

HOUSTON, TEXAS

NASA LYNDON B. JOHNSON SPACE CENTER

Friday, December 9, 1977

VOL. 16 NO. 25



GOOD HEAVENS! - Lecturer Fred Kubesch is shown here demonstrating various space-related equipment for grade school students. Most of the students from kindergarten through college react to the demonstrations in a similar manner; one goal of the lecturer is to leave his audience wanting more.

Space education on wheels: We don't call them; they call us!

space professional asked a JSC employee, "Why do you guys waste money going to the Moon instead of just inventing a space suit for a little boy like that David - you know, the "bubble baby?"

question, I think, is not 'Why don't out and we are left disturbed – dis-

be doing in a space suit?"

that?", we say to ourselves in simi-Answered the employee: "the lar situations. But no words come

Just the other day, a nonaero- we just go out and invent a space turbed first with ourselves for not suit for David?' but, rather, 'If having that snappy response, disthere were no such thing as a Space turbed by an attitude that we, in Program, what would little David the aerospace environment with constant exposure to tech utiliza-"Now why didn't I think of tion, cannot understand, and disturbed most of all about the future.

> Will the next generation remember our contributions or will we be viewed simply as those who reacted to something that happened 20 years ago called "Sputnik?"

> Certainly David will remember what the space program did for him, but who will demonstrate and explain the potential advantages of this new frontier to all the other little boys and girls throughout the country and, perhaps, the world?

While many of us are thinking gloomily along these lines, employees at JSC involved in the Aerospace Education Services Project (AESP) see the issue from quite another viewpoint - like when will the phone stop ringing with requests from representatives of schools and civic clubs to help them bring space-related information into their area. For what began as a tiny pilot project in the early sixties at Headquarters called "the Spacemobile" has mushroomed into a 22unit nationwide program that must turn down more requests than it accepts.

At JSC, the first Spacemobile, now properly referred to as an "aerospace unit," worked out of an office set up at Ellington Air Force Base for teachers and civic leaders that wanted someone to come and talk about the space program to their group for just an hour or so.

So JSC got together with some people from Oklahoma State University and began a basically onsite program. By the late sixties, calls and letters were coming from all over requesting lecturers, materials, demonstrations, and most of all ex-

Continued on page 4

Physicians explain scope of astronaut applicant physicals

The medical evaluation for astronaut applicants includes four parts: medical history (illness, injuries, surgery, etc.); a thorough physical examination; specialty evaluations such as neurology, otorhinolaryngology, and ophthalmology; and special tests such as the treadmill test, the pulmonary function test, audiometry tests, and body chemistry examinations.

The flight surgeons of the Flight Medicine Clinic have been responsible for medical evaluations of the astronaut candidates at JSC. The major portion of these evaluations consist of a thorough medical history and physical examination. Specific studies of body functions such as vision, hearing, exercise capacity, and muscular strength are all important aspects of the overall health evaluation.

JSC goes on inactive status during the holiday season

As most JSC employees are in building 3 cafeteria, site protecaware, the Center will be on a basic- tion, and emergency medical serally inactive status from 5 p.m. vice. For emergency service, call the Dec. 23 to 7:30 a.m. Jan. 3 of the Center Operations Directorate new year.

Employee leave plans will, how- X-6421. ever, be strictly voluntary. Those who opt to work those days for any available during this period. For exsignments by their supervisors and supply departments will be closed. no administrative leave will be provided to support the closure.

point of contact, Gus McCown,

Most routine services will not be reason will be given productive as- ample, the photo lab, printing, and There will be no taxi or bus service, no mail delivery, and no switchboard or central computing activities.



MUSCULOSKELETAL EVALUATION - A thorough musculoskeletal evaluation includes measures of strength and joint motion. Dr. Mike Berry, an aerospace medicine resident of Ohio State University, looks on as an astronaut applicant gets his arm strength measured.



Since the yearend holiday season is traditionally a period of low activity, an emphasis on energy conservation seems appropriate and it need not impose on major programs.

Therefore, only designated buildings will be environmentally controlled, and these areas will be the primary method of accommodating the work force.

Program-essential activities will be exempt from total closure, such as the visitor program, the changeover of the SAIL facility, and the assembly and installation of the Shuttle Procedures Simulator.

Similarly, essential support activities will continue, such as construction, janitorial services, food service

The Travel Office will be closed, too, so travelers departing around the closure period will require ticketing in advance.

Only the Second Avenue gate will be open, and suppliers, transportation firms, and interfacing organizations should be forewarned that JSC will not be open for business during the closure period.

