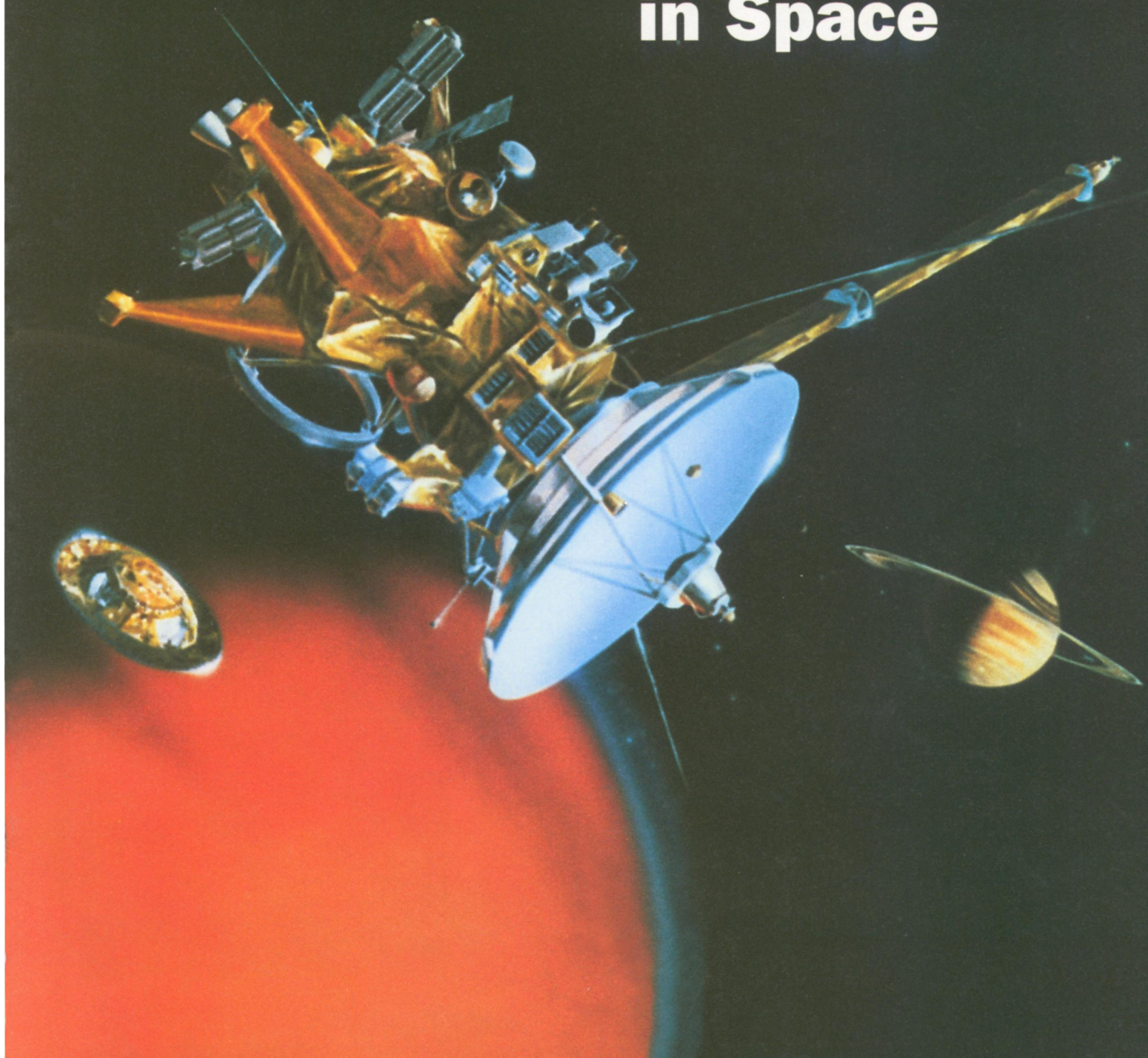


The Weekly Newsmagazine of Science

SCIENCE NEWS

January 18, 1997
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Pages 33-48

New Year in Space



Science Comes Alive

IN THIS UNIQUE COLLECTION OF SCIENTIFIC, EDUCATIONAL AND OPTICAL PRODUCTS FOR EDUCATORS, STUDENTS AND INVENTORS.

FOCUS YOUR AUDIENCE'S ATTENTION WITH NEW RUSSIAN

LASER POINTER



Lightweight, measures only 5" long. Ideal for lecturers, educators, instructors, sales meetings and slide show presentations.

