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MEDICAL SCIENCE

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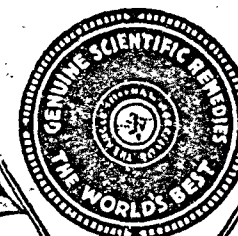
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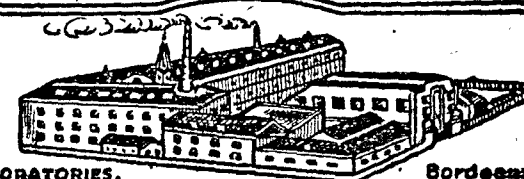
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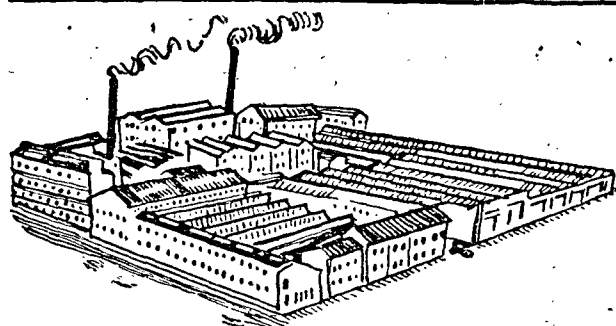
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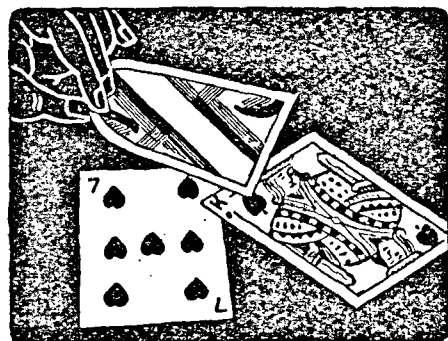
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MEDICAL SCIENCE

VOL. XII

JULY 1948.

No. 2.

THE GENIUS OF SAMUEL MORSE

KURT STEEL.

—: (o) :—

5 - AUG 1948

WHEN the United States declared war on England in 1812, Congress had no way of knowing that two days earlier Parliament had taken conciliatory steps that might well have averted war. A 21-year-old American painter who had recently arrived in London, was deeply impressed by this tragedy. He wrote to his family in Boston lamenting that it was impossible to communicate news "in an instant" across the Atlantic. For centuries men had had this dream of messages swift as thought, but it remained for the young American, Samuel Finley Breese Morse, to do something practical about it.

That Morse was primarily an artist—and a very fine one—has been obscured by his more spectacular achievements. Yet Morse himself regarded painting as his career, and with reason. He became internationally famous at 22, when one of his pictures placed among the first nine out of 2000 exhibited at the Royal Academy in London. He was one of the founders of the National Academy of Design, and served as its president for nearly two decades. In 1932, 60 years after his death, the Metropolitan Museum in New York honored his memory with a one-man exhibit of his work.

Morse was born in 1791. His father, Pastor Jedidiah Morse, was a friend of Presidents Washington and Adams. He

was also the author of *The American Universal Geography* and *The American Gazetteer*, two books which made the family name famous and provided money to send Samuel and his two brothers to college. Samuel wrote home from Yale University that he enjoyed all his studies, "especially Mr. Day's lectures on electricity," and he announced that he was spending all his spare time painting miniatures of his friends on ivory at five dollars apiece. The study of electricity was his chief hobby, and he constantly sought out scientists who were experimenting with the new fluid.

At first his parents were opposed to his making a career of painting, but when at 19 his work won the praise of the famous Gilbert Stuart, they let him study art in England. For a time after his return to America in 1815, Morse made a good living painting portraits. His finest, a portrait of his friend Lafayette, now hangs in the New York city hall. But in a few years his market almost disappeared during an economic-depression.

In October 1832 Morset was returning from a second visit to Europe. One night shipboard conversation turned to electricity, and the other passengers were amused when Morse wondered aloud "why intelligence might not be instantaneously transmitted by electricity to any distance." The idea pos-

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essed him like a fever for the rest of the trip, and all that he had learned in the study of his hobby now suddenly bore fruit. When he landed in New York his artist's notebook contained sketches of an instrument and circuit whose basic principles have not changed to this day, and whose simplicity still excites the admiration of technical men.

But Morse was still primarily an artist. A few months earlier the newly founded New York University had appointed him Professor of Sculpture and Painting—the first professorship in the fine arts established in America. He worked nights on a model of his Telegraph (he always used the capital T) but he spent his days in a studio finishing a great canvas begun in France. This was an ambitious picture showing the exhibition gallery of the Louvre with 37 master pieces by Murillo, Van Dyck, Correggio and others on the walls. With typical American energy, civic spirit and promotional zeal, Morse planned to improve the taste of his countrymen by exhibiting his picture in all the principal cities. But audiences were so slim that before long, on the edge of bankruptcy, he was compelled to sell it.

Another disappointment shook his faith in his art even more painfully. Four panels in the rotunda of the Capitol at Washington remained to be filled and Morse applied for the privilege of painting one, but his name was passed over. Discouraged, he gave up art and

turned all his intense energy to the development of his Telegraph.

By now he was living in his studio in New York University, too poor even to pay the rent of a bedroom, cooking his own meals to save money for his experiments. He had to make every single part he used—batteries, magnets, even the insulated wire for his circuits. For the receiving instrument he used a picture frame, with parts of an old clock to draw a ribbon of paper under a pendulum to which a pencil point was attached. The pencil point clicked back and forth, making a wavy line which could be read as dots and dashes.

Only two steps remained to complete the Telegraph as we know it, and Morse himself had the genius to add both. In 1836 he hit on the idea of the relay—using the transmitted signal in one circuit to open and close contacts in a second circuit, thus giving every dot-dash message seven-league boots to stride, circuit by circuit, across continents and around the world. The final step was the Morse code, in the perfecting of which Morse was assisted by his partner, Alfred Vail.

On January 24, 1838, in his studio in the University, Morse gave the first demonstration of messages in Morse code and began getting ready to show his work to Congress in the hope of Government support. But he had acquired three partners, and now as success approached he found himself invol-

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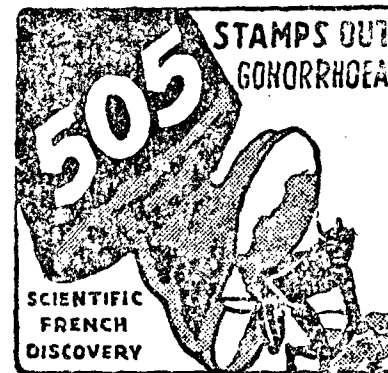
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ved in the beginning of an endless parade of feuds and suits with jealous claimants. "The condition of an inventor," he wrote sadly, "is, indeed, not enviable."

Five years of frustration were to pass before Congress voted money for an experimental telegraph line, and Morse turned to a new field, this time photography. In Paris he had become friendly with Daguerre, and in April 1839 he described Daguerre's work to the American public. Morse probably built the first camera in America; and with his help Professor John W. Draper made the world's first photographic portrait on the roof above Morse's New York University studio in December 1839. By 1841 Morse and Draper had reduced exposure time from five minutes to a matter of seconds, and Morse was conducting enthusiastic classes in the new art.

