

THE EARTH'S INTERIOR

Our Planet's Core Is Liquid, Yet It's as Rigid as Steel.

UNDER ENORMOUS PRESSURE

Neither Rock Nor Metal Could Remain There in the State in Which We See It on the Surface—The Lava That Breaks Through the Earth's Crust.

The idea that the interior of the globe is composed of flowing lava has long since been abandoned, but the picture that modern science offers of the inside of the earth is hardly less appalling. All investigations unite to prove that the heat increases as we descend deeper in the terrestrial crust at such a rate that forty or fifty miles down no substance with which we are acquainted could remain unmelting. And yet the same science tells us that the core of the globe is enormously more rigid than the hardest steel. This apparent contradiction is due to the tremendous pressure inside the earth. No rock and no metal can remain there in the state in which we see it on the surface. Its molecules must lose the adherence characteristic of solid bodies in consequence of the heat, but still they are not free to flow like an ordinary liquid, because of the compression to which they are subjected.

The phenomena of earthquakes have given wonderful information about the internal state of the globe. All observations show that the shocks of earthquakes are confined to a thin upper shell. They originate at a depth of only a few miles at the most. But the vibrations which they set going are felt all through the earth, often extending to the antipodes. The great core, held rigid by the pressure, is extremely elastic, and it responds to a shock like a ball of steel or of glass. The density of the earth increases toward the center. It is only in the upper part of the crust that local movements can take place, causing shocks and changes of level at the surface. Deeper down everything is gripped and immovable, except as already remarked, that the molecules of the rocks and metals there are subject to vibration like those of a bell against which a blow is struck.

But this is not all. Whenever a local release from the pressure is brought about by changes near the surface the potentially liquid but effectively solid core at that point may suddenly become fluid and gush forth through a volcanic throat or other vent. But such effects cannot extend to any great depth. Nothing comes to us from the vast interior mass. That remains a perpetual mystery, far beyond the searching hand of science. Indirectly, however, we may learn much about it. Astronomical considerations throw a great deal of light upon the subject. We see that through the planetary system rotating globes are flattened at the poles. The same thing is true of the earth. Its equatorial bulges; its polar regions are drawn inward. Mechanical laws assure us that the cause is to be found in the fact that the earth and the other planets have assumed shape under the influence of the centrifugal force of their rotation. That force is necessarily greatest at the equator. Beginning as completed molten bodies, they have commenced to solidify at the surface after having assumed an ellipsoidal form due to their rotation.

Another very significant fact is that the shape of the earth corresponds with that which a globe rotating with its velocity would have if composed of materials arranged to their density—that is to say, growing denser toward the center. The heaviest materials must be deep down in the globe; the lighter materials have remained at the surface. This again corresponds with the facts of observation. We know the total "weight" and the average density of the earth. It "weighs" six sextillions of tons, and its average density is five and a half times that of water. But the substances composing the crust of the earth have an average density of twice that of water. It follows that the heaviest things in the earth, on the average, exist deep within its interior. For all that we can tell, its inner core may be wholly metallic. At the center there is probably an enormous aggregation of dense metallic substances.

An indication that the inner parts of the earth consist largely if not mainly of iron is to be found in the magnetism of the globe. The earth is a great permanent magnet. If we could learn the facts it might turn out that iron is the most abundant substance in the solar system and perhaps in the whole universe. The majority of the meteorites that fall upon the earth consist of solid iron. Blow the earth to pieces and in the resulting cloud of fragments the rocks that we are familiar with would be almost imperceptible. There would be a rain of iron and other metals descending upon the moon and upon any other attracting body in the vicinity.

This view of the interior of the globe disposes of the notion, so picturesquely developed in one of Jules Verne's romances, of the existence of vast cavernous openings in the interior of the earth. Such void spaces, though on no large scale, may exist in the upper part of the crust, but not at a great depth. The earth is effectively more solid than a cannon ball, and the movable rocks composing its crust are like a film of rust on the hard metal.—Professor Garrett P. Serviss in New York American.

It is better to become great than to be born great.—Proverb.

THE MARKETS

Accurate prices paid by Decatur merchants for various products. Corrected every day at 2 o'clock.