Working hours will be from 8 a.m. to 4:30 p.m. Since one door of each principal building will remain open to enable relocated personnel to obtain necessary materials from their usual work areas, it is suggested that personal and "pilferable" items be secured.

TREADMILL TEST PREPARATION - The cardiopulmonary team, headed by Dr. R. L. Johnson, prepares an astronaut applicant for the treadmill test. This exercise test is used to evaluate the cardiopulmonary fitness as well as to screen the applicants for hidden cardiac disease. The team leader, Dr. Robert L. Johnson (not shown in picture) has been the chief cardiologist during several astronaut selections.

Conservation reminder

Just a reminder that NASA's energy conservation program requires that office space thermostats be set to maintain a maximum space temperature of 68° F. Area thermostats are currently being reset to comply with this requirement, and during the transitional weather season some localized hot and/ or cold areas may be experienced.



Huss (30)

Kosinski (30)

Williams (40)





employees who had completed 25 or more years of service during the fourth quarter of the fiscal year 1977. Special recognition was given to Herman E. Williams who has completed 40 years of service. Williams was sent a letter of congratulations by NASA Administrator Robert A. Frosch. Williams began his career of Federal service in 1936 with the U.S. Army and has been with the Aircraft Operations



Division at JSC since 1967. The award recipients above are: Austin W. Frost, Clarence M. Presswood, Lester A. Stewart, William G. Folkes, Samuel H. Sponseller, Carl R. Huss, William W. Petynia, Charles C. Schneider, Richard B. Ferguson, John F. Hanaway, M. Meredith Frasher, Robert E. Kosinski, Elton A. Wilborn, Charles E. McQuain, Ellis B. Guess, Leon A. Kister, and Herman E. Williams. They completed 30 or 35 years of service. Some individuals, who are not pictured above, were unable to attend the coremony.

Hymel takes on part of complex institutional procurement duties

knows just how complex and time- tiation and administration of grants answered. consuming the entire process can and contracts in support of the be.

between the procurement divisions research and development (R&D) themselves - Institutional and Pro- oriented with the principal interbranches and sections that make up ty. the different aspects of procurement, from obtaining major flight- sponsible are primarily for lunar related items to grounds maintenance services. In any case, the procurement job doesn't sound like Research Program. The contracts one for an intern right out of college.

"Generally, we start most of our interns in the small purchases area particularly Landsat and LACIE. because that is where they can get basic procurement experience from Division, headed by Division Chief, the bottom up," says Paula Fyffe, Parker L. Carroll, mainly supports Supervisory Administrative Special- the seven JSC Directorates. All supist in the Institutional Procurement Division.

of Michael Hymel, a 1975 graduate services, construction, training, and of the University of Houston with a automatic data processing equip-Masters Degree in Economics, in- ment are procured here. terns will be assigned to other areas a background in small purchases.

Anyone who has ever become in- Division in February 1977. His than contracts. That decision is, in

Space and Life Sciences Directorate Besides making the distinction of JSC. The majority of his work is

> The grants for which he is resample analysis in support of NASA's Extraterrestrial Materials deal with the area of Earth observation and involve research in remote

port services, basic research grants, laboratory supplies and equipment, But occasionally, as in the case small purchases, architect-engineer

of procurement without benefit of ment Branch works within this someone in Hymel's position is Division and carries Center respon- then called upon to work out the sibility for all NASA research grants details of negotiation and adminiand contracts for technical services stration of the contract or grant. and nonflight items. According to Hymel emphasizes that he never Donald B. Cherry, Branch Chief, sees the proposal or any other inthe Branch spends about \$90 mil- formation until the decision to lion a vear. Hymel has handled several university R&D grants and contracts ernment auditors, techical people, during his relatively short career in and the personnel from the instituthe Branch. Recently, he negotiated tion in question to verify cost estia contract with the University of mates, to make sure that the budget Kansas to further develop the capa- is reasonable, and to take into acbility to remotely identify agricul- count such factors as labor costs tural crop type and condition by and overhead. using active microwave methods to augment Landsat data. He also ne- request from NASA or a NASA THURSDAY: Cream of Tomato Soup; gotiated a contract with TRW to facility for a specific task, service, conduct a program of testing to de- or function. A statement of work is termine the effects of rocket ex- written - and Hymel has been inhaust particles on orbiter surfaces. volved from that end also - de-

volved in the area of procurement principal duties have been the nego- fact, the first question that must be

Procurements of this kind are initiated by JSC in either of two ways: solicited and unsolicited proposals.

