

SOUND WAVES MAY PROVE THE NEWEST WEAPON OF SCIENCE IN FIGHTING SOME DISEASES

Washington, April 30—Sound waves of so high a frequency that they cannot be heard by the human ear may prove science's newest weapon in fighting certain types of diseases. This is indicated by experiments just carried on by Dr. R. W. Wood, professor of experimental physics at Johns Hopkins University and Alfred L. Loomis of New York.

Wood and Loomis used a radio generator to produce a current of 60,000 volts and 400,000 cycles. This current when passed through a plate of pure quartz results eventually in vibration communicated to the surrounding air, setting up sound waves of 400,000 a second frequency. The experiments have been immersing the vibrating plate in water.

"When you put your hand in the water, you find that the water is being heated by the vibrations," Dr. Wood said. "This heat caused by vibration is communicated to your hand and you can feel it right down to the bone."

Stings Like a Baseball.

"When you take your hand out of the water it stings like it would if you have caught a swiftly pitched baseball with your bare hand."

"The vibration stir up the circulation greatly and for this reason it may be possible to use the sound waves to treat certain types of disease like arthritis or gout, where a stimulus for the circulation would prove helpful."

While the waves are expected to have a curative power for man they have proved deadly so far to small organisms.

Wood said that small fish, marine worms and other organisms placed in the water with the vibrating plate were killed by the sound waves. Death took place in less than a minute, Wood said.

How science is pushing man's knowledge into the field of the unknown was graphically illustrated by three papers presented to the National Academy of Science.

Dr. Alexis Carrel and Albert H. Ebling presented a paper titled "The Structure of Living Cells" illustrated with a motion picture. The film taken with the aid of high

Phenomena of Cells.

The film also showed the behavior of the white cells in the blood of animals when made to grow in an incubator. These cells moved about in the blood stream by pushing out little distensions not unlike sudden appearing fingers or feet. Certain types of cells grew larger with incubation and turned upon other cells and ate them. As they grew larger and larger these cells began to take on the appearance and characteristics of the dread cancer cells.

Dr. W. D. Harkins of the University of Chicago showed how it was possible to knock atoms apart with the aid of the "alpha rays" given off by radium.

The alpha particles travel with a speed of 12,000 miles a second, Dr. Harkins said. In the experiment, the particles were used to bombard nitrogen gas. The percentage of hits, however, was only about one in a million.

The most interesting phenomenon observed, Dr. Harkins said, was a case where an alpha particle entered the nucleus of a nitrogen atom. This turned the atom into an atom of fluorine. But immediately a positive electron or hydrogen atom nucleus was expelled from the fluorine atom turning it into an atom of oxygen. This was a case in which the transmutation of one element into another was actually observed, Dr. Harkins said.

ROLLER SKATERS TAKE TURNS

Bluffton, Ind., April 30—Roller skaters here are given the freedom of the streets—that is part of them. On certain nights of each week several city blocks are roped off for the skaters and motor traffic is barred from that section.

EX COLLECTOR WHO PUT DOWN SOME WHISKEY

Ottawa, April 27—Thirty to thirty-five gallons of whiskey so old that nobody could remember its origin was "decanted into a sewer through a laundry tub in the basement" of the residence of R. S. White, member of Parliament for Mount Royal and former Chief Collector for the Canadian Customs Port of Montreal, it transpired today at the Customs probe.

A Customs official had mentioned the delivery of a quarter-cask of whiskey from the Customs warehouse to Mr. White's residence some years ago. The veteran Parliamentarian asked permission to make a statement before the House Committee conducting the inquiry. He remembered that the cask had been left at his house one Christmas Eve. It had lain at the back door until the janitor came in the morning. The latter had brought it indoors.

Mr. White, then Collector of Customs, spoke to the chief of the examining warehouse, Mr. Young, about it, and was told that the quarter-cask, containing Scotch whiskey, had lain in the Customs warehouse for many years, probably prior to Mr. White's own inception in 1895. It had failed to attract a bid which would cover the Customs duty and seizure charges, and had become forfeit to the Crown. It should have been destroyed, but Mr. Young, reluctant to destroy it, had sent it to his collector, thinking it "not improper—in the courteous sense,"—to make this little recognition.

"I was determined that I should not use that whiskey," said Mr. White. "Under my supervision, the whole contents of that cask were decanted into a sewer through a laundry tub in my basement."

The announcement brought from the crowded committee room a chorus of exclamations of astonishment and disapproval. Mr. White continued:

"Some would regard it as a wanton waste of what some people consider a good thing, but I contend that I was complying with the law. So far as I was concerned, I had eased my conscience."

Concealed weapons are usually carried on the hip.

OPENING AND CLOSING OF ST. JOHN RIVER

The dates of the opening and closing of the St. John river at Fredericton since 1825 are as follows:

