

ELECTRONS HEARD BY NEW RADIO DEVICE

One Hundred Thousandfold Amplification Used.

Ann Arbor, Mich.—Experiments by which scientists have been able to listen to the movement of electrons, the smallest particles of matter, were described here by Dr. A. W. Hull of the research laboratory of the General Electric company, at the annual meeting of the American Physical society.

The vacuum tube amplifier in which the amplification is carried to a hundred thousandfold, and with which a millionfold can be reached, makes this possible, Doctor Hull stated. The sound produced by the electrons is caused by bombardment of the plate by electrons, released from the hot filament. It is these electrons which carry the current and which make the operation of the tube possible.

Called Schrot Effect. The noise, due to the electrical oscillation which is set up by the impacts of the individual electrons on the plate, is known as the Schrot effect. The energy of each blow is extremely minute, but, like rain drops, the energies of the many individual impacts add, and their sum becomes very large. With sufficient amplification, Doctor Hull stated, the blows may produce a roar like that of Niagara.

The electron is the unit charge of electricity and the determination of its value is of the utmost importance. The oil drop method, devised by Professor Milliken in the physics laboratory of the University of Chicago, gave science its first accurate measurements of the charge of the electron.

Opens Up New Field. Doctors Hull and Williams have measured the charge of the electron in a different way, by means of the Schrot effect, and have opened a field for research which promises to add to the knowledge regarding the electron and its properties.

Saskatchewan Town Debt Threatens It With Ruin. Regina, Saskatchewan.—The little town of Battleford, whose residents are threatened with a possible levy of 5 per cent of their total assessments to satisfy town debts, has appealed to the Saskatchewan government to save it from financial ruin.

Army Mule Humiliated by Dappled Percheron. Kansas City, Mo.—The twenty-sixth annual American Royal Live Stock show saw the redoubtable army mule suffer a setback. A team of dapple gray Percherons won the pulling contest for teams under 3,000 pounds, hauling a load of 27,000 pounds 27 1/2 feet and developing a pulling strength of 25 horsepower.

AIR MAIL SERVICE READY FOR WINTER

Cross-Continent Flying to Go on Unhindered.

Omaha.—An unprecedented contingency for the United States government, that of operating the transcontinental air mail service throughout the winter months, will be met satisfactorily if the already completed plans of the government are carried out, according to Carl F. Egge, general superintendent of the air mail service.

Every air mail flying base and emergency landing station has been equipped with winter flying facilities, "monkey suits" for pilots, stoves to heat water and gasoline, protection of beacon lights, and skills to be attached to the landing gear in case heavy snowfalls prevent the use of wheels.

All main beacon lights, from Hazelhurst field, New York, to San Francisco, Cal., have been equipped with plate glass housing, assuring pilots of adequate guiding lights even in the heaviest of storms.

Astronomer Sees Crack in Steeple; Saves Church. London.—Sir Frank Dyson, astronomer royal, while testing the big telescope at Greenwich observatory turned it on London. A church steeple caught his eye. He observed a menacing crack at the base of the steeple.

Although the church was ten miles away he measured the crack with the instruments used to determine lunar distances and was convinced it was dangerous.

It was difficult for him to find out where the crack was, because the magnification was so great only the steeple showed in the telescope's field, but with the aid of a large scale map and instruments Dyson placed the church. He telephoned the vicar, who when he heard a voice said the astronomer royal wished to warn him his steeple was about to fall thought it was a practical joke.

Sir Frank finally prevailed upon him to examine the steeple, in which was found the crack which, invisible from the ground, was so dangerous the church has been closed.

Ohio Wesleyan University Gets John Wesley's Cane

Delaware, Ohio.—Frank S. Monnett of Columbus, former attorney general of Ohio, has given Ohio Wesleyan university a riding cane carried by Rev. John Wesley.

The cane will be displayed permanently in the Ohio Wesleyan library, along with other valuable relics.

Mr. Monnett, a graduate of Ohio Wesleyan in the class of 1880, recently came into possession of the cane during his trip to England.

The cane since has been preserved continuously in the Park family. During a trip to England last summer Mr. Monnett was a guest at the home of Sir John Powell, a relative of T. E. Powell of Columbus. Sir John Powell is a descendant of the Powell family which originally owned the land upon which Ohio Wesleyan university stands.

During Mr. Monnett's visit Cecil Wellington, great grandson of Thomas Park and for many years a chauffeur for Sir John Powell, presented the riding cane to him with the understanding that it was to be brought to America and presented to Ohio Wesleyan.

Capt. Eagle and Priv. Hawk Real Birdmen. Washington.—Capt. G. I. Eagle, late of the office of the chief of air service of the War department and now of Bolling field, whose name has been used in many puns upon the air service, has at last found companionship. It appears that there is a Private Hawk in the air service, too.