Unsolicited requests, states gram - there are the various face being the university communi- Hymel, are usually addressed to NASA Headquarters or to a specific NASA installation stating that the requester would like to study a particular area. The requester would show results of some previous work they had done, explain why the study is relevant to NASA needs, and tell what goals they intend to sensing techniques and applications, achieve and how they intend to go about achieving them. An example The Institutional Procurement of this type of proposal would be a recently proposed study on acidic rainfall from Texas A&M.

> A proposed budget is enclosed by the requester and the package is forwarded to the appropriate technical people who decide whether or not the project is worth pursuing from NASA's (or the NASA installation's) standpoint. If the effort is The Technical Support Procure- found to be worthy of funding, fund is made. Hymel then interfaces with gov-

Employees benefit from low-cost group insurance

The NASA Employees Benefit Association (NEBA) is an organiza- Frank Parker, Secretary-Treasurer tion of NASA employees that offers LOW COST Group Life Insurance and Group Travel Accident Life Insurance. It started 27 years ago at what is now the Lewis Research Center, and has chapters at each NASA installation.

What do the NEBA Insurance Plans do?

They GUARANTEE MONEY for your family when most needed.

The Group Life Insurance Plan offers coverage for the employee, spouse and children (under 19 years). The employee's coverage is based on salary; the spouse coverage is either \$5,000 or \$10,000 based on employee's salary and each child is covered for \$2,000. The coverage for spouse and children is optional.

The Group Life Insurance Plan is virtually "self insured" in that NEBA members participated in all of the benefits of good experience (low claims, maximum return on reserves, etc.) and limited liability. This is the basis for the continued low costs.

In addition to the low cost, of the JSC Chapter, emphasized these points: DOUBLE INDEM-NITY in case of accidental death (employees only); DISMEMBER-MENT for loss of an eye, hand, or foot (employees only); GUARAN-TEED CONVERSION privileges for members and dependents; eligibility for new employees in the Group Life Plan when reporting for duty. NEBA PAYS THE FIRST OUAR-TER'S PREMIUM for all new employees enrolled.

The Group Travel Accident Life Insurance Plan offers coverage for employee or employee and spouse. Four separate plans with three amounts of coverage under each are offered.

Group Life premiums are collected quarterly. Group Travel Accident Life premiums are collected annually.

Eligible employees may join either plan at any time. For additional information or application forms call extension 2681 or 5410. **BE SURE - INSURE.**



NEW BOSS OF THE YEAR - William E. (Gene) Rice, Acting Manager of the Earth Resources Program at JSC was selected Boss of the Year by the NASA Clear Lake Chapter of the National Secretaries Association (International). The announcement was made at the recent Executive Night Dinner. Candidates for this award are nominated by chapter members and submitted to a panel of impartial judges along with information about the nominees' education; participation in civic, church, and professional activities; achievements and awards; business experience; and personal comments. His secretary, Estella H. Gillette is shown proudly presenting the award to Rice

WEEK OF DEC. 12 - DEC. 16 MONDAY: Cream of Celery Soup; MONDAY: French Onion Soup; Beef

WEEK OF DEC. 19 - DEC. 23



Michael Hymel

Hymel was assigned to the Tech- most R&D work involving educa- the service to be performed. Often nical Support Procurement Branch tional or nonprofit organizations is of the Institutional Procurement contracted for under grants rather

The solicited proposal involves a Hymel points out that in his area scribing the job, the hardware, or

Continued on page 3

Braised Beef Ribs; Chicken a la King; Enchiladas w/chili; Italian Cutlet (Special); Brussel Sprouts, Navy Beans. Selection of Salads, Sandwiches, & Pies Daily

TUESDAY: Beef & Barley Soup; Turkey & Dressing; Country Style Steak; Beef Ravioli; Stuffed Cabbage (Special); Corn Cobette, Okra & Tomatoes, French Beans.

WEDNESDAY: Catfish w/hush puppies; Seafood Gumbo; Roast Pork w/dressing; 8-oz. T-Bone Steak; BBQ Plate; Chinese Pepper Steak (Special); Broccoli, Macaroni w/cheese, Stewed Tomatoes.

Beef Tacos; BBQ Ham Slice; Hungarian Goulash: Chicken Fried Steak (Special): Spinach, Pinto Beans, Beets.

FRIDAY: Seafood Gumbo; Liver w/ onions; Deviled Crabs; Roast Beef w/ dressing; Seafood Platter; Tuna & Noodle Casserole (Special); Whipped Potatoes, Peas, Cauliflower.

Chop Suey; Polish Sausage; German Potato Salad; Breaded Veal Cutlet (Special); Okra & Tomatoes, Green Peas. Selection of Salads, Sandwiches, & Pies Daily.

