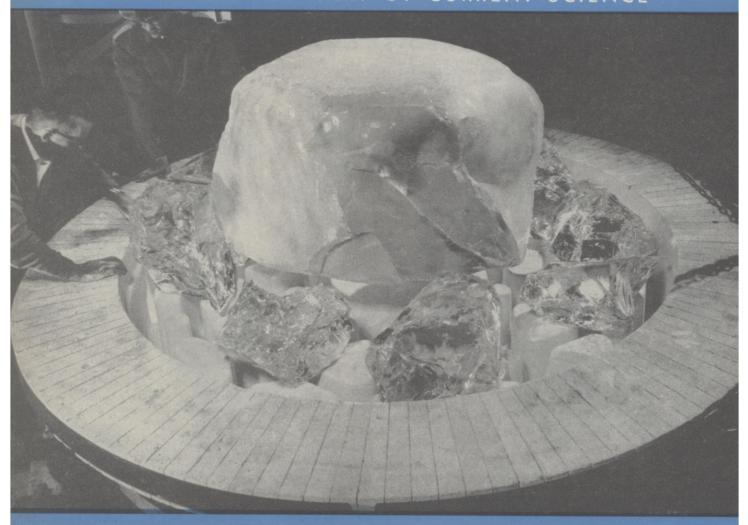


THE WEEKLY SUMMARY OF CURRENT SCIENCE



Eye for the Sky
See Page 117

A SCIENCE SERVICE PUBLICATION



900X "MICROBE HUNTER"

- . The only Microscope in its class featuring GRADE A optics!
- Power Range 25X, 50X, 75X, 100X, 150X, 200X, 300X,
- . Full Range Fine Adjustment
- . Safety Stop on Coarse Adjustment

This instrument—made to our rigid design specifications—has wide usage in schools, laboratories and law enforcement agencies. All of the most needed features have been incorporated to meet the requirements for diversified micro-studies. Highly recommended for serious hobbyist desiring exceptional quality at modest cost. Power range from 25X to 900X in 12 possible combinations. Geared rack and pinion coarse focusing. Micro-motion fine focusing of full range—12 complete revolutions. Safety stop prevents over rise. 36mm dual surface (plano/concave) mirror. Fixed square stage, 70mm X 80mm. Rotating 5-hole, disc diaphragm. Three Huygenian eyepieces of 5X, 10X, and 15X. Four achromatic objectives of 5X, 10X, 40X and 60X. Oversize base insures stability and protects objectives. Body tilts through 60°—perfectly balanced at any angle. Complete with upright, wooden carrying case.

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STEREOSCOPIC Binocular Dissecting Microscope



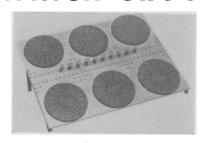
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STUDENT "STEREO-SCOPE": A 30X stereoscopic binocular microscope — designed primarily for the student and serious hobbylst. Includes most of the features of our "Semi-Pro" model shown on this page. Fixed objective lenses and non-interchangeable eyepieces. All optics are achromatic. Ground glass stage measures 2% "x 2 13/16". Overall height 7%". Complete with fitted wooden carrying case.

F-335Net \$19.95 (Add 85¢ for postage and handling)
All Equipment Protected by 10-Day Guarantee & 90-Day Warranty



ARE YOU WHICH GROUP



☐ ENGINEER OR RESEARCH WORKER who wants to learn more about the application of computers to his problems.

TEACHER who needs laboratory or demonstration material on computers.

SCIENTIFIC AMATEUR who wants to learn about computers but doesn't know how to begin.

INVETERATE GADGETEER

STUDENT impatient for teachers to begin.

MAN who wants fun with his kids.

GENIAC® in Assembly Rack THOUSANDS OF PEOPLE FROM THESE GROUPS HAVE BOUGHT AND ENJOYED GENIAC®, THE ELECTRIC BRAIN CONSTRUCTION KIT.

THE MANUALS are a survey of the applications of symbolic logic in reducing various problems to repetitive machine solution. We explain and illustrate with complete wiring diagrams. THE 100 PAGE TEXT gives an overview of the whole computer field.

