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**July 2002**

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## **...From the NASA S T I Program's Principal Center**

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### **Information Technology Upgrades Approved for NASA CASI**

Following a Phase 1 study and recommendations, NASA approved Phase 2 of a major hardware and software upgrade at its contractor facility, the NASA Center for AeroSpace Information (CASI). This upgrade will enable the NASA STI Program to change dissemination of its STI from primarily paper and microfiche to an all-electronic dissemination and to provide services and products that will enhance electronic access to government information. Target date for completion of the upgrades is the end of the second quarter in FY 03.

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### **NASA STI Program Working With SCIENCE.Gov**

The NASA STI Program has been working with representatives of SCIENCE.Gov, which will serve scientific and technical information from government agencies to the public as part of the President's E-Gov initiative through FIRST.GOV. Currently, three STI-sponsored databases are included in SCIENCE.Gov. These are the NASA Technical Report Server, the CASI Technical Report Server or ReconSelect, and the NASA Image eXchange (NIX). SCIENCE.Gov, which is currently being beta-tested, is due to be released shortly.

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### **NASA CASI Completes Work on FY 2001 NASA Performance Report**

ASRC Aerospace Corporation, the NASA CASI contractor, recently completed work on the FY 2001 NASA Performance Report. ASRC provided assistance with data collection, integrating performance data, and report layout for this document. NASA raised its score in the FY 2001 evaluation, one of a few Federal agencies to do so. NASA CASI is also responsible for similar work on NASA's Spinoff publication.

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### **XML Presentations Given at CENDI Meeting**

The STI Program participated in a recent CENDI (Commerce, Energy, NASA, Defense, and Interior) meeting held at the National Agricultural Library in Beltsville, Maryland. Agenda items discussed were strategies and implementations of XML. Representatives from the National Library of Medicine, NASA's STI Program, the Department of Energy's Office of Scientific and Technical Information, Congressional Research Service, National

Institute of Standards and Technology, National Agricultural Library, and U.S. Department of Agriculture presented topics. Dr. Michael Nelson of NASA Langley Research Center presented the NASA topic, which focused on XML and Open Archives Initiative (OAI).

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### **NASA Image Exchange (NIX) Beta Test Under Way of XML Schema**

The alpha version of the next generation of the NASA Image eXchange (NIX2) was completed with data from NASA Langley Research Center and Glenn Research Center. Tools and support are available to all of the other NASA Centers to begin the process of integrating their image repositories currently linked to NIX (which uses a WAIS search engine). Key features of the new system include metadata centralization, XML Schema for multimedia, and virtual local searching. NIX2 will be undergoing a beta test with additional Centers in FY 03, prior to full release.

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### **Personnel Changes at NASA Headquarters**

The NASA STI Program welcomes Nancy Kaplan as NASA's new STI Program Director. NASA Headquarters Code AO (Chief Information Officer) recently announced Kaplan's selection as the replacement for Roland Ridgeway, who retired in February 2002. Kaplan has worked on information policy and management projects with the NASA CIO for approximately 3 years. Prior to her arrival at Headquarters, she worked for 6 years in the NASA Langley Research Center Technical Library, where she served as a reference librarian and, later, as the manager of the NASA GALAXIE information system. Kaplan has a Masters in Library Science from the University of North Carolina.

The STI Program also welcomes Patti Stockman as the new NASA Records Officer. Code AO recently announced that Stockman will replace Roland Ridgeway in this function. Stockman, a NASA employee of 18 years and records manager at Lyndon B. Johnson Space Center (JSC) for over 3 years, worked closely with the JSC STI manager through the years and served as the contracting officer for STI procurements at JSC. Last fall, she worked in a 3-month rotation in NASA Records Management at NASA Headquarters with Ridgeway. In her new position, Stockman works with the STI Program to help determine appropriate electronic formats for submission to the National Archives and Records Administration (NARA) and updating the STI records retention schedules.

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### **STI Participates in NASA SRR #70 and Information Quality Guidelines Working Group**

The STI Program participated in NASA's Strategic Resources Review (SRR) #70 team to develop NASA guidelines for ensuring the quality of its disseminated information and

administrative mechanisms allowing persons to obtain correction of information, where applicable. This is a recent Office of Management and Budget (OMB) requirement for all applicable Federal agencies pursuant to Section 515 of the Treasury and General Government Appropriations Act for Fiscal Year 2001 (Pub. Law 106-554). NASA's draft is currently being reviewed internally and by the public (via the Federal Register), with final draft guidelines to be given to OMB by August 1, 2002. Implementation of these guidelines is required by October 1, 2002. The STI Program will also participate in a subsequent follow-on team, the Information Quality Guidelines Working Group. For additional information, contact Nancy Kaplan at [nkaplan@hq.nasa.gov](mailto:nkaplan@hq.nasa.gov).