EAST BUFFALO, N. Y., Jan. 2.—Market steady.	
Prime steers	@\$5.60
Medium steers	@\$4.50
Stockers to best feeders ..	@\$3.75
Receipts, hogs, 90 cars; market steady.	
Mediums and heavies	@\$4.95
Yorkers	@\$4.95
Pigs	@\$4.95
Receipts, sheep, 50 cars; market steady.	
Best spring lambs	@\$7.75
Wether sheep	@\$5.25
Culls, slipped	@\$4.00

CHICAGO MARKETS.

July wheat	99 1/4
May wheat	107 1/4
July corn	60 1/2
May corn	61 1/4
July oats	48 1/4
May oats	55

PITTSBURG MARKETS.

Jan. 2.—Hog supply, 50 cars; market steady.	
Heavies	@\$5.00
Mediums	@\$5.00
Yorkers	@\$4.90
Light	@\$4.90
Pigs	@\$4.85

TOLEDO MARKETS.

Cash wheat	102 1/4
May wheat	107 1/4
Cash corn	60 1/2
May corn	62
Cash oats	53
May oats	54 1/4

PRODUCE.

By Decatur Produce Co.	
Eggs	23c
Butter	18c
Fowls	7c
Chicks	7c
Ducks	7c
Geese	6c
Turkeys, young	12c
Turkeys, toms	9c
Turkeys, hens	9c

HIDES.

By B. Kalver and Son.	
Beef hides	4 1/2c
Calf hides	7c
Tallow	4c
Sheep pelts	25c@1.25
Mink	50c@4.00
Muskkrat	50c@2.00
Coon	10c@1.00
Shunk	10c@90c
Possum	5c@25c

NOTICE.

Any one knowing themselves indebted to the late Mathias Schafer will please call and settle with Mrs. Catherine Schafer, and any one holding any claim against the estate will please present the same at once.

313-3t Mrs. Catherine Schafer.

LOST—Fountain pen between Lehne's jewelry store and the Elks hall. Finder please return to this office.

Art Roosts High.

A number of women founded a club for the purpose of dabbling in literature and artistic pursuits. The two having the most leisure were delegated by the other members to look for clubrooms. A week later they reported that they had made a selection.

"Where are the rooms?" asked the rest of the women.

"On the third floor of this building," said the house hunters, and they spread out on the table a number of exterior and interior views of the building they had chosen. But their club associates refused even to look at the pictures.

"If the rooms are on the third floor it isn't worth while to consider them even for a minute," they said. "It is an unwritten law that all clubrooms dedicated to aesthetic and artistic pursuits must have an aerial location. Nothing below the eighth floor can be thought of. It is all right for political clubs and other organizations devoted to material interests to house themselves in first, second and third floors, but the higher the altitude demanded for its clubrooms."

The house hunters looked sorely puzzled.

"Why?" they asked.

But not even the most enlightened woman present could tell why.

"We only know that it is so," they said. "Look up the location of all really soulful societies, and you'll find that the law is actually observed."

Wrong Tip.

"I have come all the way out here," said the tenderfoot, "to see your beautiful sunset."

"Somebody's been stringin' you, stranger," replied Arizona Al. "It ain't mine."—Chicago Record-Herald.

Hard Climbing.

Wearily Walker—De world's all wrong. "Bred Tatters—Wot's eatin' youse now? Wearily Walker—Er I'd a had de makin' uv it I'd made all de roads runnin' downhill."—Chicago News.

FARMS For Sale

In Michigan, Ohio and Indiana

Call on

W. H. PARKER

312 Burt Street, Van Wert, Ohio

P. J. HYLAND
SANITARY PLUMBING

Gas Fitting, Steam and Hot Water Heating, Gas and Combination Fixtures

23 Monroe St. Phone 256

DR. J. M. MILLER

Eye, Ear, Nose and Throat Treated

EYES SEEN AND GLASSES FITTED

220 South 2nd St. Decatur

Flower Bulbs

Hyacinths, Tulips, Lillies, and other Bulbs for fall planting

J. D. HALE

Money to loan on farms at low rate of interest. No commission. Partial payments allowed and interest stopped.

Tues & Fri DORE B. ERWIN, Attorney-at-Law.