TUESDAY: Vegetable Soup; Baked Ham w/cherry glaze; chopped sirloin; deviled crabs. SPECIAL: Ambrosia salad, turkey w/combread dressing, giblet gravy, cranberry sauce, beans almondine. candied yams w/marshmallow, roll & butter, beverage - all for \$1.50!

WEDNESDAY: Vegetable Soup; Fried Catfish w/hush puppies; Braised Beef Ribs; BBQ Plate; Weiners & Beans; Shrimp Salad; Stuffed Bell Pepper (Special); Corn O'Brian, Italian Green Beans, Rice.

THURSDAY: Chicken Noodle Soup; Beef Stroganoff: Turkey & Dressing: BBQ Smoked Link (Special); Lima Beans, Buttered Squash, Spanish Rice.

FRIDAY: Seafood Gumbo; Broiled Flounder; Liver w/onions Seafood Platter; Fried Shrimp; Meat Sauce & Spaghetti (Special): Green Beans, Buttered Broccoli, Whipped Potatoes.

Friday, December 9, 1977

Procurement...

Continued from page 2

it is difficult to explain all the details required in a particular task. It is the job of the prospective firm to find the best approach and budget to get the task done. That is why competitive bidding is encouraged so that various approaches can be evaluated.

Cherry and Deputy Chief of the Branch, Robert C. Liounis, are very proud of Hymel's outstanding performance and ability to act as spokesman for the Center with the contractor. He has not only caught on quickly to the technicalities and inevitable delays of his own job, but he can explain the difficult distinctions and overlaps that occur between procurement areas.

Institutional Procurement, the Program Procurement Division deals generally with spaceflight systems, major programs, and associated ground systems. The R&D may was appointed chief of the Life Scioverlap in some instances. Since the ence Project Division (LSPD) and contractor-to-civil-servant ratio is roughly 2 to 1 on the side of the deputy. The division was formed contractor, responsibility for admin- from the Life Sciences Experiments istering a contract becomes great in Division formerly headed by John terms of cost and efficiency.

"If a competitive procurement is estimated at more than a million dollars." says Hymel, "then you have a very specialized selection process called a Source Evaluation Board that works together in evaluating sources and may take as long as 18 months."

In fact, Hymel's most complex space stations. assignment to date has been connected with his recent nomination as Secretary to a Source Evaluation charged with spacecraft life sup-Board for a major procurement in port, food and water, crew safety, support of the Space and Life Sci- and waste management systems deences Directorate.



Don't let that Cost Reduction go unreported !



Report the results on JSC Form 1150, to BH-4, **Cost Reduction Office**

For example, as opposed to Bush appointed Chief of LSPD

William H. Bush, Jr., last week William J. Huffstetler was named C. Stonesifer. Stonesifer recently was named to head the new Life Sciences Experiments Program Office. (See November 11 Roundup.)

The LSPD responsibilities include development and integration of Space Shuttle life sciences experiments and simulations of experiments for Shuttle payloads and for

Additionally, the division is velopment.

HOUSTON AERO HOCKEY

Houston Aero Hockey tickets

Houston Aeros gift cards will be

Roundup Swap Shop

in formal attire for the occasion.

Swap Shop advertising is open to JSC federal and on-site contractor employees. Goods or services must be offered as advertised, without regard to race, religion, sex or national origin. Non-commercial personal ads should be 20 words or less, and include home telephone number. Typed or scribbled ad copy must be received by AP3/Roundup by Wednesday of the week prior to publication.

LARGE TURNOUT FOR CHRISTMAS DANCE -- Christmas filled the air Friday and Saturday nights at the Gilruth Center,

where this year's dances were held. This is just one of the many common scenes of the band, the tree, and people decked out

CARS & TRUCKS

77 Chevy Pickup. C-10 Cheyenne, 14K mi, 2-tone paint, pwr steer & brakes, A/C, perfect cond. \$4,955 firm. Owner bought new 78, 332-2291.

74 Cougar XR7. White, all electric, all leather blue interior, auto, 351 V-8, pwr steer & brakes, A/C, AM-FM, cruise con-trol, 52K mi. \$3,200 or best offer. 499-2527 or 643-3655 or Gibbons, X-4528.

71 Chevy Pickup, 3/4-ton, pwr steer & brakes, auto, A/C. \$2,000. AI, X-5543 or 333-2397 after 5 p.m.

46 4WD Jeep. Xint motor, good tires, needs paint, registered 1977. \$800. 472-4456 after 5 p.m. or weekends. 73 Montego MX Brougham. Xint cond, \$2,195. 488-7566 or 479-4300.

76 Honda CVCC wgn. \$2,995. 471-4387.

471-4387. 76 Olds Cutlas Salon. 2-dr, V-8 350, bucket seats, velour upholstery, AM-FM w/ cassette, tilt steer, A/C, pwr steer & brakes, 22K mi. \$4,900. Rockford, X-2805 or 649-5768.

