



# COMMUNICATING SCIENCE BROADLY

Jeff Nesbit, Director  
Office of Legislative and Public Affairs



# The Changing Media Landscape





## **Nearly 40 million Americans rely on the internet as their primary source of news about science.**

- Television is first (41%) as a science news source.
- The internet is now second (20%)
- Newspapers and magazines are third (14%)
- In homes with broadband, 44% of young adults get their science news from the internet.



# Science in the national media

- *Pure coverage of science has all but disappeared in the national media.*
- *U.S. News & World Report, the Wall Street Journal, CNN and USA Today no longer have science sections.*
- *The major broadcast networks now cover science under a space, health or technology umbrella.*



# Science as *Technology*

**Newsweek** Technology & Science





Friday, September 07, 2007

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## Columns and Blogs

- Silent Prayer for the Planet**
- Sea Ice Loss Imminent, Researchers Say
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- NASA Blasted for Deriding Drinking Report
- i(OU) Phone: \$100 Credit to Early Buyers
- Making Money for Nothing
- New Perspective on the Virtual World**
- 500-Year-Old Inca Mummy on Display
- Virtual Elementary, High Schools on the Rise



### New Perspective on the Virtual World

Startup hopes to compete with Google Earth by building a more natural world.

1 Comment

**VIDEO PLAYER**

A Is for Apology  
Apple Revamps Line of iPods  
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Back to School | Tech Guides | Wildlife | Space

**Tool Supplies: Books, Pens, Body Armor**  
Company is marketing bulletproof backpacks to tents.

**A Social Network for Each Day of the Week**  
Insight into the Top 7 social networks for students and companies to engage in.

**View: Jawbone Bluetooth Headset**  
Despite its size, Jawbone goes far in eliminating background noise.

**Gaming With 'High School Musical' Crowd**  
Disney now offers a video game based on its popular direct-to-TV movie.

More Sci-Tech News 1 of 10

**AnchorFree: WiFi Hotspots Worldwide**

**VIDEO: Bullying Online**  
Teenagers find a new online way

**Auto Insurance**  
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Live Developing story

## Red Sox celebrate in Boston with trophy and fans

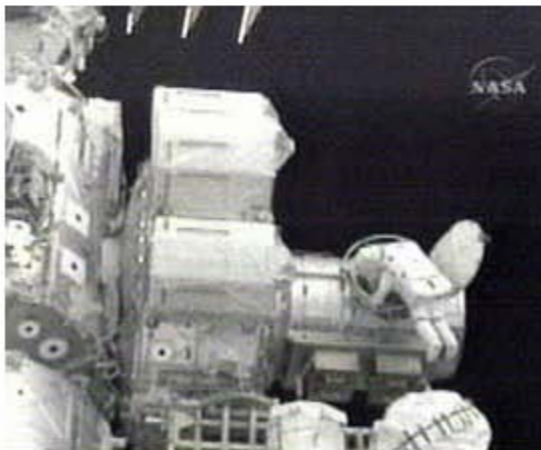
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## Astronauts perform critical construction job

Astronauts plowed ahead Monday with the mammoth job of moving a 17½-ton solar array truss on the international space station, a task made even more crucial following the discovery of contamination in an important part of the orbiting lab's

### The Browser

- The Web reaches across the pond
- CNBC: Lights, camera...actionable?
- Portfolio tackles tech and politics, ...





# Science as *Health*

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## Health & Science



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### BLOGS >>

EYE ON SCIENCE  
**Why Honeybees Are Vanishing**

By MIKE LEMONICK

Science magazine is weighing in on why huge numbers of hives have been abandoned with a suite of papers, based on genomic analysis, that points to a microbe called Israeli Acute Paralysis Virus.



