

—Dietz on Science— CHANGING IRON TO GOLD TO BE SCIENTIFIC FACT

Liner Voyage Powered With
Pint of Hydrogen Also
Forecast.

BY DAVID DIETZ
Scripture-Howard Science Editor

A day is coming when a pint of hydrogen will be all the fuel needed to drive an ocean liner from New York to Cherbourg and back again. A day is coming when a pound of iron will be as valuable as a pound of gold because it will be possible at will to change the iron into gold. Those are two of the promises which spur on the scientists engaged in the smashing of the atom. The release of atomic energy and the transmutation of one chemical element into another are two of the things which they expect to accomplish.

As a matter of fact both have been accomplished although in such slight degree that they have no commercial or social significance to date. But accomplishment on a large scale is only a matter of time. And when that happens, humanity will live in a new world.

Values Will Be Lost

For one thing, it will be off the gold standard permanently. Gold won't mean a thing when it will be possible to change any chemical element into gold at will.

For another thing, the possession of coal, petroleum and water power won't mean a thing for far greater power will be found in a lump of clay, a quart of water, or a pint of any gas.

It is true that most of the people engaged in atom smashing will tell you that they are chiefly interested in finding out more about the atom and the structure of the universe. This is perfectly true. It has been true of scientists down through the centuries. But out of such researches in pure science have come the triumphs of applied science.

High Voltage Developed

Interest at present is centered largely upon the electrostatic generator just built in an airplane hangar at South Dartmouth, Mass. This generator, built by the Massachusetts Institute of Technology, under the direction of Dr. Robert J. Van De Graaf, develops a direct current voltage five times higher than that ever achieved before.

The generator has two huge aluminum spheres, fifteen feet in diameter, mounted on tall pillars. A rope of yellow lightning, twisting and roaring, a rope forty feet long, leaps between these two spheres when the generator is in operation. The segment of lightning has an electrical potential of 7,000,000 volts.

Work Is World-Wide

In atom-smashing experiments, this tremendous electrical power will be confined within a glass vacuum tube placed between the two spheres. Its function then will be to tear apart atoms of gases or metals within the tube.

Experiments in atom smashing are now going on in laboratories all over the world. Those particularly in the limelight include the ones at the California Institute of Technology, University of California, University of Chicago, Cambridge, England; Carnegie Institute of Washington, General Electric Company and Westinghouse Electric and Manufacturing Company.

GOVERNOR GIVES TALK

Outlines Activities of State At Vincennes Banquet.

By Times Special

VINCENNES, Dec. 6.—Activities of the various departments of state administration were outlined by Governor Paul V. McNutt in an address here last night at a banquet attended by more than 800 in Gibault auditorium.

Efforts toward re-employment, poor relief, sound banking, reduction of public utility rates and government economies were discussed by the Governor.

Statistics prove that it is twice as dangerous for a pedestrian to cross an intersection diagonally as it is to cross with the light.

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RUGS, DRAPERIES, CARPETS
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Contract Bridge

Today's Contract Problem

North is playing the following hand at four spades. It looks as though declarer must lose to the ace of clubs, the ace of hearts, and the jack and nine of spades. How can the hand be played so that only three tricks are lost?

♠ 10 8 7 6 4 3
♥ K Q 8 3
♦ 6
♣ J 9 5 2
A 9 8
9 5 2
Q 8 5

W E
S Dealer
N 10 6 4
E 10 4
S A J 10
9 7 4

♠ A K
♥ K 7 5 2
♦ A J 7 6
♣ K 3 2

Solution in next issue. 28

Solution to Previous Contract Problem

BY W. E. MCKENNEY
Secretary American Bridge League

I had an interesting bridge discussion today with my good friend, Henry P. Jaeger, popular contract authority of Cleveland. We were discussing squeeze plays.

I believe Mr. Jaeger has more squeeze plays in his files than any other contract authority. That has been his hobby. He expects to publish them in book form this winter.

Today's hand is one of his best. When East opens the queen of diamonds, the declarer can see that there is nothing to making his contract if the heart suit will break. However, if this suit will not break, he will have to depend upon some kind of squeeze play to produce his contract.

Therefore Mr. Jaeger, in the North, decided not to win the first diamond trick. It was going to cost him nothing, since he still could get a discard of his losing three of clubs on the ace of diamonds, and

♠ K Q J 9 6 2
♥ 7 4 2
♦ 2
♣ A 3

♠ 8
♥ J 9 8 5
♦ K 8 3
♣ K 9 8 4 2

W E
S Dealer
N 7 5 3
E 9
S Q J 9 6 5
♣ Q J 6 5

♠ A 10 4
♥ K Q 6 3
♦ A 10 7 4
♣ 10 7

Duplicate—Both sides Vul.
Opening lead—♦ Q.

	South	West	North	East
1♥	Pass	1♠	Pass	
2♠	Pass	3♠	Pass	
3 N.T.	Pass	5♠	Pass	
6♠	Pass	Pass	Pass	

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this might be the development of a squeeze play for him.