74 Datsun Pickup. Orange, custom stripe, Western rims, wide wheels, good tires, runs well. \$1,850. Cliff, X-4582 or 488-0286.

72 Dodge Polara SW. 400 engine, auto, pwr steer & brakes. \$2,000. Al, X-5543 or 333-2397.

69 Imperial La Baron. 2-dr HT, A/C, pwr steer, disk brakes, tilt & telescoping wheel, stereo w/ tape, 6-way seat, radio. everything works, low mileage, xInt cond. 333-2974.

cond, xtras inc. trailer hitch, load level shocks, cruise control. \$2,300. 333-3897. 74 Olds Custom Cruiser wgn. Xint

72 Ford Galaxy 500. 2-dr HT, V-8, auto, pwr steer & brakes, A/C, radio, good cond. \$1,200. Robinson, X-3918 or 482-6021.

They are regularly priced at \$8.50 70 Chrysler Town & Country 9passenger wgn. Engine 2 yrs old, pwr steer & brakes, A/C, good cond. Make reasonable offer. Newlander, X-3445 or 482-2119

482-2119. 61 Ford Falcon. 4-dr, many new parts less than 10 yrs old, faded baby blue, radio, buzzing turn signal, good tires, valid inspection sticker, owner reluctant-ly sacrificing because of social pressures. \$172.69 or best offer. McLane,

488-0312 after 6 p.m. 75 Monte Carlo

Boy's bicycle. Huffy, 5-speed "rail", good cond. \$25. 482-7643. 77 Honda CR. 125 XL dirt bike, 4

mos old, xint cond, leathers, boots, helmet, goggles. \$650. Shirley, 659-3117.

STEREOS & CAMERAS

Sears camera/telescope tripod. \$20. Lake, X-5271 or 523-2137. Stereo: Sony STR-6036A. AM-FM stereo receiver. \$100. Lake, X-5271 or 523-2137.

PROPERTY & RENTALS

Lease: brand new home in Middle-Lease: brand new nome in Middle-brook, 3-2-2, custom decorated, color coordinated in shades of green, unfurn. Last block in development so you can look out on pretty green field instead of houses. Will be ready by late Dec. 488-7232 after 5:30 p.m. or weekends. Sale: executive estate in one of

Friendswood's most desirable areas. 4-2-3¹/₂, formal living & dining, kitchen 4-2-342, ormain forma fo appt.

Property sale: 24 acres, Big Bend, hunting rights to 25,000 acres, deer & quail. \$3,100 or equity & take up pay ments at 7%. 472-4456 after 5 p.m. or weekends.

Rent: Ig double stall & tack room One-acre pasture, ne High School. 482-4239. near Friendswood

Rent: Duplex, adults, 2 bdrm, 2 bath, equipped kitchen, utility room, walk-in pantry & closets, 2-car garage, fenced yard, no pets. Patterson, 471-4419 after 6.

Rent: Compl furn home, 3-2-1. Lake Livingston, Cape Royale. Fishing, hunt-ing, tennis, golf, etc. Reserve early. Wk/mo/yr rates. 488-4487.

Lease: Wedgewood home, 3-2-2, fire spacious, immaculate, no pets, place.

place, spacious, immaculate, no pets, avail now. \$385/mo. 474-4769. Rent: Galveston West End. 2 BR by-the-sea condo apt. full furn. \$180/wk off-season; \$260/wk in-season. Clements,

MUSICAL INSTRUMENTS

Organ: Twin keyboard Baldwin in walnut w/ bench, xint co Cooper, X-6161 or 333-5883. cond. \$495.

Good used drum set f/ band student f/ Xmas present. Judy, X-3181 or 534-3785 after 6.

WANTED

Need ride from CLC behind interme-diate school to Bldg. 5, 7:30 - 4:00. Un-able to drive. Weekly rates. Abadie, X-2051 or 488-1682.

X-2051 of 488-1682. One person to join carpool w/ 4 others. Carpool leaves Meyerland Shop-ping Center at 7:15 a.m. f/ the 8-4:30 shift. Call Carl, X-4871, Cathey, X-6387,

shift. Call Carl, X-4871, Cathey, X-6387, or Russ, X-4871.
Need new members f/ Baycliff Bass
Club. Anyone welcome: meetings, tournaments, prizes. Parker, X-4241 or
Mobley, X-4428 for info.
Need riders for carpool from W Loop,
SW Fwy. Bellair area, 8-4:30.
McLaughlin, X-536 or 661-2974.
Firefighters needed! Men and women adult residents of CLC needed to join
CL C Volunteer Fire Dept. Rewarding

CLC Volunteer Fire Dept. Rewarding community service. You will be trained and equipped. Call 488-0023 any time.

