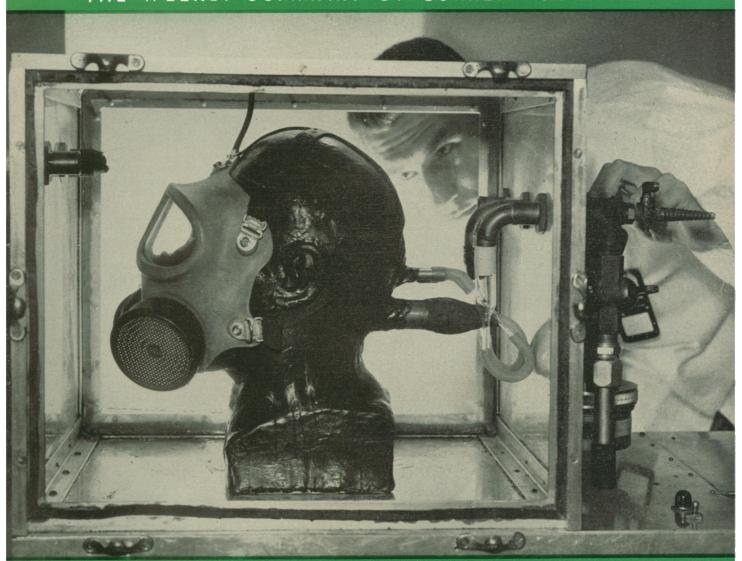
SCIENCE NEWS LETTER



.

THE WEEKLY SUMMARY OF CURRENT SCIENCE



"Hot" Head

See Page 24

A SCIENCE SERVICE PUBLICATION



Honorary
Vice President
of the world-famous
Globetrotters Club

By NORMAN D. FORD

O you know there are thousands of Americans nowadays who travel far for only a few dollars a day, and they do what thousands of other Americans think only the rich can afford?

Do you know that living below the border is so cheap you can vacation for a month in a flower bedecked villa in Mexico with private swimming pool for what you'd spend in the U.S. in a week in an ordinary resort?

Do you know that for no more than you'd spend at such a resort, you can visit Cuba, Europe, or South America, or take your two or three weeks' vacation cruising through the West Indies? Or you can take a never-to-be-forgotten cruise to Rio or Buenos Aires or through the Canal to either coast or along the St. Lawrence River to French Canada and still spend no more than at a resort?

As founder of the Globetrotters Club, I have spent years searching for the many ways in which to travel on the least amount of money, the countries which are best to visit, and the ways in which to get the most for your money. I think I can tell you about exciting, low cost places both near at home and farther away, where you can spend unusual vacations at a cost you never dreamed possible. About the real "finds" travelers always get excited about if they should stumble upon such wonderful, lower cost places to stay and eat. About ways you probably never knew to cut transportation costs by using freighters, the lower cost foreign liners, and other forms of transportation.

Know what you can do on the money you've got. Look over the accompanying list of seven books bearing the imprint of Harian Pub-

WHERE DO YOU

lications. the publishing firm known throughout the world for publishing hard-to-learn facts about how to travel almost anywhere in the world as nearly on a shoestring as possible.

Some of them are my books—others are by other world travelers. Each one will show you how to see more of the world—and how do so without being rich.

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 private bath, lots of good food and plenty of relaxation as you speed from port to nort.

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 130 page 1956 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 whole section called How to See the World at Low Cost, plus pages and pages of photos and maps.

A hie \$1 worth especially as it can open the way to

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.

AIR TRAVEL CAN COST LESS

O you know you can fly via a big DC-6 to the gay cities of Panama, with their nightclubs, and huge free port shopping bazaars, for only \$55?

If you know where to look for them, there are lower cost air services—scheduled, lower cost airlines to the most exciting countries of South America or to Scandinavia, as well as dozens upon dozens of other seldomadvertised opportunities to travel far for less than most people think air travel must cost.

Norman Ford's big guide Air Routes of the World tells you where the world's airlines go, their reliability, the planes used, the combination fares they offer, which services cost less, etc.

Page after page reveals the hidden extras in your air ticket. (Do you know how to fly to Europe and then to the cities and countries you want to see, yet spend less than many do for steamer across the ocean and rail in Europe?)

There's just as revealing information on how to cut your travel costs practically anywhere else in the world. (Do you know which are the recommended airlines to South America if you want to save money

on your fare? Which are the recommended airlines to the West Indies to see more, the best ways to reach Mexico? Do you know how to spend \$300-\$1250 less on a complete round the world air tour—how to take a longer air tour of the world for only \$82 a week?)

a longer air tour of the world for only \$82 a week?)

