

BODY IS LIKE SOLAR SYSTEM

Scientists Say Human Being Made Up of Electrons, Each With Nucleus, Like Sun.

By Robert S. Thornburgh.
(N.S. Staff Correspondent)

WASHINGTON. — The human body is made up of millions of infinitely small solar systems which operate virtually under the same laws of nature which regulate the revolutions of the earth and planets about the sun, according to eminent scientists at the United States Bureau of Standards.

If you should stick a pin in your finger it probably would penetrate the orbits of a half-dozen universes, all with their own little suns, planets, comets and moons revolving about a central nucleus.

Not only the human body but the structure of every animal, of every property of nature, placed under a magnifying glass of sufficient power, might yield up a picture and tell a story explaining that "master question" which inspired the words of the philosopher:

"There was a door to which I found no key.
"There was a veil through which I could not see;
Some little talk . . ."

Key to Progress

Dr. Paul D. Foote, chief of the atomic physics section of the Bureau of Standards, thinks that upon increasing knowledge of the properties of electrons, tiny particles of electricity revolving about a nucleus to make up the atom or miniature solar systems, will depend all future progress in chemistry.

"The electron is responsible for all reactions forming the basis of chemical industry," Dr. Foote said. Other scientists have ventured the bold assertion that the solution of the great problem of creation may be solved once masters of thought know just what is the electron.

"The place of the sun is taken by the nucleus in likening the atom to a small solar system," Dr. Foote explained.

"The nucleus is itself very complicated in structure, and around this revolve electrons in orbits similar to those of planets." The nucleus of these tiny systems has a certain electrical charge it was stated, charges which form an attraction by which a number of electrons can be held in orbits about it. There are scientific laws which regulate the number of electrons one nucleus can hold, depending upon its structure.

"If a large comet struck the earth, but not hard enough to knock it clear out of the solar system, it would move thereafter in a different orbit, and its years would be different," Dr. Foote said.

Resumes Position.

"But if a wandering electron strikes another electron in an orbit of an atom, the electron, if not knocked completely out, will return to its original orbit. And in this return it radiates an amount of energy in the form of light, X-rays, and other energy known to science."

It seems that these electrons in collision radiate energy of certain wave frequencies. This radiated light may be measured by a spectroscope. By these measurements scientists believe the structure of the atom may be determined definitely.

The chemical properties of matter may be determined by the position of electrons and their number. A hydrogen atom has one electron, for instance; helium, two; lithium, three; copper, twenty-nine and radium eighty-eight.

From these observations of Dr. Foote, it takes no scientist to appreciate the continued reaction that is going on with the human body. It doesn't seem unreasonable that a severe pain in the stomach, after indulgence in rich foods at late hours, might be attributable to a serious collision of the many solar systems of the chemical properties of food.

When one's system is all in a tangle, and gout and headaches and bad liver make life just one awful situation after another, physicians may be able to shoot a first-class electrical current thru the body, putting all these electrons and atoms and molecules back in their regular orbits and hence getting one back to the proverbial "normalcy."

The Bureau of Standards hasn't gone this far yet, however.

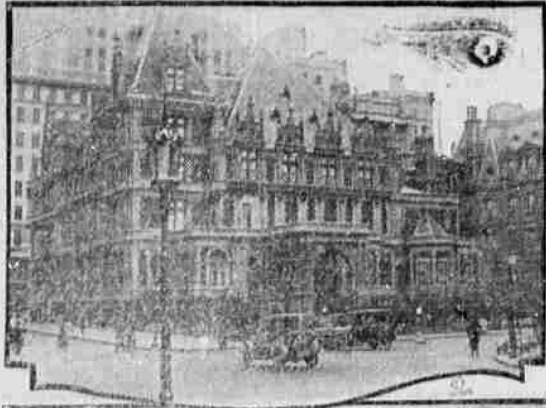
WOMEN EAGERLY SEEK D. A. R. MEMBERSHIPS

WASHINGTON. (AP)—So many women are applying for membership in the Daughters of the American Revolution that special facilities have been called into service to pass on membership petitions.

Recently the board of the organization held a special meeting here at which 15 new chapters, having a combined membership of more than 1,600 were granted charters. It is estimated that a total of about 1,000,000 women are eligible to be members, and officials of the D. A. R. predict that if the present rate is maintained most of the eligible will be brought within the organization within the next few years. The total enrollment now is approaching the 200,000 mark.

"With all the girls and sons that are being formed," said a statement issued from D. A. R. headquarters here, "it is very gratifying to the board to see women flock-

Old Landmarks to Go?



