



Marshall reaches agreement with Air Force, DoE in Tenn.

The Marshall Center has reached an agreement with U.S. Air Force and U.S. Department of Energy facilities in Tennessee to work jointly on research, development and test activities.

The Memorandum of Understanding, to be signed this week during the Tennessee Valley 2000 Regional Economic Summit in Huntsville, focuses on collaboration and leveraging of the complementary capabilities of the organizations.

The agreement between the Marshall Center and the U.S. Air Force Arnold Engineering Development Center at Arnold Air Force Base, Tenn., and U.S. Department of Energy Oak Ridge Operations, in Oak Ridge, Tenn., will be signed by officials of those agencies June 1 at 12:30 p.m. at the Von Braun Center.

"By working together, we can enhance the effectiveness of our operations," said Art Stephenson, Marshall Center director. "We will benefit from each other's accomplishments and capabilities as we pursue new joint opportunities."

The agreement calls for collaboration in research, development, test and evaluation to make the best use of scientific and engineering capabilities and facilities supporting the missions of the three government agencies.

The Marshall Center has previously reached cooperative agreements with both Tennessee facilities. The Memorandum of Understanding is more comprehensive, however, in that the agencies will seek new opportunities to work on projects together — rather than merely share

information about current or planned projects.

The Marshall Center is NASA's premier organization for development of space transportation and propulsion systems, as well as NASA's leader in microgravity research. The Air Force's Arnold Engineering Development Center provides aerospace ground test and evaluation products and services, and is the world's largest complex of aerospace ground test facilities. The Department of Energy Oak Ridge Operations has extensive expertise in many areas of science and technology, including advanced materials, manufacturing and prototyping, sensors and instrumentation, and advanced computing.



Photo by Terry Leibold, NASA Marshall Space Flight Center

Taking Economic Summit tour

Beverly Absher, left, Kenneth Haerer and other members of the Tennessee Valley Economic Summit, visiting Marshall on Tuesday, inspect a sample in the vacuum plasma spray department in the Productivity Enhancement area of Bldg. 4707.

12th Von Braun Forum

Author James Burke to speak today at VBC

by Jonathan Baggs

Best-selling author, television producer, and noted science historian Dr. James Burke will be the featured speaker today at NASA's Von



Dr. James Burke

Braun Forum. The event is free to the public and will begin in the South Hall of the Von Braun Center at 2:15 p.m.

A frequent keynote speaker on the subject of technology and social change, Burke will kick-off the event Thursday with "Exploration: Discovering New Frontiers," — a discussion of how new

See Forum on page 6

"Safety is an everyday effort"

— safety slogan submitted by
Ann Towery, SA34

von Braun envisioned station as 'Wheels in the Sky'

On May 29 the space shuttle Atlantis landed after docking to the infant International Space Station (ISS), zipping around the planet at 17,000 mph in the airless space 200 miles over our heads.

Long before such an extraordinary project was actually underway, a permanent space station where people live and work existed in the minds of science fiction writers and the imaginations of those who read their books.

Among those fascinated by tales of women and men living in space was a teenage boy growing up in Germany in the 1920s.

In a groundbreaking 1952 article in Collier's magazine — five years before Sputnik — von Braun wedded fantasy to physics in his vision of how then-existing

technology could be used to put a permanent space station into orbit around the Earth.

Soon after, von Braun appeared in a three part Disney television show, which he helped to produce, on the future of space travel.

The public enthusiasm sparked by the shows and the Collier's article, which ran 4 million copies, is considered a turning point in the American pursuit of space travel by some historians.

"Von Braun (caused) a great shift in public opinion in terms of space flight," said Mike Wright, historian for NASA's Marshall Center where von Braun conducted much of his work.

"While the ISS resembles something constructed from an Erector Set, the

paintings in the Collier's article look more like a wheel in the sky.

But while space travel and space stations had appeared frequently in writings of science fiction and scientific speculation, von Braun brought charisma and political savvy to the cause.

"He was revolutionary in his science and his engineering, but he was also revolutionary in this approach of going directly to the public," Wright said. "Von Braun said we (scientists) can publish scientific papers and treatises until hell freezes over, but if we don't get the attention of the tax payer, we're not going anywhere."

Patrick Barry wrote this article for nasa.science.gov



Photos by Terry Leibold, NASA/Marshall Space Flight Center



Asian/Pacific American Heritage Festival

The Marshall Center and Team Redstone sponsored an Asian/Pacific American Heritage Month program and festival May 24 at Redstone's Post Theater. Above, Dr. Alan Chow, left, chairman of Marshall's Asian/Pacific American Advisory Committee chats with Willie Love, center, Equal Opportunity Office assistant director, and Jim Kennedy, director of Marshall's engineering directorate. At left, Dang Kennedy, sister-in-law of Jim Kennedy, performs during the festival.