At last in 1843 Congress appropriated \$30,000 for the building of the first telegraph line—though many of the law-

makers considered the bill so silly that they tried to tack on an amendment diverting part of the money to the support of mesmerism. Morse, appointed Superintendent of U.S. Telegraphs, began to construct a 40 mile line from Washington to Baltimore. The first plan was to run the wires underground in lead pipe, and Ezra Cornell, who later founded Cornell University, invented an ingenious plow which in one operation trenched, laid and covered the cable. But when \$23,000 had been spent, Morse discovered that his wires could not be properly insulated for underground use. Anxiously he called Cornell into conference. They must stop the trenching, but if the public learned the truth before the problem was solved there would be a scandal. Cornell's Yankee ingenuity was equal to the crisis. He walked back to the plow, whipped up the eight yoke of oxen—and drove his beloved, machine into a boul-



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der, shattering it. The "accident" gave Morse an excuse to string the wires from poles.

In May 1844 the first line was completed and the famous message, "What hath God wrought," was sent to Vail in Baltimore during a ceremony in the Supreme Court chambers. The first use of the American device was to provide Washington with a blow-by-blow description of the Democratic convention in Baltimore, and when the delegates arose to shout, "Three cheers for James K. Polk, and three cheers for the Telegraph," its national reputation was made.

Morse wanted the Government to take the new invention and operate it, but Congress refused, and development of the Telegraph was left to private initiative. By 1846 a New York editorial writer could say proudly: "While England by her government has got with great labor 175 miles of telegraph into operation, the United States with her individual enterprise has now in successful operation 1269 miles."

As early as 1842 Morse had envisioned an Atlantic cable. Indeed, his own first experimental line was a submarine cable between the Battery and Governors Island in New York Bay. He himself laid it from a rowboat. There was to be a great ceremony at its opening,

and at daybreak Morse was down at the water front making sure all was ready. Suddenly looking out across the bay he saw the skipper of a fishing smack haul up the cable on his anchor, shake it angrily, and chop it off to let the severed ends drop. The ceremony that afternoon turned into a public jeering. For many years the scheme was derided, but finally Cyrus Field organized a group of financiers to underwrite the ambitious Atlantic project, and after three failures a successful cable was laid in 1866. Morse was for a time associated with the Field enterprise.

His tremendous energy carried him into politics and made him a vigorous participant in every national fight—almost always on the losing side. He was stubbornly opposed to the Civil War, and at the age of 73 he campaigned furiously against Lincoln's re-election.

Morse died in 1872 within a few days of his 81st birthday, grieving that his genius as a painter was not appreciated. The specific inventions for which Europe and America showered honors and wealth on him have been superseded by later devices. But his paintings grow more valuable every year and he is now ranked as one of the world's great portraitists. Nothing could have pleased him more.

INVENTORS WITHOUT HONOUR

PROFESSOR A. M. LOW.

—:(o):—

IN the House of Commons some time ago the Postmaster-General was asked whether he would consider dedicating a memorial to Marconi, as the inventor of wireless, at Penarth where the first transmission was made in Britain. The reply was that Marconi's wireless transmission was not the first at Penarth, for in 1892 Sir William Preece, Engineer-in-Chief of the Post Office, transmitted wireless messages between Penarth and Flat Holme.

If there is any memorial at Penarth, it seems it should be to Sir William Preece. Yet it is certain that ninety-nine people out of a hundred asked "Who invented wireless telegraphy?" would reply: "Marconi," and it is doubtful if the other one would mention Sir William Preece or the experiments of Hertz.

The plain fact, as with other important inventions, is that wireless telegraphy was "invented" by a number of different

men, each of whom contributed something vital, but for various reasons one name caught the public attention and its owner received all the honours.

Fifty years hence it is probable that one man will be known as the 'inventor' of radar and that the majority of the scientists who contributed will be forgotten. When we talk about the inventor of this or that, we should consider whether we mean the man who conceived the original idea, the man who built the first practicable apparatus incorporating it or perhaps someone who contributed a vital improvement.

RADIO AND RADAR

No one speaks of Sir Ambrose Fleming as the 'inventor' of broad-casting. But his invention in 1904 of the thermionic valve in which electrons are generated by a heated electrode paved the way to broad-casting. The invention of the magnetron by Professor J. T. Randall in 1940 was as important to radar as Fleming's valve to radio. The magnetron made possible the generation of the powerful pulses that are the secret of the radar devices which revealed the targets to our bombers and now enable merchant shipping to move in narrow waters in fog.

Inventions do not appear fully fledged from nothing, but are the result of continuity of thought and experiment, in some cases extending over a hundred years and involving scores of notable names. The 'background' to the invention of wireless was provided by the discoveries of men famous in the history of electricity, like Ampere, Faraday and Lord Kelvin—men whose names are commemorated in the very terms we use to define a current, instruments for computing its value and the very principles of magneto-electricity itself.

Clerk Maxwell discovered other waves 'mathematically' thirty years before Marconi, and Hertz in 1888 was the first man to send wireless signals. Professor Branly in France invented an improved coherer, by which feeble electric currents could be detected, and Sir Oliver Lodge and

Lord Rutherford devised improved methods of tuning when they investigated the whole subject of resonance and oscillation. Marconi was a man of genius who commercialised what was already invented.

There were many other inventors whose names today are quite unknown. In the eighties, for instance, Professor David Hughes constructed a wireless set—largely, it is said, out of his wife's work-basket—with which he successfully transmitted and received signals from his home in London. And there was the even more astonishing case of J. B. Lindsay, who 'wirelessly' in Dundee in 1853. A Dundee newspaper report of the demonstration said: "The experiment removes all doubt about the practicability of telegraphic communication without wires." But who remembers Lindsay?

Take another invention which has become a great industry with an annual 'turnover' of a hundred millions in Britain alone—the cinema. Recently we honoured the names of the Lumiere brothers on the occasion of the fiftieth anniversary of their famous show at the Polytechnic, when the 'cinema' was shown in public for the first time in Great Britain. But did the Lumiere brothers 'invent' the cinema? They certainly invented the name—their machine was called the cinematographe. But at least a dozen other men also 'invented' the cinema. The Americans have no doubt Edison was the inventor—he carried on law suits for ten years over the patents. There is no doubt that Friese-Greene preceded both Edison and the Lumieres, and Le Prince, the Frenchman who lived in Leeds, was even earlier.

CINEMAS OF THE PAST

But we can go even further back and find that round about 1850 Ducos du Hauron in France made a complete anticipation of motion pictures in a patent application and Heyl in Philadelphia built a motion picture machine which embodied the principle of the blackout between each picture when the next picture is

GLANDULAR THERAPY.

By Dr. A. F. De Saint-Croix.

Journal of Medicine, Feb: '37.

In the light of modern researches and extraordinary rapid progress in the direction of the use of ductless glands in the treatment of various diseases much is said and has been discussed.

This new principle in medicine has completely revolutionised the old time tonics.

Glandular therapy, the application of which dates back from 1889 when the pioneer of this branch of medicine, Brown Sequard, administered to himself testicular extract, is well known. To the amazement of himself and other physicians, the experiment proved a great success and a new chapter was opened up in the modern book of therapeutics.

Since that day, good many eminent scientists, notably Banting, Best, Murphy, Minot, and Serge Voronoff have experimented on various organisms including human beings, taking help of every available ductless gland found in the body.

Recently the new system has been perfected to such a degree, that surprising results have been recorded in books of medical statistics.

A good deal of information about the subject can be obtained from an authoritative publication put forward by Dr. E. Retterar, of Paris.

