Space Administration

Lyndon B. Johnson Space Center Houston, Texas



# **Brave Ulysses**

On-orbit photographs tell the story of a successful Ulysses deployment mission. Photos on Page 3.



### Hugs and roses

JSC employee Krystine Bui, who left her mother in Vietnam 12 years ago, is ready to welcome her to her new home. Story on Page 4.

# Space News Roundup

# Two shuttles await pad tanking tests

**By James Hartsfield** 

Both launch pads are now full and in action at Kennedy Space Center, with preparations under way for several busy weeks of tanking tests and the launch of Atlantis on STS-

Atlantis, on Pad 39A, is scheduled for a tanking test Wednesday to check for leaks in the 17-inch disconnect fitting and the aft compartment. The external tank will be filled with both liquid hydrogen and liquid oxygen in

an effort to make the test as launchlike as possible.

If all goes as expected, the Flight Readiness Review for STS-38 will be Oct. 29-30. Launch of STS-38 may be as early as Nov. 10.

'The leak in Atlantis was traced to the external tank umbilical connections and that's been replaced," said Al Branscomb, vehicle manager for Atlantis. "We anticipate a successful tanking test, but it's a test we need to do to be certain there are no further

problems.

The Department of Defensemission's crew-Commander Dick Covey, Pilot Frank Culbertson and Mission Specialists Bob Springer, Carl Meade and Sam Gemar-continues to train at JSC for the flight.

gone several leak checks this week after technicians began closing out hardware adjustments in the aft fuselage. A tanking test for Columbia is now planned for Oct. 29. Next week, workers at Pad B will install a variety of special television cameras, instrumentation and baggies over suspect leak areas to prepare for the test.

Checks of Columbia's aft fuselage plumbing by the special team troubleshooting the leak found a crimped seal

Columbia, on Pad 39B, has under- in the main engine no. 2 prevalve detent cover, similar to a damaged seal found earlier in the same area of engine 3. Technicians also have tightened a variety of connections in the aft, checking various seals and

Discovery arrived back at KSC's Shuttle Landing Facility Tuesday atop the Shuttle Carrier Aircraft. Discoverv will undergo post-flight inspections for the next several days in the Orbiter Processing Facility.

## **Truly writes** all employees about budget

As today's Congressional deadline for a new budget bill neared, NASA Administrator Richard H. Truly again thanked employees for their perseverance during the "stress and turmoil of these times.

JSC employees and other federal workers will face the threat of furloughs or governmentwide shutdown again next week if a budget or continuing resolution are not passed by Congress and signed by President Bush on Friday.

'The good news is that we have been able to reach this point without furloughing any employees and creating personal financial difficulties," Truly wrote in a letter to all employees. "I am hoping that this 'last resort' action will not be necessary even though we have needed to take the preliminary steps of officially notifying employees of this possibility.

The current continuing resolution temporarily waived Gramm-Rudman-Hollings law sequestration cuts that go into effect if budget deficit reduction targets are not achieved. If no new budget bill is passed and signed, a governmentwide shutdown could occur. If a budget bill that does not meet the deficit reduction targets is passed, employees could be furloughed for up to 22 nonconsecutive days or 30 consecutive days.

Together, we have not only continued the ongoing business of the agency, but have also just completed a spectacular return to flight," Truly added. "In return for your outstanding efforts, I again commit myself to doing everything possible to avoid personal impact to NASA employees as a result of the budget.'

Any significant developments in the furlough situation will be reported daily and on weekends on the recorded JSC Employee Information Service, x36765.



Students Cynthia Koch, left, and Dana Glasscock pay close attention as sign language interpreter Ray James passes on CPR teacher Sonia Fontenot's

# Deafness no obstacle to lifesaving

Anyone can save a life if they know how, and four of JSC's deaf employees jumped at the chance to learn cardiopulmonary resuscitation (CPR) last week.

The only difference in the standard 8-hour Community CPR class taught at the Safety Learning Center in Bldg. 226N was that interpreters were called in to make sure every detail was passed on correctly.

"We felt CPR was important, because you never know when you'll need it," said Cynthia Koch, an offset press operator for the Printing Management Branch. "Life is very precious. CPR I see as a gift-you could save a

Koch, a NASA employee, took the course with Dana Glasscock, Russel Hunter and Thelma Oppelt, all Hernandez Engineering Inc. employees who work with her in Bldg. 227. Sonia Fontenot, a Webb Murray & Associates employee at the Safety Learning Center, taught the class. JSC's Human Resources Office supplied interpreters Ray James and Jim Lawrence.

Jim Dovle, technical monitor for the Hernandez contract in Bldg. 226, set up the special class for deaf employees. He said Please see **DEAFNESS**, Page 4

# **Work starts next** week on Gilruth's new gymnasium

Construction will begin next week on a new gymnasium and foyer for the Gilruth Center, the first of four planned expansion phases.

The new 175-by-105-foot gymnasium, with a hardwood maple playing floor and a 27-foot-high ceiling, will be connected to the southeast side of the existing building.

Existing athletic offices will be converted to additional physical fitness floor space when the new central foyer and reception area are completed.

Vincent Johnson, project architect for JSC's Facility Development Division, said the Phase 1 pre-engineered metal building will add 14,350 square feet to the Gilruth. When all four phases are complete, the recreation center will have more than 32,000 additional square feet.

"Recreational facilities are an important factor in the morale and welfare of JSC employees and their families," said Teresa Sullivan, NASA Exchange Operations manager at JSC. "A significant part of these needs is met by the services and activities at the Gilruth

The gym is designed primarily for basketball and volleyball, but can be used for other activities as well. Its floor will be built on sleeper timbers covered by a rubber cushion and then the tongue-and-groove maple flooring. Johnson said it will be comparable to most college and professional basketball courts.

"Definitely, we need this," said Tim Sartor, recreation director. "It will open things up a little bit as far as sign ups go. Marketing the product out here is not a problem, placing everybody that wants to play is.'

Sartor said the new gym will allow basketball and volleyball leagues to double in size and provide options such as men's and women's leagues for volleyball, which now has only mixed leagues.

"The addition will prove to be a viable and costeffective solution," Sullivan said. "It will provide consolidation of both the old and new facilities and add more space for athletic programs and other activities."

Century Builders Inc. has been awarded the designbuild project, scheduled to be completed in April. The project, being built with non-appropriated funding earned by the NASA Exchange-JSC, will cost about \$738,000.