The four of diamonds was played from dummy. West played the encouraging eight. Mr. Jaeger, in the North, played the deuce.

EAST played the six of diamonds, dummy played the seven. West went up with the king and North trumped with the deuce of spades.

Mr. Jaeger now ran off the trump and the three good hearts, winning the last trick in dummy and bringing the hand down to the following:

North held the seven of hearts and the ace and three of clubs. South held the ace and ten of diamonds and the ten of clubs. West held the jack of hearts and the king and nine of clubs.

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Don't let them get a strangle hold. Fight germs quickly. Creomulsion combines the 7 best helps known to modern science. Powerful but harmless. Pleasant to take. No narcotics. Your own druggist is authorized to refund your money on the spot if your cough or cold is not relieved by Creomulsion.—Advertisement.

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in the entire territory west and north of Chicago, St. Louis and the Mississippi River through to the Pacific Coast, including also all points on certain railroads in Illinois, Mississippi and the western parts of Indiana, Kentucky, Tennessee, Alabama and Florida.

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ONE WAY TICKETS—
2¢ a mile in coaches and chair cars—44% reduction.
3¢ a mile in all classes of equipment—16% reduction.

ROUND TRIP TICKETS—
2¢ a mile each way, short limit, in all classes of equipment—44% reduction.
2½¢ a mile each way, long limit, in all classes of equipment—30½% reduction.

Every Travel Comfort—
New Economies

These drastic cuts in rail fares provide new, low costs in travel... the existing luxury, comfort and high standards of service will be fully maintained.

Ask Any Agent for Details

East held the jack and nine of diamonds and the queen of clubs. You see, East had been forced to hold the jack and nine of diamonds to protect himself against Dummy's ace and ten of diamonds.

Now the ace of diamonds was led from dummy and first West was squeezed. He could not let go the jack of hearts, or declarer's seven would be good; therefore, he was forced to drop the nine of clubs.

North threw away the seven of hearts and East followed with a diamond. But now the ten of clubs was led from dummy and declarer won the last two tricks with the ace and three of clubs.

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RANDALL NAMED TO MASON POST

Irvington Chapter Elects
High Priest, Other
Officers.

Irvington chapter No. 158, Royal Arch Masons elected Arthur J. Randall high priest at a meeting in the Irvington Masonic temple last night. Mr. Randall succeeds Karl C. Wolfe.

Other officers chosen are Oscar W. Stoehr, king; Alden Davis, scribe; Ira A. Foxworthy, treasurer; Lex A. Cory, secretary; John F. Hoss, captain of the hosts; Ralph Guthrie, principal sojourner; Ralph Kennedy, Royal Arch captain; J. Willard Cordery, master of the third veil; Elmer R. Mullis, master of the second veil; Bloomfield H. Moore, master of the first veil; John D. Snedaker, guard, and the Rev. Guy O. Carpenter, chaplain.

Mr. Wolfe and Walter Wagoner installed the new officers, who will be inspected Jan. 13.

MARSHALL IS HONORED

Lafayette Publisher Named President of Exposition.

By Times Special
CHICAGO, Dec. 6.—Henry W. Marshall, Lafayette (Ind.) publisher, has been named president of the international livestock exposition.

Mr. Marshall succeeds John Clay, Chicago, who has been head of the exposition for many years, but who resigned because of advanced age. Mr. Marshall has one of the largest livestock farms in Indiana, specializing in prize Angus cattle.

TO ADDRESS DENTISTS

St. Louis Doctor Will Speak at Washington Tonight

Dr. Travis E. Kallenbach, St. Louis, will address the monthly meeting of the Indianapolis Dental Society Monday night, following a dinner at 6:30 in the Washington.

He will talk on "The Practical Application of Porcelain in Dentistry."

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Don't let them get a strangle hold. Fight germs quickly. Creomulsion combines the 7 best helps known to modern science. Powerful but harmless. Pleasant to take. No narcotics. Your own druggist is authorized to refund your money on the spot if your cough or cold is not relieved by Creomulsion.—Advertisement.

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2½¢ a mile each way, long limit, in all classes of equipment—30½% reduction.

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Ask Any Agent for Details

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On Useful Christmas Gifts

We Cash All Government Checks

Only 15 More Shopping Days Till Christmas

\$1.50 Armand's GIFT SETS
Face powder, perfume and rouge compact or large size face powder and compact. Beautifully boxed.

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Hand painted floral designs. Set.

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Women's Boxed 'Kerchiefs'
Fast color handkerchiefs—embroidered and fancy borders with hemstitched edges.

3 19¢
Main Floor
IN XMAS BOX

Adjustable Top, Full-Fashioned
SILK HOSIERY

• Irreg. of \$1 Quality
• French Heel • Cradle Foot
• Service Weights Included

• Matin • Friar Brown
• Ming • Jungle
• Greylite • Smoke Brown
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55¢
Pr.

Sizes 8½ to 10½
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Men's NECKWEAR
Polka dots, stripes, clipped figures and all over patterns in all new winter shades. Full shape, French ends.