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### **STI Program Presents at Special Libraries Association 2002 Annual Conference**

JoAnne Rocker of the STI Program Office presented, "The NASA Scientific and Technical Information (STI) Program's Implementation of Open Archives Initiative (OAI) for Data Interoperability and Data Exchange," at the Special Libraries Association's 2002 Annual Conference. The presentation was based on a paper she co-wrote with George J. Roncaglia and N. Lynn Heimerl of the NASA STI Program Office; and NASA Langley Research Center's Dr. Michael Nelson. The Open Archives Initiative (OAI) is an organization created to find ways to improve scholarly communication. The OAI developed a harvesting protocol for data exchange. The STI Program Office is exploring the harvesting protocol as a mechanism to collect and disseminate NASA-produced information to its partners and the public. The paper discussed two projects currently under way that utilize the OAI-protocol for harvesting metadata: Technical Report Interchange (TRI) project and the NASA Technical Report Servers project. Information regarding OAI can be found on its website: <http://www.openarchives.org/>.



## ...S T I Program Plan

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In part, the NASA S T I Program Plan states, "The NASA Scientific and Technical Information Program is an integral part of NASA's future. The program supports the Agency's missions to communicate scientific knowledge and understanding to help transfer NASA's research and development to the aerospace and academic communities. By ensuring a fast, two-way process of internal and external information exchange, the S T I Program helps NASA avoid duplication of research, time, and cost and to make its wealth of information available to benefit its customers. Each Center is responsible for acquiring, tracking, and producing, or having produced, NASA S T I related to their Center mission; and for ensuring that Center S T I reaches the S T I Database [at the NASA Center for AeroSpace Information]."

To that end, each NASA Center executes the S T I Program mission and objectives by way of a team of individuals that applies professional publishing standards to all scientific and technical information passing through its doors. Whether the information will result in a document to be distributed through the traditional print and mail process or an electronic document available on the Internet-or both-the team is responsible for making it happen, going through the process step-by-step with each customer. For information about the S T I Program at any NASA Center, visit <http://www.sti.nasa.gov>.



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### NEW NASA HISTORY PUBLICATIONS

We urge everyone interested in the history of NASA to review *Faster, Better, Cheaper: Low-Cost Innovation in the U.S. Space Program* by Howard E. McCurdy. This concise hardcover volume is the latest "New Series in NASA History" from the Johns Hopkins University Press. McCurdy investigates the sixteen robotic planetary exploration missions undertaken since the loss of the Mars Observer spacecraft in 1993. It is available for \$34.95 from Johns Hopkins University Press. For more information or to purchase go to <http://www.press.jhu.edu/press/books/titles/f01/f01mcfa.htm>.

The NASA Dryden Flight Research Center History Program recently published *Mach 3+: NASA/USAF YF-12 Flight Research, 1969-1979* (NASA SP-2001-4525), by Peter W. Merlin. This concise volume is the latest in the "Monographs in Aerospace History" published as part of the NASA History Series. Merlin, historical archivist at NASA Dryden, tells the story of a unique flight research program involving variants of the Lockheed Blackbird supersonic reconnaissance airplanes conducted by NASA and the Air Force throughout the 1970s. Individuals interested in obtaining a copy of this monograph should send a self-addressed 8"x11" flat-rate Priority Mail envelope to the NASA Dryden Flight Research Center History Office, Mail Stop 1613, P.O. Box 273, Edwards, CA 93523. (The flat-rate Priority mail envelope costs about \$5.00, which covers the cost of mailing the monograph. The monograph is heavy, almost one pound. The flat-rate cost is good even after the postal rate increase for First Class mail.)

We are pleased to announce the publication of *Uplink-Downlink: A History of the Deep Space Network, 1957-1997* by Douglas J. Mudgway (Washington, DC: NASA SP-2001-4227, 2002). Since the beginning of the space age the critical technical component necessary to track the location of a spacecraft, to control its course, and to transmit data is the Deep Space Network (DSN). This work is for sale for \$82.00 (domestic postpaid) and \$102.50 (internationally), from the U.S. Superintendent of Documents. By Mail: U.S. Government Printing Office, Documents Warehouse, 8610 Cherry Lane, Laurel, MD 20707, phone: (202) 512-1707 ext: 30273; fax: (202) 512-1657, or through the Website at <http://bookstore.gpo.gov/>. Order stock number 033-000-01241-1. This book may also be purchased from the NASA Information Center, Code CMI-1, NASA Headquarters, 300 E Street SW, Room 1H23, Washington, DC 20546-0001, (202) 358-0000. Order NASA SP-2001-4227.