It is also a truth that the most forward medical men whose opinions are valued by

physicians of the whole world have personally carried out experiments, and have without reservation, put their stamp of approval on the system and advocated its tremendous possibilities.

It has been scientifically proved that the key to sexual weakness is Glandular Extracts obtained from the glands of bulls, and administered by the mouth in CAPSULE FORM.

Yet all the achievements of the system are reduced to nil if the glands selected are not of standard purity and if due care is not taken during the preparation of their compounds. The bulls selected must not be diseased and must be absolutely young so that all their ductless glands must be functioning with their proper physiological secretions. On strict and thorough pathological examinations, they should prove to be absolutely germ free and in a healthy condition.

The exact proportions selected from different glands is a matter of vital importance.

Another factor of great importance is the preservation and stability of these products. Absolute freshness is essential. The gelatine capsule is recognised as the best method of preserving freshness and therapeutic efficacy, as the vital gland substances are completely sealed in the gelatine envelope, and all possibility of deterioration is eliminated.

being moved into position, a pri which had to be 're-discovered' a quarter of a century later. The whirling praxinoscope also contributed and its inventor is reported to have lived nearly two hundred years ago!

In this apparatus, very popular about forty years ago, a wheel carries under its rim a series of pictures each showing a

further stage of movement. A slot is opened and covered alternately so that the eye does not see the pictures until each section is in place opposite the slot. Indeed, it might be said that in his work on optics Ptolemy in A.D. 130 very definitely suggests the possibility of continuing pictures in such a way as to suggest motion.

THE SCOURGE OF SYPHILIS AND GONORRHEA AND THE CURE.

From the Lancet. June 11, 1942.

Britain's figures of venereal disease have risen since the War. In 1940 the increase was 23 per cent over 1939. Proportionately this is better than the situation in World War 1, when the V. D. rate doubled, but it is no occasion for complacency.

Treatment was woefully inadequate between 1914 and 1918.

The short courses of treatment then in use were responsible for tragic developments a generation later. If left untreated, syphilis has a tendency to clear up. This is disastrously deceptive. The disease may lie dormant for years, then suddenly break out again.

Syphilis is not a new disease. It has been treated a thousand different ways since 1493, when Dr. Diaz de Isla climbed aboard Columbus's ships at Palos to treat sailors loathsome sick of the malady they had brought back from the West Indies.

Such things as China root and sarsaparilla have had their day, to say nothing of a medley of things like powdered serpents and even toad's spittle. It was not until March 1905, that science began to get at grips with syphilis.

In that year a bushy-bearded German named Fritz Schaudinn was ordered by Berlin's Imperial Health Office to make laboratory tests of a germ which was suspected of causing not only small pox, but the great pox. He got positive results, named the germ "the pale horror" because it could scarcely be seen, even under a microscope.

Another discovery in 1907 brought August von Wassermann's fixation test, which to this day is the doctor's quickest, most practical test for the disease: Three

years later Paul Ehrlich made the discovery which beat syphilis down from astronomical figures to something within reasonable understanding. This was "606"—salvarsan.

In 1936, Dr. Pierre de Sadalan evolved oral treatment, which he called after his name. Two years later, in January 1938, Neo Sadalan made its appearance, being the new and improved formula of Dr. Pierre De Sadalan, that clinches the fight even in long-standing cases.

The rate of cures in primary cases is 86 per cent and in secondary cases 81 per cent, every cure is complete and permanent.

It is the best treatment and is convenient and absolutely safe to use.

Quick disappearance of symptoms often inclines the sufferer to believe he is cured, and he stops treatment with tragic results.

In its primary stage syphilis is not painful; the secondary stage includes a rash, which may cover the entire body. Loss of hair in spots over the scalp is common. The third and fourth stages can be anything from heart trouble to general paralysis and insanity.

Syphilis is generally regarded as the aristocrat of diseases, but gonorrhoea is considered a social disgrace. More prevalent in its ravages, but far less horrible in effect, it has been completely conquered by modern medicine.

The "MAGIC BULLET" in gonorrhoea's treatment is "505" Mixture and Injection.

It is made to the formula of Dr. Edouard Pavy, the eminent specialist in venereal disease. This is the finest treatment and always effects a permanent cure.

SALONA Haemoglobin Compound. The best remedy for all forms of Anaemia. Used by St. Mary's, Queen Charlotte's and Guy's Hospitals. Enriches the blood and makes more blood and arrests anaemia at every stage. Each bottle contains 24 Capsules and	the dose is 1 capsule, thrice daily immediately after meals. Per bot. Rs. 4-8. 3 bots. Rs. 12. Anti-Constipation Tablets. Highly efficacious. Made in England, to formula of Sir Leonard Clark. Per bot. Rs. 3-8-0 3 bots. Rs. 10.	"Uranol" Backache, Kidney and Bladder Pills. Cures Kidney affections and bladder weakness. Removes stone in the bladder, etc. Per bot. Rs. 3-8. 3 bots. Rs. 10.
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Dr. Edward Jenner.
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Sir James Simpson.
Discovery of Chloroform. Thus made possible painless operations.



Dr. Semmelweis.
Discovery of the cause and prevention of Puerperal Fever in pregnant women and thereby saved millions of lives.

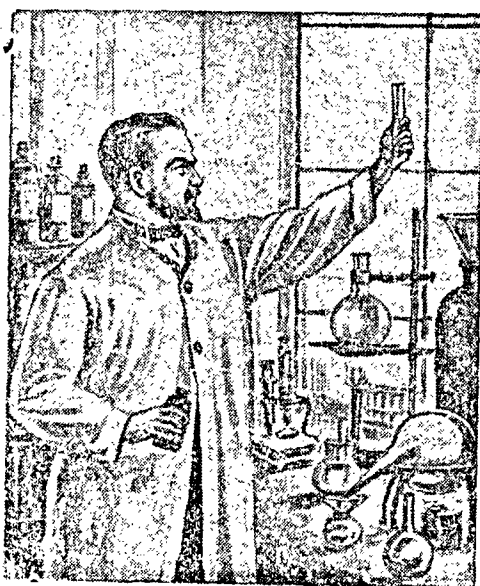


Dr. Eijkman.
Discovery of the cause and cure of Beri-Beri.



Dr. Louis Pasteur.
Discovery of preventive treatment for Rabies, Anthrax, etc. Proved existence of germs.

With an Idea and Determination... HE REVOLUTIONISED MEDICINE!



In 1889 Professor Charles Edouard Brown-Sequard, the famous scientist, made his epoch-making discovery, when he administered to himself glandular extract in his laboratory in Paris. To the amazement of himself and other physicians, the experiment proved a great success and a new chapter was opened in the modern book of therapeutics.

His life was a great one....most of it spent in a littered laboratory conducting ceaseless experiments. Never did a man work so hard—and succeed so brilliantly!

Professor Brown-Sequard's discovery is mentioned in authoritative medical books on the subject.

Prof. BROWN-SEQUARD, making his great discovery.

The harnessing of physical and chemical forces, which has produced our modern rapidity of travel and communication; steam, electric power, telegraphy, and the conquest of the air, affect our lives profoundly. And yet it may well be that biological knowledge and its many applications to the control and cure of disease and, above all, its elimination and prevention, have done far more to lighten the burden under which mankind struggles and to raise the level of civilization.

The great progress of medical science and the rapid strides it has made in the last hundred years have saved countless lives, prolonged and alleviated many others, and given us all a better chance of expanding what personal talents we have and of making the best of our time.