Texas veteran w/ papers to buy land in Crockett area. Know of several nice tracts we could buy/split jointly at good price. Olszewski, X-3534.

MISCELLANEOUS

Squash blossom necklace, mother of pearl. Sheptock, X-3281 or 938-7019. Projector. 8mm Keystone. \$25. A Also mirrors, West Coast type truck, \$25/set. 941-5179 after 6. 4 wheels from Toyota pickup, \$7 ea

or all f/ \$20. Also 4 hubcaps. 333-3071. Tandem trailer suitable f/ hauling car

or tractor. Lights, elec. brakes, spare tire. \$625. 482-4874 after 5 p.m. 6.5mm Carcan Italian carbine. Good

f/ brush hunting or gun collection. Best offer. Jimmy, X-2961 or 554-2442.

Regulation size (4 x 8) pool table complete with four cues and cue stand. Composition board base with leveling ad-justments, Good condition. \$125. Ed,

X-3458 or 332-3709 2 tickets to Neil Diamond's show at

EAA ATTRACTIONS

and \$5.50.

TICKETS

The following tickets are available at the Bldg. 11 Exchange Store are on sale at the special rates of \$6.50 and \$4.00 through EAA. from 10 a.m.-2 p.m. Monday -Friday.

Dean Goss Dinner Theater -The comedy play "Murder-go- sold in Bldg. 11 to EAA members, round" is now featured at the Dean who in turn may exchange them at Goss Dinner Theater. Tickets are the Aero's Box Office in the Sumnow being sold for \$16 per couple mit for regularly scheduled home





or \$8 per person.

Disney Magic Kingdom Club -Free membership cards.

Christmas project is underway

The Christmas season is upon us again: that special time of year that lect the families and so forth. emphasizes love, peace on earth, and good will toward men.

However, because many low- the amount of money raised or the income families throughout the meeting of deadlines that counts," Houston area will not be able to says Mayhorn, "but rather the share this joyous occasion without happy expression on even one some assistance, a dedicated group child's face that makes it all worth of JSC and contractor employees the effort." headed by Julius T. Mayhorn will again sponsor the Family Affair donate their time to the physical Christmas Project - an annual aspect of the project or to make fund-raising campaign to assist monetary donations should contact needy families.

games this 77-78 season

Upcoming home games are with Birmingham Dec. 13, Czechoslovakia National Dec. 16, Edmonton

Dec. 20, and Winnipeg Dec. 21.

Committees began Dec. 5 to se-

"Although a lot of hard work

Anyone who would like to

Mayhorn at X-3381 by Dec. 13.

goes into the project, it is not just

 Monte Carlo. One owner, Xint
 cond. Sheptock, X-3281 or 938-7019.
 72 Ford Country Sedan wgn. A/C,
 auto, pwr steer & brakes, low mileage,
 steel radials, good cond. \$1,100. 944-3640.

HOUSEHOLD ARTICLES

Early American couch. Wing back

Larly American Couch, while back, fair cond. \$75. Also antique country oak wash stand. \$75. 488-4487. Large (3' diam) black wrought iron Spanish style chandelier w/ 8 amber globes. Plauche, X-6128 or 474-2660. 2 Spanish Captain's chairs, black & couch unbelctored warv price \$25 each

gold upholstered, very nice, \$25 each. Plauche, X-6128.

Antique tall carved red velvet chair Antique fair carved red velocit churn, \$250:19 oval wicker table, \$125; turn-of-the-century Spanish library table w/ bench, \$450. 488-5564. GE Potscrubber dishwasher. 11 mos. old, moved, must sell. 477-9546 after 5 Wed — Fri or weekends. Dining room set. \$425; antique

bining room set, \$425; antique child's desk, \$75; living room chair, \$20; bathroom vanity, \$35; 3 Early American chairs, \$75. 479-8752.

Spanish dinette w/ 4 swivel red uphol-stered chairs; one xtra leaf; x1nt cond. \$150. Walker, X-4788 or 488-0845 after 5 p.m.

CYCLES

2 bicycles. CTOH, men's 27" wheels, 10-speed, need some repair. \$50. Brenton, X-2731.

474-2622

Rent: New Galveston Island Jamaica Beach cottage. \$175/wk or \$30/day for weekends. 334-1640 after 6 p.m.