Year.	Open.	Close.	Days.
1825.....	April 15	November 20	219
1826.....	April 17	November 14	215
1827.....	April 6	December 3	241
1828.....	April 20	November 19	213
1829.....	April 17	November 15	212
1830.....	April 18	November 29	225
1831.....	April 10	December 1	235
1832.....	May 3	November 15	196
1833.....	April 10	November 5	209
1834.....	April 11	November 17	220
1835.....	May 1	November 23	206
1836.....	April 23	November 19	205
1837.....	April 17	November 9	206
1838.....	May 1	November 25	208
1839.....	April 25	November 23	212
1840.....	April 16	November 23	221
1841.....	April 27	November 27	214
1842.....	April 24	November 22	212
1843.....	April 26	November 13	201
1844.....	April 14	November 27	227
1845.....	April 23	December 4	238
1846.....	April 6	November 28	236
1847.....	May 2	November 30	212
1848.....	April 19	November 10	205
1849.....	April 8	December 2	238
1850.....	May 2	November 27	209
1851.....	April 15	November 17	215
1852.....	April 26	November 25	213
1853.....	April 17	November 25	222
1854.....	May 7	December 10	217
1855.....	April 28	November 22	208
1856.....	April 25	November 17	206
1857.....	April 18	December 5	231
1858.....	April 22	November 13	205
1859.....	April 16	November 29	227
1860.....	April 23	November 27	218
1861.....	April 20	December 3	227
1862.....	April 18	December 3	229
1863.....	April 22	November 17	209
1864.....	April 20	December 9	233
1865.....	April 6	November 10	218
1866.....	April 14	December 12	242
1867.....	April 22	November 17	209
1868.....	April 22	November 16	208
1869.....	April 20	November 26	220
1870.....	April 11	November 22	225
1871.....	April 10	November 24	228
1872.....	April 22	November 29	221
1873.....	April 23	November 12	203
1874.....	April 21	November 22	215
1875.....	April 27	November 19	206
1876.....	April 22	November 30	222
1877.....	April 13	December 4	235
1878.....	April 5	December 18	257
1879.....	April 27	November 22	209
1880.....	April 22	November 21	203
1881.....	April 2	November 22	234
1882.....	May 1	November 26	210
1883.....	April 18	November 15	211
1884.....	April 16	November 19	217
1885.....	April 23	November 27	218
1886.....	April 21	November 23	216
1887.....	April 27	December 1	218
1888.....	April 26	November 21	209
1889.....	April 16	December 1	229
1890.....	April 21	November 24	217
1891.....	April 14	November 29	229
1892.....	April 15	December 6	235
1893.....	April 14	November 21	221
1894.....	April 21	November 20	213
1895.....	April 19	November 22	217
1896.....	April 18	November 21	217
1897.....	April 21	November 21	214
1898.....	April 20	December 5	233
1899.....	April 26	November 13	201
1900.....	April 21	November 13	206
1901.....	April 17	November 24	221
1902.....	March 23	November 29	251
1903.....	March 24	November 27	247
1904.....	April 25	November 10	199
1905.....	April 20	November 21	215
1906.....	April 15	November 26	225
1907.....	April 17	November 20	217
1908.....	April 21	November 23	216
1909.....	April 19	November 30	225
1910.....	April 6	November 29	237
1911.....	April 19	November 17	212
1912.....	April 16	November 27	227
1913.....	April 1	December 1	214
1914.....	April 27	November 19	206
1915.....	April 12	December 11	243
1916.....	April 12	November 15	217
1917.....	April 19	November 23	218
1918.....	April 15	November 27	226
1919.....	April 8	November 28	234
1920.....	April 15	November 21	234
1921.....	Mar. 27	November 17	235
1922.....	April 8	November 24	230
1923.....	April 25	December 18	236
1924.....	April 22	November 19	210
1925.....	April 1	November 30	243
1926.....	April 30		

MARIGOLD TOAST.

Follow recipe for cream toast. Arrange slices and sauce on hot serving platter. Slice the whites of hard-cooked eggs in rings and arrange them around the rim of platter. Put the yolks in a potato ricer and press them over the top of all. Sprinkle with paprika and serve at once.

Dyspepsia Caused Her Agony After Every Meal

Mrs. M. Caldwell, 2335 Hemlock St., Vancouver, B.C., writes:—"After suffering for years with agony, from dyspepsia and indigestion, after every meal, I started taking

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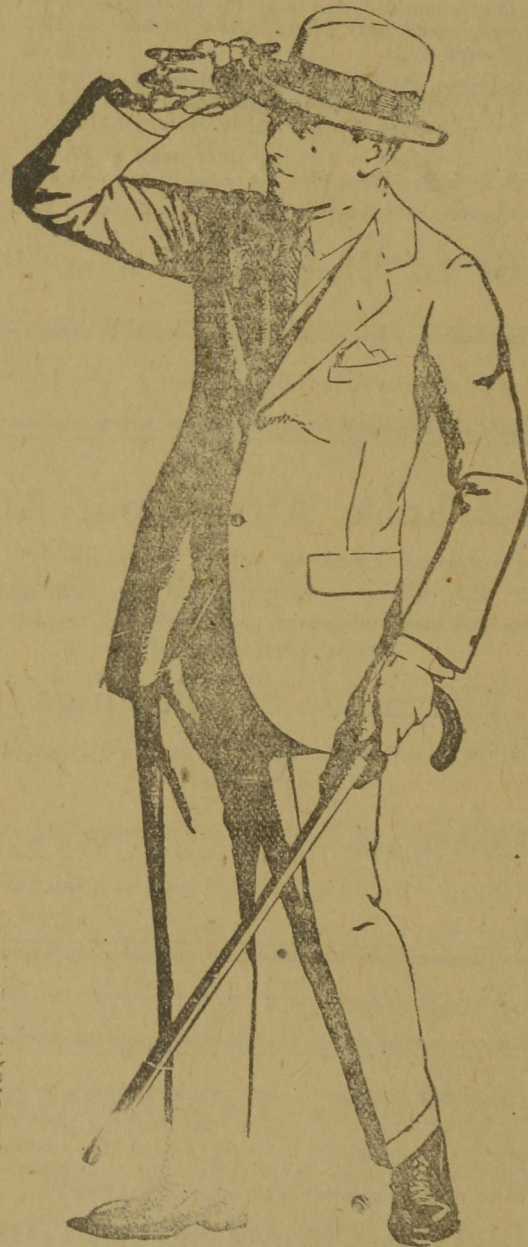
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