johnson Space Center, Houston. A third (See CVT on Page 4)

Special Bicycle Lanes And Roads May Be Built

A survey is being conducted by A&PS officials to determine the extent of employee interest in special roads or lanes for individuals utilizing bicycle transportation to and from the Marshall Center work area.

According to J. N. Foster, deputy director of A&PS, consideration is being given to the construction of special bicycle routes as part of the Marshall Center effort to conserve fuel energy and improve physical fitness.

Redstone Arsenal and City of Huntsville officials are collaborating with Foster on the project. When completed, bicycle routes on Redstone Arsenal and in the Marshall Center area would connect with similar routes being constructed by the City of Huntsville.

A proposed plan, using two initial major connections through existing gates from the north and east, would be construction of bicycle roads on the abandoned railroad beds paralleling Rideout and Martin Roads. A third connection from Gate 8 at Goss and Patton Roads would follow Vincent Drive and the abandoned railroad track south around Madkin Mountain. A shortcut route over the gap between Weeden and Madkin Mountain is being considered as a prime route from the northeast to the Marshall Center area.

Implementation of the plan, according to Foster, depends upon results of the survey being made (See BICYCLE on Page 4)

Marshall's HOSC Had Essential Skylab Role

by Mike Wright

Nine months of unceasing activity during the Skylab mission at the Marshall Center's Huntsville Operations Support Center (HOSC) ended at 3:09 p.m. Saturday, Feb. 9, when the HOSC ceased its Skylab flight support operations. HOSC was an essential element in the Skylab success story.

Since last May 14, when the first Skylab mission was launched, the HOSC played a vital role in serving as a ground communications network facility in support of the Skylab program. Over 2,000 separate Skylab mission support actions were logged and worked during HOSC's period of activity. More than 400 personnel assisted in manning the consoles and communications readout instruments located in the MSFC Computation Lab.

While the astronauts were aboard Skylab, HOSC was fully manned and functioned 24 hours a day, seven days a week. During the hours that Skylab was uninhabited by the astronauts, this around the clock schedule was still maintained, although the number of personnel on duty was reduced.

In line with its role as the Skylab integration center, the Marshall Center was responsible for providing consultation and assistance to the Kennedy Space Center (KSC) during checkout and launch operations of the Skylab program and to the Mission Control Center (MCC) at the Johnson Space Center (JSC) during Skylab's orbital operations.

Through its communications networks, computer terminals and TV links with KSC and JSC, HOSC enabled the Marshall Center to provide in-depth technical support to both of these centers concerning systems operational status, scientific data acquisition and processing, system and experiment operating trends and problem resolution.

When Skylab contingency operations were put into effect last May, a special task team was formed within HOSC and at JSC to coordinate the trouble shooting that was being done for the troubled Skylab and to make recommendations for solutions to the problems.

Through the Mission Control Flight Operations Management Room (FOMR) at

JSC, the HOSC provided Skylab support throughout the nine-month mission. Such tasks were performed as analyzing unusual Skylab conditions identified by Mission Control; reviewing and providing inputs to daily flight planning changes; providing data on the simulations of systems on the ground; and evaluating systems and experiment hardware performance.

Although activities at HOSC do not match the feverish around-the-clock role of Skylab days, work will continue there during the next six or seven months in the area of Skylab science data processing and dissemination. HOSC will remain intact as an MSFC facility in the event that a Skylab B mission is to be flown.

The Apollo Soyuz Test Project, which is a joint American/Russian effort, will also place prelaunch and launch operations requirements upon the HOSC beginning early in 1975.

TRAUBOTH RETIRES

Dr. Heinz Trauboth, chief of the Systems Analysis Branch in the Computer Systems and Simulation Division of the Marshall Center's Computation Laboratory, has retired from NASA and returned to his native Germany.

Dr. Trauboth's primary area of involvement at the Marshall Center was in the field of Process Controller systems.

Dr. Trauboth will become the director of the German Institute of Computer Science and Industrial Applications and the Center for Nuclear Reactor Research.



COST REDUCTION—James B. Odom, Manager of the Space Shuttle External Tank Project, is shown presenting Angelo P. Leberte, Jr., (right) with two tickets to the Alabama Space & Rocket Center for his \$27,679,000 cost reduction report titled, "Relocation of the External Tank Vent Valves". The report was voted by the MSFC Cost Reduction Committee during their January meeting to receive special recognition.

