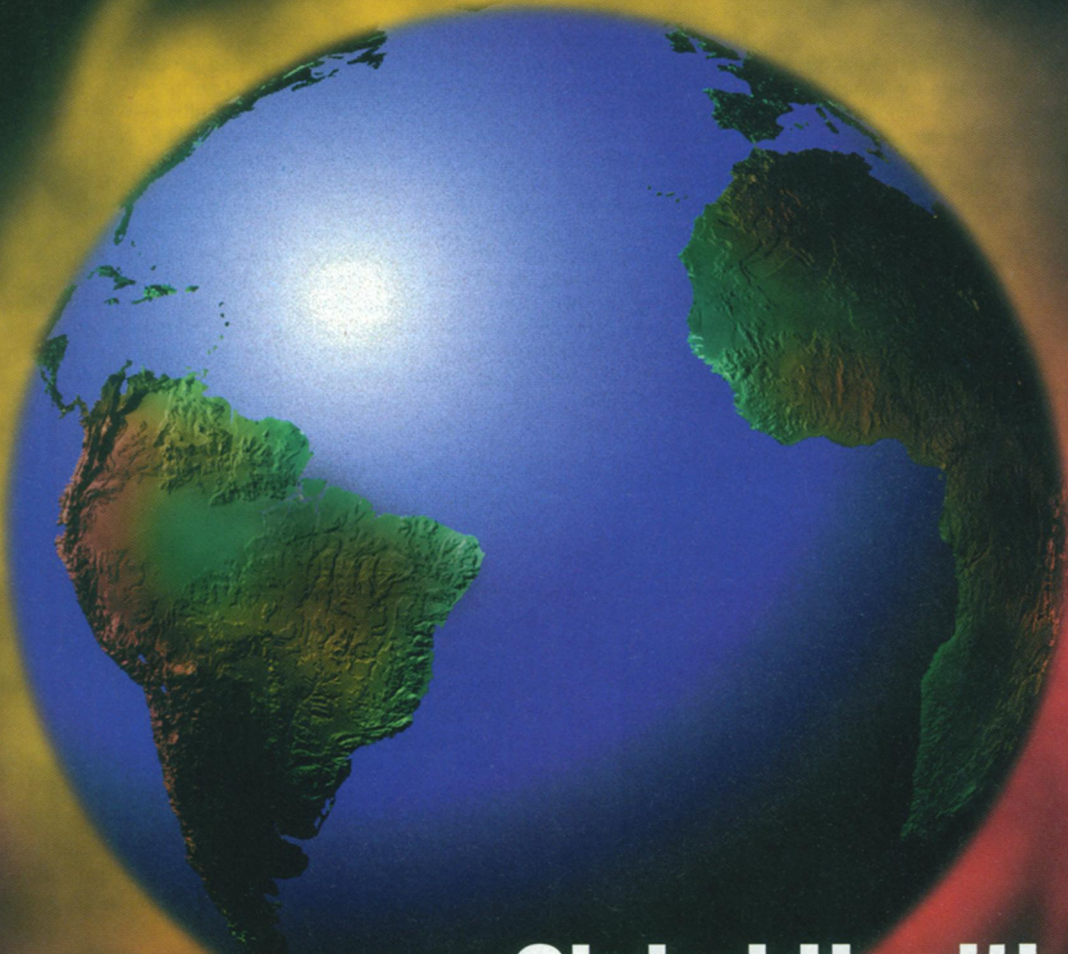


The Weekly Newsmagazine of Science

# SCIENCE NEWS

April 6, 1996  
Vol. 149, No. 14  
Pages 209-224



## Global Health: The Feverish Future

# Science and fun come together

IN THIS UNIQUE COLLECTION OF SCIENTIFIC, EDUCATIONAL AND ENTERTAINING PRODUCTS.



