

—Dietz on Science— WAY IS PAVED FOR MARCONI AS RADIO PIONEER

Accomplishment in Field
Made Possible by Pre-
decessors.

BY DAVID DIETZ
Scripps-Howard Science Editor

Marconi frequently is called the "father of radio." But it is well to remember that radio also had many grandfathers.

Marconi justly is famous because he took the radio out of the laboratory and made it capable of doing real work in the everyday world. But Marconi could not have done it if it had not been for the many laboratory workers who preceded him.

Sir Oliver Lodge, great physicist and one of the pioneers in radio, told about the early days in that field in an address before the British Association for the Advancement of Science.

"As one gets older," Lodge said, "people seem to think that one's duty is to be a historian of the times during which one has lived.

Recalls Oscillation Theory

Unfortunately, I have not been trained as a historian, and am, therefore, incompetent to do more than just trade upon my reminiscences, which are liable to be rather one-sided and not to satisfy the conditions for serious and reliable history without prejudice or favoritism.

Looking back, then, over my lifetime, the first item to attract my attention was a paper on "Transient Currents," written by Lord Kelvin in 1853, wherein he gave the theory of electric oscillations in a masterly manner, considering that the idea of self-induction was not then born.

"He knew, however, that an electric charge could be stored in a condenser, after the same fashion as energy is stored in a bent or coiled spring, so that the condenser received and stored up electric energy, which it would subsequently give out when released." That was the first step."

Slows Down Spark

Lord Kelvin, Sir Oliver Lodge continues, also knew that the discharge of the condenser was an oscillating one, like the swing of a loaded pendulum, first in one direction and then in the other. Lord Kelvin knew that the spark of the electric discharge was really a succession of sparks, first in one direction and then in another.

Sir Oliver tells how he succeeded in slowing down the oscillations of the spark by the use of very large condensers until the vibrations approached those of musical notes and the sound of the spark actually was a musical note.

Waves Radiate in Space

When such sparks took place, radio waves were at the same time radiating into space. But, Sir Oliver continues, "we did not know that there was such radiation, nor did Lord Kelvin."

"We knew, or might have thought, that such radiation was possible, by the analogy of tuning fork. A struck or excited tuning fork gives sound vibrations."

"A genius might have surmised that, as the tuning fork vibrates in air, so the discharge of a Leyden jar or other condenser, being a vibration in the ether, might possibly carry the ether into waves and emit energy in that way. That is what happens, but no one suspected it for a long time."

"We had no sense for such waves and could not tell that they were being emitted, even when we made the experiment. We were in the condition of a deaf person striking a tuning fork or a bell."

5,000 TURN OUT FOR GERMAN DAY PARTY

Keg Beer Lends Homeland
Flavor to Outing.

Keg beer gave spirit to the annual German day program at Columbia park Sunday, when 5,000 people, representing twenty-three German clubs and societies in the city, attended the Muttertage.

The entertainment included a football game and a contest in marksmanship. This was followed by a concert by Frank Mayer's band and old German songs sung by the choruses of the Indianapolis Liederkranz and Indianapolis Sangerbund.

Representative Lenhardt E. Bauer of Terre Haute, speaker of the day, went down the rolls of history, naming famous Germans.

Following the address there was another football game and band concert. The German folk completed the full day with dancing at night.

Adolph Widmer was master of ceremonies and frequently spoke in German to the crowd through the amplifying system.

FEATHERS CAUSE 'PINCH'

Negro Found in Vacant House
With Evidence, Police Say.

Light circumstantial evidence caused the arrest Saturday of Charles Allen, 32, Negro, 622 West St. Clair street.

Police said they found Allen and a quantity of chicken feathers in a vacant house at 614 North Blackford street. Allen denied stealing chickens. He is held on a vagrancy charge.

SINGER LANDS MERMAID



HARRY WEILL IS DEAD; SERVICES TO BE TUESDAY

E. Rauh & Sons Official Had
Lived in Indianapolis
50 Years.

Rites for Harry Weill, 66, of 3707 North Meridian street, secretary-treasurer of E. Rauh & Sons, who died in the Methodist hospital Saturday, will be held at the Flanner-Buchanan mortuary 2 Tuesday afternoon. Burial will be in the Indianapolis Hebrew cemetery.

Mr. Weill was born in Louisville, but had lived in Indianapolis fifty years. He was a member of the Indianapolis Hebrew Congregation and the Elks lodge.

Surviving her are the widow, Mrs. Edna Weill, a daughter, Aline Weill, and a sister, Mrs. Jenny Latiske, all of this city.

Erskine Rites Today

Funeral services for Mrs. Abby Newall Erskine, 56, who died Saturday at her home, 1717 North New Jersey street, will be held at the Royster & Askin funeral home at 1:30 this afternoon. Burial will be in Crown Hill cemetery.

Mrs. Erskine had lived most of her life in this city. She was born in Brazil July 28, 1877. She was a member of the First Presbyterian church and the Caroline Scott Harrison chapter of the D. A. R.

Surviving her are the husband, Robert V. Erskine; a daughter, Miss Margaret Newall Erskine, and her father, Thomas H. Watson of Chicago.

Burial at Logansport

Mrs. Stella Miles, 49, of 1017 North Hamilton avenue, who died in the city hospital Saturday, will be taken to the Mt. Hope cemetery in Logansport for burial. Funeral services will be held at 10 Tuesday morning at the home.

Mrs. Miles was born in Newmarket and had lived in Indianapolis two years. She was a member of the First Christian church in Newmarket. Survivors are the husband, Charles Miles, and two sons, Harry L. and Elmer Miles, all of this city.

Mrs. Montgomery Dies

Funeral services for Mrs. Blanche Miles Montgomery, 64, wife of Harry S. Montgomery, who died Sunday at her home, 1331 Park avenue, will be held in the Flanner & Buchanan mortuary Tuesday at 10. The body will be taken to Wabash for burial.

Mrs. Montgomery had lived here sixty-one years, although she was born in Wabash. Survivors are the husband, two sisters, Mrs. Tom Christman of Wabash and Mrs. Harry L. Hodges of Indianapolis, and an uncle, Charles R. Miller of Indianapolis.

Kemmerer Rites Slated

Last rites for Henry W. Kemmerer, 41, who died Thursday night at his home, 404 East Minnesota street, were to be held at the home at 2 this afternoon. Burial will be in Crown Hill cemetery.

Mr. Kemmerer, who had been ill two months, was born in Victoria, O., and came to Indianapolis when he was 15. He had operated a barber shop at 1538 South East street fifteen years. He was a member of the Barber's Union, the South Side Turners, the 45 Mutual Benefit Society, and the C. M. B. of the Third Christian church.

Survivors are the widow, Mrs. Katherine Kemmerer; two sons, Louis and Harold; a daughter, Dorothy, three brothers, one sister and his mother-in-law, Mrs. Katherine Fischer.

85 Stolen From Bag

Theft of \$95 from her traveling bag in a room at the Y. W. C. A. was reported to police today by Ernestine Collenbaugh, a guest. Tax receipts from Owen county postal savings receipts totaling \$150, and a check book also were taken, she said.

MOTION PICTURES

Big News!

CHARLES WOLSON Assumes Control of the LYRIC THEATRE and Announces

7 ACTS METROPOLITAN VAUDEVILLE

Every WEEK STARTING NEXT FRIDAY

25 REBURY 40

MONDAYS

HEALTHFULLY COOL LOWES PALACE 706 AM

LEE TRACY

"TURN BACK THE CLOCK"

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