Do you know where to stay in the cities you'll visit (which are the comfortable, lower cost hotels recommended by Americans who've been there), how to schedule every day of your trip—whether it's to Europe, the West Indies, Mexico, South America—and whether you'll be gone 10 days, a month, or longer? Do you know what to do about excess baggage to avoid heavy additional costs; how to save many dollars on pay-later plans; when and how to use excursion fares to cut your travel costs still more?

In all the world not another book tells you how to

In all the world, not another book tells you how to get more out of air travel, how to cut your costs, and have a trip you might not think today you can afford.

Prove to yourself that air travel can open the world to you, no matter how short a vacation you have. Send now for Air Routes of the World. It costs only \$1.50—which you can save many times over through just one hint.

ROUND THE WORLD ON A SHOESTRING

I F you know ALL the ways of reaching foreign countries, you don't need fantastic sums of 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 \$108 in fares via bus and rail through colorful Mexico, Panama, Colombia, Peru, the Andes, etc.

You could spend \$5000 on a luxury cruise around the world or \$700 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 o 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 freighter, 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 his 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 copy now.

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? A 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 everything gives you the facts you want. With William Redgrave's help you'l! 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.

WHERE THE DOLLAR BUYS SO MUCH MORE

Do you know where to find an island right near the U. S. so nearly like Tahiti in appearance, beauty, and color even the natives say it was made from a rainbow? (And that costs here are so low you can not only reach it but also stay a while for hardly more than you'd spend at a resort in the U. S.)

Do you know where to find the world's best mountain hideaways or its most dazzling surf-washed coastal resorts, where even today you can live for a song?

Do you know where it costs less to spend a while, the surroundings are pleasant, and the climate wellnigh perfect in such places as Mexico, the West Indies, Peru, France, along the Mediterranean, and in the world's other low-cost wonderlands?

Or if you've thought of more distant places, do you know which of the South Sea Islands are as unspoiled today as in Conrad's day? Or which is the one spot world travelers call the most beautiful place on earth, where two can live in sheer luxury, with a retinue of servants for only \$175 a month?

Bargain Paradises of the World, a big new book with about 100 photos and 4 maps, proves that if you can afford a vacation in the U.S., the rest of the world is closer than you think. Authors Norman D. Ford and William Redgrave, honorary vice presidents of the Globetrotters Club, show that the American dollar is respected all over the world and buys a lot more than you'd give it credit for.

Yes, if you're planning to retire, this book shows that you can live for months on end in the world's wonderlands for hardly more than you'd spend for a few months at home. Or if you've dreamed of taking time out for a real rest, this book shows how you can afford it.

afford it.

In any case, when it can cost as little as \$24.50 from
the U. S. border to reach some of the World's Bargain
Paradises, it's time you learned how much you can do
on the money you've got. Send now for Bargain
Paradises of the World. Price \$1.50. Use coupon to

Mail to HARIAN PUBLICATIONS, 104 First Ave. GREENLAWN (Long Island), New York
I have enclosed \$ (cash, check, money order). Please send me the books checked below. YOU WILL REFUND MY MONEY IF I AM NOT SATISFIED.
☐ Travel routes around the world. \$1. ☐ Air routes of the world. \$1.50.
☐ How to travel without being rich (round the world on a shoestring). \$1.50. ☐ California—the state that has everything. \$2.
Bargain paradises of the world (where the dollar buys so much more). \$1.50. Where to vacation on a shoestring (how to stop saying "I Always spend too much on my vacation). \$1.
□ Norman Ford's Florida. \$2.
Special Any \$6 worth of books for \$5 Any \$9 worth of books for \$7.50 All books above—\$10.50 value—for \$8.50
Print Name
Address
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 Globe Trotters 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 you want.

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 Florida-whether 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 blind.

For your copy, fill out coupon now.

How to Stop Saying

"I always spend too much on my vacation"

N his new book, Where to Vacation on a Shoestring, Norman Ford, founder of the world-famous Globetrotters Club, tells you about hundreds of undiscovered beauty spots all over America, Canada, Mexico, and elsewhere, where you'll have the time of your life and spend less money.

He tells you how to get real values in whatever kind of vacation you want, whether it's a weekend at a beach or two weeks in the mountains or an auto tour of America.

He tells you all about the national parks and how to reach them with double the sightseeing. He shows where to get the real bargain basement in government supported vacation resorts. He has the data you want whether you vacation on a real western ranch, or cruise on a houseboat into the Minnesota woods or on a sailing ship along the Maine coast, or if you want to do any of the hundreds of things the American vacationist can do-if he knows where to find out about such exciting ways to vacation and how to do them with the least expenditure of money.

Whatever your plans might be-to tour the magnificent Colorado Rockies or relax at a luxury hotel where rates tumble to a third of their high season level or to sightsee for a week in New York or Los Angeles or New Orleans—no matter what are your plans, in Norman Ford's big book, you'll find the facts you want on what to do before leaving, where to find low cost accommodations, what to see, and how to cut your costs. Yes, he covers rail and plane vacations, too.