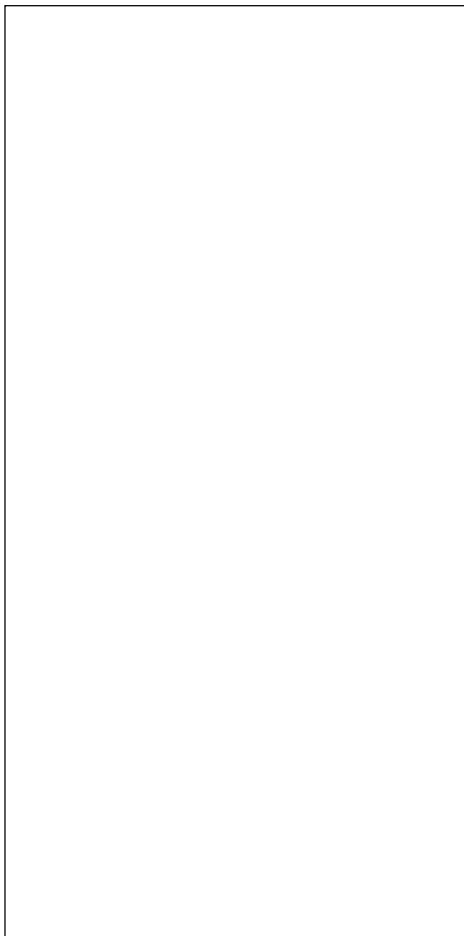
NASA, VA partner for patient safety

A NASA-operated voluntary patient safety protection system came to life Tuesday when NASA and Department of Veterans Affairs officials signed an agreement in Washington, D.C.

By forging an alliance with NASA, the veterans' agency will be tapping into NASA's expertise on safety issues to implement and operate a system for recording and analyzing medical errors and "close calls." VA operates 172 medical centers that last year treated more than 3.3 million patients, and has been a leader in reporting medical errors.

Dr. Henry McDonald, director of Ames Research Center in Mountain View, Calif., and Dr. Thomas Garthwaite, acting undersecretary for health for the VA, signed the formal agreement that paves the way for development of the voluntary external patient safety reporting system.

NASA will operate the VA Patient Safety Reporting System that is modeled after the NASA-administered Aviation Safety Reporting System (ASRS) that is funded by the Federal Aviation Administration.



Employee Ads

Miscellaneous

- ★ Lowe easy loader trailer, 16', 40HP Suzuki Evinrude TM, HB fish finder, carpet, live well, \$3,000. 881-6143
- ★ Mexican standard Fender Stratocaster sunburst w/Fender gig bag, \$275 obo. 776-2612
- ★ Dog kennel, 8'x8'x4', 9 months old, assembled, \$150. 881-5093
- ★ Dunlop tires, set of 4, new, 215/60/16", \$300. 233-1157
- ★ Wood clarinet, \$225 obo. 882-7084
- ★ Purebred Australian Shepherd puppies, vet checked, wormed, first shots, 6-weeks old, \$75. 561-2287
- ★ 1992 500 and 1994 Pro VXR Yamaha wave runners and double trailer, \$3,000. 881-0557
- ★ Vitamaster exercise bike, Model 88C w/ electronic display, all manuals, \$75. 882-1780
- ★ Murray riding lawn mower, rebuilt engine, still needs work, \$125 obo. 828-6213
- ★ 1997 John Deere 345 lawn tractor w/19 bushel grass collector cart, 483 hrs., hydraulic lift, \$5,200. 574-5025
- ★ Colonel bed liner for 1998 and later Ford F-150, \$50. 461-3803
- ★ SunnyBrook travel trailer s/slide-out, one owner, under warranty, sleeps six, blue interior decor, \$21,500. 772-0046
- ★ AC D15 gas tractor w/Kelley trip-type loader & three bottom plow, \$2,500. 931-469-7324 after 6:30 p.m.
- ★ 1987 Stratos bass boat, 19'3" 200 Merc., 12/24 TM, hotfoot. 233-5032

Vehicles

- ★ 1993 Oldsmobile Bravada, all-wheel drive, ABS, loaded, 111K miles, \$7,500. 837-6109
- ★ 1994 Toyota pickup, red w/gray interior, 80K miles, bed box and liner, \$4,200. 837-6062
- ★ 1999 Explorer Sport, white, 2-door, 2WB, automatic, extended warranty, CD, chrome wheels, \$16,500 firm. 828-9861
- ★ 1996 Mazda 626 LX, V6, 63K miles, 25mpg, white, 5-speed, loaded, \$9,700. 574-5098
- ★ 1991 Mazda Miata convertible, white, new top w/glass window, \$5,150. 895-2959
- ★ 1995 Dodge Ram, 42K miles, pewter & green, loaded, new tires, \$13,300. 539-4117
- ★ 1987 GMC Jimmy, removable top, loaded, cold air, 350EFI, \$6,500 obo. 539-7379
- ★ 1997 Buick Park Avenue, 58K miles, CD player, new tires, leather seats, \$14,900. 828-0863