A minimum of disruption to recreational activities should occur during construction since the building is Please see GYMNASIUM, Page 4

# To whine or not to whine is question

### Suffering slings, arrows of non-smoking evokes complaints

By Brian Welch

amount of whining in these articles, but that's going to be almost as tough as quitting smoking. This is a good come a selftime to whine, after all, with Quit Day now just four days off.

I want to whine. I was born to whine. I live to whine. I even conjugate the word sometimes. Whine. Whinier. Whinlest.

This whole exercise, if anything, will make you whine. If Jerry Lee Lewis were writing the theme song for this column, the title would be "There's a Whole Lotta Whinin' Goin'

I decided this week to make a hip to whine these days. Welcome conscious effort to reduce the to the '90s, boys and girls, where the nouveau thing to do is kick a bad

habit or overdestructive behavior, whatever it is. Watch the morning shows between 7 and 9 a.m. and

make you realize something's up.

So if this be the New Puritanism, let's make the most of it! What are you giving up this month? Last week a friend of mine, who has been very

suddenly had a flash of understanding and compared my struggle with smoking to his realization that he

needs to cut down on potato chips. Yes, I said potato chips. He doesn't need the salt, he doesn't need the carbos.

you'll see enough hospital ads to his blood pressure and he could stand to lose a few pounds. Makes sense.

'Gosh," he said, "this really is a life-changing event, isn't it? It would be like me giving up Doritos for the

And indeed there is. But hey, it's tolerant of my incessant whining, rest of my life!" Yeah, right. Whatever works. Listen, I'll take flashes of understanding wherever I can get them.

But my friend may be onto something. One of the things I've observed in this process is that all of us, smokers and non-smokers alike, seem a little bit ginchy about the whole idea of behavioral modification. But as our society becomes smarter about behavior and health, all of us are seeing the need to wise up a little. Or a lot.

Just look at the number of support groups that have sprung up in recent years, many of them modeled on the

1990 GOAL: \$350,000

100%

75%

50%

25%



he wants to lower

Please see DIARY, Page 4

# **Ticket Window**

The following discount tickets are available for purchase in the Bldg. 11 Exchange 
Today Gift Store from 10 a.m. to 2 p.m. weekdays.

General Cinema (valid for one year): \$3.75 each.

AMC Theater (valid until May 1991): \$3.50 each.

Sea World (San Antonio, year long): adults, \$17.25, (2-day \$21.95); children (age 3-11) \$14.75, (2-day \$18.95).

Texas Renaissance Festival (Saturdays and Sundays Oct. 6-Nov. 18): child, \$4.95;

Children's Halloween Party: (11 a.m. Oct. 27, Gilruth Center); child \$4; adult, \$1. Halloween Dance: (7 p.m. Oct. 27, Gilruth Center, includes dinner and music by Fourth Wave Rhythm, costumes encouraged); \$12 per person.

# Gilruth Center News

Sign up policy-All classes and athletic activities are first come, first served. To enroll, you must show badge or EAA card and pay at the Gilruth Recreation Center. Classes tend to fill up four weeks in advance.

EAA badges-Dependents and spouses may apply for a photo I.D. 6:30-9:00 p.m. Monday-Friday.

Defensive driving-Course is offered from 8 a.m.-5 p.m., Nov. 17 and Dec 15.

Weight safety-Required for use of the Gilruth Center weight room. The next class will be from 8-9:30 p.m. Oct. 25. Cost is \$4.

Aerobics and exercise—Both classes are ongoing.

Fall run-The 10km and/or 2 mile races for the annual intercenter Run will be held throughout October. Runners may submit their times at the Gilruth Center.

Country and western-Dance lessons begin Oct. 29. The six-week class meets Mondays. Cost is \$20 per couple.



# New way to start your day! The JSC Employee Information Service now is

updating its reports at 8:30 every morning.

For the latest information on what's happening at JSC, from seminars to crew return ceremonies, the JSC Employee Information Service has what you're looking for.

The recorded announcement can be reached by calling:

483-6765

# Dates & Data

Houston Space Society-The Houston Space Society will meet at 7 p.m. Oct. 19 at the University of Houston, Center Underground, Pacific Room. James Davidson, a member of the National Space Society board, will talk about "Ulysses: The Environmental Mission to the Sun." For more information, call 639-4221.

Cafeteria menu-Special: barbecue link. Entrees: deviled crabs, broiled codfish, liver and onions. Soup: seafood gumbo. Vegetables: buttered corn, green beans, new potatoes.

Wings Over Houston-The 1990 Wings Over Houston Airshow will be Oct. 20-21 at Ellington Field. Contact Col. Ray Jones, 850-7545, or Lu Lewis, 784-5200, for more information.

Monday

LDEF conference—The first Post-Retrieval Long Duration Exposure Facility Conference is planned Oct. 22-26 at the Williamsburg Hilton Hotel, Williamsburg, Va. For more information, call (804) 722-0330 or (800) 868-0330.

Cafeteria menu-Special: chili and macaroni. Entrees: barbecue sliced beef, parmesan steak, spare rib with kraut. Soup: French onion. Vegetables: ranch beans, English peas, mustard greens.

Tuesday

BAPCO meeting-The Bay Area PC Organization will meet at 7:30 p.m. Oct. 23 at the League City Bank and Trust. For more information contact Earl Rubenstein, x34807, or Tom Kelly,

996-5019.

Cafeteria menu-Special: corned beef hash. Entrees: meatballs and spaghetti, liver and onions, baked ham with sauce. Soup: split pea. Vegetables: buttered cabbage, cream style corn, whipped potatoes.

Wednesday

Threshold meeting—The Threshold Group will meet at 4 p.m. Oct. 24, in Bldg. 45, Rm. 351. For more information, contact James Sturm at x33085.

AFCEA meet—The Armed Forces Communications and Electronics Association will meet at 11:30 a.m. Oct. 23 at the Holiday Inn on NASA Road 1. Lt. Gen. Thomas Kelly will speak. Tickets are \$12 for members and \$14 for nonmembers, and includes lunch. For reservations contact Veronica Mullins or Tammy Williams at 283-7342 by Friday, Oct. 19.

SAFE meets-The Houston chapter of the SAFE Association will meet at 5:30 p.m. Wednesday in the Safety Learning Center, Bldg. 226N. Stephen Porter, JSC systems integration manager for extravehicular activity, will speak on Duke University's "Atlantis Deep Dive." For more information, call Karin Porter, x33381.