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Men's Boxed 'Kerchiefs'
Fancy borders with rolled hems, solid whites. Full sizes.

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Infants' SWEATER SETS
Beet and sweater to match in assorted colors. Sizes 2 to 6.

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\$3.95 Gift Robes

Large assortment of attractive colors and patterns with silk cords and piping. Three pockets. Large, medium and small sizes. Christmas boxed.

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Double Suedette zipper jackets with elastic bottoms and 2 pockets. Full out. Sizes 6 to 20.

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Boys' ALL-WOOL MUFFLERS
All-wool fabrics in a large assortment of eye colors. Fringed ends. Full length and width.

49¢
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Boys' COWBOY SUITS
Chaps, flannel shirt, hat, jacket, handkerchief, gun and holster. Sizes 10 to 14.

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Second Floor
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GIRLS' PRETTY SCHOOL DRESSES

• 80-Square Prints
• Guaranteed Fast Colors
• Cute Pleated Effects
• Smartly Trimmed
• Adorable Patterns
• Delightful Styles
• Sizes 7 to 14 Years

79¢
Second Floor

Men's \$3.95 RAINCOATS
Black leatherette, tan leatherette and oxford jersey styles. Full lined with full belt. Sizes 36 to 46.

2.69
Main Floor

Women's 1st Quality Semi-Fashioned CHIFFON HOSIERY
New fall shades in all sizes. PAIR—

33¢
Main Floor

Children's 35c Rayon Platted Full Length HOSIERY
Choose from six new fall shades of tan. All sizes. PAIR—

19¢
Main Floor

WOMEN'S RAYON QUILTED BATHROBES

• Pastels & Black Rayon
• Large Shawl Collars
• One Convenient Pocket
• Silky Rope Girdles
• Smartly and Well Made
• All Regular Sizes

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"It's Smart to be Thrifty"

Free Delivery UNTIL CHRISTMAS!

Leader will deliver absolutely FREE any purchase, regardless of price, between now and Christmas.

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STEEL WAGONS

Sturdy built steel wagons with heavy disk wheels equipped with rubber tires.

\$2.89

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In person, will be at the Leader to Greet the Kiddies Daily. 10 to 12 A. M. & 2 to 4 P. M.

JOIN OUR 19c CHRISTMAS TOY CLUB

All you have to do is pay 19c down and pay the balance in small weekly payments until paid for. Take advantage of this club plan.

DESK STYLE Blackboards

36 inches high, beautifully finished in natural wood. Here's a good sturdy blackboard Thursday only—

59¢

LIONEL-IVES Electric Trains

Train outfits with transformer. Locomotive and 2 cars, 8 sections of track. Complete—

\$2.49
2nd Floor

Reg. \$4.98—27-Inch Mama Dolls

Movable head, arms and legs. Movable eyes, eye lashes and crying voice. Fully dressed. Pay only 19c down and a little each week until Christmas.

\$2.98
2nd Floor

WOMEN'S NOVELTY FOOTWEAR

• Black or Brown Kids
• Patent Leathers
• High & Cuban Heels
• Salesmen's Samples of \$3 and \$4 Shoes
• Sizes 3 to 8
• Smart Styles
• Thursday only, Pair

1
Main Floor

GIFT SLIPPERS

Women's Rayon D'Orsay SLIPPERS
Green, blue, rose or red bows to match any robe. Cuban heels all sizes. PAIR—

59¢
Main Floor

Men's FELT SLIPPERS
Brown and gray with padded soles and heels. Many styles with leather tip. All sizes. PAIR—

69¢
Main Floor

Women's FELT JULIETTES
With hand turned leather soles and rubber heels, ribbed and fur trimmed. Grey, brown and blue in all sizes. PAIR—

95¢
Main Floor

Extra Specials FOR THURSDAY ONLY

P&G Giant Size Soap

Giant size white Naptha Laundry Soap..... 3 Giant Size Bars

10¢

36-In. UNBLEACHED MUSLIN

Regular 7½ yard value. Soft finish. Sale price Thursday..... YARD—

5¢
Limit—Main Floor

Infants' 79c Bathrobes

White, pink and blue, rayon trimmed.....

50¢
2nd Floor

J.&P. Coats Bias Tape

10c—8-Yd. bolts. Single and double fold. All colors. Irreg.

3 10¢
Main Floor

PART LINEN TOWELING

15 inches wide. Colored borders. Sale price Thursday..... YARD—

5¢
Main Floor

Children's Jersey Ski Pants

Heavy knit jersey in white, blue, red and tan. Sizes 2 to 6. PAIR—

79¢
Main Floor

LARGE BED SHEETS

Double bedsize 72x90. Bleached soft finish. Thursday only—

39¢
Main Floor

10c TURKISH TOWELS

Size 15x27 with colored borders. Sale price Thursday.....

6¢
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REGULAR 19c RAG RUGS

Size 18x36. Hit and miss patterns. Fringed edges, assorted colors.

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