Humanity is beginning to see how to live.

All this is due to those men—Benefactors of Mankind—who have elucidated for us the immutable laws which underlie our functions. By no means the least of these was the immortal discoverer of Gland Therapy—Prof. Brown-Sequard, the famous French Scientist, for it is not difficult to see how he provided a sure basis on which modern science could build with confidence and success.

Although many lives have passed in the contemplation of Nature, attempting with infinite patience to solve the problems which she presents in such profusion, few philosophers have succeeded in making such a fundamental and far-reaching discovery as that of the function of the human glands.

It is not too much to say that enunciation of this principle revolutionised medicine and set it firmly upon a rational footing. So much was made clear and so many vistas were opened that it would seem that this conception was a lever powerful enough to set in motion those trains of scientific experiment and research which have brought us to our present state of knowledge and still gathering speed and power, lead us confidently to hope for yet wider and deeper understanding of natural laws, in particular those which govern the great mystery of Life itself.

Gland Therapy is no myth. Some of the highest medical authorities in Europe and America believe in the curative efficacy of gland treatment for sexual weakness and other ailments.

PAKISTAN

Pakistan customers are requested to note, that when ordering any products or goods from the Bergeret Laboratories (India) Ltd, Post Box No. 148, Broadway, Madras, Should send 50% of the value in advance by Bank Draft. As if the V. P. Parcel is returned we have to pay heavy customs duty.

SPOTLIGHT ON THE REDHEADS

By H. C. NORRIS

YOU know how it is with red heads. They know what they want and almost always get it. Redheaded persons have strong personalities. They are impulsive, intelligent, aggressive, imaginative and temperamental to a degree. Sometimes they lack discretion but never courage. And now, at long last, science has discovered what makes redheads redheads.

It's (C15 H20 N2 O9) 2 Fe2. Which, translated, is trichosiderin, an organic compound of iron. The redness of human hair, if it is not dyed is proportional to the amount of trichosiderin it contains. And, researchers emphasize, the newlyfound compound, contained only in red human hair, is responsible for degree of colour alone.

Two scientists from the University of Chicago's Department of Medicine—Dr. Peter Flech and Dr. Stephen Rothman—made the discovery of trichosiderin after extensive on virtually every shade of red hair. Just the other day they demonstrated their findings at the National Chemical Exposition, held in conjunction with a meeting of the American Chemical Society in Chicago.

While the new discovery scarcely can be termed earth shaking, it is a fact that the quest for a scientific explanation of red hair has been going on for centuries. In view of the evidence that history teems with such Titainhaired as George Washington, Napoleon Bonaparte, William Shakespeare, Thomas Jefferson, Andrew Jackson, Lord Nelson and Cleopatra, there has been age-old conjecture as to why red-heads are redheaded. The Egyptians believed that a man or woman with red hair had been marked for distinction by the sun god. Roman philosophers in the time of Nero advanced the theory that red hair was an indisputable mark of mental brilliance.

A few years ago a chemist named Arnold reported on acid-soluble pigment which he had obtained from human hair by boiling it for some days in hydrochloric acid. His conclusion was that the pigment probably was an oxidation of melanin, the brown-black pigment which gives color to all hair.

Now, Dr. Flesch and Dr. Pothman declare that the iron-containing trichosiderin definitely is distinct from melanin. They point out that, whereas melanin is to be found in the hair of every human, trichosiderin is peculiar only to redhead.

The scientists found it no easy task procuring enough genuine red hair for their experiments, which were begun in 1939 and interrupted by Dr. Flesch's service in the Army during the war. They had the co-operation of the United Master Barbers of Illinois, as well as that of the Journeymen Barbers, Hairdressers and Cosmetologists' International Union of America, which meant that barbers and operators of beauty shops from Maine to California carefully swept up clippings of red hair and forwarded them to Chicago.

The researchers found that the average single hair-cut yielded 6 to 7 grams of hair. This in turn yielded 2 to 3 grams of trichosiderin if the hair was a brilliant red, considerably less as the brilliance diminished.

Altogether, Dr. Flesch and Dr. Rothman collected 2½ pounds of red hair of varying hues for their experiments. At first they were careful to keep individual cuttings separate; then, finding that the same red pigment appeared in varying amounts in all red hair, they pooled the lot and worked with samples of from 10 to 175 grams at a time.

It was found that 100 grams of Titian-red hair yielded from 40 to 60 milligrams of dry pigment. The yield from other shades was dependent upon the intensity of their reddish hues. To make certain of the validity of the experiments, the researchers carefully checked each individual shipment of hair against known naturally-red locks, since hair that has received a henna treatment contains no more trichosiderin than the stuffings of your sofa.

Not only did Dr. Flesch and Dr. Rothman subject human red hair to the scientific eye, but also they tested various animals with red coats. Hair from a horse, a dog, cat, a rabbit and a fox were checked, but none of the sought-for pigment was found.

SCIENCE

11

Last year, the experimenters evolved a definite technique for extracting trichosiderin from hair. First the hair is soaked in chloroform for 12 to 24 hours. After it has dried in the air, it is immersed in acetone for two hours, then in glacial acetic acid for 16 hours, then boiled in hydrochloric acid for 2 hours.

The pigment appears to be deposited in the central part of each hair as tiny granules which normally are invisible under the microscope, but which can be shown to exist. Paradoxically, it contributes little to the actual color of the hair. But, without it, there wouldn't be a natural redhead in existence. And, according to Dr. Flesch and Dr. Rothman, discovery of the iron pigment found only in red hair may lead to a new approach to the study of cosmetics.

Not so many years ago "Gentlemen Preferred Blondes." Now they clamor for redheads, according to Walter Thornton, who directs a large agency for photographers' models. With the development of color photography and technicolor films, flaming red hair and pale skin give greater contrast and more artistic photographs than either blonde or brunette.

"But preserve me from synthetic red-heads!" Thornton exclaims. "I can tell them at a glance because they lack the pep, personality and glamor of the natural sorrel-top. You can dye the hair—but not the soul."

Lee Bostock, a famous model, who doubles as a New York advertising agency junior executive, has hair the color of a Turner sunset. Miss Bostock, educated at Boston University, says she would not want it otherwise.

"It's terrific fun, being a redhead," she declares. "But it's not the simplest thing in the world. It's much more complex than being either a brunette or a blonde. Of course, I mean of natural red hair."

The redhead is an individualist. Regardless of the current color trends, she follows her own color scheme, both in make-up and clothes, which she has developed by the trial-and-error method. Somebody once said that a redhaired girl always seemed to be walking in the sunlight. That's like always being in the spotlight.



MEDICAL HUMOUR

The Doctor's Funnybun

Hell Is How You Find It

A woman social worker called on a poverty-stricken housewife with a brood of dirty, hungry children and a drunken husband. A woman-to-woman talk ensued, during which the poor mother unfolded her miserable story—hunger and privation, two boys headed for the reform school, and a drunken husband who loafed and stole the rent money. To make the unfortunate woman more comfortable, the social worker had confided a few minor details of her own personal life, including the fact that she was a spinster.

Hearing of her visitor's unmarried state, the housewife was filled with pity and compassion.

"Oh, deary," she sobbed. "I can feel for you. Ain't it hell to be an old maid?"

"Did you ever hear anything so wonderful?" asked the daughter as the radio ground out the final notes of the latest bit of swing.

"Only once," replied her father, "when a truck loaded with empty milk cans hit a freight car filled with live ducks."