Whitacre Receives Highest BSA Award

Walter E. Whitacre, an engineer in Program Development Directorate, recently received the highest award given by the National Court of Honor of the Boy Scouts of America.

At a meeting of the Tennessee Valley Council, BSA, Feb. 15, Whitacre was presented the Silver Beaver award for his distinguished service to boyhood. In presenting the award the Council said, "This Scouter is completely devoted to activities for youths, spending long hours with parents and Scouts selling the Spirit of Scouting."

Whitacre was a committeeman, committee chairman and Cubmaster of Latham Methodist Church Pack 360 from 1961 to 1963. Since April, 1964, he has served as assistant Scoutmaster and Scoutmaster of Latham Methodist Church Troop 314 and 364. He is also Skipper of Sea Explorer Ship 666.

In 1973 Whitacre was a Jamboree leader at the National Jamboree East near Pittsburg, Pa. He also served as chairman of the National Sea Explorer Regatta.

In addition to his Scouting activities, Whitacre was a member of the Board that founded the new Y.M.C.A., is a National Rifle Association instructor and a member of the U. S. Power Squadron. He attends Latham Methodist Church, serving as a member of the Council of Ministry, the Board of Trustees, Supervisor of Ushers and as an active Sunday School teacher.

Center Employees To Help Plan Festival

Two Marshall Center employees are serving on Decatur's Spirit of America Festival Board of Directors. Held annually on the Fourth of July, the Festival attracted national attention last year when Sen. Ted Kennedy gave the patriotic address and Gov. George Wallace received the Audie Murphy Patriotism Award.

Miss Irene Shafer, administrative officer in the Public Affairs Office, and Robert Doherty, of the Program Planning Office, are currently involved in planning for the 1974 Festival. Miss Shafer, who is the VIP chairman, has been given the responsibility for attendance of the patriotic speaker and the recipient of the Patriotism award. Doherty is serving as publicity chairman.

The annual Spirit of America Festival, held at Point Mallard Park in Decatur, has received two George Washington Freedom Foundation Awards for its patriotic activities.

Smoking Is Most Common Fire Cause

The Safety Office recently announced that the most commonly reported cause of fires at the Marshall Center is improperly discarded smoking materials. The most recent fire reported occurred in building 4200 where someone discarded a still burning cigarette on the floor near a sweeping mop.

Safety officials have asked that all employees cooperate by making sure that all cigarettes are completely extinguished before they are discarded.

The Marshall Star is published every Wednesday by the Public Affairs Office at the George C. Marshall Space Flight Center, National Aeronautics and Space Administration.

Contributions should be submitted not later than Friday noon to the MSFC Public Affairs Office (PA-1), Bldg. 4200 ext. 453-0034 and include originator's name, connection with the Center and telephone number.

The Marshall Star does not publish commercial advertising.

Joseph M. Jones, Director of Public Affairs

Guy B. Jackson, Chief, Public Information Branch

Christine Duncan, Editor

MARS News & Views



KITE DERBY WINNERS — Holding their trophies in front of the 9 x 11 ft. kite flown by Michael Lawson are (front row, l to r) Jeffrey Lawson, smallest kite; Ronda Olsen, smallest kite; and Jason Terry Moore, highest flyer. Left to right, back row, Michael Lawson, largest kite; and William Raley, smallest and most unique kites. (Photo by MARS Photo Club).

MARS Kite Derby

Despite unpromising weather at the beginning of the day, the 1974 MARS Kite Derby was successfully flown last Saturday in ideal winds.

Winners of trophies in the preschool division were: Highest flyer, Tara Clever, daughter of William Clever, S&E-AERO-AU; second highest, Michelle Bush, daughter of Jim Bush, SO; third highest, Jay Taylor, son of David Taylor, S&E-QUAL-ATE.

First through fourth grade trophy winners were: Smallest kite (8x13"), Ronda K. Olsen, daughter of Dr. Ronald K. Olsen, M-DI; most unique (inflatable), Becky Levinson, daughter of John Levinson, S&E-ASTN-SX; highest flyer, Jason Terry Moore, son of John Edd Moore, S&E-AERO-MX.

Fifth through ninth grade trophy winners: Largest kite (9x11"), Michael Lawson, and smallest kite (1.4x1"), Jeffrey K. Lawson, sons of Billy D. Lawson, PD-DO-SL; most unique (rotating kite), Chris Olsen, son of Dr. Ronald K. Olsen; highest flyer, a tie, Chris Olsen and Stephen Nurre, son of Gerald S. Nurre, S&E-ASTR-A.