- ★ 1989 BMW 325i, 104K miles, sun roof, 5-speed, new belts, hoses, & timing belt, 104K miles, one owner, \$5,400. 721-0709
- ★ 1999 BMW 328i, silver, 5-speed, sport package, leather, sunroof, CD, power equip., factory warranty, \$33,500. 859-3686
- ★ 1997 Honda Civic EX, sunroof, silver w/gray interior, 44.8K miles, \$14,100. 351-9213
- ★ 1999 Explorer, 2 door, 2 WD, automatic, power, CD, warranty to 75K, \$16,500. 828-9861
- ★ 1993 Chevrolet Lumina, 4-door, v-6, air, \$5,000 obo 920-7255

Found

- ★ Diamond in the 4200 north side parking lot. Call 544-5614 to identify

Wanted

- ★ Computer w/monitor, modem, and speakers, 75-300 Mhz, Pentium, in good working condition. 883-2757
- ★ Working instruments (brass, woodwind, etc.) for needy high school band. 881-0883

Center Announcements

- ✍ **Payroll Office** — Effective June 5, the NASA Payroll Office will be open for business from 7:30 a.m. to 11:30 a.m. and from 12:30 p.m. to 4:30 p.m. Employees should make arrangements to conduct payroll business during these hours. Call 544-7341 for payroll assistance.
- ✍ **Retirees Meet** — Retirees and friends of the Instrumentation Division Astrionics Lab will meet at the Redstone Golf Course Coffee Shop on Tuesday, June 6 at 11 a.m. The group will continue to meet on the first Tuesday of each month.
- ✍ **MARS Ballroom Dance Club** — Waltz and tango lessons will be from 7-8 p.m. June 5, 12, 19 and 26 in the Parish Hall of St. Stephen's Episcopal Church at 8020 Whitesburg Drive. Beginner and intermediate classes will be taught at the same time. Cost is \$6 per person per night. For more information, call Woody Bombara at 650-0200.
- ✍ **Shuttle Buddies** — The Shuttle Buddies will meet for breakfast at 9 a.m. June 26 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757 or Gail Wynn at 852-8189.
- ✍ **Toastmasters** — The NASA Lunar Nooners Toastmasters Club meets Tuesday at 11:30 a.m. in Bldg. 4610 cafeteria conference room. All Marshall employees, contractors and friends are invited to attend.

✍ **Housing for Students** — Undergraduate and graduate students require housing for up to 10 weeks. If you have lodging options, contact Frank Brannon, Education Programs Dept. at 544-5920.

Job Opportunities

- Reassignment Bulletin 00-25-KP, Aerospace Engineering Technician, GS-206-039/11** (2 vacancies), Engineering Directorate, Structures, Mechanics and Thermal Department. Closes June 6.
- Reassignment Bulletin 00-26-KP, AST, Aerospace Flight Systems, GS-861-14/15**, Systems Management Office, Systems Engineering Office. Closes June 7.
- MSFC ES-07-00**, Manager, Information Services Department, Center Operations Directorate closing date has been extended until June 8.
- CPP 00-74-RE, AST, Technical Management, GS-801-15**, Space Shuttle Projects Office. Closes June 6.
- CPP 00-71-KP, Aerospace Engineering Technician, GS-802-12**, Engineering Directorate, Structures, Mechanics and Thermal Department, Thermal and Fluid Systems Group. Closes June 6.
- CPP 00-72-RE, AST, Aerospace Flight Systems, GS-861-15**, Space Shuttle Projects Office, Eternal Tank Project Office. Closes June 7.
- Recruiting Bulletin MSFC-SD-00-94**, AST, Aerospace Flight Systems, GS-861-14. Closes June 7.
- Recruiting Bulletin MSFC-TD-00-95**, AST, Nuclear Propulsion Systems, GS-840-11/12. Closes June 5.
- Recruiting Bulletin MSFC-TD-00-96**, AST, Electric Propulsion Systems, GS-850-11/12. Closes June 5.
- Recruiting Bulletin MSFC-ED-00-98**, AST, Heat Transfer, GS-861-13. Closes June 6.
- Recruiting Bulletin MSFC-ED-00-101**, AST, Electronics of Materials, GS-1310-13. Closes June 7.
- Recruiting Bulletin MSFC-ED-00-105**, AST, Aerospace Flight Systems, GS-861-13. Closes June 7.
- Recruiting Bulletin MSFC-ED-00-108**, AST, Flight Systems Design, GS-861-13. Closes June 13.
- Recruiting Bulletin MSFC-QS-00-111**, AST, Reliability and Quality Assurance, GS-861-13. Closes June 13.
- Recruiting Bulletin MSFC-QS-00-112**, AST, Reliability and Quality Assurance GS-861-13. Closes June 13.
- Recruiting Bulletin MSFC-AD-00-114**, AST, Experimental Facilities Development, GS-801-14. Closes June 5.

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