More Blogs >>

### QUOTES OF THE DAY >>



**“** To conclude, I invite you to embrace Islam. **”**

- OSAMA BIN LADEN in a new 30-minute videotape, the first to surface in three years

## Hyper Kids? Cut Out Preservatives

SPECIAL HEALTH REPORT

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Top 10 shark infested beaches



# *No Science Sections*

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04/17/2002 - Updated 05:15 PM ET

## Science news moves to new page

The science news that was formally found on this page is now found on the USATODAY.com [Health and Science front page](#). If you have this page on our list of favorites or bookmarks, please change your listing. Thank you for reading USATODAY.com

Our [Answers to science questions](#) by April Holladay remains at its same Web address

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By Robert Deutsch, USA TODAY

health | 18h 3m ago | Comments 91 | Recommend 30

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**Headlines**

health | 2h 12m ago | Comments 2 | Recommend 6

**FDA OKs Novartis leukemia drug**

washington | 9h 39m ago | Comments 246 | Recommend 11

**Compromises sought on kids' health bill**

health | 17h 16m ago | Comments 49 | Recommend 70

**Group urges autism screening for toddlers**

globalwarming | 18h 34m ago | Comments 38 | Recommend 8

**Global warming may hit kids harder, pediatrics group says**

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painter | Comments 28 | Recommend 1

**Danger lurks in the shadow of the peanut**

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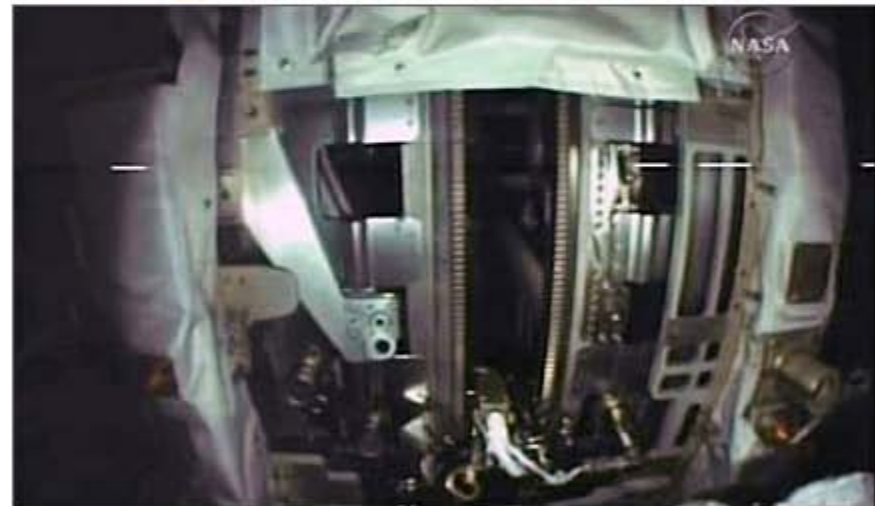
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By Marcia Dunn, Associated Press  
• OBSTACLE: Damaged component could thwart space station plans

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IN THE NEWS

## Competition Puts Solar Homes on Display

October 23, 2007  
Report

The Department of Energy's Solar Decathlon brought teams from 20 universities to the National Mall to showcase their designs for solar-powered homes.

RealAudio | Download Streaming Video

## Solar Homes on the National Mall

October 23, 2007  
Slide Show

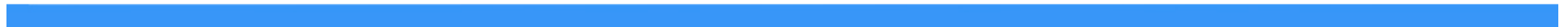
View all of the solar homes entered in the Department of Energy's 2007 Solar Decathlon.

IN-DEPTH COVERAGE

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# Broader Impacts





## Criterion 2

1) How well does the activity advance discovery and understanding while promoting teaching, training and learning?

2) How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, etc.)?

3) To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks and partnerships?

4) Will the results be disseminated broadly to enhance scientific and technological understanding?

5) What may be the benefits of the proposed activity to society?