THE KIT OF MATERIALS contains over 400 parts, switches, all wire and tools necessary for building and designing over 50 different computing game playing, problem solving circuits. YOU benefit from the experience of thousands of users incorporated in the latest manual. WE GUARANTEE ABSOLUTELY that unless you are completely satisfied with your GENIAC® kit, you may ship it back to us within 7 days and we will return your money.

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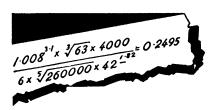
COSMOTRON

- MINIATURE ATOM **SMASHER**
- PRODUCES 75,000 **VOLTS**
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In no sense of the word a toy or a gadget. The COSMOTRON is a scientific instrument capable of producing 75,000 volts—makes sparks up to 2" long —yet is absolutely safe because the current is infinitesimal. The science teacher—science lover—or hobbysist can perform experiments to astound students—friends—family. Makes smoke disappear—defy gravity—turns propellers at a distance—transforms atomic energy into light—makes artificial lightning—smashes atoms—demonstrates ionic space ship drive—and many other experiments. Constructed of the finest materials. Will do exactly—for instruction purposes—what generators that cost 3 to 10 times more will do. The perfect device to teach the secrets of atomic physics and electricity. Will hold an audience spellbound as it performs trick after amazing trick. Includes an experiment kit and illustrated experiment manual. Manial explains the "how" and "why." You will invent many new experiments of your own. A fine research tool that will give years of beneficial service to the institution or individual who owns one. In kit form or assembled.

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A 66-inch Slide-rule for your pocket, \$19.95



Slide Rule Open

The GENIAC® Calculator The GENIAC® Calculator carries 66-inch spiral scales yet measures only ten inches fully extended and six inches when closed. Four to five figure accuracy can be relied on. It is indispensable to the scientist, research worker and student. Administrative staff and business men will find it of tremendous value for a host of estimating and checking calculations.

The GENIAC® Slide Rule solves multiplication, division, percentage calculation and gives 5 place logarithms.

You may use it for 30 days and if you are not satisfied repack and mail it back.

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four or five figure accuracy
without eyestrain or magniflers. Half an hour's study
is ample for its use."

A E R

is ample for its use."

"I use the GENIAC Calculator for all my slide rule work and need the extra digit which normal slide rules cannot give. I had to get one of my customers a GENIAC Slide Rule last month, after using mine in his office." E. & G. H. Textile Manufacturers.



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NAME	STREET	CITY	STA.	TE

AMERICA BY CAR

By Norman Ford. Don't miss the really imp o rtant sights along the way. This book is your insurance of seeing all the fourstar sights in whatever corner of the U.S. or Canada you drive to (and it even covers Mexand



Cuba as well). Day-by-day along your route, he Cuba as well). Day-by-day along your route, he tells you where to go, whether you're visiting New England or California, Florida or the national parks, Washington, New York, or wherever else you may be going in this huge country. And this is a huge book, fully 170,000 words in length (for which most publishers would charge \$5-\$8). But it costs only \$2.50, while it helps you see any part of the country as you've probably never hefore explored Amer. as you've probably never before explored Amer ica. Of course it names hundreds upon hundreds of recommended places to eat and stay.

THE BEST IN THE WEST

By Thos. B. Lesure, contributing editor of Travel Magazine. This is your guide verything that is outstanding in the West (and it also includes southwestern Canada and northwestern Mexico). A town de



scription of everything worth visiting in each western state, and it's complete with data on where to stay and eat. No matter what you want to do in the West-whether it's driving, vacationing for a while, visiting the national parks, even retiring in the best sections of the U. S., this enormous book (170,000 words, enough material for three ordinary-sized books) costs only \$2.50.

THE BEST IN THE SOUTH

WHETHER you're headed for Florida or any-Where else in the South, this is the book that makes sure you get there in the best way. From one end of the South to the other, it points out the sights along the roads and in the hundreds of beach resorts, retirement havens, colonial cities, and all the other four-star sights which you'll enjoy visiting—if you only know where to go and what to see.