WORLD FLYERS ARE BACK IN THE RANKS

Lose Their Bars Through Army Regulations.

Washington.—Although the plaudits which greeted the return of the triumphant army flyers from their spectacular flight around the world have hardly ceased, one of the six lieutenants who gained enduring laurels for the United States is a noncommissioned officer in the ranks and another is wearing the garb of a civilian mechanic at a flying field in Dayton, Ohio.

Furthermore, it is said that there was nothing that the army could do about it. It was pointed out that it was army regulations issued under the national defense act and only congress can go beyond that. The fate of the two members of the expedition who happened to be reserve officers instead of regular army officers is up to congress.

It's Up to Congress. Just what congress will do is still a question, but there is no doubt a bill will be introduced in the house of representatives this session to give proper recognition to the world flyers.

The two men affected are Civilian Mechanic Henry Ogden, now assigned to McCook field, Dayton, Ohio, and Technical Sergeant John (Happy) Harding of Selfridge field, Mount Clemens, Mich.

When the flyers left the shores of the United States, Harding, who was a second lieutenant in the officers' reserve corps, was called to active service so he could receive sufficient money to bear his increased expenses. Ogden was allowed to fly as a sergeant. However, when the flyers arrived at Shanghai, China, Ogden also was appointed a second lieutenant in the officers' reserve corps and placed on active duty.

Army officers said army regulations, as set forth in the national defense act of 1920, forbid the promotion of any man to the grade of a commissioned officer except through regular channels. In other words, these two men, in order to become officers, would have to pass their examinations the same as any other man seeking a commission in the regular army.

Even President Coolidge cannot intervene to make either Sergeant Ogden or Mechanic Harding commissioned officers in the regular army.

Army officers explained that it was largely to provide against possible misuse of power that the system of promotion provided under the national defense act was devised. To relieve the congestion in the grade of captain it was suggested by General Pershing in his final report as chief of staff that the act be amended to permit the promotion out of regular order of captains who showed signal ability.

Weeks' Hands Tied. Secretary of War Weeks, it is said, would welcome both Ogden and Harding as officers of the regular army, but he is powerless to act.

One officer said all the secretary can do is to write each of the officers a letter of commendation, but Secretary Weeks has gone further. In his report this year to President Coolidge he recommended that the present system of promotion by seniority be modified. In this connection he said:

"It should be possible to provide for special promotion, one grade at a time, of some portion of the officers of the army as long as such promotions do not exceed 2 per cent of the promotions by seniority. Such a system would find room for all officers who have particularly distinguished themselves in the service of the United States.

"I therefore recommend the adoption by congress of an amendment to the national defense act whereby the President might be authorized to promote, not to exceed one grade, any officer below the grade of colonel who, by some conspicuous act of service, has demonstrated his special fitness for such promotion."

Finds Paralyzed Hand Cured as He Grabs Weapon. Tiffin, Ohio.—Fright has cured Russell Lewis, Seneca county farmer, of paralysis. Lewis' left hand had been paralyzed for three years. He was alone in his home near Bascom recently when he heard a noise at a rear door.

Dresden Cheers Unhappy With Symphony Concerts. Dresden.—To cheer the downtrodden, a series of free symphony concerts has been given to the unemployed of this city by the League for Musical Culture. The attendance was overwhelming, and the interest of the audience keen, especially when the management provided musical experts as speakers who, previous to each performance, sketched the life of the composer and explained in simple language the underlying musical ideas of the opera.

NEVADA TAX COMMISSION PRESCRIBED FORM FOR CITY BUDGETS, 1925

Estimated Receipts and Expenditures of the City of Las Vegas for the Year Ending December 31, 1925, as Provided by Section 9, Chapter 42, Statutes of Nevada, 1923

Table with columns: RECEIPTS, Actual 1924, Estimated 1925. Rows include Licenses, Fines, Poll Taxes, Surplus Funds, Taxes Collected, Taxes Required, Totals.

Table with columns: EXPENDITURES, Actual 1924, Estimated 1925, Est. Tax Rate 1925. Rows include Administration, General, Salary, Police and Fire Protection, Streets and Alleys, Light, Cemetery Department, Publicity, Sewer Bond Interest, Highway Bond Redemption, Totals.

Table with columns: ASSESSED VALUATION, Actual 1924, Estimated 1925. Rows include Realty, Improvements, Personal, Totals, Cash on Hand, Balance Due from Second Half Taxes.

The above is a true and correct statement of the estimated receipts and expenditures of the City of Las Vegas for the current year as required by Section 9, Chapter 42, Laws of Nevada, 1923.