PETS

Collie puppies, unregistered. 6 wks

Collie puppies, unregistered. 6 wks old, free. Arndt, X-5973 or 482-3989. Boxer puppies. AKC, all fawn male & female. Ready f/ Xmas. Make your de-posit now. \$125 - \$150. Also poodle puppies. AKC, dark apricot toy male & female. \$150. 334-2294.

Bay mare. 7 yrs old, xint health, very ntle, loves children. Tack included. gentle. 482-4239.

2 tickets to Neil Diamond's show at the Summit Dec. 15. 488-4412. Shop manuals f/ 1972 Buick, \$10. Fisher, X-4488 or 331-3954. Locking gas cap f/ 72 Ford Ltd. \$1.50 or best offer. 333-3690. Gooseneck trailer. 16' utility bed, 7000 lb. gross, elec. brakes. \$850. Bailey, X-4211 or 337-2855. Oak firewood, \$100 cord delivered. 332-3338 after 5 p.m.

32-3338 after 5 p.m. Lg swing set: 2" galvanized pipe, 2 swings, rings, bar, ladder, seesaw. \$100. Nolin, X-5223 or 487-3294 after 5. Paint spray set: ¹/₄HP air compressor

(30 psi) & spray gun. \$30. Smith,

(30 ps)) & spray guil, 530, 500, 500, 74564, New Mauser Mark X. Cal 270 w/ adj trigger, \$160, Several pistols and Brown-ing auto shotguns, 488-1846 evenings.

ROUNDUP

NASA LYNDON B. JOHNSON SPACE CENTER

The Roundup is an official publication of the National Aeronautics and Space Administration Lyndon B. Johnson Space Center, Houston, Texas, and is published every other Friday by the Public Affairs Office for JSC employees.

Photographer: A. "Pat" Patnesky

Editor: Beverly Eakman

Page 4 Friday, December 9, 1977 Space education on wheels - we don't call them; they call us!

(Continued from page 1)

planations that would reach the lev- \$32 per diem for travel expenses el of the average student.

who are members of the University of California at Chico representing



James D. Poindexter

a lecturer with the project from 1966 to 1975 is now head of the JSC education program of which AESP is a part. He monitors the lecturers occasionally, keeps them abreast of new developments and materials, and acts as the interface between Chico and JSC and between JSC and those organizations and state departments that request aerospace education services.

The lecturers themselves are, of course, screened, have varied and impressive backgrounds of educational and aerospace-related experience, and go to Washington D. C. for their initial orientation and training.

But the most important qualification in this case is not how many degrees you hold or even your ability to captivate audiences. The magic ingredient is dedication - the kind of dedication that doesn't get upset stuck in a blizzard hundreds of miles away from home; the kind of dedication that hauls around 90 pounds of equipment at a time by hand regardless of the weather; and the kind of dedication that gives in to that last-minute request from an impressed teacher, principal, or parent to go speak again to a civic group in the evening without any supper or on Saturday when it would be nice to go home.

"It doesn't really matter to anybody else which way one of our guys wants to play it, whether he

beyond your 50-mile home base Today, there are four lecturers radius, not including the gas! It doesn't matter whether you have a flat tire, got stuck in the mud, or JSC. James D. Poindexter, who was had to drive for miles in a blizzard. There are no awards, no prizes, no pretty plaques, no special compensations. But there might be a letter from a little third grader when you get home asking when you can come back."

> Hill has a philosophy about dedication that probably is not shared by someone who isn't really "hung up" on an idea. Hill says all the lecturers, at JSC and at other Centers he has seen, have the kind of enthusiasm that spreads first to the teachers, from the teachers to the students, from the students to their parents, and from their parents to the organizations they belong to.

"There are people who think that NASA should be more involved in PR, that NASA should be selling themselves. I don't think so. The Space Program sells itself, and that's the way it should be, really. If you NEED PR, you're in trouble."

Hill laughs about the numbers of teachers from the various schools they have visited who call or write in to see how they can become lecturers, too.

Joy Higham, Administrative Assistant of the JSC project, says she sends them an application. "In fact, we have one lecturer – Sister Clarice, a nun, - working out of



George Johnson



IN SERVICE AND MINIWORKSHOPS - Teachers here at the Center study Landsat displays and learn how to work the information into their own subject areas. These workshops may last from a couple of hours to a full day, depending usually upon the time of year

Hill's home base is considered JSC, so his travel has been limited mainly to help in the overwhelming coordinating duties and to take care of the large-volume onsite program that is often booked three months in advance. Even so, he is living proof of his own philosophy of dedication. For example, Saturday, Nov. 5, he spoke to 100 cadets in Galveston about Shuttle, Viking, Space Settlements, and Voyager. At 6:30 p.m. Nov. 7, he addressed the Key Club, and on Saturday, Nov. 19, he drove to Lamar University in Beaumont to speak to a group there.

