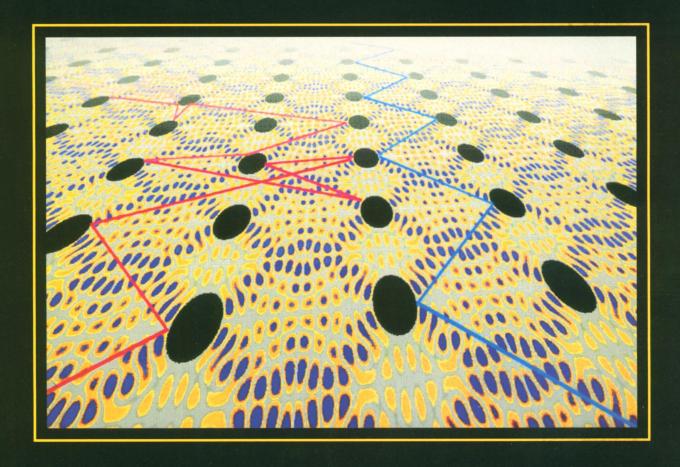
The Weekly Newsmagazine of Science

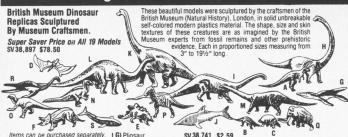
# SIEHKE HEVS

November 2, 199<sup>3</sup> Vol. 140, No. 18 Pages 273-288



Chaotic Quantum Chase

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Laser Pointer is a revolution in pointer design and affordability. Weighs only 2 ounces with battery, this pointer sets the standard for the industry. Add to this the convenience of its use (it clips onto your shirt pocket like a pen) and you have a product petfect for lecturers and educators. A boon for slide presentations, business and sales meetings. Battery life is over one hour with continuous use.

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Used for police surveillance and excellent for nature study, microphone and head set amplified sounds up to 200 feet away. Overhear private conversations—listen to the sounds of animals at distances that are out of hearing range—
it's light enough (only 31/2 ounces) so the microphone ounces) so the microphone can be mounted on your binoculars. Compact, measures only 12" Powered by 1 "AAA" battery, included. Frequency response 200Hz to 800Hz, outputevel 49 dbs maximum. Complete with padded microphone, amplifier and headphones. \$\square\$38,042 \$\frac{349.95}{349.95}\$

**Build A Working V-8 Demonstration Engine.** 



The Vanishing Leprechaun...Will Anyone Ever



A fascinating illusion. We found it at a math teachers seminar. A 3x7" card with 15 leptechauns. With a "slight-of-hand" one leprechaun will vanish. Your friends will be mystified. Which one vanishes? Where did he go? When he comes back, where has he been? One of our most popular best-sellers! Package of 4. \$\square\$ 3\square{3}\rm 4\square{3}\rm 3\rm 4\rm 3\rm 4\rm 5\rm 6\rm 10 \rm 1 SV37,473 \$6.25 lers! Package of 4. Digital Thermometer Shows BOTH Indoor AND Outdoor Temperature,



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mount. Uses 2 "AA" batteries
(not incl.) Camplete with 10' cord. Reg. \$46 on sale SV38,038 \$30

Miniature Water Pump For Photo Darkrooms Science Fairs, Water Displays.

This tiny pump can pump a pint per minute with a 12" high flow. Ideal for temperature control and circulation SV50,345 \$7.50 of darkroom chemicals, table fountains, model waterfalls, water filtration and more. Can be used in either direction and is sort priming. Operates on 2 flashlight batteries (not incl.), runs up to 48 hours before battery change is required. 4" tube incl.

Space-Age Gyroscope. A Favorite Of All Ages.