---





# ***Past “Broader Impact” Activities***

- 1) Partner with museums and science centers
  - 2) Collaborate on education activities
  - 3) Make data available to digital libraries
  - 4) Present research findings to policy audiences
  - 5) Participate in conferences and workshops
-



## ***2002 NSF Report on Broader Impacts:***

*“Experience shows that while most proposers have little difficulty responding to the criterion relating to intellectual merit...*

*...many proposers have difficulty understanding how to frame the broader impacts of the activities they propose to undertake.”*



## NSF's Response in 2002

- The agency said that it would not review any proposal that failed to address Criterion 2.
- Despite this mandate from NSF, there was still considerable confusion about what types of activities fulfill Criterion 2.




## And Now, 5 years later?

- A recent American Physical Society News article says that some in the scientific community view Criterion 2 as “confusing, burdensome, inappropriate, or counterproductive.”
  - An MIT scientist describes it as “punitive.”
-

The NSF logo watermark is located in the top left corner. It features a circular emblem with a gear-like pattern and the text 'SCIENCE' and 'FOUNDATION' around it. A blue decorative bar is at the top of the slide.

NSF funded a Broader Impacts workshop this summer, and 26 institutions were represented. Some suggestions:

- 1) Identify established education and outreach programs that scientists and NSF-funded programs could join.
  - 2) Build a Criterion 2 percentage into large awards that could support extensive outreach projects.
  - 3) Recognize ongoing, broad-based media and public affairs initiatives that fulfill Criterion 2.
- 
- A solid blue horizontal bar is located at the bottom of the slide.

The logo of the National Science Foundation (NSF) is visible in the background on the left side of the slide. It features a circular emblem with a sunburst design and the text "NATIONAL SCIENCE FOUNDATION" around the perimeter.

# Congress has now weighed in

*America COMPETES (NSF's 2007 reauthorization) requires a report to Congress on "broader impacts" in areas such as:*

- \* outreach to the public*
- \* training scientists*
- \* disseminating research findings.*

# Scientific Communications Act of 2007 (H.R. 1453)

## March 21, 2007



- “...with the increasing presence of science and technology in public policy issues, a greater national effort needs to be made to train scientists to engage in the public dialogue....”
- “...provides resources at the National Science Foundation (NSF) to improve the ability of scientists to convey the relevance and importance of scientific research and technical topics...”



# A new, emerging mandate for communicating science to the public

- Renewed emphasis on making the scientific process, research and discoveries available to the public.
  - The public must understand the science it is being asked to support financially.
  - Criterion 2 – and the “broader impacts” part of it – are important to this effort.
-





# **New NSF Public Affairs Initiatives**





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Press Release 07-130

## National Science Foundation and ResearchChannel Form Programming Partnership



NSF and ResearchChannel will develop science programs for national and international broadcast.

[Credit and Larger Version](#)

October 4, 2007

# Feverish Effort Under Way to Understand Mt. Vesuvius



## SCIENCE VIDEO

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Reuters

**Nitrogen in your tires?**  
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Lucia Gurioli  
University of Hawaii at Manoa  
LiveScience.com  
Sat Oct 13, 1:10 PM ET

This Behind the Scenes article was provided to LiveScience in partnership with the National Science Foundation.

While majoring in geology at the University of Pisa in 1991, I traveled on a class fieldtrip to Vulcano —a small island volcano near Sicily's north shore. (The word "volcano" originated from Vulcano, which was named after the Roman God of Fire.)

During the fieldtrip, I climbed to the top of Vulcano and then descended into its summit crater. When I reached the crater floor, I marveled at the tranquility and silence that filled the air. But then, as I glanced up at the steep, steaming,

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South Pole Telescope May Reveal What the Universe is Made Of [Source: National Science Foundation]



(2)

[21-Mar-2007] Scientists say they are hoping a massive telescope will help them uncover the materials that comprise the universe and how these particles got here. The South Pole Telescope (SPT), which measures 75 feet tall, 33 feet wide and weighs 280 tons, is also expected to help scientists determine if dark energy is the force that dominates the universe. Scientists have varying ideas as to what dark energy may be and how it directly affects the universe. The \$19.2 million...