Project a brilliant red laser dot to focus attention to slide presentations, charts and sales meetings at distances up to 150 feet. Compact pen style class IIIa laser pointer is manufactured in Belarus at the IDX optical factory, this pen-style laser pointer is an excellent value. Features heavy-duty construction, baked enamel grey finish and pen clip-on switch. 6-8 hours continuous battery life, uses 2 "AAA" batteries (included). Solidly-built, yet weighs only 1.6 oz. Rated output: 5mW at 670nm.



Caution: Laser light, avoid direct eye exposure.

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Digital Thermometer Shows BOTH Indoor AND Outdoor Temperature, Memory For The Day's High AND Low!

Now, you'll know at a glance how cold it is, with large, easy-to-read LED read-out numbers, both the outside and inside temperature. Thermometer also records high and low readings. F° or C° selectable -40°F to +122°F. Modern Hi-Tech case measures 7 x 3 1/4 x 1/4". Easy to mount. Uses 2 "AA" batteries (not incl.). Complete with 10 ft. outdoor probe sensor cord. **On Sale Reg. \$46 PC38,038 \$32.00**

Fun And Intriguing! You'll Play For Hours With These Colorful Magnetic Magic Marbles.

Build a mountain or odd geometric patterns with these fascinating, high impact plastic marbles. Each marble has both a negative and positive pole. A challenge to your imagination. Fun for youngsters, adults too!

PC34,968 (Pkg. of 20) @ \$4.25 Ea. (15 Pkg. or more) @ \$3.80 Ea. (10 Pkg. or more) @ \$3.25 Ea. PC37,623 (50 Marbles incl. bag) @ \$12.95 Ea.

Can You Tell Which Ball Is A Happy Bouncer, And Which Ball Is Not?

Two seemingly identical black spheres with marked differences in their physical properties. Balls are 3/4" in diameter and have the same density, mass, color and appearance; yet when dropped to the floor one jumps wildly, the other is motionless. Marvelous thought provoker for discrepant event series. Fact sheet on physical and chemical properties plus experiments for classroom use included.

PC39,129 \$4.95; PC53,619 Pkg. of Four Pairs \$16.50

Electric Diving Submarine Toy.

Our battery operated electric motor plastic toy submarine dives and resurfaces to the delight of young U-Boat commanders. 13" long and approximately 2" in diameter with diving depth adjustment or surface cruise mode. Requires 2 "AA" batteries (not included). **PC53,472 \$11.95**

Metric Triple Balance Ohaus Scale With Single Pan Balance.

The classic weighing instrument provides accurate weights year after year. Rugged construction, weigh anything - liquids, solids or live animals. Three tiered, notched beams (100-550 gram capacity). Stainless 6" platform 10x6x6". **PC71,695 \$97.50**

Accessory Weight Set, expands scale to 2,610 capacity including 1-500 and 2-1000 gram wts. **PC41,766 \$26.00**

Authentic WWII Memorabilia Tank Prism.

A Great Collector's Item! During W.W. II U.S. Army tanks carried panoramic periscopes so they could maneuver secured without exposing the driver in battle. The glass prism head for these periscopes was a favorite target for enemy snipers, thus each tank carried many spares. Packed in its original issue carton each prism is housed in an army brown metal frame which snapped into the periscope. Glass prism measures 54mm x 38mm x 146mm. Package weight 2 lbs. Original value to U.S. Gov't \$50.00 each in 1944; **PC53,462 \$19.95**

7x50 US Navy Specification Military Binoculars.

Waterproof nitrogen-filled Fujinon binoculars are made in the USA. These are the same binoculars supplied to the US Navy for demanding sea duty. Brand new 7x50 binoculars meet or exceed military requirements for strength, performance and quality. For maximum light transmission and image brightness, all optical surfaces are coated with magnesium fluoride. The lenses and Bak-4 prisms are sealed with light alloy housings from which all air, moisture and contaminants have been purged by dry nitrogen. The eyepieces are O-ring sealed, 100% waterproof, and impervious to temperature extremes from -20°C to +70°C. The 7x50 BIF series is designed for use anywhere on earth. For a more comfortable grip as well as added protection against impact, the binocular housing is covered with a strong, durable rubber coating. The eyepieces provide a focusing adjustment range of ±4 diopters with 1-diopter calibration. Includes neck strap and cover. Field of View: 380 ft. Weight: 2.9 lbs. **PC53,459 \$229.00**

ES Mighty Magnet Lifts Over 200 Pounds.

Go fishing with our Mighty Magnet. Fun to use around docks and bridges. A must for a boat, it helps retrieve metal objects that fall overboard. You'll be amazed at what you pull up. Made with a bright orange Poly-Vinyl Chloride coating to resist corrosion and chipping. Many industrial and maintenance uses. Weighs 2 lbs., measures 4" x 3 1/4" x 3 1/4". **PC71,135 \$34.95**

Add Power To Your Model Boat With A Submersible Motor And Propeller

Add power to boat models or any floating toy by simply attaching this submersible Mabuchi motor directly to the bottom with suction cup or glue.