Space-age design updates the classic gyroscope feathring a high-impact plastic body with brass and metal fittings. Precision-crafted to spin 3 to 5 gravity-delying minutes. Demonstrates principles of centifugal force and gravity as used in ships, airplanes and space craft for and paviation. Complate with base cord stabilization and navigation. Complete with base, cord, 31/4" diameter gyro and instructions. SV 38,647 \$9.95

#### Motors By The Bag For Hobbyists, Modelmakers.



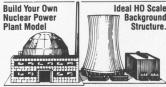
Have fun by adding mo



The Vortx, M More Than A Mone Performs spinning tricks and high maneuvers. Drop a coin onto the launching pad, spin the Vortx unit in a circular motion. This creates an immense amount of speed causing the coin to spin around and faround until finally drops to the bottom storage area. "The longest continuous rollings of a is 33 hours, 16 minutes." Challenge your skills, spin the coin back up the tunnel or spin it upside down, plus more. Made of tough polypropylene. Instructions included. SV37,832 S17.95

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

We call it the IwoPotato-Clock It's powered by two potatose,
Bi-metal probes actuingredients to lowvoltage electrical output. Can also be powered by plants,
soda pop, fruit and even beer. Clock has ½\* LCD showinn hours. minutes, seconds and date, Fun and simple to ing hours, minutes, seconds and date. Fun and simple to assemble. Reg. \$19.95 SV5073 SALE \$12.95



Based on Three Mile Island, this detailed 1/160 "N" scale kit has 79 parts molded in colors. Includes containment building cooling tower and generator station on a 14 x 16" base. Statistics is 434" high. For ages 12 and over. \$\text{\$v36,718 \$15.95}\$

Robot With A Two Way Sensor.

resputy the robot responds to sound and obstacles in its path.

When the sound rouch sensor (in front) detects an obstacle or hears a loud noise, such as a hand clap, Peppy will automatically turn left 90° to 180° and continues on its merry way. Comes complete with electronic control equal descriptions. way. Comes complete with electronic control scale and assembled PC board. Powered by 21.5V "AA" batteries (not included) SV36,636 \$29.95

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studying prehistoric axes and adzes called Celts

**Longest Spinning** 

Yo-Yo Around!

These rocks had a preferred direction of protation. Spin the space pet the other way and it will stop, rock up and down on the long axis, and then reverse its spin. Hint: the round edge is an ellipsoid, with its axis aligned at an angle of about 5° to 10° from the main axis of the stone. Angular momentum is conserved, but it doesn't look it. Made of injection molded acrylic. Size: 3°1/e"x 3'/4"x 1/2". Pkg, of 3. SV38,912 \$5.95

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This new antenna will bring in those AM radio signals loud and clear.

Am ratio signais foud and ci You'll now get excellent radio reception on all AM stations. Select-A-Tenna turns your AM radio into a powerful receiver. Used in Alaska to pull in stations from continental U.S. Employs mutually inductive coupling. Mini-jack and plug. 104" dia. \$V72,147 \$54.95

Our Intelligent Yo-Yo With A "Brain". It's The A simple flick of the wrist pre-programs this patented yo-yo, allowing it to spin freely at the end of the string. Suspended, you can do tricks, such as Walk The Dog," Plock The Baby, "Brain Wisters" and more. It operates on a centrifugal clutch principle that allows it to spin faster and longer than any other yo-yo. longer than any other yo-yo before returning to the user's

hand. Precision engineered, the plastic body shows the clutch in action. **SV36,213 \$10.95** 

#### Realistic Visible Anatomy Kit Of Man & Woman.



isible Anatomy Kit Of Man & Woman.
Easy-to-assemble scale plastic model kits display the inner workings of various body cells, organs and muscles of the male and female species. Male model stands 16 tall, female stands 15½ "all and also includes parts to demonstrate a" romoth pregnancy. Kit is ready to paint and assemble. Made of high-impact plastic and comes complete with stand and instructions. (Sorry, cements and paints not included.) \*Please specify model. Man SVT0,228:
Woman SVT0,283 Each \$18,95

#### 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 pre-drilled screw holes. Also has built-in se

SV34.544 \$39.95



250 Assorted Stars That Glow In The Dark Turn Any Wall Or Ceiling Into The Night Sky. Assortment of 250 lumi-

nous stars that glow in the students will enjoy receiving these "star" gifts that will light up a room with the beauty of glowing stars and have fun with astronomy. Easy to apply decals glow after exposure to light. Comes with star chart and instructions to recreate the glopper, Milky Way and the heavens. SV9521 Pkg. of 250, \$4.50

Give Flight To Your Model Airplane With Our Powerful, Miniature Motor (9500 RPM).