Cafeteria menu-Special: barbecue link. Entrees: cheese enchiladas, roast pork and dressing. Soup: seafood gumbo. Vegetables: pinto beans, Spanish rice, turnip greens.

**Thursday** 

Amateur Radio Club - The JSC Amateur Radio Club will meet at noon Oct. 25 in Bldg. 16, Rm. 253. For more

information, call Gil Carman x38031.

NASACOM meets-NASACOM a Commodore users' group, will meet at 7:30 p.m. Oct. 25 at the Clear Lake Park Bldg., 5001 NASA Road 1. For more information, contact Glenda at

SCS meets-The Houston Chapter of the Society for Computer Simulation will meet at 11:45 a.m. Oct. 25 at Lockheed Plaza 3 Pic Rm. Ed Smith, Lockheed systems engineering department operations manager, will discuss the "Role of JSC Engineering Simulation in Apollo and Shuttle." For more information call Robin Kirkham, 333-7345, or Wade Webster, 486-6450.

Cafeteria menu—Special: chicken fried steak. Entrees: roast beef with dressing, fried perch, chopped sirloin. Soup: beef and barley. Vegetables: whipped potatoes, peas and carrots, buttered squash.

#### Oct. 26

Chili cook-off-The Center Operations Directorate will hold its chili cook-off at 4 p.m. Oct. 26 at the Gilruth Center. Public tasting begins at 7 p.m. everyone is invited. Tickets are \$3 which include refreshments, tasting kit, voting token, entertainment and door prize drawing; tickets must be purchased in advance from COD personnel (last day to purchase tickets is Oct.

Cafeteria menu-Special: fried chicken. Entrees: fried shrimp, baked fish, beef stroganoff. Soup: seafood gumbo. Vegetables: okra and tomatoes, buttered broccoli, carrots in cream

#### **Property**

Sale or trade 6 acres in Crockett, TX and equity n mobile home, 1,350 sq. ft. or trade for motor home in good cond. or \$35K, 12x16 wkshp. 485-4592.

Rent: Lake Livingston, wtrfrnt. 3-2, CA&H, furn., decks, pier, new cond., wk/wknd rates. 482-1582. Rent: Lake Travis cabin, priv. boat dock, CA&H, equipped, accomm. 8, dly/wkly, \$80/\$325. 326-5652.

Lease: CLC, Bay Forest II, 4-2.5-2, 2,600 sq. ft., long term, \$1,500/mo., principals. 488-4398. Lease: Seabrook townhouse, 3-2.5-2C, 1st 22K cash. 333-7345 or 474-2339.

cash. 333-7345 or 474-2339.

Rent: 1 BR condo, Webster, W/D, fans, CP, patio, avail., 11-1-90, \$375/mo. 481-4549.

Rent: Dickinson, 3-2-2, FPL, appli., fenced, CA&H, trees, \$600/mo. 337-5120.

Sale: Corner lot, Lake Livingston, 60x115, util. avail., \$9,500, OBO. x30032 or x31834. Rent: Baywind I condo, 1 BR, new carpet/paint/

wallpaper, \$350/mo., avail. Nov. 1. x36353 or 480-9280.

480-9280, Sale: Orlando, FL retirement home, golfers dream, 2-2, den, Florida rm., golf cart, on 18 hole course, furn., \$49,900. 280-2523 or 333-1762. Sale: Kerrville, TX, 12x60 mobile home, furn., good cond., CP, cov. patio, \$7,500. 333-6150 or 326-1254.

Sale: Hot Spring Village Arkansas, wooded lot, util, improvements, \$13K, OBO. 333-6150 or 326-

1254. Sale: Friendswood, Wedgewood Village, 3-2-Sale: Friendswood, Wedgewood Village, 3-2-2D, contemp., FPL, atrium, whirlpool, decking, trees, 1,900 sq. ft., \$93K. 482-2138.
Sale: Lake Livingston, 3-2, deck, 1 hr. north of Houston, \$59K. x32202 or 538-2417.

Sale: Limestone Cty., 40 acre pastureland on paved road, fenced, ponds, barn, corral, catch pen, 2-2 mobile home, by owner, \$68K, 479-3965.

Sale: Friendswood, Mustang Meadows, 2.03 acres, util. avail. 481-4187.

Lease: Seabrook, 5-2-2, fenced, blinds, CA&H, CL High district, \$775 plus dep., ref. req. 479-1004

Rent: Galv. condo, Seawall & 61st, furn., sleeps

6, dly/wkiy/wknd rates, cable. x33479 or 486-Sale: Foreclosure, Shoreacres, 4,200 sq. ft., 5-

4-study plus mother-in-law suite, wkshp., on wooded acre, \$114,900, can fin. w/\$15K dn. x38039 or 333-1751.
Rent: LC, Oak Manor, 3-2-2, FPL, new paint/

carpet, cov. patio, fen., trees, 20x20 garden, alarm, fans, frig., W/D, lawnmower, avail. Nov., \$750 plus dep., no pets. x39230 or 332-3278. Sale: Bay Glen, 2-story, 3-2.5-2C, 4th BR option, alarm, FPL, leaded glass dr., wndw. cov., guttered, workbench in gar., \$120,900 assum.

x39230 or 486-7106. Sale: 60 acres, 3 mi. from Karnes City, TX, on Hwy. 80, 50 mi. from San Antonio. 783-9164. Sale: Nassau Bay, 4-2.5-2, built-ins, plantation

shutters, parquet floors, hot tub, \$114,900. Jim, 333-9410 or 333-6405.
Sale/Lease: Baywind II condo, ground floor, 1
BR, W/D conn., FPL, \$365/mo. 486-0898.
Sale: Univ. Green, 2-1-2, patio home, fen., new

paint, vaulted ceiling, blinds, drapes, fans, FPL, deck, \$76K. 480-7338.

Sale: Lakeside condo, The Landing, 2-1, 25' boat slip, \$44K, fin. avail. w/20% dn. Carol, 244-9647 or 667-7023

#### Cars & Trucks

camper shell, \$2,500 and take up pmts. of \$224/ mo 485-4592

'84 Camaro Z28, loaded, 5-spd., T-tops, V8,

55,200. 554-2572.

90 GMC crewcab, 1-ton long bed, loaded, 5-yr. warr., 20K mi., \$20K. Rick, 332-9221.

69 TR6, OD, AC, reb. eng., low mi., ex. cond.,

'86 Buick Park Ave., 4-dr., V6, ex. cond., loaded, 69K mi., \$7,900. 482-8511.
'87 Ford Tempo GL, 4-dr., 73K mi., \$4,500. 538-

'77 Gran Prix, good cond., new trans./tires/radiator, 98K mi., \$1,600, OBO. David, 282-3827

or 554-5514.