It covers your entire route in the South to your destination in Florida or elsewhere. It de-

your destination in Florida or elsewhere. It describes everything you want to know about Alabama, Georgia, Kentucky, Louisiana, Mississippi, North and South Carolina, Tennessee, and Virginia, and of course it highlights Florida.

Your trip is going to cost you many times more than the low price of this book-only \$2. But with this book you'll get your full money's worth as you travel south. So order now.

WHERE DO YOU

STOP SAYING THAT TRAVEL IS TOO EXPENSIVE

Passenger carrying FREIGHTERS are the secret of low cost travel

FOR no more than you'd spend at a resort, you Can take that trip you've always talked about: to the West Indies, Europe, the Mediterranean, around the world. In fact trips to almost everywhere are within your means.

And what accommodations you get: large rooms with beds (not bunks), probably a pri-vate bath, lots of good food and plenty of relaxation as you speed from port to port.

Depending upon how fast you want to go, a round-the-world cruise can be yours for as little as \$250-\$300 a month. And there are shorter trips. Fast, uncrowded voyages to England, France, the Mediterranean; two or three week vacations up and down the Pacific Coast or to New Orleans. Name the port and the chances are you can find it listed in Travel Routes Around the World, the world's original and most complete guide to passenger carrying freighters.

This is the book that names the lines, tells where they go, how much they charge, briefly describes accommodations. Hundreds of thousands of travelers all over the world swear by it. During the 20 years in which it's been published, hundreds of travel writers and travel editors have said "To learn how to travel for as little as you'd spend at a resort, get Travel Routes Around the World."

It's yours for just \$1, and the big 136-page 11's yours for just \$1, and the big 130-page 1959 edition includes practically every passenger carrying service starting from or going to New York, Canada, New Orleans, the Pacific Coast, Mexico, South America, England, France, the Mediterranean, Africa, the Indies, Australia, the South Seas, Japan, Hawaii, etc. There's a the South Seas, Japan, Hawaii, etc. There's a whole section called How to See the World at

Low Cost, plus pages and pages of maps.

A big \$1 worth, especially as it can open the way to more travel than you ever thought possible. For your copy, simply fill out coupon.

THE VERY BEST BUYS IN AMERICAN VACATIONS

A GOOD vacation doesn't depend upon how much you spend. But upon the way a hotel or resort is managed, how the owners try to please you-and upon a hundred other things from a wonderful location to finding plenty of the kinds of activities that interest you most.

In his book Today's Best Buys in American Vacations, Norman Ford, America's top expert on low cost travel and vacations, gives you his own personal choices of the very best vacations you can find all over America.

Here are the best buys in whatever you want: whether it's a place with round-the-clock activities or a do-nothing, low-cost resort where the sumptuous meals are internationally famous. It's a guide to vacations that outdo, out-perform

every other vacation you've ever had:
-dude ranches for less than ordinary resorts (this is the book that shatters the myth that dude ranches are expensive);
-the best short freighter trips (plus lake steam-

ers and passenger ships);

-the best buys in MODERATE cost Florida vacations; the country's outstanding farm va-cations (with all the rich cream and butter, chickens, fresh vegetables, fruits, pies, etc., you can eat, at costs of only \$35-\$45 a week);

-old time inns with old-time atmosphere (stagecoach stops, homes of New England governors, old southern inns, etc.);

-the best spots in all America with housekeeping cabins for really low-cost vacations; sports fishing lodges, where the fish never stop biting (and often at prices so low you'll regret you never before heard of these places);

-really unusual vacations (would you like to fly to the North Pole? visit the Alaska seal islands? spend a vacation with writers, artists, musicians? keep yourself fit at a European-like spa where the prices are low enough to tickle a Scotsman?);

-have a REAL French vacation for only \$35-\$45 a week in that French colony only a short boat-ride and two days' drive from New

WHY TAKE THE SAME STALE **VACATION OVER AND OVER AGAIN?**

There's so much to do, so many different kinds of vacations, so many wonderful places to visit and stay, you owe it to yourself to get a brand new vacation this year. Even one tip in Today's Best Buys in American Vacations will be worth much more to you than the low \$1.50 price of this big book. Remember, these are all Norman Ford's own personal selections of the very best vacations in all America. So send for your copy now.