Powered by one "AA" battery (not incl.). Internal motor turns a small 2 blade propeller, adj. ruder. Measures 4 1/4" x 1". **PC39,289 \$8.00**

Our Six Most Popular Science Toys That Teach.

Save \$5.30 on our famous favorites! **A \$28.25 Value!**

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Classical science demonstrations have amazed and intrigued young minds for generations. You'll have fun learning from science.

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IT'S SCIENCE FAIR TIME!

Radiometer... A Solar Engine.

It's fascinating to watch the delicate vanes within this 5" precision-made sphere spin faster and faster illustrating the basic principles of solar heating. When light strikes the vanes it transfers heat and the vanes begin to move. Four vane rotor spins continuously at up to 3000 RPM. Works from artificial or direct sunlight. An attractive conversation piece. **Plain Glass Radiometer PC60,082 \$7.95**
Silvered Radiometer PC60,529 \$14.95

Build Your Own 2000° Solar Furnace With This Fresnel Lens And Harness The Sun's Rays!

Use this precision lens as a solar cooker for heating food, as a kiln for pottery - and even to melt metal or for other solar experiments. Lens has 50 lines per inch and measures 11" x 11", 1/4" thick. Unmounted lens comes with instructions on how to build the 360° stand and frame shown. **Caution: Adult supervision required.** **PC52,833 \$22.95**

Miniature Water Pump For Science Fair Projects, Photo Darkrooms, Water Displays.

This tiny pump can pump a pint per minute with a 12" high flow. Ideal for temperature control and circulation of darkroom chemicals, table fountains, model waterfalls, water filtration etc. Can be used in either direction and is self-priming. Operates on 2 "AA" batteries (not incl.), runs up to 48 hrs. before battery change is required. 4" tube incl. **PC50,345 \$8.25 ea. 3-19 pumps \$7.25 ea. 20 or More \$6.25 ea.**

Solar Powered Pump Project.

Build a solar powered water fountain. Contains 4 solar cells (4 x 4") each rated at 0.45V 2 Amps and our famous miniature water pump (featured above) plus 12' of plastic tubing. **PC52,120 \$26.95**

Motors By The Bag For Hobbyists & Modelmakers.

Our inexpensive motors can make wheels go round, propellers turn. Unlimited applications.

Have fun by adding motion to your science fair projects, demonstrations and experiments with this special buy of 20, 1" motors with 1/2" long shafts. **20, 1" Motors PC1304 \$15.50**

Free Standing Science Fair Project Display Boards. NSTA Approved.

Enhance your science fair projects with our expandable science fair project boards. Extra sturdy, corrugated boards are faced with white bond paper for a beautiful finished appearance. Pre-folded sides can be folded forward (as illustrated) for a free standing presentation. Boards are 36" x 24" folded; 36" x 48" expanded.

Science Project Display Boards
Package of 3 Boards **PC52,383 \$14.95**

Perform Experiments With Equilateral Prisms Discovered By Sir Isaac Newton.

Prism discovery optics have three equal 60° angles. Ideal for classroom demonstrations. Turn sunshine into rainbows, bend light, even make a periscope. You can perform Newton's basic dispersion of white light into the spectrum experiments. All prism faces are 25mm. **Set of 5 Acrylic Prisms PC52,885 \$26.95**

Equilateral Acrylic Prisms	75mm. PC31,797 \$5.95
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50mm. PC31,801 \$5.45	150mm. PC31,799 \$9.50

Add Spectacular Color To Your Home With A Rainbow Light Display.

Our equilateral prism mounted in an attractive high tech positioning base catches the sunlight from your windows and projects the ever-changing rainbow patterns over your walls, ceiling and floor. It's almost like being inside a multi-faceted diamond. Glass equilateral prism is 2" (50mm) long with 1/2" (25mm) faces. Black plastic mount is 3" x 1 1/2" x 1 1/2". **PC38,400 \$8.95**

Potato Power! Digital LCD Clock Is Powered By Only Two Potatoes.

We call it the Two Potato-Clock. It's powered by just two potatoes (no batteries needed). Bi-metal probes actually convert the natural ingredients to low-voltage electrical output. Can also be powered by plants, soda, fruit and even beer. Clock has 1/2" LCD showing hours, minutes, seconds and date. Just connect wire to power source, easy to assemble. 5 1/2" x 9" x 2 1/2". **PC34,357 \$17.95**

SCIENCE DISCOVERY!

Edmund 400X International Standard Full Size Student Microscope... Ideal For Every Classroom.