'89 Honda Accord LX-I coupe, ex. cond., 17K, 5-spd., \$13,500, OBO. 333-6818 or 486-6859.

'89 Dodge Ram 100 truck, 16,300 mi., 7-yr., 70K warr., sell for payoff. 333-6821 or 474-3637.

'84 Subaru GL Station Wagon, runs very good, auto., new tires, \$3K. Cristina, x30940.

'82 Toyota Supra, loaded, \$3,500, OBO. 474-4084.

'89 Olds 2-dr. Calais, loaded, warr. James, 470-8759. '86 and 1/2 Nissan short bed PU, 4 cyl. Z24

'84 Ford Tempo, 2-dr., std., \$2K. 332-4732. '86 Plymouth Conquest TSI, 5-spd., loaded, new clutch, ex. cond., \$7,500. Kelly, 282-4255 '79 IHC Scout, 4 WD, hard top, roll bar, \$3,250,

Cycles

'83 Honda XL 600R, runs, \$525. Brad, 485-

333-7009 or 486-6762 '88 Suzuki RM-125, ex. cond., \$1,800. x39382

81 Honda 900 custom, front fairing w/radio, 14K mi., good cond., \$1,200. Frank, 283-5479 or 332-7383.

tire, \$900. Bill, x38705.
'81 Honda CB 900F, sport model, fresh Avon tires, helmet, 13K mi., \$1K, OBO. Wayne, 283-6514 or 337-5990.

#### **Boats & Planes**

90 17' Bayliner Capri, motor, trlr., \$500 and take up pmts of \$120/mo. 485-4592.
'83 27' Chaparral cabin cruiser, new electronics, swim platform, full galley/head, AC, sleeps 6. x31833 or 534-6073.

87 18' Celebrity Bowrider, 165hp I/O, galv. trlr., new spare, ex. cond., \$10K, OBO. 286-3626.
1/3 interest in J-24 racer, boat involved in CL

16' bass boat w/85hp Johnson, trolling motor, depth finder, \$2,650. 482-0447.

18' Jensen canoe, Kevlar w/front/rear sliding, '87 19' Basscat, 200 suz, \$11,500. Frank, 283-

5479 or 332-7383. 17' Lamar, 115hp, fiberglass ship-lap hull, SST prop, Sportsman trlr., \$3,200. x35214 or 538-1849.

#### **Audiovisual & Computers**

Haddovistal a Computers

IBM PV turbo XT clone, 640K int. mem., 20MB

HD, Hercules monochrome graphics card,
Samsung 13" mono monitor, 360 KB 6 1/4" floppy
disk drive, turbo option, Star Gemini 10X PC
printer, Ig. comp. desk, floppy disks, cases, \$1K.

Jerry, x34611 or Shelia, 488-5969.

TI-994A comp. w/assorted SW, access., \$150.

Ed, x36969 or 332-0442.

Apple II plus comp., disk drive, color monitor.

Apple II plus comp., disk drive, color monitor, Epson printer, Visical & Apple Writer SW, ex. cond., \$350. Glenda, x31764 or 482-2157. COIG., \$350. Glenda, X37/64 or 482-2157.

IBM compat. laptop, backlif screen, 23.5" floppy drives, 1200 baud, mouse, SW, \$800. Mary Lou, X34306 or 480-2206.

Tandy 1000 SX 384 Exp. to 640, 360K floppy

dos 3.2, RGB color monitor, deskmate IBM Write, games, compl. doc., \$400, OBO. Rob, 485-7627. Open reel tape deck, Pioneer RT-707 and noise reduc. unit, DBX 224, \$250/both. 280-1579

Apple Mac Plus, mouse, kybd., screen, floppy, Apple Mac Plus, mouse, kybd., screen, floppy, SW, \$750, OBO. Steve, 283-5632 or 326-2010.

Scuba dive comp., U.S. Divers Data Scan III, 1 mo. old, 1 yr. warr., depth/pressure gauge, timer, \$550. Patrick, x32635 or 488-1079.

Video Camcorder batt. for Canon 8mm [4] CM 1060 Nickel-Cadmium batt. 6V 1000 mAh, \$50/

ea.; ster. cass./rec. player, AM/FM radio, \$50. Patrick, x32635 or 488-1079. Multitech Z-80 SBC and microproc. trainer, \$75. 280-9119.

\$75, 280-9119.
Wyse 50 terminal, printer, Hayes compat.
1200bps modem, S-100 comp., 2 drives, with CP/
M & Z3CPR OS, WordStar, CalcStar, turboPascal, manuals, doc. BO. Keith, x38952 or 486-

#### **Musical Instruments**

6-string Applause elec. acous. guitar, \$190, OBO. 335-6780 or 482-5334. Piano, Upright Grand (Stienway), ex. cond., \$975. 996-9103.

Gulbransen upright reg. piano, just tuned, \$550.

Cable-Nelson piano, full kybd., ex. cond., \$1,300, OBO. Kelly 282-4255 or 471-1420.

#### Pets & Livestock

Baby cockatiels, hand-fed. Linda, 484-7834. Rabbits, New Zealands, mini-lops. Gailo, 554-Gray Persian kittens, can be CFA reg. 480-5954

#### Household

Rattan loveseat, swivel chair, glass end tables, blue/rose, \$230, OBO. Linda, x36881 or 486-

Amana microwave, 2 yrs. old, ex. cond., \$65; old but working Maytag dryer, ex. mech. cond., new belts, \$50, OBO. Heidi, x30452 or 484-4977. 5-pc. sofas/loveseat/ottomans group, brn., ex. cond., \$300, OBO, also indiv. pcs., BO. L. Das, x33235 or 488-5532. Sofa, off-white, zips/snaps off for washing, ex.

cond., \$200, OBO.; Ig. oriental rug, cream/gray/dk. navy/rust, \$450, OBO. Anne, x34493 or 286-Antique mahogany dropleaf DR table w/ext. leaves, 5 chairs, \$450, OBO. Ron, 488-6549. Full sz. matt., box springs w/frame, \$40. 480-

Sofa, loveseat, 2 end tables, coffee table, 2 lamps, good cond., \$230, OBO 282-3732.
China cab. w/lt., 5 shelves, 18x29x72, \$130; lg. 3 cushion beige/brn./gold plaid sofa, wood trim, ex. cond., \$160; white 2-drwr. dresser, \$25. 280-2523 or 333-1762.