Adult trophy winners: Smallest (4x3") and most unique (No. and South. America), William Raley, son of Nathaniel G. Raley, MO-P.

Consolation prize: Dwight McPeak and Bruce McPeak, sons of Bill McPeak, S&E-ASTR-EBC.

MARS Film Club

The MARS Film Club will show the 1971 color historic epic, "Cromwell," starring Alec Guinness and Richard Harris, Friday at 8 p.m. in Morris Auditorium. This selection is rated "PG" in that

there is some violence. However, the film is an excellent adult historical drama showing the conflict between the King, played by Guinness, and Cromwell, played by Harris which brought about the ascendancy of Puritanism in England. "Cromwell" was highly rated by film critics when it was first released.

Admission is free to all MSFC employees and their families. Employees are reminded to bring their badges. Information may be obtained from Dick Love, 3-3569.

MARS Bowling News

The first place Polecats dropped to a five-point lead while losing three points to Harry's Auto Parts, and second place Lily Flagg Auto Clinic won three points from Gibson Bar B-Q in the NASA Men's Bowling League.

High series for the week was bowled by Al Stiles with a 598 (203, 199 and 196). High game was bowled by Jim Galbreath Jr. with a 222. Other 200 games were: Ernie Miller, 220; Ed Demirjian, 207; Jim Vann, 204; Al Stiles, 203; Bob Sheffield, 203; Charles Rust, 203; and Steve Rose, 201.

MARS Softball

Last year's softball players have been requested to notify their team managers of their interest in participation in softball this season.

Individuals who are interested in playing softball this year and who were not affiliated with a particular team last year should call one of the team managers or Murray Castleman, 3-1034, or B. Malkmus, 3-1490.

MEETINGS

NASA-MSFC Retirees

A meeting of the Board of Directors and officers of the NASA-MSFC Retirees Association will be held in Bldg. 4494 on March 8 at 10 a.m. All members of the association have been invited to attend. Additional information may be obtained from the association secretary, Steve Dobbs, 881-1305.

AFGE

Members of Local 3434, American Federation of Government Employees, will meet Monday, March 11, at 7 p.m. at Carpenters Hall on West Clinton St., Huntsville.

Members will be asked during the business session to nominate candidates to fill the unexpired

term of vice president of Local 3434. The election for that post will be held April 8.

In addition, members will be asked to nominate and elect delegates to the AFGE Fifth District Convention to be held in Anniston, May 24-25.

All Local 3434 Shop Stewards will meet for the monthly Shop Stewards' meeting at 5 p.m. March 11 at the NCO Club. Shop Stewards should make reservations by calling the AFGE Local 3434 office at 883-7172 prior to March 8.

NSA

The MSFC-Redstone Chapter of the National Secretaries Association will meet at noon March 12 in the 10th floor conference room of building 4200. Sidney P. Saucier, of Program Development, will speak on "An Overview of Municipal Government."

EMPLOYEE ADS

Ads are published as a personal, non-commercial service to Marshall Center employees. Ad's must be submitted on MSFC Form 3332, signed by the advertiser and addressed to PA-1. The forms, available in supply, must be submitted by noon Thursday for publication in the next issue.

APPLIANCES FOR SALE

Dishwasher, G.E., copper tone, new pump & motor, may need heater element, \$35, 881-4105.

Refrigerator/freezer, Frigidaire, 15 cu. ft., good working condition, \$75, 539-8230.

Refrigerator/freezer, frostless, G.E. 17 cu. ft., runs but needs repair, \$25, 881-5536.

Frigidaire range, electric, 40 inch, white, \$35, 828-4251 after 5.

BOATS FOR SALE

Bassboat, 14 ft., Ebbtide, 35 hp Chrysler, trailer, trolling motor, depth finder, spotlight, 2 batteries, 2 gas tanks, \$1600, 232-1461 or 232-5888.

VEHICLES FOR SALE

'58 Mercedes, 180A, \$300, Felder, 881-4418.

'60 Pontiac station wagon, p/s, p/b, a/t, a/c, radio, seat belts, 881-4762.

'66 Mustang Fast Back GT, 4 speed, a/c, disk brakes, 534-2804.