**FOCUS YOUR AUDIENCE'S ATTENTION WITH OUR COMPACT**

## LASER POINTER

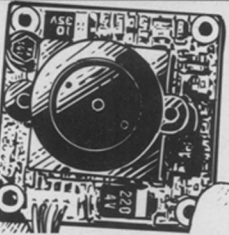
**Lightweight, measures less than 5 1/2". Ideal for lecturers, educators, instructors, meetings and slide show presentations.**

It projects a brilliant red laser dot to focus attention to slide presentations, charts, business and sales meetings at distances up to 150 feet. This compact pen style class IIIa laser pointer is crafted of the finest materials and built to the highest industrial standards. 8 hours continuous battery life, uses 2 "AAA" batteries (included), weighs less than 2 oz. Rated output: 3mW at 675nm. **NS52,442 \$44.95**

Caution: Laser light, avoid direct eye exposure.  
**Great Value! \$44.95**  
NS52,442

## HOBBYISTS AND FUTURE SCIENTISTS AGREE: WE HAVE THE HARD-TO-FIND ITEMS EVERYONE WANTS.

**World's Smallest 1/3" CCD Board B&W Camera**



**Projects Miniature Details On Your TV Monitor.**  
Shown Actual Size!

Our miniature breadboard-type CCD B&W camera (1.26" x 1.26" x 0.75" thick) for machine vision, instrumentation and OEM applications can open doors for your creative imagination. Unit features a 3.7mm pinhole lens built into the breadboard assembly. Wired for 9 volt DC input and video output, with an automatic electronic shutter. Field of view is 45° (V) x 60° (H) with 32mm x 32mm dimensions. You can observe miniature details on a TV monitor (not included) from a range of only inches away to up to 15 feet with a 0.3 Lux minimum illumination. Many applications - limited only by your imagination - from home-office security, viewing hard-to-see areas, robotics, machine vision, etc. **NS52,569 \$230.00**

**Bring The World 8 Times Closer With This Pocket-Size, Economical 8x20 Monocular.**



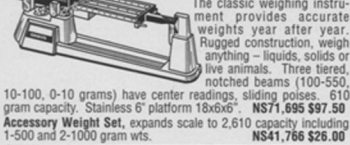
Ideal for bird watchers, hunters, roning and sports fans. You'll never miss out on that rare bird sighting... big play... or photo finish again. Compact 3 1/2" L x 1 1/4" dia. straight-thru roof prism design monocular features all optical grade glass optics and a water resistant rubber coated body. Soft case and neck strap incl. **NS52,121 \$27.95**

**Illuminating 30X Magnifier-Microscope For Examining Stamps, Coins, etc.**



Our new design improves this popular model. Carry it with you everywhere, measures only 5 1/4" x 1 1/4" x 1/2". Ideal for critical inspections. Has a built-in light source and optics to let you examine objects 30 times actual size. Features a center focus wheel for precise one-hand operation. Ideal for industrial inspections and hobby applications. Uses 2 "AA" batteries (not incl.). **NS35,001 \$9.75**

**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, 10-100, 0-10 grams) have center readings, sliding poises. 610 gram capacity. Stainless 6" platform 18x6x6". **NS71,695 \$97.50**  
Accessory Weight Set, expands scale to 2,610 capacity including 1-500 and 2-1000 gram wts. **NS41,766 \$26.00**

**This Clever Gadget Will Tell You How High You Are.**



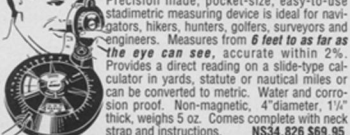
Whether you're driving cross country or hiking in the mountains, this Altimeter will tell you how high you are. Shows elevation from sea level to 15,000 feet. Can be mounted to dashboard with self sticking tape (incl.) or can be carried with you in your pocket. Built-in weather barometer to warn you of impending storms (incl.). **Reg. \$39.95 ON SALE! NS34,544 \$32.95**

**Authentic Russian KGB Micro Binoculars.**



Originally designed as KGB restricted issue micro binoculars by the Lytcorino Optical Factory (the former Soviet Union's most secretive military optics factory). These 2.5 power micro binoculars feature 17.5mm coat-ed objective lens and individual focusing eyepieces. Lightweight, compact folding design weighs only 2 1/4 oz. **NS53,014 \$29.95**

**Is Your Vision 20/20?**



Check your vision with our self-screening vision tester. It's easy to use. A booklet included, describes the various features inside the normal eye, how the iris works, kinds of floaters and fixed objects, how to inspect contacts. **NS33,538 \$29.95**

**Locate Your Distance From As Far As The Eye Can See... With Our Pocket-Size Rangefinder.**



Precision made, pocket-size, easy-to-use stadimetric measuring device is ideal for navigators, hikers, hunters, golfers, surveyors and engineers. Measures from 6 feet to as far as the eye can see, accurate within 2%. Provides a direct reading on a slide-type calculator in yards, statute or nautical miles or can be converted to metric. Water and corrosion proof. Non-magnetic. 4" diameter, 1 1/4" thick, weighs 5 oz. Comes complete with neck strap and instructions. **NS34,826 \$69.95**