280-2923 or 333-1762.

Matching queen sofa/sleeper, loveseat, beige, ex. cond., \$350. Kathy, x39190 or 332-6305.

Sears Kenmore Ig. microwave, \$150; microwave stand w/drwr./cab. stor., \$43, both \$175.

333-7009 or 486-6762.

Queen Ann writing desk, 3 drwrs., \$225. 338-Couch, neutral, good cond., \$100. Harold,

x37494.

Sharp Carousel II microwave w/turntable, 1.0 cu. ft., \$150; Bedspread and ruffle, queen-sz., maroon chintz, ex. cond., \$75. Linda, x49658.

Lg. solid oak DR table w/pedestal, 8 chairs, unfinished, \$195; g. solid wood desk w/glass top, \$30. Jeff, x31974 or 286-1935.

BB wall unit light bridge connects 2 cets of

BR wall unit, light bridge connects 2 sets of drwrs. w/mirror in center, hdbd. w/compartments for queen sz. bed (matt. or wtrod.), wtrod. 90% motionless, \$1,500, OBO. Darlene, 280-2772. Queen sz. wtrbd. matt., liner, htr., vinyl preservative, \$50. Dennis, x34405 or 480-5076.

Mamiya RZ 6x7 Polaroid back, \$250; motor Winder II, \$250, both new w/warr.; Sigma 35-135mm f/3.5 for Minolla Maxxum, \$100. Joel, 282-3517 or 482-4247.
Nikon EM-35mm cam., f1.8 50mm, case,

manuals, ex. cond., \$100. Tony, x34415 or 480-

Want '75-'80 Ford Pinto, auto., no PS, no AC, no PB, looks/body not important, does not need to run, must be towable. Trey, 280-4275 or 484-7834.

Want occasional, resp. teenage or older babysitter for 4 1/2 yr. old girl in our Webster Heritage Pk. home, ref., will pay competitive rates. 332-0442.

Want fem. non-smoking roommate to share 3-2.5-2 home in CLC, \$330/mo. plus 1/2 util. Linda,

x36881 or 486-5246.
Want to rent gar. or shop to store/work on auto.
Tim, x49744 or 333-9742.

Want almond frig. w/lce/wtr. in side-by-side. Phil, x35648. Want used Maytag dryer, good cond.

Want fem. roommates to share house w/same near Almeda Mall, \$175/mo. 944-3985. Want MerCruiser 260hp eng., dead or alive.

Want carpooler, non-smoker, Edgebrook vicinity to JSC, 7:30-4. Betty, x37554 or Tom, x38273.

Want 4 tickets to Saints/Oilers game Sunday, Oct. 21 at Astrodome. Cathy, x30961 or 326-Want carpoolers from Alief/Memorial area. Barry Halpern, 333-9502.

Want old wrist and pocket watches, any cond. Want riders for vanpool starting from SW side and Braeswood to JSC. Chau, 933-2395.

#### Miscellaneous

Girls 20" XI-75 bike, ex. cond., \$30. Sashi, 333-6225 or 480-2973.

Xerox 3701 copier, needs \$450 repair, \$300, OBO. Don, x38039 or 333-1751. Wheelchair, \$100, Jobst extremity pump, \$100. both ex. cond. Earl, x34807 or 532-2242.
Rally 22" 3.5hp lawnmower w/rear bag, ex.

cond., \$80. Chris, 992-3810 or 480-8830. Mistral windsurfer, compl. Mistral competition windsurfer w/6.2m sail, \$500. Mike, 283-5890 or 280-9005.

Patrick Nagel commemorative prints, #5-#15, from \$200. Mike, 283-5890 or 280-9005. Antique oak/pine table, 3x6, \$50; Colonial stratolounger, \$95; MCA sports sta. bike, \$50.

55 gal. fish tank w/wooden stand w/bookshelf, access., \$200. Bob, 471-6189. Ster. spkrs., Fisher studio std. model ST-828 100 watt, \$150/pr.; .5 cu. ft. Litton microwave, \$35;

Sertapedic lux. matt/box springs, queen sz., \$150/set x37999 or 474-5609.
Golf clubs, Tour Model III 1-SW, \$16.95/club and metal woods, 1, 3, or 5 wood, \$25/club. David.

Shopsmith Mark V Model 500 w/belt sander jointer, bandsaw, lathe dup., \$2,200, OBO. Date, x39441.

Ford truck bed liner, L.W.B. w/white metal util box, \$125. Larry, x39285 or (409) 925-1122.

Polyester sportcoat, \$25, OBO, 42 long, blue, good cond., new. Greg, 929-7348 or 488-2082. Multi-colored rabbit jacket, sz. sm., \$25.

Cordless phone, rem. operated ans. mach., ex. cond., \$50/both. Tony, x34415 or 480-2206. Rowing/stairstepper exer. machs., both ex. cond., \$70/ea. or \$125/both. Tony, x34415 or

Pr. of bookshelf ster. spkrs., ex. cond., \$65. Ron, 488-6549.

Alum. topper (cov.) for full sz. PU bed, 8', crank out wndws., \$75, OBO. 280-1579 or 482-5536. Fisher ster. console radio w/walnut cab., \$125, OBO; freezer, 25 cu. ft. upright frostfree, \$125,

ex. cond. x37750.

ex. cond. x37/50.
Challenger raft, oars, pump, 2 life jackets, ex. cond., \$90. Liz, 282-2511 or 486-3991.
.38 special (Taurus) blue, \$175; .357 S&W stainless model 66 w/6" barrel, \$325; .22 semiauto. rifle, Marlin, holds 18 shells, \$100. Terry, x33814 or 486-5126.

2.60 total carats VVS-1, 1.09 carat radiant cut center stone, 22 Quadrillion cut stones, custom design diamond ring, \$6K. Angela, 280-1916 or 4 used tires, 215x70 R14 radials, \$40; car cov.

4 used tires, 215X/0 H14 radiats, \$40; car cov. deluxe poly cotton, \$25. 280-9870.

2 cast iron dbl. kitchen sinks, \$15/ea.; 2 white bathroom sinks, \$10/ea.; 1 green bathroom sink, \$5; 2 deep washing sink, \$15. 339-1337.