ROUND THE WORLD ON A SHOESTRING

IF you know ALL the ways of reaching foreign countries, you don't need fantastic sums money in order to travel. You could spend \$550-\$1000 on a one-way luxury steamer ticket to Buenos Aires, or you can get there for \$132 in fares via bus and rail through colorful Mexico, Guatemala, Panama, Peru, the Andes, etc.
You could spend \$5000 on a luxury cruise

around the world or about \$1000 via connecting steamers. You can island hop around the West Indies via plane for several hundred dollars—or see the islands more leisurely by motor schooner for much, much less. There's hardly a place on earth you can't reach for less if you know ALL the travel ways.

Norman Ford, founder of the Globetrotters Club and America's top expert on low-cost travel,

has gathered into one handy book dozens upon dozens of specific travel routings to all parts of the world-Mexico, South America, Europe, Africa and the Mediterranean, the Far East, Australia, the South Seas, etc.—so that you can see more at prices you can afford by combining freighters, liners, rail, bus, plane, and other competing services.

Over and over again he proves that you can travel now-that you don't have to wait for some far-off day when you've saved much more money.

\$1.50 brings you this big guide How to Travel Without Being Rich, the guide that proves now, once and for all, that travel is within the reach of any one who has ever yearned to see far-away places. Send for your

WANT TO GO?

WHAT DO YOU WANT IN CALIFORNIA?

A job or a business of your own? A vacation to Hollywood, San Francisco, Yosemite, elsewhere in Californiaat a price you can afford?

place to retire on a small income?

A home in the sun, with year-round spring-like days?

N O matter what you seek in California, William Redgrave's big book California—the state that has everything shows you city by city, town by town, road by road, everything you'll find in this big state.

If you are vacationing, his clear and detailed facts just about guarantee you won't miss anything worth seeing. And you will welcome his long lists of recommended restaurants, motels, and hotels where you can stop at the price you want to pay.

If you're looking for a job or a business of your own, California-the state that has eve thing gives you the facts you want. With William Redgrave's help you'll find the California that appeals to you—whole regions with just the degree of warmth and sunshine you want, with

houses and rentals priced within your means. If you're single, you'll find the best places to live for the fun and entertainment you want. If you're a family man, you'll find the best places to raise a family. If you want to retire, you'll find the pleasantest places in all California

to live on a small income.

There's so much more to this book-the facts you need if you're thinking of living in a trailer, the best places to fish and hunt, where to go for a college education, what you'll pay in taxes, how best to find your own retirement or vacation paradise, etc., etc. There's so much information, in fact, that you probably wouldn't learn as much about California in months, even years, of traveling around this big state as you can learn from this one big book. Yet it costs only \$2. Mail coupon today for your copy.

THE BEST IN TEXAS, ARIZONA, NEW MEXICO -and all the rest of the SOUTHWEST

WHATEVER you want to do in the Southwest, Thomas B. Lesure's huge book, "The Heart of the Southwest" helps you select the best in all these states (plus their close neighbors including Colorado).

- IF YOU WANT TO RETIRE, "The Heart of the Southwest" describes the outstanding towns, cities, and other areas for the most pleasant surroundings in a warm, sunny climate, where
- IF YOU WANT A HOME IN THE SOUTHWEST, "The Heart of the Southwest" details the towns that "grow on you"-they're such wonderful places to live and it's easy to get acquainted.
- IF YOU WANT RELIEF FROM WINTER COLDS OR ARTHRITIS and all the other troubles of damp, northern winters, "The Heart of the Southwest" shows just what relief this healthful corner of America can offer you.

Of course, there's plenty about lower cost trailer living—where to find it at its very best (and what that can mean to retired couples who must save money!). There's full information to about taxes (and where they are less), schools for your children, etc., etc. If you want a job or a business of your own, "The Heart of the gives you the facts you'd otherwise spend days and weeks trying to get for yourself.

IF YOU WANT TO TOUR THE SOUTHWEST

"The Heart of the Southwest" selects only what's outstanding in all the Southwest, and what a big area that is: from Texas to Arizona, including New Mexico, Colorado and nearby Utah and Nevada.