In an effort to ensure availability of significant works in NASA history, we have reprinted in paperback *On the Shoulders of Titans: A History of Project Gemini* by Barton C. Hacker and James M. Grimwood (Washington, DC: NASA SP-4203, 1977, reprinted 2002). It is now for sale for \$47.00 (domestic postpaid) and \$58.75 (internationally), from the US Superintendent of Documents. By Mail: U.S. Government Printing Office, Documents

Warehouse, 8610 Cherry Lane, Laurel, MD 20707, Attn: Sales Stock, phone: (202) 512-1707 ext: 30273; fax: (202) 512-1657, or through the Website at <http://bookstore.gpo.gov/>. Order stock number 033-000-01242-0. This book may also be purchased from the NASA Information Center, Code CMI-1, NASA Headquarters, 300 E Street SW, Room 1H23, Washington, DC 20546-0001, (202) 358-0000. Order NASA SP-4203.

Accompanying the publication *Development of the Space Shuttle, 1972-1981*, is a soft cover reprint of *The Space Shuttle Decision, 1965-1972 (History of the Space Shuttle: Volume One)*. Also written by T.A. Heppenheimer, this work was originally published in hardcover as NASA SP-4221 in the NASA History Series in 1999. It may be purchased for \$22.95 from the Smithsonian Institution Press on-line at [http://www.sipress.si.edu/books/titles\\_books/1-58834-014-7.html](http://www.sipress.si.edu/books/titles_books/1-58834-014-7.html).

Now available in paperback is "*Before This Decade is Out...*" *Personal Reflections on the Apollo Program*, edited by Glen W. Swanson. Originally appearing in 1999 as NASA SP-4223, this work received the Pendleton Prize from the Society for History in the Federal Government. This work may be ordered on-line for \$24.95 at <http://www.upf.com/Spring2002/swanson.html> from the University Press of Florida.

Finally, we are pleased to announce the reprint of *Wingless Flight: The Lifting Body Story*, by Dale R. Reed with Darlene Lister. Originally published in the NASA History Series in 1997 as NASA SP-4220, it is now available in soft cover for \$29.95 from the University Press of Kentucky on the Website at <http://www.uky.edu/UniversityPress/books/wingless.htm>.

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## FORTHCOMING NASA HISTORY PUBLICATIONS

In early summer 2002, the NASA History Office will publish Asif A. Siddiqi's *Deep Space Chronicle: Robotic Exploration Missions to the Planets* (NASA SP-2002-4524) as one of our "Monographs in Aerospace History." This monograph will provide an overview of the missions, conducted by the United States, the Soviet Union/Russia, and the other spacefaring nations of the world, to the planets of the solar system.

*We Freeze to Please: A History of NASA's Icing Research Tunnel* by William Leary (NASA SP-2002-4226) is the story of a unique facility that has made unparalleled contributions to a specialized area of aeronautics research that affects virtually all who fly.

Smithsonian Institution Press has agreed to publish the second edition of *On the Frontier: Flight Research at Dryden, 1946-1981*. Originally published in 1984 as NASA SP-4303, this well-regarded book was written by Richard P. Hallion. An on-line version of the original book is available at <http://www.dfrc.nasa.gov/History/Publications/SP-4303/>. Michael H. Gorn, Dryden's historian, co-authored the revised version. Extensively expanded and updated from the original, it will be released early in 2003, the first Field Center history to be published by a commercial or university press.

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## NASA HISTORY BOOKS PUBLISHED BY OUTSIDE PUBLISHERS

We are pleased to announce the publication of *Development of the Space Shuttle, 1972-1981 (History of the Space Shuttle, Volume 2)*, which was sponsored by the NASA History Office. Written by T.A. Heppenheimer, this work was published by Smithsonian Institution Press in May 2002. It traces the development of the Space Shuttle through a decade of engineering design and development between the political decision to proceed with it in 1972 and its first orbital flight in 1981. This work is available from Smithsonian Institution Press in hardcover for \$36.95. Copies of the book may be ordered on-line at [http://www.sipress.si.edu/books/titles\\_books/1-58834-009-0.html](http://www.sipress.si.edu/books/titles_books/1-58834-009-0.html).

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## NEW NASA HISTORICAL INFORMATION ON-LINE

*The Space Shuttle at Work* (NASA SP-432/ EP-156, 1979) by Howard Allaway and *National Space Transportation System: Overview* (NASA, September 1988). These two short publications provide some excellent basic information on the Shuttle. *The Space Shuttle at Work* is available at <http://history.nasa.gov/SP-432/sp432.htm> and *National Space Transportation System: Overview* can be accessed at <http://history.nasa.gov/shuttleoverview1988/overview88.htm>.