1847 Wm. Rogers new Silverplate, serv. for 7 ext. pcs., wooden case. 783-9164. Pioneer 15 IPS R-R tape rec., \$75; graphic rulliver \$25, 290 pt. equalizer, \$35. 280-9119.

DP Ergometer Trac IV treadmill, \$200; Vitamaster stationary bike, \$35. 474-5075.

Rev. bumper pool/card game table, compl. w/balls, 4 cues, \$125, OBO. Kinzler, 326-2449. All wood office cart, top access files, file drwr., shelves, \$75; old fashioned brass hat rack, \$50.

Bob. 484-0898 Baby crib w/matt., ex. cond., \$75; Pioneer 5 1/4" 3 way spkrs., new, \$85; fire log holder, \$7; rear wndw. for Datsun PU w/elec. defroster, \$40; 9" elec. weed eater, \$5. 484-5149.

Golf clubs. Jr. set for ages 10-14: 6.7.8 irons PW, putter, 3-wood w/bag, \$50. 283-5465 or 332-

1725.

Bow/arrow set, 15 lb. pull w/5 bear arrows, \$20. Aaron Brown, 944-0493.

W/D, Whirlpool, ex. lg. cap., \$550, OBO. Charles G., 333-4760 or 992-2345.

Charles G., 333-4760 or 992-2345.

JC Penney baby change table, ex. cond., \$35.

Sandra, 554-7727.

Keystone Classic 15" mag wheels, ex. cond., \$100; stock distrib. and cap for Chevy sm. block, good cond., \$25. Jeff, x31974 or 286-1935.

2 sets custom drapes, Ig. enough for patio doors, \$100; sm. walnut old liquor cab., \$50; antique walnut 8-leg dropleaf DR table, \$395; childs table, refin., old, \$25; antique French bench, \$150; sev. pcs. old costume inwalnut 484-5564

\$150; sev. pcs. old costume jewelry. 488-5564. Sears exercycle, \$75; sm. trampoline, \$15; 2 Fruitwood French Prov. end tables, \$75//ea.; antique oak curved glass china cab., \$350; Dhurrie rever. wool rug, 10x12, \$450; glass top patio table w/4 chairs, \$80, 488-6232.

Little Tykes house, good cond., \$75; girls 16" bike, good cond., needs new tubes for tires, Columbia brand, \$20. 280-8746.

3 shelf bkcs., ladies 3-pc. Samsonite luggage set, 1 ea. mens Hartmann & American Tourister 2 suiter luggage, 30° bar stool, 2 drwr. end table w/glass top, hexagonal end table w/2 doors, coffee table w/drwr., 2 table lamps w/shades. 532-1994. Bike rack for car, \$15; Shoei MC helmet, \$35;

Touch-oMatic redial for phone, \$15; Aquatonic Restonic king sz. wtrbd. w/lumbar unit, 10 tubes, \$500; Realisticc CB radio 40 chan. w/antenna, \$40; GE ster. cass. walkman, \$25. Terry, x33814

'89 Chevy Suburban, loaded, ex. cond., ssume note. Dale, x39441. '90 Ford PU F150 XLT Lariat, short bed, loaded,

79 VW Wesfalia camper, new tires, stove, wtr. sys., 2 beds, ex. cond., \$3,750. 332-4383 or 634-1322.

\$4,500. x34818 or 480-8335.

1051.

'79 Chev. van, good cond., \$1,495. 532-2082.

'80 Toyota Corolla, AC, AM/FM ster., good cond., \$1,500. 280-8130.

'75 Merc. Cougar, AC, AM/FM cass., runs great, \$895. Tom, 821-8716.

'66 Mustang, 302 V8, auto. alarm w/rem., mag wheels, AC, \$4K, OBO. Bob, 471-6189.

'88 Ford Exp., auto., loaded, ex. cond., \$5K. Dionne, 488-7352 or 532-1214..

'77 Gran Prix. good cond. new trans/tires/

82 Toyota Supra, loaded, \$3,500, OBO. 474-4084.
81 Chev. Suburban w/trlr. pkg., 73K mi., V8 w/auto. 400, new tires, loaded, \$5K or trade for late model vehicle. 479-0306.
90 BMW 3251, 5K mi., loaded, assume lease or buy, \$26K. 282-4514 or 943-0949.
87 Pontiac Gran Am, auto., low mi., \$6,150. x36588 or 358-9598.

eng., 5-spd. 532-1994. '89 Acura Legend 'L', 4-dr., auto., ext. warr.

485-6251.

'87 Nissan Pathfinder SE-V6 4x4, loaded, low mi. Robert, x35284 or 334-4165.

'83 Firebird 350, runs good, AC, needs some body work, \$1,200. 480-4839.

'87 Acura legend 4-dr., 43K mi., \$14K. E.D., x33162 or 326-4700.

'86 Grand Am LE, auto., new tires/strus/shocks/prakes ex cond \$5,200. left 546.6145.

shocks/brakes, ex. cond., \$5,200. Jeff, 546-6145 '88 Ford T-Bird TC, 26K mi., very clean, \$11K. Rich, 480-2570.

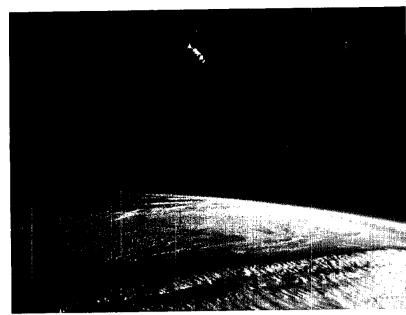
#### OBO. Wayne, 283-6514.

Mens 26" 10-spd. bike, Shimano gear sys., \$46.

'80 Kawasaki KZ550 LTD, 15K mo., new rear

A Galv. Bay racing. Glen Stromme, 280-8644.

79 16' Renegade ski boat, 140hp Evin., SST prop, trlr., new ignition sys., ex. cond., \$2,500. Mike, 333-6868 or 486-7846.









After starting Ulysses on its journey toward the Sun, top left, the STS-41 crew turned its attention to onboard science and the daily adventure of living in a space shuttle. Clockwise from above:

• The crew poses for its on-orbit portrait. From left are Mission Specialist Tom Akers, Commander Dick Richards, Mission Specialist Bruce Melnick, Pilot Bob Cabana and Mission Specialist Bill Shepherd.

 Cabana uses a hand-held tonometer to check Shepherd's intraocular pressure. The test looked at body fluid shifts in microgravity and tested the tonometer's effectiveness

collection.