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Monday, October 29, 2007

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### With Financial Backing at Last, There's a Revolution in Power

Thanks to Silicon Valley's money and ideas, solar and other new technologies may finally pay off.

- Offshore, bigger blades reap wind power
- Governors push for smart energy
- Video: Green ideas for your home



300-foot "Power Tower" built by Abengoa outside Seville, Spain. (Abengoa)

#### SCIENCE BLOG: THINKING HARDER

##### Medical Trials Ignore the Placebo Effect

The randomized, placebo-controlled trial is considered the gold standard of medical experimentation. But could much of what glitters be fool's gold?

#### MORE FROM U.S. NEWS

##### For Frogs, a Digital Detour

Software makes it possible for students to swap a scalpel for a computer mouse in the Biology lab.

#### SCIENCE COVERAGE FROM THE NSF:



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Press Release 07-086 - Video

## Call-in Program With Experts to Discuss Their New Approach to Cancer Detection



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Three of the pioneers behind novel light-scattering techniques to detect certain early stage cancers joined an outside expert on biophotonics in a call-in program to discuss new research results that were presented in the Aug. 1, 2007, edition of *Clinical Cancer Research*. Richard McCourt (right), of NSF's Directorate for Biological Sciences, was the moderator.

Credit: National Science Foundation



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## tools for scientists and engineers



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### What is Communicating Science?



Scientists and engineers who foster information-sharing and respect between science and the public are essential for the public communication of and engagement with science. Although traditional scientific training typically does not prepare scientists and engineers to be effective communicators outside of academia, funding agencies are increasingly encouraging researchers to extend beyond peer-reviewed publishing and communicate their results directly to the greater public.

In response to this need in science communications, the AAAS Center for Public Engagement with Science and Technology is partnering with the National Science Foundation to provide resources for scientists and engineers, both online and via in-person workshops, to help researchers communicate more broadly with the public.

Communicating Science Broadly resources include interactive video seminars, how-to tips and strategies for identifying public outreach opportunities, as well as sample questions and answers on key science topics.

The resources address how to communicate science broadly through the following outlets:

- Media outreach
- Public outreach
- Multimedia development

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Research Results for the Public

NIH Senior Health.gov

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- eColumn: NIH Research Matters
- Improving Health Literacy

NIH Disease

## News from the National Institutes of Health

The National Institutes of Health (NIH) — The Nation's Medical Research Agency— is comprised of 27 Institutes and Centers and is a component of the U.S. Department of Health and Human Services. It is the primary Federal agency for conducting and supporting basic, clinical, and translational medical research, and investigates the causes, treatments, and cures for both common and rare diseases. For more information about NIH and its programs, visit [www.nih.gov](http://www.nih.gov).

### NIH News Releases

- 6-Sep-2007 - **Study identifies genetic risk factor for rheumatoid arthritis, lupus**  
NIH/National Institute of Arthritis and Musculoskeletal and Skin Diseases
- 6-Sep-2007 - **NIH launches interdisciplinary research consortia**  
NIH/Office of the Director
- 6-Sep-2007 - **Global survey reveals significant gap in meeting world's mental health care needs**  
NIH/National Institute of Mental Health
- 5-Sep-2007 - **New study examines brain-gut relationship in those suffering with stomach pain or discomfort**  
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The screenshot shows the iTunes application window. The top menu bar includes File, Edit, Controls, View, Store, Advanced, and Help. The main window title is 'iTunes'. The search bar contains 'nsf'. The left sidebar shows 'LIBRARY' with Music, Movies, TV Shows, Podcasts (2), and Radio. Below that is 'STORE' with iTunes Store, and 'PLAYLISTS' with Party Shuffle, 90's Music, Music Videos, My Top Rated, Recently Added, Recently Played, and Top 25 Most Played. The main content area is titled 'The Discovery Files' and shows the podcast cover, artist 'National Science Foundation', category 'Natural Sciences', language 'English', and total of 18 episodes. It includes buttons for 'WEBSITE', 'REPORT A CONCERN', and 'SUBSCRIBE'. Below this is a section for 'LISTENERS ALSO SUBSCRIBED TO' with links to 'Ecogeeks : Science Video Podcast', 'PHYS 1111 Introductory Physics I Video...', 'PHYS 2211 Principles of Physics I Video...', 'CDC Featured Podcasts (Video)', and 'And Finally | Video'. At the bottom, a table lists 14 episodes.