(Signed) W. C. GERMAN, Mayor. Attest: FLORENCE S. DOHERTY, City Clerk. Dated February 17, 1925. Note: Licenses and fines to be distributed as follows: Police and Fire Fund 50%, General 50%, 100% \$17,000.00.

Notice for Hearing Probate of Will and Petition for Letters of Administration With Will Annexed. In the District Court of the Tenth Judicial District of the State of Nevada, in and for the County of Clark.

In the Matter of the Estate of George E. Allgood, Deceased. An instrument in writing which purports to be the last will of George E. Allgood, deceased, having on this day come into the possession of said District Court, and a petition for the probate thereof, and for the issuance of letters of administration with the will annexed to F. A. Stevens, having been filed by said F. A. Stevens, Now I, Florence S. Doherty, clerk of said District Court, hereby fix and appoint Tuesday, the 3rd day of March, A. D. 1925, at ten o'clock in the forenoon of said day, and the court room of said court, at the court house in said County of Clark, State of Nevada, as the time and place for proving said will and for hearing said petition.

Dated February 20, 1925. FLORENCE S. DOHERTY, [Seal] Clerk of said Court. By THELMA NORRIS, Deputy Clerk. First publication Feb. 21, 1925. Last publication Feb. 28, 1925.



Advertisement for Buick Motor Company. 'The Reason... you see Buick pull away in front when the traffic starts is the extra power in the Buick Valve-in-Head engine. Buick's get-away and Buick's mechanical 4-Wheel Brakes take care of any traffic emergency. BUICK MOTOR COMPANY FLINT, MICHIGAN. When better automobiles are built, Buick will build them. JAMES CASHMAN, Dealer Las Vegas, Nevada'

Advertisement for Mikulich & Markich Bonded Draymen. 'Our Claim Checks Protect You! We handle Freight, Express and Baggage Promptly and with Care. Warehouse Storage at reasonable rates. Household goods moved or packed for shipment. OUR MOTTO: "Prompt, Efficient, Careful Service." PHONES—: Residence 62, Office 21. STAGE SERVICE. Commencing May 30, 1924, the Packard Stages will operate their first car from Las Vegas to Needles, Calif. via Searchlight. Regular Service will be continued, operating regularly and passengers. PACKARD TWIN SIX STAGE CARS. C. M. ADAMS. The Well Known and Reliable PIANO TUNER. Solicits your orders for tuning and also sole agent for Southern Nevada for the Steinway line of pianos. Other makes. from \$295 up.'

Advertisement for Tutt's Pills. 'Tutt's Pills. Unexcelled as an ANTI-BILIOUS MEDICINE. Stimulate torpid liver, strengthen digestive organs, regulate the bowels, relieve sick headaches.'

Advertisement for For Over 40 Years. 'HALL'S CATARRH MEDICINE has been used successfully in the treatment of Catarrh. HALL'S CATARRH MEDICINE consists of an Ointment which Quickly Relieves by local application, and the Internal Medicine, a Tonic, which acts through the Blood on the Mucous Surfaces, thus reducing the inflammation. Sold by all druggists. F. J. Cheney & Co., Toledo, Ohio.'

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Advertisement for Scott's Emulsion. 'OXYGEN CARRIERS. Millions of red-blood cells, oxygen carriers, are born in a healthy body every day. The ability of these cells to enrich the blood depends upon how well you are nourished. Scott's Emulsion brings to the body rich vitamin-nourishment that is easily absorbed by the blood-making organs to build strength. Scott's Emulsion nourishes and strengthens wonderfully well. Scott & Bowne, Bloomfield, N. J. 24-26'

Advertisement for Webster's New International Dictionary. 'Service. "I keep six honest serving men; (They taught me All I know): Their names are WHAT and WHY and WHEN, and HOW and WHERE and WHO" RYLAND. WHAT was the Declaration of London? WHY does the date for Easter vary? WHEN was the great pyramid of Cheops built? HOW can you distinguish a malarial mosquito? WHERE is Canberra? Zebrugge? WHO was the Millboy of the Slashes? Are these "six men" serving you too? Give them an opportunity by placing WEBSTER'S NEW INTERNATIONAL DICTIONARY in your home, school, office, club, library. This "Supreme Authority" in all knowledge offers service, immediate, constant, lasting, trustworthy. Answers all kinds of questions. A century of developing, enlarging, and perfecting under exacting care and highest scholarship insures accuracy, completeness, compactness, authority. Write for a sample page of the New World's specimen of Regular and India Papers, also booklets "You are the party" "press on" "to those naming this publication we will send you a set of Pocket Maps. G. & C. MERRIAM CO., Springfield, Mass., U. S. A. Est. 1831'