

# Spino

National Aeronautics and  
Space Administration

# 40

Fortieth Anniversary  
Technology Utilization Program

# 2002



# Nasa Spinoff 2002 40th Anniversary Technology

**United States. National Aeronautics  
and Space Administration**



## **Nasa Spinoff 2002 40th Anniversary Technology:**

**NASA Tech Briefs** ,2003      **Spinoff 2002** National Aeronautics And Administration,2013-12 Since its inception 40 years ago NASA s Technology Transfer Program has led the way for our Nation to benefit from cutting edge aerospace technologies In addition to contributing to U S economic growth these technologies are improving the quality of life on Earth while finding new ways to protect and preserve it NASA s research and development efforts have advanced areas in medicine communications manufacturing computer technology and homeland security These breakthroughs translated into commercial products are enhancing the lives of Americans everywhere When a congressional mandate led NASA to develop the Scientific and Technical Information STI Program the Agency began a wide dissemination of its research and development results In doing so NASA recognized that many of its technologies were transferable to industry for the development of commercial products As a result the Technology Utilization Program was born in 1962 The successful program went through several changes over the years as its philosophy mission and goals adapted into the Technology Transfer Program we know today The program strives to make the latest technologies available to industry as soon as they are developed Each year NASA s Spinoff publication showcases new products and services resulting from commercial partnerships between NASA and private industry In the 2002 issue the NASA field centers reflect upon the growth that has made these innovations available to the public The Research and Development section examines past achievements current successes and future goals for each of the 10 centers The Commercial Benefits section proudly highlights 51 new spinoff products including a heart pump for patients needing a heart transplant as well as an air purifier that destroys anthrax spores The Technology Transfer and Outreach section describes the outreach achievements and educational successes made possible through the NASA Commercial Technology Network Each section of Spinoff 2002 provides compelling evidence of the Technology Transfer Program s success and value With commercial products and successes spanning from work on the Apollo missions to the International Space Station the 40th anniversary of the Technology Transfer Program invites us to celebrate our history while planning the future      **Societal Impact of Spaceflight** Steven J. Dick,Roger D. Launius,2007

Since the dawn of spaceflight advocates of a robust space effort have argued that human activity beyond Earth makes a significant difference in everyday life Assertions abound about the impact of spaceflight on society and its relationship to the larger contours of human existence Fifty years after the Space Age began it is time to examine the effects of spaceflight on society in a historically rigorous way Has the Space Age indeed had a significant effect on society If so what are those influences What do we mean by an impact on society And what parts of society Conversely has society had any effect on spaceflight What would be different had there been no Space Age The purpose of this volume is to examine these and related questions through scholarly research making use especially of the tools of the historian and the broader social sciences and humanities Herein a stellar array of scholars does just that and arrives at sometimes surprising conclusions      **NASA**

**Spinoff (2002)** Allen Li, 2002-10 Since its inception 40 years ago the NASA Technology Transfer Program TTP has led the way for our Nation to benefit from cutting edge aerospace technologies In addition to contributing to U S economic growth these technologies are improving the quality of life on Earth The TTP transfers many of its technologies to industry for the development of commercial products This issue of NASA Spinoff reflects upon the growth that has made these innovations available to the public Covers the 10 NASA Space Centers Lab commercial benefits health med transport public safety consumer home recreation environ resources mgmt computer tech industrial productivity mfg tech Commercial tech network affiliations Small Business Innovation Research Reauthorization on the 25th Program Anniversary United States.

Congress. House. Committee on Science and Technology (2007). Subcommittee on Technology and Innovation, 2008

**Business Periodicals Index**, 2001 NASA, Technology-Based Learning, NP-2002-11-514-GSFC. United States. National Aeronautics and Space Administration, 2003\* **Spinoff 2000** National Aeronautics And Administration, 2013-12

For the past 42 years NASA has made special efforts to ensure the widest possible dissemination of its research and technology developments We share the wealth of technology developed for our missions with the nation s industries to contribute to U S economic strength and quality of life For the past 27 years this publication has provided you with over 1 200 examples of products and services developed as a direct result of commercial partnerships between NASA and the business community Examples have covered products from fire retardant materials and air pollution monitors to non invasive cardiac monitors and sensors for environmental control Research and development across a broad range of technology disciplines such as micro devices fiber optics lasers enhanced imaging and data communication have generated technologies applicable to many commercial products we have used for our benefit The NASA Commercial Technology Network is an excellent vehicle for easy access to use of these technologies The application of NASA technologies by the private sector increases productivity by contributing to the development of new products and services that meet consumer demands benefit the national economy and enhance human health and quality of life At the same time application of NASA technology helps the U S meet international competitive challenges and stay at the leading edge of technical innovation The return benefits spinoffs represent a significant dividend to the taxpayer and the nation s investment in aerospace research Spinoff 2000 is an instrument of the NASA Commercial Technology program and documents the outcome of our spinoff successes It is a true measurement of NASA s commitment to transfer as many technologies to the private sector as possible In the Technology Transfer and Outreach section of Spinoff 2000 we highlight the activities of our Ames Research Center s Commercial Technology Office CTO Their efforts to facilitate and support technology commercialization are representative of the CTO at each field center Increased activities to accelerate the dissemination of technologies speed up the process of patent licensing quicken the release of software for beta testing support and manage incubators and hasten the collaboration with commercial and academic organizations will continue to maximize the earliest potential commercial utilization of NASA s

new inventions and technologies Spinoff 2000 is organized into three sections 1 Aerospace and Development highlights major research and development efforts currently carried out at the 10 NASA field centers 2 Commercial Benefits Spinoffs describes commercially available products and services resulting from the transfer of NASA technology and 3 Technology Transfer and Outreach features this year's center spotlight NASA's Ames Research Center and its commercialization efforts as well as the mechanisms in place nationwide to assist U.S. industry in obtaining transferring and applying NASA technology expertise and assistance

**Nasa Spinoff, 1991**, 1993-06-01 Contents outline of the major NASA programs that generate new technology a sampling of spinoff products a description of the mechanisms NASA employs to stimulate technology transfer Color illustrations

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