



Inside Wallops

National Aeronautics and Space Administration
Goddard Space Flight Center
Wallops Flight Facility, Wallops Island, Virginia

Volume XX-03

Number 25

July 7, 2003

NASA Hits and Spinoffs

NASA is celebrated worldwide for having accomplished things in its history that no one has ever done before.

None of those achievements happened entirely by accident. They are the result of management innovation, revolutionary technologies and solid science and research. The following are just a few examples of the significant impacts NASA has made.

JUST A PHONE CALL AWAY:

Whenever long distance telephone calls are made and it seems the caller's just around the corner, remember this is a result of NASA's communications satellite technology, developed over more than 30 years.

THE PULSE:

The monitoring systems used in intensive care units and in heart rehabilitation wards were developed from the systems used to monitor the heartbeats of astronauts during the first space missions in the early 1960s. One nurse can now monitor several patients in critical care situations.

FIGHTING FOOD POISONING:

The Food and Drug Administration and the U.S. Department of Agriculture credit NASA with developing a system to make sure the food in the U.S. is safe to eat. The system, Hazard Analysis and Critical Control Point (HACCP), was originally invented for astronauts' food. It includes principles for preventative food safety measures, such as minimum cooking temperatures to kill bacteria.

HACCP has become the food industry standard worldwide.

LIFE-SAVING SEARCH AND RESCUE:

An international satellite-based search and rescue system derived from NASA's research in developing and demonstrating beacon locators from space has helped save close to 13,000 lives (as of January 2002) worldwide since its inception. This system is now operational 24 hours a day, 365 days a year, automatically detecting and locating transmissions from emergency beacons carried by ships, aircraft, or individuals. Today, there are 29 other participating nations in the program.

GROOVY RUNWAYS:

NASA researchers determined that cutting thin grooves across concrete runways reduces the risk of hydroplaning. The grooves create channels for excess water to drain, and they've been shown to improve aircraft tire friction performance in wet conditions by 200 to 300 percent. As a result, hundreds of commercial airports around the world have had their runways grooved. Every state nationwide uses this technique on at least some of its main highways, interstate highway curves and overpasses; pedestrian walkways, ramps and steps; food processing plants and cattle holding pens. Grooves on slippery highways are part of the reason accidents are down as much as 85 percent. It is possible this is NASA's most successful technology in terms of lives saved and injuries and accidents avoided.

Wallops Shorts.....

In the News

WTKR TV Channel 3

"Lights Over the Oceanfront Part of NASA Experiment"

Richmond Times Dispatch

"Cloud Test Gets Glowing Reviews, NASA Experiment Visible in 7 States"

Virginia Pilot

"NASA Launches Rockets from Wallops Facility"

Daily Times

"Mikulski Pledges Help....."

Eastern Shore News

"Summer Workshops for Teachers at NASA"

Eastern Shore News

"NASA Has Successful Launch June 29-30"

WOLC Radio

"Nighttime clouds"

WESR Radio

"Nighttime clouds"

On the Road

Ed Parrott, Wallops Teacher-On-Loan, presented a "Blast Off to Space" program at the Princess Anne Library and Crisfield Library on July 2.

NASA Academy Extends Thanks

To Magdi Said — The 2003 Goddard NASA Academy would like to personally thank you for the lecture you gave us at Wallops Flight Facility about the NASA Balloon Program Office. We greatly appreciate the fact that you took time to explain the role of your office. We found your attention to our responses to be particularly flattering after your presentation and during the visit. ...

Through lectures such as yours, we can better understand the organization of NASA and realized that every part of the agency is important to accomplish a mission. It is necessary for us to have an overview of all the technical means for future engineers and scientists (like us). We are committed to hard work and to upholding the standards and the vision of NASA and the Academy. We hope to meet and exceed the expectations you and Academy alumni have established.



Photo by Betty Flowers

On Monday, July 7, NASA Security Office began the badging process for up to 600 participants expected during the next few weeks in support of the Combat Ship Systems Qualification Trials (CSSQT) mission. (left to right) Charles Ayala, Target Recovery Crew, Air Center Helicopters; Fran Birch, CUBE Corporation; Jean Lopez and Cheryl McCready, NASA Security Office; and Sherry Kleckner, NASA Suborbital and Special Orbital Projects Directorate. Not pictured — Meghan Marsh, NASA SHARP Student.

Summer Workshops for Teachers During July

NASA's Educational Programs

Friday, July 11, 10:00 a.m.

Learn about the abundance of materials and opportunities available from NASA. Topics will include an introduction to some of the NASA sponsored websites including the NASA Education Homepage, Spacelink, Core, and more. There also will be an overview of NASA programs such as the NASA Student Involvement Program, the Aerospace Education Services Program, the Lunar Rock and Meteorite Loan Program and Space Grant.