First Man: "Where in hell have I see you before?"
Second Man: "What part of hell are you from?"

Ahora, Madrid

How to Educate a Professor

A student and a professor were sharing a seat on a train. Tiring of conversation, the prof. suggested a game of riddles to pass the time.

"A riddle you can't guess, you give me a dollar and vice versa."

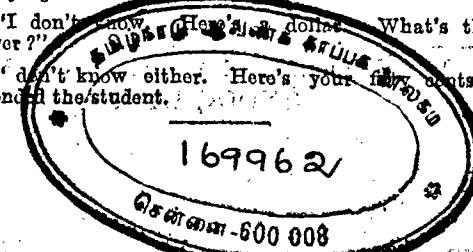
"O.K.," agreed the student, "but you are better educated. I'll only give you fifty cents."

"All right," consented the professor. "You go first."

"Well, what bird has four legs swimming and two legs flying?"

"I don't know. Here's a dollar. What's the answer?"

"I don't know either. Here's your fifty cents," responded the student.



"THE CHOICE OF THE EXPERT"

STEP by STEP

PERFECT VIRILITY

NORMAL RETENTIVE POWER

FULL REGULAR ERECTION

NATURAL FEELING

PARTIAL IMPOTENCE

REVIVED GLAND ACTIVITY

COMPLETE IMPOTENCE

Where do YOU
stand on the Ladder?AND
GREATER VIRILITYWhether you stand
half way up or right at
the bottom, Endophon
will cure you completely
and permanently.

What Endophon IS

Endophon is a genuine gland preparation,
containing the vital gland extracts in a
fresh, fully active form, sealed in
gelatine Capsules.

What ENDOPHON Does

If completely Impotent, Endophon will
gradually impart to your weak, enfeebled
glands those Very Substances that they
lack, and revive them into New Activity
giving Partial Erection in two weeks.STEP by STEP, slowly but surely
Perfect Virility is obtained.ENDOPHON gradually strengthens the whole sexual system and restores Perfect Sex Health
and increases Virility. Premature Ejaculation and Feeble Partial Erection is replaced with
Normal Retentive Power and Full, Regular Erection, and Complete Impotence is replaced
with Natural "Feeling" and Full Ability.

Thus, STEP by STEP, permanent and perfect virility is the final result.

SOLD IN TWO KINDS

Endophon No. 1 for Premature Ejaculation or Partial Impotence.

Endophon No. 2 for Feeble Erection or Complete Impotence and
Sterility.Endophon is Manufactured by BERGERET LABORATORIES. It is
now sold by Course Treatments to suit requirements. (See bottom
of page 13.)

Price: 1 bot. Rs. 9.8. 3 bots. Rs. 28.0. 5 bots. Rs. 46.0.

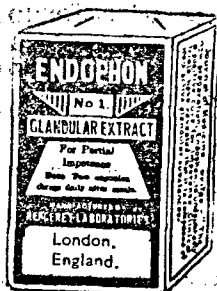
Large Bottle Rs. 18/- 8. Rs. 54/- 5. Rs. 90/-

Tele. Codes: 3 bots. No. 1 'Entrax' 10 bots. No. 1 Half-One. Rs. 90/-

5 bots. No. 1 'Entron' 20 bots. No. 1 Course-One. Rs. 175/-

3 bots. No. 2 'Enjex' 10 bots. No. 2 Half-Two. Rs. 90/-

5 bots. No. 2 'Enjexor' 20 bots. No. 2 Course-Two. Rs. 175/-

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(INDIA) LTD. Post Box No. 148, BROADWAY, MADRAS.

"THE CHOICE OF THE EXPERT"

READ WHAT CURED PATIENTS SAY.

Mr.—(Nagpur) ".....Endophon is all that you claim it to be. I have taken the full course and am
now O. K. You have my permission to print this in a confidential manner, as I would like those who are in the
same predicament as I was to benefit by using a really fine remedy....."Mr.—(Assam) "...I have finished the course of Endophon No 2 and with much gratitude I inform
you that it has cured me completely....."Mr.—(Calcutta) "...When I first started taking Endophon No 2, it did not do me any good. I had taken
it for two weeks and was disheartened. I thought of the old adage: 'A fool is born every minute' but my friend
who recommended Endophon to me said that Rome was not built in a day, and I decided to complete the course.I am now happy to tell you that it has cured me thoroughly. I am a wise man, indeed, to have taken
your genuine remedy, Endophon....."Endophon is not similar to Dr. M. Stopes
Prescriptions for Impotence, but entirely
different, and now recognised by

- (1). *Gazette Medical of France.*
- (2). *Institute of Scientific Research and
Development. (Berlin).*
- (3). *Journal of Medicine. Paris.*

as the most efficacious remedy for the cure of
Impotence, of functional origin. Moreover, it is
now manufactured in **CAPSULE FORM**—the
best method to preserve full curative efficacy.READ THE OPINIONS OF
THE MEDICAL PROFESSION
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is highly efficacious. Please
send three dozen bottles
of No. 2..."Dr. A. G. WRIGHT.
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patient with complete
success..."Endophon is Now manufactured by **Bergeret Laboratories.** by
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Sexual Weakness. Only 100 % fresh Gland Extracts are used, which directly
after manufacture, are sealed in tasteless gelatine capsules.These capsules are the only effective means for preserving the efficacy of the
Gland Extracts. There is no deterioration.

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Mr.—(writes). ".....I
have read about Endophon and
would like to give it a trial.
Please, therefore, send me six
bottles of Endophon No. 1. If it
does me good, I shall complete
the course. I've had this trouble
for five years for being such a
fool when I was young, which I
bitterly regret....."

Later.....

".....Endophon has made me
a new man. I feel twenty years
younger....."We have such faith in the Curative Efficacy of Endophon,
that we Guarantee it to cure you permanently.A complete course of Endophon No. 1 for Premature Ejacula-
tion is four months. And a complete course of Endophon No. 2
for Feeble Erection is four months, each comprising 20 bottles.
The cost of each course if ordered in one lot, is Rs. 175/- Postage
and Packing etc. is extra. There is a reduction of Rs. 15/- on the
single bottle cost.A complete course of Endophon No. 2. (for complete Impo-
tence and Sterility) is six months, comprising 30 bottles, and the
cost is Rs. 260/- only.The treatment is supplied under the Firm's bon-fide guarantee;
and in case it fails to cure, The full cost paid will be refunded.

Order to-day a complete course and obtain a permanent cure.

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EASTERN HEAD OFFICE:—Post Box No. 148, BROADWAY, MADRAS.

GIVES EXCESSIVE POWER INCREASES ERECTION PROLONGA PROLONGS UNION EFFECTS DOUBLY PRESERVED UNTIL CLIMAX. A GENUINE PRODUCT

FULL ACTION LASTS FOR ONE HOUR

This wonderful remedy prolongs the period considerably.

A dose is sufficient to increase feeble erection to full and complete powerful erection. After satisfaction is obtained a second erection is easily procured in a few minutes.

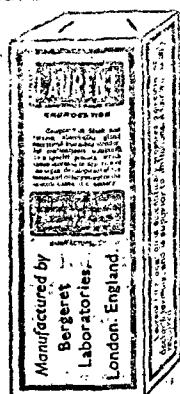
Special. 1 bot. Rs. 12-8. Tele Code "Pro"
Super special. 1 bot. Rs. 17-8. Do. "Prolong"

The Wife's Friend **"RENNARD'S"** Double Strength
Chinosol Soluble Pessaries.
An Excellent method of Birth Control.
Price per box (12 Pessaries) Rs. 3-8. 3 boxes. Rs. 10.