• Discovery's remote manipulator system arm exposes the Intelsat Solar Array Coupon to the atomic oxygen in low-Earth orbit.

• Melnick, the first active Coast Guardsman to fly in space, draws attention to his branch of the service while floating near a banner from his alma mater, the U.S. Coast Guard Academy.

 Akers helps in the care and feeding of the busy crew by rehydrating a package of grapefruit juice at Discovery's galley.

• Richards "borrows" the pilot's

for diagnostic and scientific data station on the flight deck to utilize a portable on-board computer.

• Cabana, Arriflex motion picture camera in hand, exhibits the weightlessness of space on the middeck while anchoring his left foot with a special restraint device. A coil of cables is suspended to his left.

 And, Melnick holds still while Cabana takes photographs of the retinas in his eyes. Doctors are testing whether the photographs will show evidence of increased cranial pressure during space flight. Such an increase may be linked to the Space Adaptation Syndrome that affects astronauts to varying degrees.











# **Pohl Astronautical Society fellow**

American Astronautical Society members have elected JSC Engineering Director Henry Pohl as a fellow of the society.

AAS fellows comprise the highest ranking members of the society. Fellowships are conferred on members for their significant contributions to astronautics.

Society officers will present of hanging plaque awards to the newly elected fellows at the 1990 AAS annual meeting Nov. 5-7 in Los Angeles.

Pohl was one of seven people named as society fellows this year and one of 348 people who have received the distinction.

Other JSC fellows are: JSC Director Aaron Cohen; Mission Operations Director Eugene Kranz; and Bruce McCandless II, retired



# Foy earns honor

Larry Foy, lead Ground Control officer for STS-41, earned the traditional honor of hanging the mission plaque in the Mission Control Center.

The GC position is responsible for the MCC and maintaining the worldwide tracking network that handles orbiter tracking, telemetry and communications.

the scenes as they are there before we take the consoles and they are there after we leave," said Lead Flight Director Milt Heflin.

"Their can-do attitude was once again demonstrated through Larry's persistence that were prepared to handle pre-launch commanding from the JPL Ulysses Control Center through the MCC to the Ulysses spacecraft in Discovery's payload bay. As it turned out, this capability was used two days before launch to correct one of Ulysses' on-board programs," he explained.

#### Van Zandt runner-up for trainer of year

Glen E. Van Zandt, a JSC Human Resources Development Specialist, "These folks are certainly behind has been named a runner-up for the









Gilbert

Office of Personnel Management's Trainer of the Year Award.

Van Zandt was among "a large number of outstanding nominations for the award," according to Edward Vela Jr., director of OPM's Dallas

#### Runner Gilbert passes 50,000 career miles

passed a real milestone in his career—his running career, that is.

The 47-year-old space station support programmer passed the 50,000 mile mark on Sept. 30, most of it stepped off in the evenings around JSC.

Gilbert, who joined JSC in 1966, said he runs 8 miles a day, six days a week and has logged about 2,000 miles a year for the past 16 years. Jimmy Gilbert of Engineering's A runner in high school and college, Flight Data Systems Division recently he said he's never really stopped.

### Vietnamese refugee awaits mom's arrival

By Pam Alloway

As a small fishing boat tossed about the South China Sea in January 1979, a 12-year-old girl clung to an image of her mother waving from the stairs in their Saigon home and to her father whose quiet determination provided a calm harbor in turbulent surroundings.

Now a young woman of 23 years, Krystine O. Bui is expecting the arrival of her first child in February and the arrival today of the mother she has not seen since that January night.

Bui, a JSC contract specialist who began working for NASA as a college coop student in 1988, is readying for her mother and youngest sister's welcome to a new home and life.

"We all thought we'd see each other in a year or two at the most, not 12 years," Bui said. "But it just

The family lived in the Vietnamese city of Saigon, now called Ho Chi Minh City. Bui's mother was ill when her husband, a South Vietnamese official just released from prison, had to flee the country. The family was concerned she would not survive their daring escape so she and the youngest daughter stayed behind and planned to leave later.

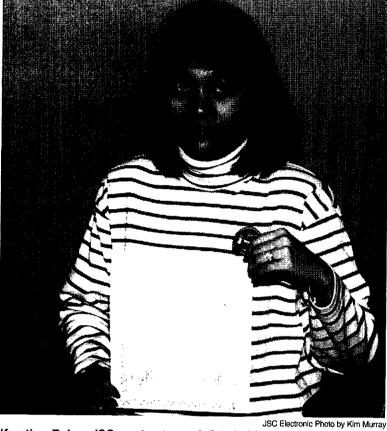
Under the shield of darkness Bui, her 10-year-old sister and father fled to the banks of the Cau Chu Y River and boarded a small fishing boat along with 20 other people, including at least four other children.

"We had been in the boat less than a day when the engine went out and we just drifted," said Bui. "The winds were strong and we were tossed about.

Five days after they left Vietnam most of their water containers broke and they were limited to a capful of water a day. After that ran out, waste water was mixed with powdered milk to stave off certain dehydration.

'It was scary," said Bui. "We were frightened we would just keep on

Finally some Thai fishermen spotted the refugees' small boat and gave them water in exchange for anything



Krystine Bui, a JSC contract specialist, holds up a welcome-home banner she's prepared for her mother. They've been apart for 12 years.

of value, including Bui's father's wedding band. The fishermen then pulled the refugees' boat into Thailand territorial waters where they were rescued.

Bui, her father and sister eventually traveled to Houston where an uncle lived. Since the Communist victory in 1975, it is estimated 2 million people have fled from Vietnam, Laos and Cambodia. After Bui's arrival in the U.S., relatives began working to reunite the family but met with obstacle after obstacle.

'Mom tried to escape lots of times but it just didn't work," Bui said. "She'd give people money to help her and they'd just disappear."

About two years ago the Vietnamese government granted Bui's mother and youngest sister permission to leave the country. Since then the family has patiently awaited their nment to a night.

"We've always believed that she was going to come," Bui said. "My dad just hung in there. A lot of times

my mom said she'd try to get on a boat but we were worried that she wouldn't make it because of her health and how rough the seas can get so we told her to just wait. We just hoped God would listen to our prayers and he did."

Although Bui has kept up a steady correspondence with her mother and sister, letters and photographs cannot replace direct communication.

"I'm nervous in a way I guess," Bui said about the reunion. "Twelve years is a long time not to touch somebody. I'm really glad my mom will be here when the baby comes because she had to miss my wedding. And my dad's all excited, he's got the house all cleaned up.'