'67 Falcon station wagon, a/t, p/b, p/s, New Hope, 723-4842.

'68 Pontiac Tempest, 4-dr., gold, a/c, p/s, p/b, power seats & windows, 18,000, actual miles, new radial tires, \$1295, 881-5655.

'72 Aldi 100LS, 4 dr., a/c, AM-FM, Mchelin Radials, 22.4 mpg, \$3,750, 427-3625 (Ardmore).

'69 Mercury Marquis, 4 dr., hardtop, fully equipped, new tires, 536-7825 after 5.

'71 Model 15' Shasta travel trailer, a/c, duals, sef contained, \$2500, 881-8906.

'73 Chrysler Newport, a/c, p/c, p/b, rear defogger, 8,500 miles, for sale or trade for: older model vehicle, 539-1476.

'73 Cougar, v/8, 350, a/c, a/t, p/b, vinyl roof, 18 miles per gal., \$2975, 536-5336.

MISCELLANEOUS FOR SALE

Folding chair, metal, church type, new condition, \$2, evenings 536-1215.

12-room Martin bird house, exterior plywood, painted white, \$15, 828-4564.

Impala front bumper (1973), two snow tires, 5.60 x 15, 859-1847.

Horse, 2 yrs. old, broke to ride, \$95, Clark, 852-3547.

Amplifier, Kustom, 150 watt, Tremolo, reverb, \$350, Couriex portable organ, 4 octaves, 6 stops, \$175, 723-4813, (New Hope) after 5.

Schwinn bicycles, girls, \$40, boys, \$45, Trucks, 539-4837.

5hp Minibike, \$80, 881-2456.

Lawn mower, 19-inch, cast aluminum, B&S engine, \$20, 881-3588.

Mattress and box spring with 6 wood legs attached, twin size, 881-1804.

Shotgun, Remington, model 1100, 20 ga., SB grade, Skeer, 837-4327.

Stereo tape deck, reel-to-reel, Magnavox, includes two microphones and stereo patch cords, \$75, 881-8976 after 4.

For sale or trade-Heath amateur HR-ZO receiver, MT-1 xmitter, NCX-3 transceiver, Kalange, 881-3258.

Low priced, non-operating, color TV chassis for use in TV repair course, 539-9095.

Parts for '69 Opel Kadett, radio, new 12V battery, McBride, 859-1074.

Rollaway bed, \$15, small dog house, \$5, Meyers, 539-9873.

Automatic pistols, 2 meter transceiver, complete, Falls, 883-9457.

195-15 Steel radial tire, \$12, Ford rim, \$8, both \$16, also slide tray for TDC, half price, 536-2836.

7.65 mm rifle, \$20, 881-1219 after 5.

Sear's 20-inch girl's Spyder bike with banana seat and basket, \$30, 539-4512.

Movie projector-Argus dual 8 & super 8, 1 year old, \$25, 881-5536.

24 ft. Lone Star, tandem boat trailer, tilt, winch, good tires & new rollers, \$280, Jennings, 852-1775.

4 almost new Chevrolet 15" wire wheel hub caps, \$30 for best offer, 536-8861 after 6.

TV, table model 16-inch G.E., needs tuner repair, Compact, 881-2608.

One creosoted utility pole and one cherry log, each 14' long, 539-3953.

FREE

Puppies to a good home, 6 weeks old, small breed, mixed terrier, 881-2598.

Puppies, 5 weeks old, one half beagle, will make good pets, 534-3144 evenings.

LOST

In building 4200 or vicinity, Parker fountain pen, reward for return, 883-1600.

RIDE/RIDERS

Carpool member or riders from Fagan Springs area to vicinity bldg. 4471, 7:45-4:15, Potter, 3-2852.

REAL ESTATE FOR SALE

1.2 acres, wooded lot, Madison west side Rainbowe mountain near Bob Jones high, would trade for property in Scottsboro, 837-0798.

69 acres, 65 acres open level, 7 rm. modernized house, 42' x 38' barn, 16 x 40 new metal building, 20 acres fenced permanent pasture with shade & pond, 5 miles S. Ardmore, 423-2585.

23 acres, city water, paved road, 2-1/2 miles southeast of Arab, 725-4458.

3/4 acre wooded lot with complete utilities, 60 x 12 mobile home, \$8,500, 232-5975 (Athens).