**Forecast Weather Accurately With The Electronic Weather Station.**



**Weather Forecaster/Clock/Calendar:**  
• Four weather forecast indications - **SUNNY, SLIGHTLY CLOUDY, CLOUDY, RAINY.**  
• **WET, DRY & COMFORT** indicators for indoor relative humidity.  
• Bar graph displays of barometric trend shows present time & previous 1, 3, 6, 12 & 24 hrs.  
• 24 hour history of pressure readings.  
**UNIT SIZE: 7.20" L x 5.24" W x 1.06" H UNIT WEIGHT: 9.98 oz.** Elegantly designed, this desktop weather station provides a wealth of information and up to the minute weather forecast. A 6 line LCD read-out continuously displays indoor temperature and relative humidity, weather forecast, current barometric pressure, bar graph and current time/date. High tech grey finish, F/C selectable, low-battery indicator, 0 to 3500 meter altitude compensation, 12/24 hr. selectable, time alarm, requires 4 "AAA" batteries (not included). **NS52,552 \$110.00**

**Our Six Popular Favorite Science Toys That Teach.**



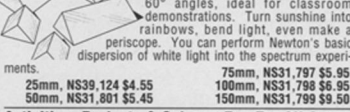
Save \$5.29 on our famous favorites!  
**A \$27.24 Value!**  
**SPECIAL PRICE \$21.95**  
NS52,380

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

• **Amazing Flying Bird • Fickle Foam • Whirling Gyroscope • Sun Powered Radiometer • Rainbow Maker • Space Pet**

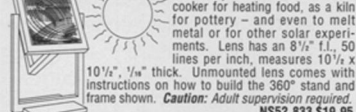
## HANDS-ON SCIENCE FUN!

**Perform Experiments With Equilateral Prisms Discovered By Sir Isaac Newton.**



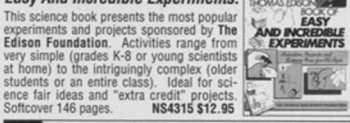
Prism discovery optics have three equal 60° angles. Ideal for classroom demonstrations. Turn sunshine into rainbows, bend light, even make a periscope. You can perform Newton's basic dispersion of white light into the spectrum experiments.  
25mm, NS39,124 \$4.55  
50mm, NS31,801 \$5.45  
75mm, NS31,797 \$5.95  
100mm, NS31,798 \$5.95  
150mm, NS31,799 \$9.50

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



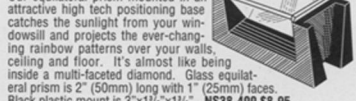
Use this precision lens as a solar cooker for heating food, as a kiln for pottery - and even to melt metal or for other solar experiments. Lens has an 8 1/2" f.l., 50 lines per inch, measures 10 1/2" x 10 1/2", 1/8" thick. Unmounted lens comes with instructions on how to build the 360° stand and frame shown. **Caution: Adult supervision required.**  
**NS52,833 \$19.95**

**Activities, Projects & Science Fun For All Ages In The Thomas Edison Book Of Easy And Incredible Experiments.**



This science book presents the most popular experiments and projects sponsored by The Edison Foundation. Activities range from very simple (grades K-8 or young scientists at home) to the intriguingly complex (older students or an entire class). Ideal for science fair ideas and "extra credit" projects. Softcover 146 pages. **NS4315 \$12.95**

**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" (25mm) faces. Black plastic mount is 3" x 1 1/4" x 1 1/4". **NS38,400 \$8.95**

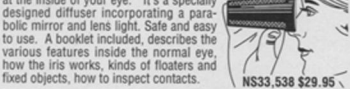
## SCIENCE DISCOVERY!