When her mother steps off the airplane today there should be about 20 relatives to greet her and plans are under way for a party in about a week.

"I'm going to give her a big bouquet of roses and a lot of hugs," Bui said. "A lot of hugs."

# Shuttle-launched probes continue to perform well

The Ulysses solar polar probe has completed the first of its course correction maneuvers, and the other two space shuttle-launched planetary probes are doing well.

Today, flight controllers will begin to turn on Ulysses' nine science instruments. The Energetic Particle Composition and Neutral Gas instrument will be the first to be switched on. Saturday, heaters for the Solar-Wind Ion-Composition Spectrometer will be started.

The second of Ulysses's two trajectory correction maneuvers is scheduled to be performed Nov. 2. That maneuver will make final adjustments in the spacecraft's flight path on its way to Jupiter encounter in February 1992. Ulysses is traveling at almost 25,500 mph relative to Earth.

The thruster firings, combined with a slightly greater-than-expected velocity following launch, will make Ulysses's closest Jupiter approach 60 hours sooner than originally planned, on Feb. 8, 1992. The earlier arrival will enhance the mission's science objectives by giving the spacecraft 235 instead of 228 days above 70 degrees solar latitude, allowing it to reach a maximum solar latitude of more than 80 degrees, instead of a planned 79.

Galileo also is on its way to Jupiter. One year after its successful launch on STS-34 it is "only" 27.9 million miles from Earth, although it has traveled more than 569 million miles around the Sun and past Venus. Its present speed is 54,112 mph relative to the Sun.

The spacecraft executed its sixth trajectory-correction maneuver last Oct. 9, changing its speed by about 1 mph and moving the Dec. 8 Earth closest-approach point to about 2,000 miles above the surface. Another maneuver in November will adjust the altitude to its final desired value of about 600 miles.

Meanwhile, all of Magellan's spacecraft systems are performing well. The radar system continues to work very well with 11 new standard image swaths and one test swath produced by the ground processor Monday.

About 11 percent of Venus' surface has been mapped. A new mapping sequence was uplinked Tuesday.

Saturday, the angle between the Sun, Earth and Magellan will be 3.4 degrees as Earth and Venus approach superior conjunction. That's at the limit of S-band communications, but JPL controllers have no concerns as the satellite approaches the anticipated period of silence.

# Barrios team wins quality award

Jeanne Rash, three members of a Barrios Technology Inc., team, have been awarded the JSC Quality Partnership Award for their work on the NASA Excellence Award Data System (EADS). The EADS is a method for reporting and documenting quality and productivity improvements.

The EADS tool exceeded its initial expectations as a quality and productivity tracking tool. It proved to be an excellent mechanism for increasing employee motivation through recognition, and for sharing innovative and cost saving ideas, said H. Ray Barrett, Barrios chief executive officer, in a nomination letter endorsing the threemember team.

The EADS project is a personal computer-based, multi-user database and word processing system that team

Jim White, Patrick Walter and members developed over three months working part time on the project. Their work included requirements analysis, design, implementation and documentation.

White initiated the concept, assisted in the development of requirements, and integrated the EADS into NASA Excellence Award preparations. Walter assisted in the design, system development, and programming. Rash assisted with the system requirements and design, documented those processes, programmed the system. coordinated the data entry, and gave presentations and training sessions.

The quarterly Quality Partnership Award, established by the Safety, Reliability and Quality Assurance Office, recognizes the quality-related contributions of employees not currently working in the quality field.

# Diary chronicles behavioral change

(Continued from Page 1)

12-step program pioneered in the 1930s by Alcoholics Anonymous. There's Narcotics Anonymous, Gamblers Anonymous, Overeaters Anonymous, Smokers Anonymous and even Sex Addicts Anonymous.

"Just the fact that all of these support groups are up and going and well attended suggests that there is a connection here," notes Connie Alexander, JSC's Employee Assistance Program Administrator, "Some of these support groups help people deal with substance or chemical dependencies. whether it be alcohol, drugs, caffeine, sugar, marijuana or whatever. Others help people with behavioral addictions or dependencies.'

In the smoking cessation class at JSC, we've returned again and again to the linkage between nicotine, caffeine and alcohol. "I'm not beating a temperance drum," Methodist Hospital instructor Larry Laufman has told us, "but you should recognize the triggers in your life. If you are used to having a cigarette when you have a beer, you should know that and plan ahead.

Perhaps the common denominator here is simply the act of abstinence. There are a lot of people who smoke or drink who aren't addicted," Alexander said. "But if they are, then the only way to change that behavior is to stop using."

An appreciation of these things may be useful for all of us in this far-flung but still relatively tight little community, if for no other reason than 58 nicotinecrazed abstainers are about to be unleashed on the Johnson Space Center next Tuesday.

This isn't fun, and it isn't a walk in

the park. This week we've been ramping down the number of cigarettes we can smoke each day. We've been torquing ourselves incessantly, doing things like breaking cigarettes in half once we meet the quota, and switching brands every day or so. Is it possible for a non-smoker to understand just how bad these low-tar cigarettes really taste? A classmate said the cigarettes he's smoking today taste like a really malicious combination of air and dirt. This human drama is playing out

toward a crescendo, but we still have one last weekend, albeit with certain restrictions, to puff away. And so for the next few days, don't be surprised if you are in a Stop 'N Go or Circle K and you hear someone utter the five most dreaded words in the smoker's vocabulary: "Gimme a pack of

# **Space News**

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

Editor . . . . . Kelly Humphries Associate Editors . . . . . . . . Pam Alloway Kari Fluegel

#### Correction

A photo caption on the front page of the Oct. 12 Roundup incorrectly reported that the image had been taken by the Edwards Air Force Base longrange tracking camera. The tracking camera used was at Vandenberg Air Force Base.

#### Deafness no obstacle

(Continued from Page 1)

he wanted to have a CPR class graduate in each section. Now, 19 of the approximatley 50 people in Bldg. 227 know CPR, he said.

"I think everybody should take that CPR class," said Koch, who speaks well and can hear with a hearing aid.

Fontenot said the Safety Learning Center teaches the class twice a month, reaching 144 students a year. To sign up, call her at x36369. Other classes are available, too.

#### Gymnasium going up

(Continued from Page 1) a separate structure that will be connected to the existing facility.

When fund are available, additions will include men's and women's locker rooms and showers, a weight and aerobics room, another gymnasium and modifications to the original building.