*Magellan: The Unveiling of Venus* (JPL-400-345, March 1989) is now accessible at <http://history.nasa.gov/JPL-400-345/magellan.htm>.

*NASA Historical Databooks, Volumes III - VI* (NASA SP-4012). Covering the time period 1969-1988, these books are valuable reference works. Some of these files are available in text-searchable PDF format and some are in html format. We hope to add Volumes I and II to the Web eventually. Volumes III-VI are available at <http://history.nasa.gov/SP-4012/cover.html> on the World Wide Web.

*Planetary Geology in the 1980s* (NASA SP-467, 1985) by Joseph Veverka. A very solid narrative with some images, this work is a useful glimpse into the science of planetary geology. The website is <http://history.nasa.gov/SP467/sp467.htm>.

*Managing NASA in the Apollo Era*. (NASA SP-4102, 1982). by Arnold S. Levine. The web address is <http://history.nasa.gov/SP-4102/sp4102.htm>.

*The Star Splitters: The High Energy Astronomy Observatories* (SP-466, 1984) by Wallace H. Tucker. This book is accessible at <http://history.nasa.gov/SP-466/sp466.htm>.

Aerospace Safety Advisory Panel (ASAP) information and historical annual reports. The information is available at <http://history.nasa.gov/asap/asap.html>.

*Stages to Saturn: A Technological History of the Apollo/Saturn Launch Vehicle* (NASA SP-4206) by Roger E. Bilstein. This landmark book is now available on-line at <http://history.nasa.gov/SP-4206/sp4206.htm>, and in a soft cover printed.

*On the Moon with Apollo 16: A Guidebook to the Descartes Region* (NASA EP-95, 1972) by Gene Simmons. This is another useful and interesting volume on human lunar exploration. The web address is <http://history.nasa.gov/EP-95/ep95.htm>.

*Pioneer Odyssey* (NASA SP-349/396, revised edition, 1977) by Richard Fimmel, William Swindell, and Eric Burgess. This richly illustrated book covers some of the important discoveries made by the Pioneer 10 and 11 spacecraft. The web address is <http://history.nasa.gov/SP349/sp349.htm>.

The 40th Anniversary of the Mercury-Atlas 6 (Friendship 7) mission. This historic mission on 20 February 1962 made John H. Glenn, Jr., the first American to orbit the Earth. Check out biographies, photos, links to many other relevant sites, and more. The Web address is <http://history.nasa.gov/friendship7/index.html>.



## **...The NASA Commercial Technology Program**

### *An Overview*



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The NASA Commercial Technology Program encompasses a national network of specialized centers and organizations that assist U.S. businesses and industry in accessing, utilizing and commercializing NASA-funded research and technology. The organizations work closely with each other to provide a full range of technology transfer and commercialization services and assistance. The NASA Commercial Technology Network (NCTN) consists of the Commercial Technology Organizations at each of the NASA field centers, the Jet Propulsion Laboratory, the National Technology Transfer Center (NTTC), the six Regional Technology Transfer Centers (RTTCs), NASA Tech Briefs, UNISPHERE, and other specialized organizations and services. All are dedicated to fostering dual-use technology partnerships and the transfer and commercialization of NASA-sponsored research and technology.

The NCTN provides access to a wide variety of information resources that can be searched and consulted for research and technology, patents, technical expertise, and R&D facilities, as well as for technology partnering, licensing, and commercialization opportunities. In addition to serving as an integrated information resource, the NCTN is developing into an electronic marketplace for NASA-sponsored technology, facilitating communications, transactions, and partnerships between NASA and the U.S. private sector.

Visit the NCTN website at <http://nctn.hq.nasa.gov> for more information on the NASA Commercial Technology Program and the members of its network.

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To receive a printed copy of *Spinoff*, please contact the National Technology Transfer Center (NTTC) at (800) 678-6882, or visit the NTTC web site at <http://www.nttc.edu>.

### ***Spinoff* Commemorative Edition**

A commemorative edition of NASA's annual premiere publication *Spinoff*, celebrating the 40th anniversary of the Agency's Commercial Technology Program, will be released this year. This program has contributed to the development of many commercial products and services in the fields of health and medicine, industry, consumer goods, computer technology, transportation, and environment. Along with the annual *spinoff* articles, a special section will highlight historical technology transfer successes from NASA Headquarters and the 10 Field Centers. Hardcopy issues, in addition to a searchable CD-ROM disc, are scheduled for release in September 2002.