George Johnson lectures for JSC out of his home base, Colorado Springs. This means that his work involves a lot of travel, but he must keep his per diem expenses within the Headquarters budget so that he can go on a big program in New Mexico later or get through South Dakota before the snows come.

The AESP program is large and complex. It covers an eight-state area and can be thought of in terms of four basic categories: the onsite or local program, the field program, the workshop, and the community involvement program.

The onsite programs are basic demonstration-lectures that last one hour and are open to all those school groups that can get to JSC by 10 a.m. Sometimes these groups hear from an astronaut who has a

The field program is the one that involves travel - to schools, civic organizations, and other groups within or outside the bounds of the home base area. Most schools are scheduled through the state departments, but not necessarily. The large volume of requests cause the multicorrespondence involved with going through the state departments to become confused. Schedules may conflict and coordinating efforts become difficult. Many schools and groups just in the Houston area are on a long waiting list, and apparently the state departments are having the same problem.



John R. Donaldson

miniworkshops for inservice teachers who may come to the Center and spend a day learning how to apply various aspects of aerospace to their classes or a full-fledged cosponsored project involving the Civil Air Patrol, a college or university, and JSC. The Civil Air Patrol arranges an airlift to fly teachers either to JSC or, in the case of Houston area teachers receiving credit through the University of Houston, to fly the lecturer and teachers to visit other centers. The teachers don't just get a grand tour, though. They have to really put forth some effort themselves, learn to do some classroom demonstrations, and prepare lesson plans for their respective universities at the end of the workshop that shows they can really use the material and new concepts in their classrooms.

The most grueling, but often the most rewarding, effort is the community involvement program which usually occurs only a couple times each year. It is initiated at the request of a dignitary of some town or city, such as the mayor, and entails what amounts to a formal "sweep" of the city.

The request usually says something to the effect that the town is planning a Space Awareness Week, and that it will possibly have exhibits, posters, shopping mall presentations, parades, speakers, and interviews by newspapers and television. A lot is provided by the town itself, but lecturedemonstrations; classroom visits; evening workshops for teachers; speakers for civic clubs, universities, PTA's, and senior citizens groups; radio interviews; and talk shows generally involve the four lecturers.

All the lecturers go together, as well as Poindexter and an astronaut. There is usually an official banquet or luncheon, a rap session, and a press conference. Publications, lists of available films and other literature are distributed to the schools. Night and day for a week or more, the lecturers go from one group to another, load and unload equipment, and change their approaches or their subject with the type of audience.

Enthusiasm begets enthusiam, and that has been the case with the on-site AESP, which has grown 350% in the last three years. John R. Donaldson and Fred J. Says Hill: "I'm convinced that Kubesch are the two other lecturers derogatory comments made about involved in a considerable amount the space program are only the of field work. Itineraries are sent to results of ignorance and mystery, the men from JSC and usually not malice. And we have to begin around 9 a.m. The men rarely remember, too, that the space stay in one city longer than a day, effort isn't something you can but then there are those special explain to people in one sentence. requests from enthusiastic groups But once people have some real to go into a classroom or speak to exposure to aerospace science - at another group that evening. "It's their own level - then they feel hard to turn people down right altogether different about the pro-Hill displayed several drawers It is interesting, too, that the full of letters of praise and



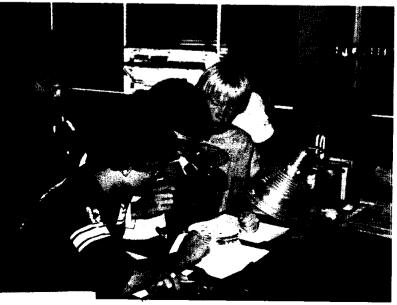


Thomas J. Hill

puts in an 8- or an 18-hour day,"

just like any of the men!"

Ames that totes those 90-pound spare half hour or so, or one of the telemetry units and does her stuff tour guides may help in demonstrations.



declares lecturer/coordinator GETTING INVOLVED - Lecturers always try to directly involve the students in Thomas J. Hill. "It's all the same: their demonstrations as shown in photograph.

after you've got them all en- gram almost invariably." thused," says Hill.

lecturers have compiled a book over applause, like the one from the the years that covers every conceiv- Dallas Independent School District able area of discussion, relates it to that said: "... you sent teachers aerospace, gives simple but detailed away hungry - they wanted instructions on demonstrations and more!" activities, and includes an approach for every audience.

kinds of workshops - from small have to do is let them see it!"

"Naw," he repeats, "you don't have to sell or justify anything Then there are several different about the space program. All you