**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. Optional storage case available **NS52,453 \$145.00** ES 400X Microscope with Plug-in Illuminator **NS53,087 \$214.00** Wooden Storage Carrying Case **A \$49.95 Value NS53,234 \$29.95**

**Have You Ever Seen The Inside Of Your Eye?**



Eyescopes is an optical device for looking at the inside of your eye. It's a specially designed diffuser incorporating a parabolic mirror and lens light. Safe and easy to use. A booklet included, describes the various features inside the normal eye, how the iris works, kinds of floaters and fixed objects, how to inspect contacts. **NS33,538 \$29.95**

**Locate Your Distance From As Far As The Eye Can See... With Our Pocket-Size Rangefinder.**



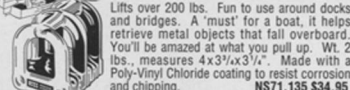
Precision made, pocket-size, easy-to-use stadimetric measuring device is ideal for navigators, hikers, hunters, golfers, surveyors and engineers. Measures from 6 feet to as far as the eye can see, accurate within 2%. Provides a direct reading on a slide-type calculator in yards, statute or nautical miles or can be converted to metric. Water and corrosion proof. Non-magnetic. 4" diameter, 1 1/4" thick, weighs 5 oz. Comes complete with neck strap and instructions. **NS34,826 \$69.95**

**Every Detail Of Your Eye Enlarged.**



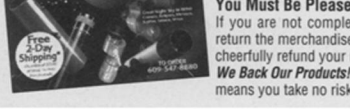
Check contact lenses and inspect your own eye with our unique close-up eye inspection mirror. Our precision radius mirror with front surface coating allows you to inspect your own eye by simply holding the mirror approximately 2 inches in front of your eye. Ideal for contact lens wearers or to inspect for irritant alien particles. Mirror is 2 inches in diameter with front surface aluminized coating. **NS39,152 \$10.95**

**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 NS60,092 \$7.95**  
**Silvered Radiometer NS60,529 \$14.95**

**Go Fishing With This Mighty Magnet.**



Lifts over 200 lbs. 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. Wt. 2 lbs., measures 4 x 3 1/4" x 3 1/4". Made with a Poly-Vinyl Chloride coating to resist corrosion and chipping. **NS71,135 \$34.95**

**Ideal First Telescope For Your Entire Family... The Astroscan® 2001.**



Reach out and explore the great night sky in 1998! You'll be in awe at the vast craters of the moon, the brilliant planets, Saturn's Rings, Jupiter's many moons, comets, eclipses, meteors and the wonder of the Milky Way. Our award winning compact design allows you to cradle it in your arms or glide it smoothly in its table-top base. Spectacular extra wide field and its superb light-gathering ability with large 4 1/4" clear aperture Newtonian RICH-FIELD reflector that provides a breathtaking 5° (or six full moons) field that literally makes this precision instrument an open window to the universe. Optional image erector adapts scope to view land objects. System is sealed to protect against dust and moisture and is permanently collimated at the factory. **Astroscan® 2001 includes:** telescope, base, 28mm RKE eyepiece, open sight target finder, dust cap, adjustable shoulder strap, 36 page user's manual, Star & Planet Locator and 40 page "Sky Guide" Booklet. **5 Year ES Limited Warranty.**  
**Reg. \$399.00 SALE! SAVE \$69 NS2001 \$329.95**  
**Astroscan® Telescope with Image Erector SPECIAL! SAVE \$69 NS2006 \$399.95**

## IT'S EASY TO ORDER WITH OUR FRIENDLY SERVICE

**BY PHONE: 1-609-547-8880**  
Mon.-Fri. 8AM-8PM; Sat. 9AM-4PM (EST)  
**BY FAX: 1-609-573-6295**  
24 HOURS A DAY, 7 DAYS A WEEK  
**BY MAIL: enclose check or by credit card**  
NJ Residents add 6% sales tax

**WE ACCEPT CREDIT CARDS**  
Visa, MasterCard, American Express, Optima, Discover, Diners Club or Carte Blanche accepted  
Be sure to indicate the credit card being used, card number and expiration date (with MasterCard please include bank name and ID number).  
**ALL ORDERS SHIPPED POSTPAID**