Those who have visited New York City will remember the two landmarks above. Top shows the Vanderbilt mansion at Fifth Avenue and 53rd Street, opposite Central Park. Below shows a row of quaint houses on West 40th Street, within stone's throw of the Gay White Way. They are a relic of "little old New York." Both are said to have been sold recently, and will be torn down to make way for skyscrapers.

ing to this old organization that stands for the best there is in American life, for upholding the constitution, for unswerving loyalty to the government, for encouraging the study of American history, and for carrying out the injunction of Washington—"to promote, as an object of primary importance, institutions for the general diffusion of knowledge."

Russian Concession Seekers Are Hard Up

MOSCOW. (AP)—Concession hunting in Soviet-Japan is a long and tedious job. Men spend months and even years at it. Everlasting patience is a prerequisite, and everlasting hope is the only thing that will see one through. Snappy American business men particularly chafe and fume over the countless delays, and one Norwegian who has followed his proposal in vain from his department to another for 12 months, calls it a game of "hotter, hotter, who's got the overcoat."

There are three principal steps, submission to Little Committee, submission to the Big Committee, and final submission to the Soviet of People's Commissars. During this process the concession hunter is almost certain to encounter an oriental love of bargaining and his accompanying disability in the possibility of any one being so naive as to say, the first time, just what he really means. Thus the game goes on, the hunters throwing out

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New York Shelters Province of Russia Within Its Borders

NEW YORK. (AP)—New York boasts foreign colonies from all the countries of the globe, but few New Yorkers know that within the confines of their great metropolis there exists an organized "Province" of the Russia of the Czar, firmly kept and efficiently directed by a governor general and a staff of provincial officers.

The province has no boundaries. Its headquarters shifts weekly from one east side meeting hall to another. Its exchequer is off-these-harbor, but the hearts of its citizens are rich in faith that some day they will again live on the soil of the Russia of their fathers.

Several hundred Russian men and women, driven out of their homeland by the Soviets and held together here by their patriotism, formed the provincial government. Many of the exiles had noble titles; others were officials of old Russia. Now many of them are day laborers and few are affluent.

Each Tuesday night they meet in a rented hall and revive memories of their days in Moscow and Petrograd. There are Russian songs and Russian dancing, speech es, poems and anecdotes.

The governor general is in charge. His staff constitutes a reception committee. Two generals laboriously draw up the curtains. Another former army officer is accompanier at the piano.

The scenes bring the audience back to the great opera houses in homes of the upper classes. Then an eloquent recites poems, describing the downfall of the old life, and a hush of bitterness and sadness falls over the listeners.

That the sad mood is dispelled when the lieutenant governor introduces two old Babushki in Constantinople describing the splendor of New York. Their roseate misconceptions of the new world make the hearers rock with laughter.

Then the "province" disbands and its members go back to the far from roseate reality of their lives in exile.

Beauty



Miss Sylvia Brainerd, daughter of Mr. and Mrs. E. C. Brainerd of Washington, D. C., is one of the season's most popular, and also most beautiful member of the younger set.

The hard part of diplomacy just at present, is Poincare's head.

FILM TO SHOW ORIGIN OF THE JEWISH CUSTOMS

SAN FRANCISCO. (AP)—Preparations are under way to produce a seven-reel motion picture showing the history and significance of the Jewish Month of Nisan. It is announced here by A. Gray, editor of the San Francisco Jewish World.

The film will depict the era beginning with the birth of Moses and ending with the crossing of the Red Sea. It then will unfold in story form the life of an American Jewish family that observes all the orthodox customs of the Jewish religion. The family will be shown to be "thoroughly Americanized," according to the announcement, and celebrating American as well as Jewish holidays.

The scenario is being forwarded to prominent Jewish pedagogues and educators throughout the country for approval or suggestions.

A school will be opened in San Francisco to train the cast, whose principals, said Mr. Gray, probably will be actors and actresses nationally known.

"In sympathy with this project," added Mr. Gray, "are 3,500,000 Jews in America."

Austria Makes Good Progress In Its Financial Regeneration

GENEVA. (AP)—The league of nations has received an encouraging report from Vienna on the progress of the regeneration of Austria financially. One of the features of the regeneration was an international loan, secured by the Austrian customs receipts and the tobacco monopoly.

The league's Vienna representative report that during October the receipts from customs and tobacco aggregated 275,900,000, 600 paper crowns, an increase over the average monthly receipts of 27,000,000,000 crowns.

If this income is maintained, the total of loans issued or arranged for will be three crowns.

Arctic Mails Slow But Sure

MINNEAPOLIS. (AP)—Four years ago Roald Amundsen, the explorer, mailed a letter in the far north to a friend in Minneapolis. After various adventures the communication reached its destination a few days ago, bearing on its face an epic of the postal service at the world's edge.

Eskimo carriers and dog teams who started with the letter, had succumbed to cold and starvation, and their mail pouch lay for nearly four years preserved by ice and snow until last summer, when a pale of Russians discovered it. They sent the letter to Amundsen's home in Norway, where his brother, Leon, forwarded it to the Minneapolis destination.



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