Open the hidden world to budding scientists to explore the fields of health, science and medicine with this professional instrument. It's the best quality and most economically priced microscope for the home/school budget. Features a large 14 1/2" tall heavy duty all metal frame built to international DIN Standards and weighs a hefty 7 lbs. 4 oz. Comes with three turret-mounted achromatic objectives, 40X - 100X - 400X and accepts all DIN objectives and eyepieces. Rack and pinion COARSE/FINE focusing allows for high power performance. Substage iris diaphragm provides precision light control for high contrast. Focus stop slide protection, adjustable inclination and spring clips included. This ES 400X student microscope, backed by a five year limited warranty, is highly recommended for your child's first microscope. Dust cover incl. **Reg \$745. PC52,453 \$120.00**

ES 400X Microscope with Plug-In Illuminator PC53,087 \$189.00
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Dr. Gauss™ is an accurate, easy-to-use and affordable Gaussmeter developed to allow you to perform your own EMF-home or school survey. It detects and measures EMF's (electromagnetic fields) produced by electrical currents found in and around the home, or in the work place. Features: Easy to read scale with built-in audio signal and auto shut off. Requires one 9 volt battery (not included). Measures emissions of Cellular Phones, Power Lines, Computers, Electric Blankets and more. **PC52,778 \$36.95**

Revolution™... A Floating/Spinning Phenomena!

Learn the science behind this fascinating near-perpetual motion device. The Revolution™ demonstrates many scientific phenomena of physics. Just place the pointed end against the glass inset and gently twirl with your fingers, let go and watch it spin and float. **PC53,435 \$15.95**

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In 1995, a Princeton-based mathematician showed up at a scientific conference and dropped a bombshell. He had succeeded in deciphering one of mathematics' great secrets, one that thousands had puzzled over for the last three-and-a-half centuries: He had proven Fermat's Last Theorem. He presented his work in a 200-page paper, one that took 7 years to write and another to fine-tune.

Written by a 17-century French scholar, the deceptively simple-sounding theorem states that the square of a whole number can be broken down into two other squares of whole numbers but that the same cannot be done with cubes or other higher powers. After Fermat's death, many spent lifetimes trying to prove the theorem.

But work on the concept had begun long before Fermat's day. Around 2000 B.C., the Babylonians sought a way to break down a squared number into the sum of two squares. In the 6th century B.C., the Greek mathematician Pythagoras incorporated this concept into his own famous theorem, paving the way for Fermat.

Fermat's Last Theorem is the previously untold story of the people, the history, and the cultures that lie behind a great theorem and its long-awaited proof. Philosophy and hard science combine with investigative journalism to make for a real-life detective story of the intellect.

- from Four Walls Eight Windows

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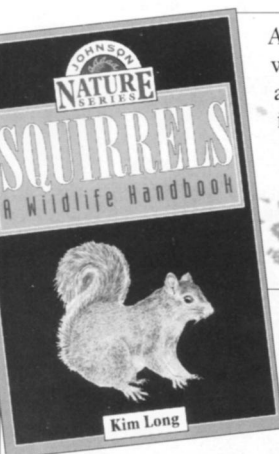
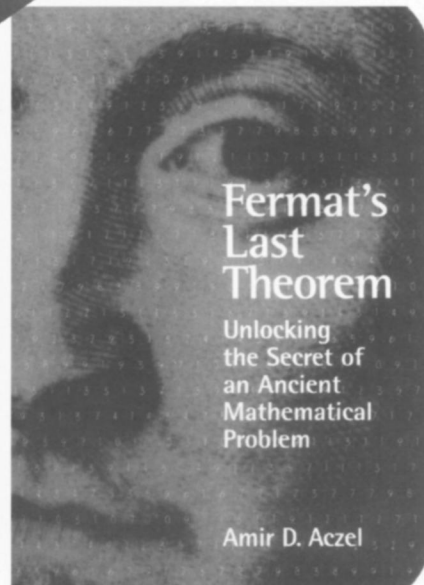
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According to *The New York Times*, \$17 million is spent on bird books and 1.2 million tons of bird seed is bought every year in the U.S., only to have feeders raided by marauding rodents with brains no larger than walnuts. Since 1988, Bill Adler Jr. has helped tens of thousands of bird lovers stop squirrels from pillaging their bird feeders.

Outwitting Squirrels contains advice on how to stop squirrels from digging in flowerbeds, advanced anti-squirrel stratagems, and homemade anti squirrel devices. From spooker poles and Perrier bottles to water bombs and cayenne pepper, author Adler has tried every conceivable method to rid his backyard of these fluffy, gluttonous rodents. In *Outwitting Squirrels*, he shares his top strategies plus countless stories and anecdotes about his ongoing war with the squirrel.

— from Chicago Review Press



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