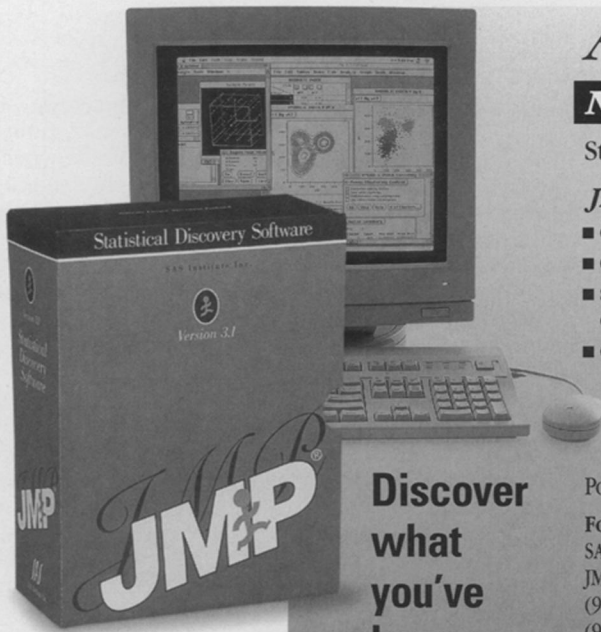
**Edmund Scientific Co. CONSUMER PRODUCTS DIVISION**  
Dept. 16D4, C915 Edscorp Bldg., Barrington, NJ 08007

## FREE CATALOG

Science and fun come together in our new, 104 page "SCIENTIFICS" color catalog, a special collection featuring over 5,500 scientific, educational and entertaining products that can be easily adapted for science fair projects. **Write, call or fax us today for your FREE copy.**

**You Must Be Pleased! - Money Back Guarantee**  
If you are not completely satisfied with your purchase, return the merchandise in its original package and we will cheerfully refund your money in full.  
**We Back Our Products!** Our 45 day unconditional guarantee means you take no risk on any product you buy from us.





## Analyzing Data?

### NEW VERSION JMP® 3.1.6

Statistical Discovery Software

#### JMP Version 3.1.6 features:

- complete analytical capabilities
- exceptional data visualization
- statistical quality control charting
- outstanding graphics
- integrated design of experiments
- extensive modeling facilities
- powerful survival analyses
- contour profiling

JMP makes data exploration simple by presenting a graph with almost every statistic! JMP Version 3.1 is available for Windows™ 3.1 or later, Windows NT™, Windows 95, 680x0 Macintosh® & Power Macintosh™.

#### For more information please contact:

SAS Institute Inc.  
 JMP Sales Department  
 (919) 677-8000 ext. 5071  
 (919) 677-8224 fax  
 In Canada: 1-800-363-8397  
 WWW: <http://www.sas.com/jmp>



JMP is a registered trademark of SAS Institute Inc. Microsoft, Windows and the Windows logo are registered trademarks of Microsoft Corporation. All other brand names are registered trademarks or trademarks of their respective companies.



Discover what you've been missing!



**Powerful Statistics — Easy To Use**

Order by phone for faster service!

**1-800-544-4565**

(Visa or MasterCard only)

In D.C. area: 202-331-9653

W.W. Norton, 1996, 192 pages,  
 5 1/2" x 8 1/2", hardcover, \$23.00

Science News Books  
 1719 N Street, NW  
 Washington, DC 20036

FireInsideH

Please send me \_\_\_\_\_ copy(ies) of *The Fire Inside*. I include a check payable to Science News Books for \$23.00 plus \$2.00 postage and handling for each book (total \$25.00). Domestic orders only.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Daytime Phone \_\_\_\_\_  
 (used only for problems with order) RB2483

## THE FIRE INSIDE

### Extinguishing Heartburn and Related Symptoms

Asthma Chest Pain Hoarseness

A CONSUMER'S GUIDE

M. Michael Wolfe, M.D.  
 and Thomas Nesi

- ♥ how antacids can help you and how they can sometimes harm you;
- ♥ why you may be taking the wrong dosage of your present medication or taking it at the wrong time;
- ♥ how lifestyle changes can help your condition;
- ♥ how a recently developed breakthrough drug—taken once a day—can virtually eliminate symptoms in less than two months.

—from W.W. Norton

Ten percent of Americans—perhaps more—suffer from heartburn every day. Are you one of them?

If so, help is here in this lively and informative work. Presenting the most up-to-date information, it is the first book for general readers about treating and preventing acid reflux, whose prime symptom is heartburn.

Much of the advice in this book comes from the cutting edge of medicine. The book dispels myths about reflux disease, calms fears, and points sufferers toward correct diagnosis and therapies. If you're a sufferer you should know:

- ♥ how and why acid reflux disease has come to be known as "The Great Masquerader";
- ♥ how to tell if your asthma, hoarseness, or chest pain is related to reflux disease;