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2 "Face Time" -- The Discovery Files	1:15	National Science Fou...	10/03/2006	A split second chance to make a 1st impression	Free
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6 "A Little Counter Intelligence" -- The ...	1:15	National Science Fou...	09/28/2006	Turns out baby's doin' the math.	Free
7 "HIAPER-Active" -- The Discovery Files	1:15	National Science Fou...	09/19/2006	New turbulence study could lead to safer fly...	Free
8 "Thermal Outerwear" -- The Discover...	1:15	National Science Fou...	09/14/2006	Self-cooling soda bottles?	Free
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10 "Pronounced Profits" -- The Discover...	1:15	National Science Fou...	09/08/2006	What's In A Name? MONEY!	Free
11 "Tacky Bacteria" -- The Discovery Files	1:15	National Science Fou...	09/05/2006	Look out, "super" glues! These bacteria cre...	Free
12 "Sounds of Silence" -- The Discovery ...	1:15	National Science Fou...	08/30/2006	Chinese frogs: Is it something they said?	Free
13 "Captive Evidence" -- The Discovery ...	1:15	National Science Fou...	08/28/2006	Digging up evidence of earlier slave trade	Free
14 "Alternate Internet" -- The Discovery ...	1:15	National Science Fou...	08/24/2006	Viruses, worms and strikes. Oh, my!	Free

*EXAMPLE: NSF's Discovery Files*



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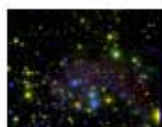
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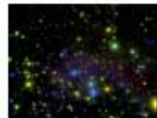
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One of the Most Curious Objects in the Sky Delights Astronomers Again

August 29, 2007



Edwin Hubble once called IC 10 "one of the most curious objects in the sky," and new observations of this dwarf galaxy are giving scientists new clues about how populations of stars are born. Though the properties of stars in this galaxy are different from those in our own Milky Way, the topics in astronomy, scientists are studying the mechanisms involved in star formation.

[Full story](#)

Source

W. M. Keck Observatory

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W. M. KECK OBSERVATORY  
On the summit of Mauna Kea, Island of Hawai'i

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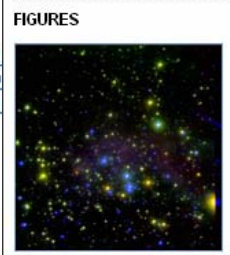
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CALENDAR EDUCATION GALLERY VISITING CONTACT

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Credit: UCB/NASA/Keck Observatory

The central starburst region

ARTICLE

'ONE OF THE MOST CURIOUS OBJECTS IN THE SKY' DELIGHTS ASTRONOMERS AGAIN

Mauna Kea (August 29th, 2007) Edwin Hubble once called IC 10 "one of the most curious objects in the sky," and new observations of the extremely faint, lightweight dwarf galaxy are giving scientists new clues about how populations of stars are born.

Though the properties of stars is one of the most well-studied topics in astronomy, scientists still don't fully understand all the mechanisms involved in star formation and evolution, particularly in galaxies with low levels of oxygen, nitrogen and other heavy elements. But scientists studying the IC 10 galaxy may soon understand how stars might have looked like in the distant past, when the universe was in a younger, more pristine form.