Barely larger than a pencil, this miniature permanent magnet motor runs at 9,500 RPM with one 1.5V "AA" battery (not incl.),

90 mA. Measures ¾ "L x ½" dia., shaft dia. 0.059 " x 0.35".
Battery holder attaches directly to motor. Overall length ½7½,"
Complete with miniature propeller. \$V39,281 \$2.95

Build This Authentic Deadly German U-Boat.
It's Motorized To Actually



Authentic 1/150th scale model of the German Type VIIC sub-marine is motorized to run and dive. Assembling this kit will teach the basic engineering principles of submarine operation and buoyancy. Parts are molded in realistic battle colors, only glue and common hobby craft tools are required. Powered by 3 "C" cells (not incl.). Finished model is approx. 18 inches long.

#### 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 windowsill and projects the ever-changing rainbow patterns over your windowsill and projects the ever-changing rainbow patterns over your walls, ceiling and floor. It's almost like being inside a multifaceted diamond. Glass equilateral prism is 2" (50mm) long with 1" (25mm) faces. Black plastic mount is 3"×11/4".

#### Metric Triple Balance Ohaus Scale With

Single Pan Balance. The classic weighing instru-ment, provides accurate THE weights year after year. Rugged con-struction, weigh ayyed con-struction, weigh anything – liquids, solids, or live ani-mal. Three tiered, have center read-steel 6" platfo notched beams (100-550, 10-100, 0-10 grams

Accessory Weight Set, expands scale to 2.610 cap. Incl. 1-500 and 2-1,000 gr. wts.

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Every Detail Of Your Eye Enlargeu.

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The Inside Ut Your Eye? Eyescope is an optical device for looking at the inside of your eye. Its a specially designed diffuser Incorporating a parabolic mirror and lens light. Safe and easy to use. A 52 page booklet included, describes the various features in-side the normal eye; how the issue works, kinds of floaters and fixed objects how to inspect contract. SV33,538 \$28.95 objects, how to inspect control

## Digital Thermometer/Hygrometer Measures And Records Temperature And Relative Humidity.

Digital Mini-Max Thermometer/Hygrometer has a F° or C° selectable temperature and a built in memory to measure the minimum and maximum relative humidity and temperature. The thermometer range is 32° to 122°F (0° to 50°C) with the Hygrometer range of 25% to 59% relative humidity. Compact unit (4°L x 2½°K°V x ½°C), easily mounts on any wall with self adhesive slip-in mount. Powered by two "AA" (UM-4) batteries included. Weighs 3 ozs. Relative humidity measurement is temperature compensated. \$V39,228 \$40.00



## Radiometer...A Space Age Sphere.

It's fascinating to watch the delicate vanes within this 5' precision-made sphere spin faster and faster laufstater laufstate vanes it transfers heat, and the vanes begin to move. Works from direct sunlight or artificial light. An attractive "conversation piece." SV60,082 \$6.95

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Ants are the world's finest engineers...and
seeing them plan and construct their intricate highways and subways is fascinating.
Through the large plastic case of the cage
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harvester ants. Complete with white sand. SV70,295 \$18.95

## Go Fishing With This Mighty Magnet.



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Remember the golden age of radio?
This crystal radio kit can bring back old memories...like listening to "The Eddie Cantor Show," "The Green Homer," The Lone Ranger and more You'll actually be able to listen to your local stations and even experiment with radio waves. Easy to build, no batteries or soldering needed. Complete with instructions and all parts. plete with instructions and all parts. \$V37,839 \$9.95

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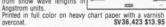
Open the hidden world to budding scientists to explore the fields of health, science and medicine. Precision microscope has black lacquer-finish all-metal body. One-piece, triple-revolving turret achromatic objectives (5X, 10X, 30X), 10X eyepiece, 50X, 100X and 300X magnifications, smooth rack and pinion focusing, revolving mirror. Fully coated optics for years of use. Smooth, rapid focusing adjustments.