Millions of bottles of Foley's Honey and Tar have been sold without any person ever having experienced any other than beneficial results from its use for coughs, colds and lung troubles. This is because the genuine Foley's Honey and Tar in the yellow package contains no opiates or other harmful drugs. Guard your health by refusing any but the genuine.

THE HOLTHOUSE DRUG CO.

NOTICE TO OUR CUSTOMERS

We are pleased to announce that Foley's Honey and Tar for coughs, colds and lung troubles is not affected by the National Pure Food and Drug law as it contains no opiates or other harmful drugs, and we recommend it as a safe remedy for children and adults.

THE HOLTHOUSE DRUG CO.

PUBLIC SALE.

The undersigned will offer for sale at his residence one and one-fourth miles southwest of Decatur or one-fourth mile south of the Eley the mill, on the Nicholas Elting farm, at 10 o'clock a. m., on Monday, January 6, 1908, the following property, to-wit:

Three head of horses, 1 grey mare 5 years old; 1 grey horse 5 year old, 1 grey horse 6 years old. These horses are extra good ones. Four head of cattle, one cow with calf by her side, 1 cow will be fresh in February, 1 yearling heifer, 1 yearling steer. One brood sow with 9 pigs by her side, about 6 dozen chickens, 2 ducks. Implements—One Studabaker wagon 3 and one-fourth inch, 1 set of dump boards, 1 top buggy, 1 Deering mower, 1 hay rake, 1 John Deer riding breaking plow, good as new; 1 Junk breaking plow, 1 grain drill, good as new; 1 corn cultivator, good as new; 1 spring tooth harrow, 1 spike tooth harrow, 1 double shovel corn plow, 1 set of double work harness, 1 set of single buggy harness, 1 hay ladder an hog rack combined, 10 acres of corn fodder in the barn, 3 tons of hay, 150 bushels of oats in the bin, 50 bushels of corn in the crib. Household and Kitchen furniture and lots of other articles too numerous to mention.

Terms—All sums of \$5.00 and under cash in hand; all sums over \$5.00, a credit of nine months will be given by purchaser giving note with approved security with 4 per cent off for cash.

EDW. L. GASE.

Fred Reppert, Auc.

This is Worth Remembering

As no one is immune, every person should remember that Foley's Kidney Cure will cure any case of kidney or bladder trouble that is not beyond the reach of medicine.

THE HOLTHOUSE DRUG CO.

DEMOCRAT WANT ADVERTISING

WANTED

WANTED TO BORROW—Money in amounts of \$500 and up. First mortgage security on Fort Wayne real estate given not to exceed 60 per cent of its valuation. Interest six per cent payable semi-annually. Inter-State Realty Company, 115 east Main St., Fort Wayne Ind. 290-30t

WANTED TO BUY—A second hand safe. Inquire of Charles Sullivan, at the West End restaurant. 316-6t

WANTED.

Corn either old or new; any quantity at the highest market price. Bring your wheat and get a premium.

285-24t A. VAN CAMP.

FOR SALE

FOR SALE—Bare Jersey swine, either sex, any age. Also black Langshan cockerels. Inquire E. F. Miller, R. R. 12, Phone 14G line. 291-1t

FOR SALE—A standard Remington Typewriter at a bargain. Inquire of S. J. Hain. 311-3t

FOR SALE—A church organ, second hand, but as good as new; has been used two years; will sell at a bargain. Inquire of Gay & Zwick.

FOR SALE—A \$500 Simplex piano and piano player, John Doll's make. It has been used only ten months and is in excellent condition. A rare bargain is offered. Inquire at this office for information. 316-6t

LOST AND FOUND

FOR RENT—Two houses for rent on Mercer ave. Call Mrs. Al Burdick, 624 Mercer Ave., or Phone 28.

LOST—A baby's kid glove dressed with fur between Crystal theater and Third street. Finder return to this office.

LOST—A pair of gold rimmed glasses. Finder please return to this office.

LOST—A signet bracelet with the letter "r" on. Finder please return to this office.

LOST—A sheepskin mitten for left hand. Was lost in Decatur several days ago. Please return to this office. 313-6t

LOST—A ladies' pocketbook between the Everett Hite grocery and Charles Vogele shoe store. Finder please return to this office.