There are close to 75,000 words in Where to Vacation on a Shoestring, and a book as big as this for only \$1 is a real value. When you think of how it will give you a fuller, happier, and lower cost vacation, you'll say it's one of the best investments you ever made. Use coupon to order.

Questions

DENTISTRY—What part of saliva has anticaries action? p. 20.

GENERAL SCIENCE—How does science serve mankind? p. 19.

GEOPHYSICS—How fast does the earth's interior turn over? p. 23.

MEDICINE-Against what kind of cold virus does the new vaccine protect? p. 20.

PHYSICS—How can the hydrogen bomb fusion be controlled without a container. p. 22.

How constant is a second? p. 21.

Photographs: Cover, General Electric; p. 19. Wayne Taylor; p. 21, Westinghouse; p. 23, J. Walter Thompson.

WASHINGTON SCHOOL COLLECTION

This collection has been popular for years in High Schools. It includes 20 of the most important and common Rocks and also 20 common minerals. Each of the 40 specimens is about 2" in size and imbedded in cotton in a strong partitioned box size 10 ½ x 16 ½ x 1½". A set of unlabeled small specimens for quiz and identification purposes is included without extra charge. Price \$8.50 prepaid. Booklet, Introduction to Geology for the Layman 50¢.

ECKERT

MINERAL RESEARCH PROSPECTORS SUPPLIES

Dept. SNL 110 EAST MAIN STREET FLORENCE, COLORADO

100x Area Projector



Johnson Smith Co., Dept. 281, Detroit 7, Mich.

New CATALOG of 3000 NOVELTIES



Tricks, jokes, funmakers, hobbies, magic, gadgets, sports, cameras, jewelry, auto & bike items, science articles, office & house gadgets, books, seds, games, music, etc. Catalog 10¢.

RGA



Photographers! Adapt your camera to this Scope for excellent Telephoto shots and fascinating photos of moon! . . . See the Stars, Moon, Planets Close Up! **BUILD A BIG 100 POWER** 3" REFLECTING TELESCOPE

. with this Complete 87 Piece "Do-it-yourself" Kit **EXCELLENT SCIENCE CLUB PROJECT!**

Get Ready to See the Artificial Satellites!

SPITZ JR. PLANETARIUM





50-150-300 Power MICROSCOPE

Low Price Yet Suitable for Classroom Use! Only \$14.95
3 Achromatic Objective Lenses on Revolving Turret!
Imported! The color-corrected, cemented achromatic lenses in the objectives give you far superior results to the single lenses found in the microscopes selling for \$9.951 Results are worth the difference! Fine rack and pinion focusing. Stock No. 70,008-Q. .\$14.95 Postpald



POCKET

INSTRUCTION BOOKLETS

Easy to follow—accurate—8 ½ x 11 page size—many illustrations. Do-it-yourself—Save! and have Fun!

tions. Tells how to but to use them. Lots of raphy. Stock #9036-Q.....

Order by stock No. Send Check or M.O. Satisfaction Guaranteed!

SPITZ MOONSCOPE See Earth's Largest Satellite



SPECIAL SALE 7x50 MONOCULAR

This is fine quality, American made instrument—war surplus! Actually ½ of U.S. Govt. 7 x 50 Binocular. Used for general observation both day and night and to take fascinating telephoto shots with your camera. Brand new. \$95 value. Due to Japanese competition we close these out at a bargain price.

Stock No. 50,003-Q..........\$15.00 Postpald

New! 2 in 1 Combination! Pocket-Size 50 POWER MICROSCOPE 10 POWER TELESCOPE ONLY





Useful Telescope and Microscope combined in one amazing, precision instrument. Imported! No larger than a fountain pen. Telescope is 10 Power. Microscope magnifies 50 Times. Sharp focus at any range. Handy for sports, looking at small objects, just plain snooping.

Send Check or M.O.

Satisfaction Guaranteed.

\$4.50

Order Stock No. 30,059-Q.....\$4.50

SIMPLE LENS KITS!

Fun for adults! Fun for children! Kits include plainly written, illustrated booklet showing how you can build lots of optical items.

Stock No. 2-Q-10 lenses. \$ 1.00 Postpald Stock No. 5-Q-45 lenses. \$ 5.00 Postpald Stock No. 10-Q-80 lenses. \$10.00 Postpald

GET FREE CATALOG #Q—World's largest variety of Optical Items. Bargains galore . . . War Surplus—Imported—Domestic! Microscopes, Telescopes, Hand Spectroscopes, Prisms, Lenses, Reticles, Mirrors and dozens of other hard-to-get Optical Items. Ask for FREE CATALOG #Q.

EDMUND SCIENTIFIC CORP., BARRINGTON, N. J.