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- Complete 25 piece outfit includes:
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   Dissecting kirwith scissors, needle, spatula, knife and tweezers

#### Learn And Teach The Principles And Applications Of Spectrum Analysis.

Applications Of Spectrum On Figure 1 Spectrum Analysis Chart measures 27" wide by 47" long and features the electro magnetic spectrum and the portion occupied by the visible spectrum; emission or bright line spectra of ten elements; solar spectrum and Fraunhofer lines; Doppler effect; absorption spectra of solutions. Line drawings illustrate the methods of producing various spectra and practical applications of spectrum analapplications of spectrum anal-ysis. Scales under each spec-trum show wave lengths in





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

For Examining Stamps, Colns, Our new design improves this popular model. Carry it with you everywhere, measures only 5/wx13/wx4/" ideal for crit-ical 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 "AK" batteries (not incl.) 5/5/5/5/6/18/5/6/ SV35,001 \$9.50



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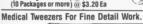
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Will intese coloridi magnetic; build a mountain or odd geometric pat-terns with these fascinating, high impact plastic marbles. Each marble has both a negative and positive pole. A challenge to your imagination. Fun for youngsters, adults, too! 20 marbles per package.

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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, adjustable rudder. Measures 4¾" x 1."

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Scientific and educational. Have fun with magnets. You can perform over 7 different mystifying action demonstrations, such as the "floati even invent your own tricks. Kit includes 3 c with center hole and complete directions ing air magnet". You'll N38, SV38,736 \$4.95

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Our hand and foot models show complete bone structure and are fully articulated and anatomically correct. These models provide the opportunity to study the workings of the hand and foot close up with charted explanations and a mounting pedestal that names all the parts.

Skeletal Hand SV39, 209 510, 35 Skeletal Hand



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Panoramic Fresnel Lens.
Flexible soft PVC Fresnel lens is easy to apply to any window surface to provide a panoramic view. A little water is all that is required and the lens can be easily repositioned as required. Ideal for the rear window of mini-vans, campers and trucks to greatly enhance your downward and sideways vision. Made from optical quality polyvinyl chloride. Cleans easily with mild detergent. 8"x10" lens has 12" diagonal with a 24s cideways, 12° ubward and 27° downward view. \$V39,159 \$10.50



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Fascinating to watch. Simply duck the bird's head into a glass of water to begin happy birds bobbing motion. Then the bird takes over, continuously dipping

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It's hard to put down once you start playing with it. Swing one of the nickel plated balls and watch one on the opposite sid swing back. Consists of 5 balls nded by a wood frame. SV33,739 \$22.95



Watch the liquid contained within the glass chambers appear to "boil" from the warmth of your hand that increases the vapor pressure within the chambers. The warmer your hand, the better it works in this unusual demon-stration of physics. **Edmund's Famous** Jumping Quarters 4 Lean 3 Feet Into The Air!

Full of fun and surprise Simply click the jum ing disc between yo fingers, rub for a secon face . . and POP! It leaps into the air, 3 feet high. Friends won't be able to resist tinkering with them. How does it work? The nickel and stainless steel discs \* work on the principle of thermodynamics. Heat (rubbing the discs) makes metal

103 Element Periodic **Table and Atomic Data** Wall Chart.



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Chart explains and diagrams chart explains and olagrams radioactive isotopes, solar energy, hydrogen bomb reaction and atom bomb fission. Gives atomic weights and number of electrons in each orbit. Illustrates typical atomic structure, describes protons, neutrons and nuclear principles. Provides a basic education in atomic theory. Illustrate. principles. Provides a basic edu-cation in a domic theory. Illustrat-ed in 4 colors, 32"×45"; makes an impressive addition to labora-tory or science classroom. Varnish Coated Heavy Charl Paper SV36,964 \$11.50 Kimdura Plastic

SV36.965 \$19.00



The convertible yo-yo top (2½"x2½") is two high performance toys in one. First, it's a yo-yo with extra long sleepers for "walk the dog" and "rock the cradle" tricks. Then it's a high speed gyro top that spins up to 12,000 R.P.M. for a full five minutes. Made of high impact acrylic. SV39,141 \$9.95

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lust rub the stick briskly between both hands, with the correct momentum. The propeller will release up into the air. Package of 3. SV39,142 \$4.95

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SV39,234 \$10.50



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