REXOL Anti-Sensitive Solution.
Recommended for use with Endophon No. 1. Prevents Premature ejaculation by removing excessive sensitiveness. It is not drastic, so harmful to this delicate part, but gentle and sure in its action.
1 bottle Rs. 3-8-0. 3 bottles Rs. 9. 6 bottles Rs. 17.

LA PAREE OIL. A Powerful Aphrodisiac. Can be used safely as a temporary measure.
Applied on the 'part', it immediately produces strong 'feeling' and desire. It gives intense power to the 'part'. Warranted harmless. Made to a special formula.
Price per bottle of 4 ozs. Rs. 25-0-0 only.

LAURENT EMBROCATION.
Develops and Strengthens Under-sized, weak or strained 'Parts'



This remedy should be used when that 'part' has become weak, strained or is undeveloped. It tones the cells and nerves, and increases the size, removing strain and causes development of the testes and also enlargement of the erectile tissue, if necessary.

Laurent Embrocation owes its remarkable efficacy to its original formula. It contains special 'absorbable' gland secretions and other wonderful medicaments, especially good for under-sized, shrunken or weak 'parts' Three to six months use is guaranteed to produce full results. Avoid worthless imitations!

Manufactured by **Bergeret Laboratories** according to the original formula of Dr. Henri Laurent, formerly first physician of the Fouquet Hospital, Paris, (France).

Prices: 1 bot. Rs. 7-8-0. A month's trial course, 6 bots. Rs. 42-0-0. Tel. Code. "Large" 3 months course, 18 bots. Rs. 120-0-0, if ordered in one lot. Tel. Code. "Largest"

TASTELESS ENDURET TABLETS

For women only
A Genuine Product

These tablets can be safely taken in tea, coffee or wine etc. without the fear of detection as it is absolutely tasteless.

The action of a dose is sufficient to remove Coldness, Frigidity, etc., as it increases response immensely.

Furthermore these tablets can be taken by the most delicate person, as they are not harmful and do not cause bad after effects.

SPECIAL Tele Code
(Double Strength) 1 bot. Rs. 12-8 "End"
EXTRA SPECIAL Tele Code
(Treble Strength) 1 bot. Rs. 17-8 "Endur"

RENOCAL PILLS

For Ladies irregularities. Very effective. No. 1 for early cases and No. 2 (Double Strength) for obstinate cases.

Prices: No. 1 Rs. 10. per bot. No. 2 Rs. 15. per bot.

Testimonial.

Mr. ——— writes:—"Your Laurent Embrocation is very good. The 'part' is now normal in size. I used only eight bottles."

De Vecin Capsules.

A Powerful, Safe Aphrodisiac
Acts in a few hours.

Those who require a safe Aphrodisiac, as a temporary measure, will find these Capsules highly satisfactory. They act in a few hours, and create desire and full ability. Can be taken by either sex.

(Strong). Rs. 10-0 per bottle.
(Extra Strong). Rs. 12-8 per bottle.

This is thrice as strong as the ordinary strength and is recommended for use where immediate effect is desired.

OBRACON-Aphrodisiac Tablets. (Special Strength)

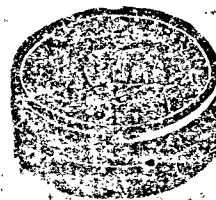
These tablets are very powerful, and have an almost instantaneous effect. They enable a completely impotent man to have satisfactory union. Warranted perfectly safe, as a temporary measure.

A British Product.

Made by **Robert Ferber, Ltd. (London).**

Sold in phials. Rs. 15-0 a phial.

OUR CONSTANT AIM IS YOUR COMPLETE SATISFACTION.



CAMILLE

PREVENTATIVES.

Beautifully Soft and Skin-Like—Unnoticed in use.

"CAMILLE" Silk Finish Preventatives are of the highest standard of quality. They are famous for their wonderful skin-like texture, extraordinary strength, and fine elasticity. They are practically transparent, and so marvellously thin that they are not felt when used.

Prices:—1 doz. Rs. 25. 1/2 doz. Rs. 13. 1/4 doz. Rs. 7. Tele Code. 1 doz. "Excel" 1/2 doz. "Excelled"

Thinnest Quality **AMERICAN TIPS.** Skin-Like Texture

The American Tip has been specially made to suit the requirements of those who desire natural union, with full protection. It is quite different to the ordinary preventative, as it covers only the G. P. (tip of the private)

PRICES:—1 doz Rs. 20 1/2 doz Rs 11 doz Rs 6 Tele Code 1 doz. 'Tip' 1/2 doz Tippe

FRENCH TICKLERS

These Preventatives are greatly appreciated for the 'feeling' they give during use, caused by the rubber 'feelers' or 'ticklers' attached at the closed end. They induce passion in Frigidity and effect a proper adjustment in unequal sex relations.

Prices:—1 doz. Rs. 25. 1/2 doz. Rs. 13. 1/4 doz. Rs. 7.

WHIRLING SPRAYS. An excellent vaginal flushing-out apparatus for Ladies with forward and reverse current. Simple to use. Guaranteed to last for two years. Price Rs. 12-8.



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These Preventatives are just like human skin in appearance and texture. They are consequently, most natural in use, and give that 'feel' that is so much desired. (Teat end.) (Washable.)

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The "FRIVOLA" Preventative.

Very Unique. Absolutely different to all others.

Recommended for frigidity and for effecting a proper adjustment in unequal sex relations.

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RUBBER PESSARY.

THE SAFEST METHOD OF BIRTH CONTROL.



This is the latest and most improved Pessary. Its unique design gives full comfort and eliminates all risk of leakage. Three sizes 1, 2, 3. Solid rim.

Price Rs. 6. 3 Rs. 17.

REEVE'S HAIR RESTORER. Safe and Sure

Not a Dye. Not a Dye.

A few applications and greyness vanishes.....your hair becomes its natural colour, with a glossy softness to be admired. It cleanses the scalp and invigorates the roots. It prevents Dandruff and stops the hair from falling out. It cures partial baldness permanently. 1 bot. Rs. 5-8. 3 bots. Rs. 15. 6 bots. Rs. 28.

UNIQUE DESIGN PASSIONETTE MUTUAL EFFECT

These Preventatives have small, round disc-like protrusions near the closed end, and should be used after the application of vaseline over the closed end. Recommended to remove frigidity and for mutual satisfaction. Promotes a proper adjustment.

Prices:—1 doz. Rs. 25. 1/2 doz. Rs. 13. doz. Rs. 7.

The "CROCODILE" (WASHABLE) Preventatives.

Prices:—1 doz. Rs. 25. 1/2 doz. Rs. 13. 1/4 doz. Rs. 7.

The New Silk "NINON"

THE NEW LIQUID LATEX PREVENTATIVES.

Being very light and exceptionally strong, they are a boon to persons suffering from nervous disorders, as sexual relationship is rendered quite natural.

Prices: 1 doz. Rs. 25. 1/2 doz. Rs. 13. 1/4 doz. Rs. 7.

"ENDURANCE" (Washable) SHEATH.

To use the "Endurance" Sheath is to use the finest Sheath, for it gives absolute satisfaction.

The "Endurance" Sheath will not burst in use, like other cheap makes, and is guaranteed to last for one year. Price: 1 sheath Rs. 7-8. 3 Rs. 21.

