

15¢

\$5.50 A YEAR

March 8, 1958

VOL. 73 NO. 10 PAGES 145-160

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE



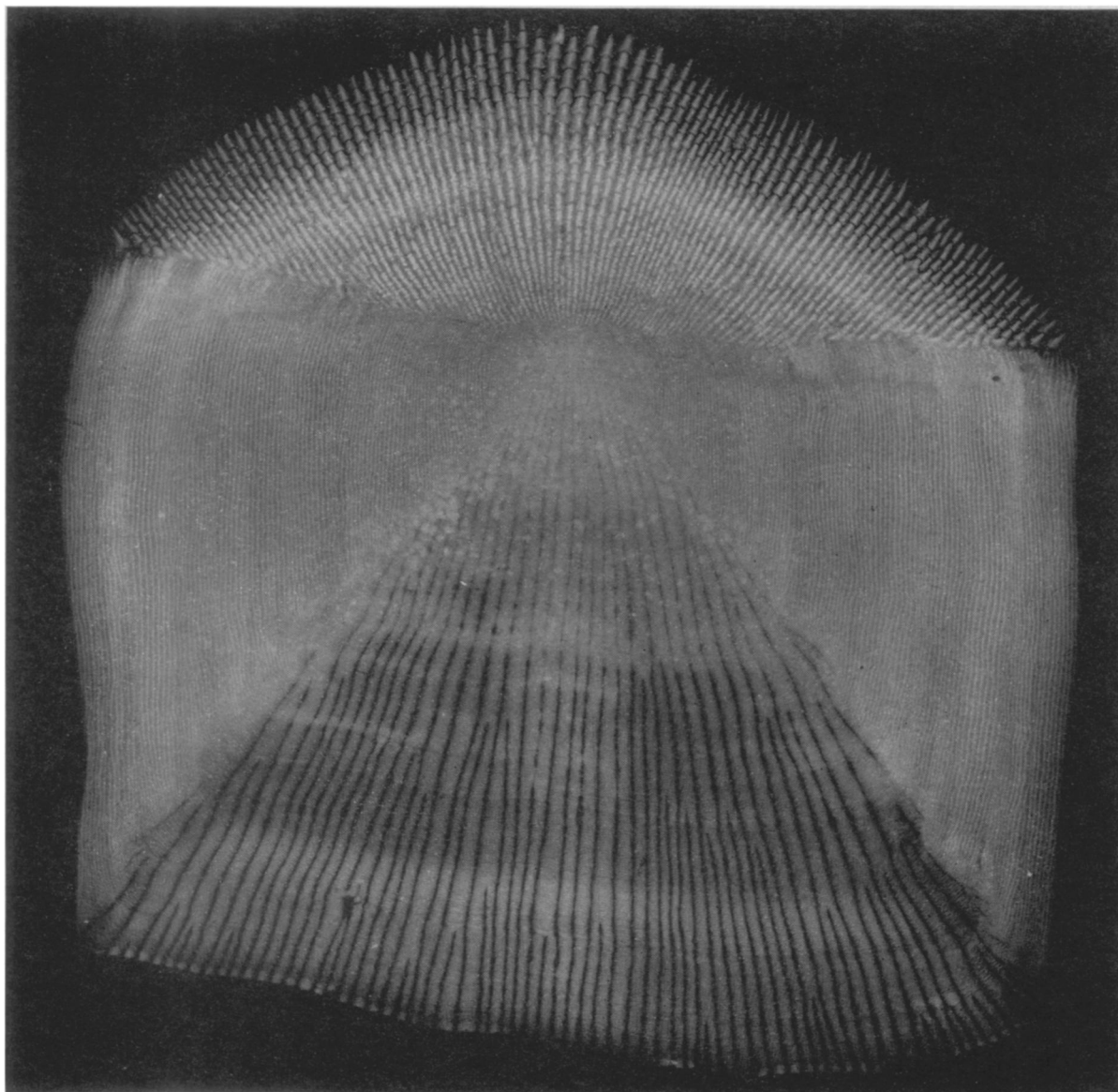
Winners at NBS

See Page 151

A SCIENCE SERVICE PUBLICATION

Kodak reports on:

a fish story with a picture to prove it . . . extending our list of refractive index liquids at both ends



This is a microradiograph of a striped bass scale. In microradiography one passes low-voltage x-rays through a specimen to a special fine-grain photographic emulsion in intimate contact with it. The resulting photographic image then becomes a subject for conventional photographic enlargement or photomicrography. If you already know that much, there is then some point in requesting of Eastman Kodak Company, Special Sensi-

tized Products Division, Rochester 4, N. Y., information about an improved material for this work which we hope to have available in the near future. The same source can also provide a recently updated bibliography on results and techniques with microradiography. But don't ask us about striped bass, their stripes, or their scales. Ask the Fish and Wildlife Service of the U. S. Department of the Interior in Washington.