Audience: Pre-K and above teachers **Time:** 2 hrs



Mars Exploration

Friday, July 18, 9:00 a.m.

Presented by Eric Thomas, NASA's Jet Propulsion Laboratory, Solar System Educator and Assistant Director of the East Kentucky Science Center

This workshop will be open to educators and the general public and provides an update on the current state of Mars exploration, including the Mars Exploration Rovers. Participants will be introduced to hands-on standards based activities that can be used in the classroom as part of daily instruction. Educators will receive resource materials including, CDs, lithographs, posters, and activity guides for use in their classroom.

Audience: 5th – 8th grade teachers and the general public **Time:** 2 hrs

3,2,1 Liftoff

Saturday, July 26, 10:00 a.m.

Early childhood educators can bring NASA's space programs into their classroom. Learn about the International Space Station and the role rockets play in its construction. The activities emphasize hands-on involvement, data collection, prediction, pattern recognition, sequencing and more. Participants will receive the brand new 3,2,1 Liftoff educator guide, wallsheets, and other related materials.

Audience: Pre-K – 2nd grade teachers **Time:** 2 hrs

Centennial of Flight Milestones

73 years ago in July, Werner von Braun conducted the first "space medicine" experiments using mice in a centrifuge.

60 years ago on July 7, Adolph Hitler assigned the highest priority to the V-2 program.

Just an Average June

by Bob Steiner, Meteorologist

Temperatures during June averaged slightly above normal at 71.4 degrees. There were 17 days with above average highs and 17 nights with below average lows.

The warmest day of the month was the 26th when the mercury reached 93 degrees. No record highs were set, but one daily record high was tied with a reading of 92 degrees on the 27th, equaling the original record set in 1989.

The coolest morning occurred on the June 2 with a reading of 51 degrees. No record lows were set or tied.

June was very near average for precipitation, in total rainfall. Normally, Wallops receives 3.15 inches of rain in June, however, this year we recorded 3.36 inches of rain during June. The heaviest rainfall occurred on the 19th when 2.10 inches were recorded. Measurable rain is usually experienced on 8 days during June, but this year we had measurable amounts on 14 days.

Now that summer is finally arrived we can look towards August with highs near 85 degrees, cooling slightly to 82 degrees by the end of the month. A low of 68 is normal for August 1, decreasing to a still mild 62 by the 31st. Measurable precipitation usually occurs on 8 days during the month with a total of 3.68 inches.

Keep in mind that August brings an increase in thunderstorm activity, and downpours associated with them can cause localized flooding.

Also, the hurricane season begins to get more active. This year holds the possibility of being more active than the past few seasons.

We have already had the first-ever named system in April, and the remnants of Tropical Storm Bill have traversed the U.S. from New Orleans to Ocean City during early July.

Keep informed and be prepared.

Blood Drive

Don't forget the Blood Bank of Delaware/Eastern Shore Blood Drive on July 17, 9 a.m. to 3 p.m.

Call Lindsay Layton on x1561 if you are willing to be a donor.

Successful Core Financial "Go-Live"

IFMP Core Financial had a successful "Go-Live" at Goddard Space Flight Center on June 23 and is now operating at all NASA centers.

All users can access the system on Monday, July 7 provided they meet the following access requirements:

- 1) Completed all assigned Core Financial Training (Instructor Led and Web-based Training)
- 2) Completed NASA FORM 1700 and turned into Mike Bundick in Building E105
- 3) Received SAP Logon ID/ Password from Mike Bundick

Mike Bundick can be reached on x1583 or by email: Michael.A.Bundick@nasa.gov

If you were not able to attend any of the Cut-over briefings, go to: <http://corefinancial.gsfc.nasa.gov/Documents/Cutoverbriefing061203.ppt> to get key information on the post-Go-Live stabilization processes and support.

User Help

1) On-Line Quick Reference Tool (<http://olqr-cf.ifmp.nasa.gov>) contains step-by-step procedures and job aids

2) Contact Super Users for questions at <http://corefinancial.gsfc.nasa.gov/gsfc/SuperUsersv121.htm>

3) Contact IFM help Desk (301) 286-4436

4) Attend Structured Open Houses or Functional Workshops; for an updated workshop schedule go to the Post-Go-Live Workshop calendar at <http://corefinancial.gsfc.nasa.gov/gsfc/cutover.htm>

Account Activation

You will have seven business days to activate your account(s) after your specified Go-Live date

- Log into each Core Financial application you have access to and reset your password

- Initial passwords expire the first time you log on

Inside Wallops is an official publication of Goddard Space Flight Center and is published by the Wallops Office of Public Affairs, Extension 1584, in the interest of Wallops employees. Recent and past issues of *Inside Wallops* may be found on the NASA Wallops Flight Facility homepage: www.wff.nasa.gov

Editor: Betty Flowers