Three sizes. Small, Medium & Large.

SAMPLE PACKET No. 1.

CONTAINING DIFFERENT TYPES OF PREVENTATIVES FOR Rs. 15/- Only.

AS FOLLOWS:—
1 Camille 1 Vesta Skin
1 Neverrip 1 Thais
1 American Tip (Washable) 1 Crocodile
1 French Tickler 1 Passionette
1 Ninon 1 Frivola

FREE—1 Packet Preservative Powder.

SAMPLE PACKET No. 2.

CONTAINING FOUR SUPERFINE PREVENTATIVES

AS FOLLOWS:—
1 Passionette 1 French Tickler
1 Crocodile 1 Frivola
RS. 7-8 PER PACKET

SAMPLE PACKET No. 3.

CONTAINING FIVE SUPERFINE PREVENTATIVES

AS FOLLOWS:—
1 Camille 1 Neverrip
1 Ninon 1 American Tip (Washable)
1 Vesta Skin RS. 7-8 PER PACKET

A Packet of Preservative Powder is supplied free with each packet.

PANCRE-VITE

THE ORAL INSULIN COMPOUND
FOR **DIABETES**

MANY IMITATIONS - BUT NO EQUAL



Diabetes, a dread disease, was formerly considered to be incurable. But it can now be cured with Pancre-Vite, the New Scientific Oral Insulin Remedy.

Pancre-Vite is a powerful remedy for Diabetes. It is a combination of all the active derivatives of the pancreas which control carbohydrate metabolism together with the specific proteins necessary for regeneration of the pancreatic tissues.

Chronic cases have been successfully treated by the oral administration of Pancre-Vite. It lowers sugar to normal. Aids digestion—increases weight and strength—positively makes the patient fit and healthy, as no other remedy can.

Pancre-Vite is the rational and most effective remedy for Diabetes, as it is prepared to the formula of Dr. Armand Grimard, the eminent Diabetes Specialist.



Dr. Armand Grimard,
Diabetes Specialist.

Try Pancre-Vite NOW and rid yourself of Diabetes forever!

MANY IMITATIONS but NONE EQUAL to PANCRE-VITE!

Insulin is not curative, but only has transient effects; besides the necessity for daily injections are extremely inconvenient and tend to become tiresome.



Pancre-Vite is the best Oral Insulin Remedy, convenient to use and very effective. Its powerful curative action strengthens and develops the pancreas which control the several phases of diabetic pathology.

Pancre-Vite easily supersedes Insulin as a specific for diabetes, as it contains the active derivatives of the pancreas with other substances necessary for the complete regeneration of the pancreatic tissues. Furthermore, it is prepared in Capsule form—specially hardened—to insure the passage through the stomach for immediate absorption in the intestine, with maximum curative efficacy.

This effective action cannot be obtained with preparations made in tablet or liquid form.

Read the Opinions of the Medical Profession in India.

Dr. J. D. MacQueen, Bombay ".....My Diabetic cases have responded magnificently to the Pancre-Vite treatment....."

Dr. C. Ghose, Delhi. ".....Pancre-Vite is marvellous....."

LATEST TESTIMONIAL.

Mr. (Gujarat). "...I have taken Pancre-Vite for the last twenty days and I have found good relief. The sugar level present in the urine has fallen from 3.6 to 1.7..."

Prices: 1 bot. Rs. 7-8-0. (A months' trial course, 5 bots, Rs. 35-0-0. Tel. Code. "Pan")

3 months course, 15 bots, Rs. 100-0-0, if ordered in one lot, Tel. Code. "Panning"

THESE products are 100% GENUINE—and recognised by the Medical Profession.

FLEMING - DISCOVERER OF PENICILLIN

—: (o): —
By HUBERT E. BIRD

ON a morning of September 1928 a miracle blew in at the window of a London hospital laboratory. A series of accidental circumstances combined to make this one of those rare moments which affect the history of us all and made Alexander Fleming one of the greatest benefactors of the human race. The window was open, and Fleming, teacher of bacteriology in St. Mary's Hospital Medical School, happened to lift the lid off a dish in which he was growing a bacterial culture. A casual mould-growing spore fell into the dish before the lid was replaced.

A few days later Fleming saw that a greenish-blue mould was growing on the surface of his bacterial "garden". As a culture it was ruined. It was no new thing for a mould to ruin a bacterial culture. Normally the whole thing would be thrown away. But this mould was different, for Fleming saw that it had cleared the bacteria from quite a wide area. Here was a substance of some importance as a destroyer of dangerous bacteria. The dish was *not* thrown away.

Shaped Like Pencil

The green mould produced drops of yellow liquid which, even when diluted 800 times, prevented the growth of dangerous staphylococci. Fleming examined the mould under a microscope. It was made up of tiny particles shaped like a pencil. He called it penicillin.

Fleming saw its possibilities, and made his discoveries public, but he lacked both means and opportunity to explore them further. It was not till the year 1938 that the properties of penicillin were tested and proved. In this year Dr. Florey, an Oxford professor, and a small team of experts, began a series of experiments which turned this green mould into a powerful instrument

of healing, which saved not only hundreds of lives on the battlefield but rescued as many shattered limbs from the surgeon's table.

Alexander Fleming, who made all this possible, was born in 1881, the son of a Scottish farmer. A brilliant school-boy, whose early career was a record of scholarships and gold medals, he eventually became a teacher at London University. There he was assistant to Sir Alroth Wright, the father of modern vaccine therapy. At his side, he contributed to the research which produced World War II's first wonder drug, M and B 693, and he it was who discovered that tears contain an antiseptic substance called lysozyme, a discovery of great physiological importance.

Humanitarian

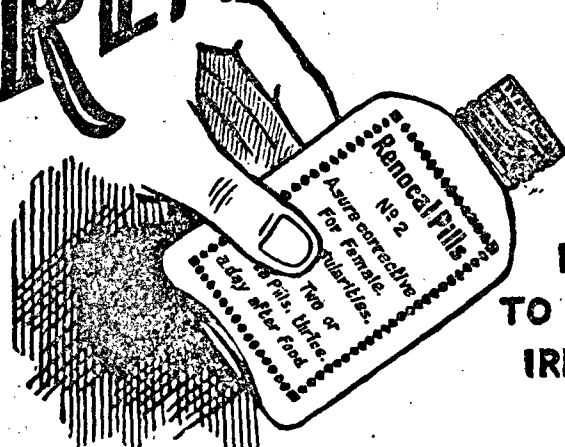
Like all great scientists Fleming's work was motivated by a great humanitarian perception as well as scientific curiosity. It was his work as an Army doctor in World War I that set him thinking on the lines that eventually led him to his great discovery. For all around him he saw the ravages of invincible bacteria robbing men of life and limb. He made bacteriology his special study. His brilliant work, crowned by his discovery of penicillin, has marked him for lasting fame.

In 1944 he was knighted for his great services to science and the cause of humanity, and in 1945 he received (jointly with Florey and Chain who had extracted penicillin for therapeutic use) the Nobel Prize for Medicine, awarded every three years to those who make the world's most outstanding contribution to human welfare. Academic honours showered on him. He was awarded the Legion of Honour by the French people and was made not only a member of the Academies of medicine in Paris and Rome, but a member of the Britain's Medical Research Council.