BLACKSMITHS ATTENTION—Just received a fine car of Smithy Coal. It is good stock if you need it. Decatur Lumber Co. 310-3tditw

FOR RENT—Furnished and unfurnished rooms. Inquire of Mrs. Whitright near Clover Leaf depot. 314-6t

FOR RENT—Three rooms at my home, second house south of Hower & Hower's grocery. Prices reasonable. John Ritter. 315-6t

FIRST NATIONAL BANK
DECATUR INDIANA
CAPITAL \$100,000
SURPLUS \$20,000
INTEREST PAID ON DEPOSITS

GET WEDDED TO THE MODEL WITHOUT A MATE
W. H. LINDSLEY

FORT WAYNE & SPRINGFIELD RY.
In Effect February 1, 1907.

Decatur—North.	Ft. Wayne—South
6:00 a. m.	7:30 a. m.
9:00 a. m.	10:30 a. m.
12:00 noon	1:30 p. m.
3:00 p. m.	4:30 p. m.
6:00 p. m.	7:00 p. m.
9:30 p. m.	11:00 p. m.

Toledo, St. Louis & Western Railroad.

West.	East.
1—5:30 a. m.	6—4:50 a. m.
8—10:30 a. m.	9—12:30 p. m.
5—9:31 p. m.	4—7:00 p. m.
*20—10:00 a. m.	*22—1:15 p. m.
* Local freight.	

When at Highland, call at the Midget's Restaurant for Lunch or Meals

W. STAFFORD, the Proprietor, will treat you right.

FOR RENT—Several furnished rooms. Inquire at 347 Mercer avenue. 303-6t

For Spouting, Roofing

Galvanized Iron and Tin Work. Copper and Galvanized Lightning Rods. See

T. A. Leonard

Opposite Hale's Warehouse.

STOVES MENDED

I am now in a position to mend and fix all kinds of stoves and can furnish all parts broken or missing. If you have anything in this line see

F. E. SMITH.

CHOLERA PROOF HOGS.

By feeding the sow Ridgway's vaccine, 10c a litter, the pigs are vaccinated before birth, hence are born cholera proof. One million successful tests, 10,000 strong testimonials. In further proof I will ship my own suckling pigs and expose them for weeks in any sick cholera herd at my own expense and risk. No other Man, Doctor or Veterinarian ever did or as yet dares to take any such risk. Why? Simply because he would lose both his hogs and business. During the past eight years I have shipped and exposed in sick cholera herds, scattered from Virginia to Dakota and from Michigan to Florida, over 1,200 of my own suckling pigs without loss from cholera. I give a written guarantee and back it with a \$10,000.00 security. I can deliver the goods. Book from Robert Ridgway, Box 50, Amboy, Ind. 21w2td

A REAL WONDERLAND.

South Dakota, with its rich silver mines, bonanza farms, wide ranges and strange natural formations, is a veritable wonderland. At Mount City, in the home of Mrs. E. D. Clapp, a wonderful case of healing has lately occurred. Her son seemed near death with lung and throat trouble. "Exhausting coughing spells occurred every five minutes," writes Mrs. Clapp, "when I began giving Dr. King's New Discovery, the great medicine, that saved his life and completely cured him." Guarantee for coughs and colds, throat and lung troubles, by Page Blackburn druggist, 50c. and \$1.00. Trial bottle free.

Trial Catarrh treatments are being mailed out free, on request, by Dr. Shoop, Racine, Wis. These tests are proving to the people, without a penny's cost, the great value of this scientific prescription known to druggists everywhere as Dr. Shoop's Catarrh Remedy. Sold by W. H. Nachtrieb.

SIMPLE REMEDY FOR LA GRIPE

La grippe coughs are dangerous as they frequently develop into pneumonia. Foley's Honey and Tar not only stops the cough and heals and strengthens the lungs so that no serious results need be feared. The genuine Foley's Honey and Tar contains no harmful drugs and is in a yellow package. Refuse substitutes.