Bottled goods, 1.269 to 1.840

Page 222 of "Eastman Organic Chemicals, List No. 40" is devoted to a price catalog of 40 liquids arranged in order of refractive index and an offer to supply them in 25-cc glass-stoppered bottles when ordered in lots of 10 or more. After the book was printed, along came *Trifluoroacetic Anhydride* (Eastman 7386) with a refractive index of 1.269 to extend the list at the low

end, and now comes *Diiodophenylarsine* (Eastman 7439) to stretch it at the other end to 1.840, way beyond 1.7400 where *Diiodomethane* (Eastman 167) had hitherto left it. It is heavy stuff ($D_4^{20} = 2.565$), and dark red is its inherent color, but it is not very volatile (BP 142-144/1 mm) and it's a definite chemical entity instead of one of those inorganic cookbook broths that have been in use for high-index measurements in mineralogy.

We didn't invent Diiodophenylarsine. George Joseph Burrows and Eustace Ebenezer Turner did, 38 years ago or more in Sydney, Australia. All we've done is to add it to the list of some 3600 miscellaneous organic compounds obtainable in laboratory quantities from Distillation Products Industries, Rochester 3, N. Y. (Division of Eastman Kodak Company).

Kodak
TRADE MARK

WHERE TO RETIRE ON A SMALL INCOME

This book selects out of the hundreds of thousands of communities in the U. S. and its island territories only those places where living costs are less, where the surroundings are pleasant, and where nature and the community get together to guarantee a good time from fishing, boating, gardening, concerts, or the like. The book never overlooks the fact that some people must get part-time or seasonal work to pad out their income.

It covers cities, towns, and farms throughout America—from New England south to Florida, west to California and north to the Pacific Northwest. It includes both Hawaii and American Virgin Islands. Some people spend hundreds of dollars trying to get information like this by traveling around the country. Frequently they fail—there is just too much of America to explore!

Where to Retire on a Small Income saves you from that danger. Yet the big NEW edition costs only \$1.00.

WHERE WILL YOU GO IN FLORIDA?

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 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. His talks with hundreds of personnel managers, businessmen, real estate operators, state officials, etc., let him pinpoint the towns you want to know about if you're going to Florida for a home, a job with a future, or a business of your own. If you've ever wanted to run a tourist court or own an orange grove, he tells you today's inside story of these popular investments.

If You Want to Retire on a Small Income

NORMAN FORD tells you exactly where you can retire now on the money you've got, whether it's a little or a lot. (If you need a part time or seasonal job to help out your income, he tells you where to pick up extra income.) Because Norman Ford always tells you where life in Florida is pleasant on a small income, he can help you to take life easy now.

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 today.

WHAT DO YOU WANT IN CALIFORNIA?

A job or a business of your own?

A vacation to Hollywood, San Francisco, Yosemite, elsewhere in California—at a price you can afford?

A place to retire on a small income?

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

No 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'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.

ALL ABOUT ARIZONA

—the healthful state, where
it's great to live and vacation

Just as a road map shows you how to reach your destination, Thomas B. Lesure's big book, *All About Arizona, the healthful state*, leads you to whatever you want in this fast growing state of sun and scenic wonderlands.

What do you want to know about Arizona?

Where's the best place to retire at low cost? Where are summers cool? Winters, sunny most of the time? Where are the best areas for a job or a business of your own? For a home? What must a newcomer watch out for when buying land . . . or a home? How high are taxes? Is it true that living costs are less than in the East? What about salaries . . . schools for my children . . . my health?

Or do you want to tour this Grand Canyon State? What's the best way to see Arizona by car (or otherwise)? What is really worth seeing along the roads and down interesting side roads? Or in the cities, the national parks and the other four-star sights? What are those world-famous but relatively unknown four-star sights overshadowed by spectacular Grand Canyon? What is really the best way to see the Grand Canyon? The Indian reservations? The other Canyons? Which are the best places to eat and stay along the way?

What are the sure ways to cut travel costs in this big state?

Filled with facts, over a hundred thousand words in length, *All About Arizona, the healthful state*, almost brings Arizona to your door, answering these and a hundred other questions and giving you a richer, better picture of Arizona than many people have after living there for years.

To know all you should about Arizona before you go for a home, a job, a business of your own, retirement in the sun, or a vacation you'll always remember, read *All About Arizona, the healthful state*. Price only \$2.

BARGAIN PARADISES OF THE WORLD

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 awhile 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 awhile, the surroundings are pleasant, and the climate well nigh perfect in such places as Mexico, the West Indies and the world's other low cost wonderlands? 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.

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 order.

 **Fill Out and Send at Once for Quick Delivery**

Mail to HARIAN PUBLICATIONS

222 Prince Street

Greenlawn (Long Island), New York

I have enclosed \$..... (cash, check or money order). Please send me the books checked below. You will refund my money if I am not satisfied.

- All About Arizona—the healthful state. \$2.
- Bargain Paradises of the World. \$1.50.
- California—The State That Has Everything. \$2.
- Norman Ford's Florida. \$2.
- Where to Retire on a Small Income. \$1.
- SPECIAL OFFER: All 5 books above (\$8.50 value) for only \$6.**

Print Name.....

Address.....

City and State.....