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LADY WITH A DIAMOND PEN

—: (0):—
By EDWARD LORRAINE

GLASS is not only useful. It is beautiful in itself, and many artists have worked in it. Glass can be decorated in many ways, one of the most fascinating being diamond engraving. This means drawing on the glass with a diamond—pointed pen. It is one of the most highly exacting forms of draughtsmanship, for one error—and all is ruined.

Very few artists work in this medium today, but as we emerge from seven years of austerity, utility and irreparable damage, there are signs that engraving on glass is about to have another flowering.

An original style was created about the middle of the seventeenth century by a woman in the Netherlands, a scholar and poet named Anna Visscher who died in 1651. She decorated glass with naturalistic designs of flowers, insects and fruit. These were usually copied from prints of the period, with added touches of elaborate calligraphy. One of her finest pieces can be seen in Amsterdam, dated 1621, bearing the decoration of flowers and a dragonfly. It was in Anna Visscher's work that "stippling" first appeared as a new technique. Stippling, used instead of lines, resembles a series of graded dots.

With the work of Frans Greenwood, born thirty years after the death of Anna Visscher, stippling was carried even further. Greenwood was of mixed English and Dutch ancestry, and was as important as Anna Visscher had been. Like her, however, Greenwood did not create original designs. He copied contemporary prints and engravings, too.

After the eighteenth century, this form of glass decoration died out, and the techniques were lost. Today, artists in glass have had to work out their own techniques by observation where possible, and in one known instance, by sheer imagination.

Starting From Scratch

In Lucerne, Switzerland, there is at present a great diamond-engraver, whose art carries on where these masters of the past left off. Her name is Gertrude Bohnert, and an extraordinary thing about her work is that she developed it entirely without knowledge of the work

of the past. She knew from her general studies in art that there were once schools of diamond engraving, but she had never seen any examples of it at the time when she began her own work in this direction.

Gertrude Bohnert started by taking general courses in drawing, painting and anatomy—all those things in which serious students must sink themselves. At the Art School she attended, she met a remarkable young fellow-student, Hans Erni, already possessing the talents which have subsequently made him one of the most interesting of modern painters.

Unlike Hans Erni, whom she subsequently married, Gertrude Bohnert had not found her form of self-expression as an artist. Nevertheless, she continued to draw, paint and study what interested her most; the natural art forms in the world around her, the delicate shapes of leaves, the graceful movements of fish and underwater creatures, and the elusive grace of horses and dogs in movement.

She herself says that it is difficult to remember when the idea of drawing on glass with a diamond-point first came to her. Once she began, she knew that she had found the form for which she had waited so long. She designed her own diamond-pointed pen, and worked out by degrees exactly how she wanted the diamonds cut for it.

Never Conventional

Her technique is entirely her own. The work of Anna Visscher was unknown to her, and indeed she will see it for the first time only when she visits the Low Countries this year. Like Anna Visscher and Frans Greenwood, she draws flowers, insects and animals, but unlike Anna Visscher and Frans Greenwood, her work is entirely original, her designs are created to harmonise with the medium in which she is working.

She is never "conventional." The only example of a pattern in the conventional style ever executed by her, was in a bowl she engraved as a wedding present. This bore bands of treble and bass clefs, engraved to please an ardent musician.

One of her bowl-shaped vases shows a cuckoo, startled amidst the seeding

autumn grasses by a butterfly perched on a spray overhead and by a dragonfly on the wing. The keen nature student and the confident hand can be seen in a large round plate with a dragonfly perched on a spray of flowers and leaves. In a third example, we see how she winds the design around the tumbler-shaped vase in accordance with its form.

The delicacy and lightness of these designs is almost incredible. Some of her work looks as if it had been "breathed" on the glass. Her designs are varied and reveal great imagination. The series of brandy-inhalers show fabulous submarine creatures who appear to be floating on the glasses. Her knowledge of these was obtained through excursions on Lake Lucerne. She lowers a bottle into the deepest parts of the lake and makes microscopic slides of the submarine life she finds when she pulls the bottle up. By attentive study, she memorises and makes herself absolutely familiar with these tiny creatures and then transfers to glass what she has observed.

with remarkable detail.

From large table-tops of glass down to tiny, exquisite rock-crystal jewellery, her talent never falters. The rock-crystals are in a square shape with one side flat. On the under or flat side she engraves the tiny animals or flowers. Set in a thin band of gold, these jewels appear to contain "imprisoned" objects. Magnification of a jewel with a squirrel engraved on it (magnified about six times) only stresses the purity of her draughtsmanship.

Her Fine Draughtsmanship

Under the magnifying glass, the masters of the seventeenth century show great sensitivity of line, but their work appears "scratchy" compared with the work of Gertrude Bohnert. All of her beautiful designs are original, drawn from close and intimate knowledge of nature. She never makes preliminary sket-

ches. Not only are her designs unique in the history of glass-decoration, but they show some of the finest draughtsmanship in the medium for three centuries or so.

She is a little slender person, with a gentle, extremely modest manner. In the photograph which shows her at work, we see the only tools she uses. She works with naked eye, with no spectacles or magnifying glasses to aid her. Lying on the table are a pair of scissors with special blades for grasping the glass, a bottle containing alcohol, and some brushes.

These are most important because the glass must be absolutely clean and greaseless. Dust is grease-bearing; human hands and fingers are too; so the alcohol and the brushes are used for keeping the glass clean and dry. On the wall above her head is a glass frame containing some of the butterflies she has collected.

It Travelled Around

Many people outside Switzerland, interested in glass and glass engraving, have heard of her work. For despite restrictions on communication and travel, word of mouth is still effective when the matter is important. So far, she has never exhibited outside her own country, but officials and directors of large museums and galleries have made special journeys to Lucerne to see her work and induce her to go abroad. As she is modest to the point of timidity, and did not know in what relation she stood to the known masters of the past, their praise and admiration almost frightened her. She felt compelled to tell them that some of her pieces take a long time to do.

One of the experts encouraged her into believing that her work might be good. This was a very wise glass expert from the North of England who saw in her a great artist. He appreciated her work for what it was, and did not suggest that she turn out hundreds of pieces as one or two of the others did!

If we are ever able to see her work exhibited in Britain, it will be due to that charming gentleman from the North. Many artists—and "amateurs"—who have taken up this ancient skill would be stimulated by such an exhibition for artists of this calibre are, like the diamonds with which they work, keen and rare. They should be encouraged, for in all the fields of artistic expressions, this is one of the most painstaking, exacting, and exquisite.

The Egmore High School Commensense Competition No. 1.

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The attention of the competitors is invited to the fact that in our advertisement for the above Competition published in the June 1948 issue of the MEDICAL SCIENCE, the incomplete word for the 7th item has been printed wrongly. In fairness to competitors who may have submitted their entries on seeing this Journal, the management have decided to refund the full fee paid on such entries. Competition No. 2 closes on 14th August 1948, and interested competitors may please apply at once for free particulars,



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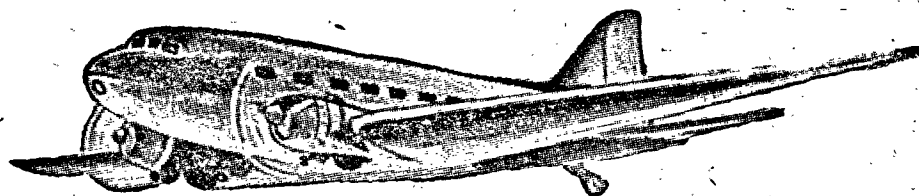
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