3 bdrm. brick, redecorated, 1-1/2 baths, 2028 Morningside Dr., NW, equity or can be refinanced, 536-0154.

WANTED

UHF converter for older model television, 881-0160.

Boat trailer with tilt action, approx. 1,000 pound capacity, Holmes, 534-3983.

2 loudspeakers for a stereo, Diggle, 3-1590.

To rent pasture in Athens area, 232-6574.

Ladies ice skates, size 6 wide, 881-0755.

2 or 3 rickets to NCAA tournament at Tuscaloosa March 14 or 16, 883-2898.

Used set of Ford 5-lug truck rims, two 15 x 7 and two 15 x 8-1/2-9, Talton, 423-2220.

16mm Bolex movie camera, used, would like regular and telephoto lens, Johnston, 232-0188 (Athens).

Service or repair manual (mech. & elect.) for '68 Ford wagon (Country Sedan with 302 engine), 881-2634.

Rims and/or heavy duty tires (G78-15) to fit Dodge 1/2 ton pickup, Wood, 232-6580.

Good, used, reasonably priced, Kirby vacuum cleaner with attachments, 837-3709.

Ford 8N farm tractor, in good condition, Honda minibike, reasonable, 837-4796.

Need to contact 6 people who want to buy capacitive discharge ignition at discount. Lifetime guarantee, assembled or kit, 536-0931.



PD-MP RECEIVES SUGGESTION AWARD PLAQUE — Herman P. Gierow (right), director of the Mission and Payload Planning Office, accepts the Suggestion Award Plaque from Howell R. Riggs, director, Manpower Office. The plaque is presented each quarter on a rotating basis to the organization having the best participation rate for the preceding quarter in Marshall Center's Suggestion Program.

Longevity Awards

Incentive Awards Office has announced that the following employees are eligible for NASA honorary service emblems and will receive their emblems in the next few days through their respective offices and laboratories.

35 Years: Carl Fortner, Management Services Office.

30 Years: Brice R. Alsop, Astrionics; Jeff W. McKinley, Astronautics; Theodore F. Henken and Dwight L. Herlong, Skylab Program Office.

25 Years: Forrest E. Suns, Procurement; Harold D. Trexler, PD, Program Planning Office; Edward G. House, PD, Advances Project Office; William T. White, Systems/Products Office; Howard B. Meeks, Howard B. Meeks, Paul S. Holland, William M. Burdine, Lewis P. Wood and Joe H. Herrin, Astrionics; Luke A. Solleau, Calvin C. Siddall, John C. Boger, Robert R. Tackett and Deward B. Malone, Astronautics Laboratory; Clydeas H. Covington and Lloyd J. Engman, QUAL; Jack M. Carroll, Carl H. Bass, Thomas O. Lester and Charles A. Swanson, Process Engineering; Thomas C. Yarbrough, Computation; Henry W. Bruce, Aero-Astrodynamic; John F. Stone, HEAO Office; and Howard D. Burns, Shuttle Project Office.

20 Years: Fred M. Capley, Winston C. Almon and Carl W. Taylor, Procurement; Kermit O. Hudson, PD, Mission & Payload Planning Office; Harry W. Garber Jr., Systems/Products Office; Lemuel F. Vaughan, Howard W. Drake and William P. Baldwin, Astronautics; Julian W. Lunde, QUAL; R. E. Vann Jr., John T. Hudson Jr. and Henry D. Stephenson, Process Engineering; Lowell D. Martin, Jerry D. Huffman and James S.

Spear, Computation; Billy N. Patton, Space Sciences Lab; Edward J. Skrobiszewski, Shuttle Project Office; and William S. Fuller, Mississippi Test Facility.

15 Years: Fred Manley, Facilities Office; Posey E. Luna, Management Services Office; Murrel D. Slayden, Systems/Products Office; Naomi T. Shankle, Joseph H. Kerr, George B. Doane III and Eloise D. Meyer, Astrionics; Ronald E. Jewell, Gloria R. Burgess, Linnie F. Webster and Curtis R. Bailey, Astronautics; James G. Reavis, QUAL; Rodney Drinkard, Process Engineering; Joe E. Pollock, Computation; Billy H. Neighbors, Aero-Astrodynamic; Larry D. Frederick and Theodore T. Bledsoe, Skylab Program Office; James B. Beaty and William H. Johnston, Saturn Program Office.