"A few years ago these types of studies would have been impossible from the ground," said Dr. Taft Armandroff, director of the W. M. Keck Observatory, who's own research includes the study of dwarf galaxies. "We can now study individual stars of galaxies several million light years from Earth to understand how star formation events may have affected the evolution of the Milky Way galaxy. This galaxy can teach us what the most common types of galaxies in the universe might be like."

New images of IC 10 reveal a small region of space teeming with nearly a thousand stars. The image, obtained with NASA's Hubble Space Telescope and the W. M. Keck Observatory in



# National Science Foundation Science and Innovation



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NSF PIO Workshop  
October 2004  
Socorro, New Mexico

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# PROTOTYPE



## RADIO

### Science Diaries

**UPDATED WEEKLY**

**Series Description**  
Experience the frontiers of discovery first-hand, as scientists, armed with microphones and recorders, share their own stories as they happen. From lightning strikes to earthquakes to the inner workings of the human brain, each two-minute episode is science on the front lines, and

**RADIO PLAYER**

PLAYING: *Science Diaries - Avalanche!* ⓘ  
UP NEXT: *Willard Scott for NSF50 - On Top of the World* ⓘ

**TRANSCRIPT**

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Fuwa to Promote Green Olympics	ⓘ	The EnvironMinute	04/05/07	1:04	<a href="#">LISTEN</a>	<a href="#">DOWNLOAD</a>
Week ending March 16, 2007	ⓘ	Science Update: Weekly	04/04/07	5:47	<a href="#">LISTEN</a>	<a href="#">DOWNLOAD</a>
Bird Bandits	ⓘ	Nature Watch	04/04/07	1:35	<a href="#">LISTEN</a>	<a href="#">DOWNLOAD</a>
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# NSFRADIO

SEARCH



## Bill Nye

**Podcast Series Description**  
Got 30 Seconds? Bill Nye the Science Guy talks about great moments in science and engineering as part of the National Science Foundation's 50th Anniversary Celebration.

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**NOW PLAYING** 0:55 -0:22

Bill Nye Microbursts: Item description item description item description item description.

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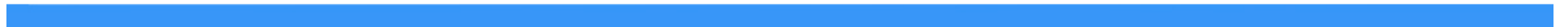
PODCAST	SERIES	TIME	DATE	DESCRIPTION
 Microbursts	Bill Nye	1:03	10/24/2006	Bill Nye 50th Anniversary Radio Public..
Garbage to Gas	Discovery Files	1:03	10/24/2006	Could you fire up the family car on a gallon ...
All Seeing Robot	Imagine That!	1:03	10/24/2006	Apparently, humans aren't the only ones ...



Internet



# Scientists & the Mass Media



The logo for Science Foundation is located in the top-left corner. It features a circular emblem with a sunburst or gear-like pattern in the center. The words "SCIENCE" and "FOUNDATION" are written in a circular path around the emblem. The logo is semi-transparent and light blue.

# In What Sport...

- Do athletes work daily with engineers, mathematicians and scientists?
  - Are some athletes engineers?
  - Do teams employ people with Ph.D.s in math, science and engineering?
  - Do engineers have their own weekly TV show?
  - Does success depend on your understanding of math, science and engineering?
-



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*CSI: The Experience* was developed by the Fort Worth Museum of Science and History, CBS Consumer Products, CSI: Crime Scene Investigation, and the National Science Foundation.



**The Fort Worth Museum of Science and History** serves as a vital component of the educational infrastructure of Texas and an important family leisure destination for North Texas due to its creative, vibrant programs and exhibits. Established in 1941, the Museum today hosts roughly 800,000 visitors a year, including more than 150,000 school children. Because the Museum is constructing a new building beginning in the fall of 2007, it will host *CSI: The Experience* in the summer of 2008 off-site. Accredited by the American Association of Museums, the Fort Worth Museum is a founding member of the Science Museum Exhibit Collaborative (see below), for which it is developing *CSI: The Experience*.



**Why?**