It describes the best roads, shows what

ou'll find along them. If you want to fish or roam out to the real Indian country or locate the strange Spanish penitentes or view a living glacier or a dead volcano or do or see any of the hundreds of things the Southwest offers you, you'll find this big book pointing out the way, telling what to look for, and where to get the most for your money. (And it's full of the facts you need if you arrive by bus, train or plane without a car of your own.) Naturally, it recommends the best places to stay or eat (and how much more you'll enjoy the Southwest because you don't have to trust to luck to find good

Fully 125,000 words, "The Heart of the Southwest" brings you as close to Texas, Arizona, New Mexico, Colorado and their neighbors as if you had friends all along the way to tell you where to discover the best parts of those sections they themselves know best. Only \$2 for this enormous book; so send for

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I have enclosed \$	 new fork (cash, check, money order). Please send me the book REFUND MY MONEY IF I AM NOT SATISFIED.
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☐ The Best in the West. \$2.5 ☐ The Heart of the Southwest	t. \$2 .
☐ California—the State That H☐ How to Travel Without Bein ☐ Norman Ford's Florida. \$2.	ng Rich (round the world on a shoestring). \$1.50.
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City & State	

Where Will You Go in Florida?

If You Want a Vacation You Can Afford?

FLORIDA needn't be expensive - not if you know just where to go for whatever you seek in Florida. And if there's any man who can give you the facts you want it's Norman Ford, founder of the world-famous Globetrotters Club. (Yes, Florida is his home whenever he isn't traveling!)

His big book, Norman Ford's Florida, tells you, first of all, road by road, mile by mile, everything you'll find in Florida, whether you're

on vacation, or looking over job, business, real estate, or retirement prospects.

Always, he names the hotels, motels, and restaurants where you can stop for the best accommodations and meals at the price you want to pay. For that longer vacation, if you let Norman Ford guide you, you'll find a real "paradise"—just the spot which has everything

Of course, there's much more to this big book.

If you want a job or a home in Florida, Norman Ford tells you just where to head. If you want to retire on a small income, Norman Ford tells you where life in Florida is pleasantest on a small income.

Yes, no matter what you seek in Floridawhether you want to retire, vacation, get a job, buy a home, or start a business, Norman Ford's Florida gives you the facts you need to find exactly what you want. Yet this big book with plenty of maps and well over 100,000 words sells for only \$2-only a fraction of the money you'd spend needlessly if you went to Florida

For your copy, fill out coupon now.

How To See Eastern America

(from New England to the Great Lakes, from Washington, D. C., to Canada)

TANK up your car, settle the bill with the

spent more than you'll pay for Harian's big book, "The Best in the East."

And that's the book which is going to give you full value from all the money you spend on gasoline, meals and overnight accommoda-

tions as you travel around Eastern America.

Almost mile by mile, "The Best in the East" helps you explore all Eastern America with real knowledge of the best things to see and where to go in all the area from Chicago to New York; from Portland, Me., to the Great Lakes; from Toronto and Montreal to old French Canada. There's a lot to see here IF you know where to head, what roads to take, which ones to avoid, the side trips worth an hour or two of your precious vacation time.

Would you want to see the manuscript of the Star-Spangled Banner or find your way around Gettysburg? Or New York or historic Boston or other cities? Would you like to visit some of those fabulous gardens of eastern millionaires now open to visitors? Or visit a worldfamous factory or take time out for a restful tamous factory or take time out for a restful day of the very best swimming or fishing in all the East? Would you know where to head for something of real interest to the children traveling with you? Do you know where to stay and eat-or will you trust to blind luck here too as so many people do with their entire continuous. with their entire trip?

If you've ever missed anything on past trips, ever regretted that you learned too late about some sight you should have seen, if you want your full money's worth as you tour Eastern America, then get fact-packed "The Best in the East." Only \$2, less than a tankful of gas. So order now.

Visiting the East by plane, bus, or rail? "The Best in the East" shows you how to see the best in all eastern America even without a car of your own.