10 Years: Linda M. Zielinski, Chief Counsel; Joan S. Newby, Center Plans & Resources; Thomas J. Lowery, PD, Preliminary Design Office; Egbert E. Clark Jr., Astrionics; Ronald L. Young and Evelyn R. Talley, Astronautics; Alysius B. Ebner, Process Engineering; Sandra G. Henderson, Shuttle Project Office; and Nellie P. Lanier, Saturn Program Office.

5 Years: Robert J. Sublett and John R. Collier Jr., Process Engineering; and Terry W. West, Aero-Astrodynamic.

BICYCLE

(Continued From Page 1)
and interest evidenced by Marshall Center and Redstone Arsenal employees.

Marshall Center employees who are interested in riding bicycles to work on special roads or lanes may indicate their interest by completing the following form and mailing it to Charles H. Brasher, A&PS-MA-DIR. Additional information may be obtained by calling Brasher at 3-0902.

Name: _____

Bldg No.: _____

Enter Gate No.: _____

CVT

(Continued From Page 1)
test series involving material science demonstration experiments will be provided by Marshall Center personnel in September.

While the operators will be from the particular NASA center other government organization or university providing the demonstration experiment, outfitting these experiments in the GPL and operation of the GPL will be the responsibility of Marshall.

Significant problems can be discovered and alleviated in test series in the GPL long before an experiment is scheduled for space flight. The test series already completed have shown ways to reduce the amount and complexity of paperwork required to get scientists and engineers, and their experiments, ready for a space flight.

The testing and verifying of concepts for Shuttle Payloads is expected to grow in importance in the years ahead. CVT simulators, such as the GPL, will continue to assist in simplifying the steps that lie between the first concept of a space experiment, or experiment carrier, and its eventual flight as part of a Shuttle payload.

RETIREMENT

(Continued From Page 1)
his annuity.

Additional information regarding this early retirement provision may be obtained from the Retirement Coordinator, 3-3398.

SKYLAB ATM PI COMMENDS MSFC

Dr. E. M. Reeves, Skylab ATM principal investigator from Harvard College Observatory, has commended Marshall Center personnel for their efforts in making the Skylab ATM and the Harvard instrument a success.

In a letter to Dr. Rocco A. Petrone, director, Dr. Reeves said, "ATM has been a long arduous program, but with many problems, scientific, technical and political. Nevertheless, the scientific merits of the ATM solar data will doubtless justify the program. It is, unfortunately, not possible to express our appreciation to the many individuals of Marshall Space Flight Center who have contributed so many years in the building of the instruments, in their integration and test, during the mission operation in the preparation of the data processing programs, and in the many ATM systems development. I hope that you will accept our appreciation on their behalf."

BRITISH PATENT AWARDED

A British patent was recently issued to two employees of the Process Engineering Lab. The invention, made jointly by M. F. Estes and John R. Rasquin, was entitled "Method and Apparatus for Making Crystalline Materials."

The invention was assigned to NASA and the original patent has been retained at NASA Headquarters.



LONG-TIME EMPLOYEE — Carl Fortner, MSO, is congratulated by Dr. Rocco A. Petrone, director, upon completion of 35 years in government service. Dr. Petrone presented certificates and pins to Fortner and Fernander R. Kirby, Spacelab Program Office, for 35 years service, and to 18 other employees for 30 years service. Receiving 30 year pins were Bruce B. Allen, PE; Brice R. Alsop, ASTR; Mildred B. Bobo, TSO; Dudley O. Cope, AERO; George L. Filip, ASTR; Theodore F. Henken, SL; Dwight L. Herlong, SL; Marvin C. Hypes, ASTR; Mildred L. Lane, SL; Murray C. Lanter, QUAL; Jeff W. McKinley, ASTR; Shepard B. Newell, Procurement; Charlie E. Phillips, PE; Raymond W. Pisani, Center Plans; James D. Reynolds, TSO; Emanuel M. Strauss, SSL; James C. Taylor, ASTR; and Wil-lard D. Underwood, ASTR.

Classes To Be Held For Square Dancing

Chester Haggard, ASTN-ESW, has announced that a new class for beginning square dancers will be sponsored by the Orbiters Square Dance Club at the Big Spring Community Center.

Classes will be held on Thursday evenings from 7 to 8:30 p.m. and enrollment will continue through March 7. MSFC employees who are interested in joining this class may go to the Community Center tomorrow evening or contact Haggard, 536-9522, for additional information.