To check a cold quickly, get from your druggist some Little Candy Cold Tablets called Preventics. Druggists everywhere are now dispensing Preventics, for they are not only safe, but decidedly effective and prompt. Preventics contain no quinine, no laxative, nothing harsh nor sickening. Taken at the "sneeze stage" Preventics will prevent Pneumonia, Bronchitis, La Grippe, etc. Hence the name. Preventics, 25 cents. Trial Boxes 5 cts. Sold by W. H. Nachtrieb.

TO TEXAS—If you want facts about a cheap trip to Texas immediately after the holidays, or if you want to invest in the fastest growing country on earth call on or write Dan N. Erwin, Decatur, Ind. 296-30t

CHAMBERLAIN'S COUGH REMEDY

CURES Coughs, Colds, CROUP, Whooping Cough

This remedy can always be depended upon and is pleasant to take. It contains no opium or other harmful drug and may be given as confidently to a baby as to an adult. Price 25 cents, large size 50 cents.

30,000 COPIES PRINTED AND MORE POPULAR THAN EVER



BETH NORVELL

By RALPH PARRISH

The interest in vigorous, clean-cut, new story is confined to fiction, but is spread over the country from sea to sea. There are good reasons for this, for it has, color, rapid movement, intense situations and breathless climaxes—just the elements that make a novel popular.

EVERY BOOKSELLER HAS IT

A. C. McCLURG & CO., PUBLISHERS, CHICAGO

Real Estate

Farm and city property for sale and buy. Call and see my list. Here is a few of bargains:

168 acres, 1 1-2 miles Decatur; good improvement for \$75 per acre.

160 acres \$70 per acre. Bank barn, good home.

40 acres, 2 miles of Decatur at a bargain.

I also handle Michigan lands and have some at bargain, good as Adam county can afford at \$30, and \$50 per acre with good buildings.

And city property in parts of city from \$800 to six thousand. Also have property to rent.

I. L. Babcock & Wagon

Decatur, Ind.

When the Stomach, Heart, or Kidney nerves get weak, then these organs always fail. Don't drug the Stomach, nor stimulate the Heart or Kidney. That is simply a makeshift. Get a prescription known to Druggists everywhere as Dr. Shoop's Restorative. The Restorative is prepared expressly for these weak inside nerves. Strengthen these nerves, build them up with Dr. Shoop's Restorative—tablets of liquid—and see how quickly help will come. Free sample test sent on request by Dr. Shoop, Racine, Wis. Your health is surely worth this simple test. W. H. Nachtrieb.

Any 12 Year Old Girl Can make those delicious Lemon, Chocolate and Custard pies as well as the more experienced cook if she uses "OUR-PIE" preparation, which is now sold by nearly all grocers at 10 cents per package. Just the proper ingredients in each package.

In order to finish up the sales of a large consignment of choice Hocking coal, we will close it out while it lasts at the yard at \$3.25 per ton. Tricker and Merica. 314-3t

J. H. Heller was at Ft Wayne last evening, where he witnessed Richard Carle's production of "A Spring Chicken" at the Majestic.

DEMOCRAT WANT ADS.

Rheumatism

I have found a tried and tested cure for Rheumatism. Not a remedy that will straighten the distorted limbs of chronic cripples, nor turn boys back to high again. That is impossible, but I can now surely kill the pain and cause of this deplorable disease.

In Germany—with a Chemist in the City of Berlin—I found the last ingredient with which Dr. Shoop's Rheumatic Remedy was made a perfected, dependable prescription. Without that last ingredient I successfully treated many, many cases of Rheumatism; but now, at last, I can cure all curable cases of this heretofore almost dreaded disease. Those same like granular wastes, found in Rheumatic Blood, seem to dissolve and pass away under the action of this remedy as truly as does sugar when added to pure water. And then, when dissolved, these poisonous wastes freely pass from the system, and the cause of Rheumatism is gone forever. There is now no real need—no actual cause to suffer longer without help. We sell, and in confidence recommend

Dr. Shoop's Rheumatic Remedy

W. H. NACHTRIEB.

NOTHING NEW.

A complete line of Ash Tray Card Trays, Cigar Pack Smoker Sets and Tobacco Boxes, which are all decorated with fancy cigar bands.

A supply of plain dish and cigar bands for decorating purposes.

Send look the line over.

C. CORBETT.

LOST—brown sheepskin mitten. Finder please return to this office.

209-20