

MUSICAL EARTH LECTURE TOPIC

Noted Scientist, Dr. John Tyndall, Gives Vivid Address to Small Crowd.

The "music of the spheres" which the ancient philosophers and poets sang about and the "morning stars singing together" as referred to in the Book of Job, are not poetic fancies but facts of the physical universe, according to Dr. John Tyndall, noted scientist of Mount Vernon, N. Y., and for many years a noted Presbyterian minister, who delivered his famous lecture, "The Wonders of Ether Waves," Thursday night before a small audience at Hawthorne Lane Methodist church.

The lecture, intended to give the amateur scientist and the inquiring lay mind, a comprehensive grasp of some of the wonders which science has revealed in the last few years in the way of discovering the secrets of ether, lasted from 8 to 10:30 o'clock and held the rapt attention of an audience, most of whose members had only a mild and casual interest before in things scientific.

Dr. Tyndall, who is a graduate of Williams College was a teacher of science at 23 years of age, is a post graduate of Columbia University and one of the recognized authorities on the subject of ether waves, wireless telegraphy, telephony and allied subjects, is related to Tyndall, the famous British scientist and a member of the same family as Tyndall, translator of the scriptures. For many years he was engaged in the ministry but has always been a scientist. Lately, he has given up the active ministry to delve further into the mysteries of science. The undevout scientist in any field as well as the undevout astronomer is mad, according to Dr. Tyndall's opinion.

It is ultimately science and the Bible must

agree, according to Dr. Tyndall, who did not dwell upon this theme during his lecture, but afterward elucidated it to a group of persons interested in the subject.

Dr. Tyndall had with him charts, wireless receivers and transmitters and other paraphernalia with which to demonstrate the assertions about ether waves and other scientific facts. He began by reviewing the accepted facts about ether waves pervading all space and of their power to penetrate any world-sphere itself and the human body. He showed by charts with intelligible indications thereon that vibrations of sound waves constitute musical sounds, ranging from about 16 vibrations per second for the lowest note up to such a number of billions and trillions per second that they are quite beyond the power of the human ear to detect. He also indicated how, in the higher vibrations-per-second, colors are formed for the observation of the eye as low vibrations-per-second constitute musical sounds for the ear.

Dr. Tyndall proved by chart and other evidence that everything has a key-note and showed with a miniature wireless outfit which he erected on the stage that the ether wave vibrations which travel 186,000 miles a second, go through wood, or iron or other physical substance, including the human body, as readily as they go through air and that their traveling from point to point on the earth or through the earth is instantaneous so far as distances on the earth are concerned, the earth being only approximately 8,000 miles in diameter instead of the 186,000 miles that the waves travel per second.

With everyday incidents of routine life, Dr. Tyndall proved that ether waves are all-pervasive and that wonders can be accomplished when their laws are understood. For example, he cited the fact, referred to by Dr. Floyd in a recent magazine story about the late Enrico Caruso that vibrations from the tenor's voice had once or twice shattered into smithereens dishes, glass, crockery or other

things, that came within vibratory focus with his voice.

RELATES EXPERIENCE.

"My own daughter, Dorothy, got a surprise of this kind one day," related Dr. Tyndall, "when she was in the dining room. She called out when she spoke in a certain high key one of the glass dishes on a shelf gave forth a musical sound. I asked her to step farther away and make the same key that time, however, and there was no response from the dish. I urged her to think for a moment and see if she could recall the key she had spoken in first. She tried again and succeeded, the dish giving out the musical sound in tune with her voice. This was the same principle on which the dish broke at the vibration of Caruso's voice."

"One day the Mauretania, the big ocean liner, while in mid-ocean, suffered a breaking of one of its blades. The assistant engineer was standing by and heard the faint snap of the chief engineer also heard it and called to the assistant to change the speed of one of the ship's engines as they were pulsing in unison and the resultant vibration might cause other blades to break. A scientist a few months ago was writing about an incident that happened in a Fall River cotton mill. When the engines driving the machinery were pulsing in unison they would cause such a vibration of the building that a bucket of water on the floor would sway to such an extent that nearly all the water was spilled out. When the engines were changed so that their rate of speed—and, therefore, their vibrations were not in unison—the bucket swayed so little no water was spilled out, although it was filled to the brim."

ILLUSTRATES POINT.

Illustrating these principals, Dr. Tyndall took a key of C tuning fork—having 512 vibrations per second—and while it was vibrating held it over an upright glass tube of the same "pitch." The tones of the vibrating fork were taken up by the glass tube and so amplified they could be heard to all parts of the hall. The speaker then filled the glass tube half full of water. This threw it out of key with the C fork by lessening the column of air, and the tube failed to amplify the sound at all.

The entire universe, or cosmos, is musical, Dr. Tyndall said, and the human body, being a part of the physical universe, is musical also. Not only radium but nearly all physical substances give off heat and light to a degree, though in radium the radioactivity is infinitely more intense than in ordinary substances. To prove the point Dr. Tyndall held up a glass tube with a glass bulb on each end containing water tinted with red coloring matter. Even the small heat in each of his hands, in a hall far from being over-heated, drove the liquid at once from the bulb under his hand to the bulb in the opposite end. The quick change was explained by showing how the telephone bell rings and how a wireless or other telegraph instrument receives the wave-impulses from across space by the upsetting in the receiver of the careful balance or equilibrium which Nature maintains everywhere.

Dr. Tyndall left Friday morning for Spartanburg, S. C., where he will lecture Friday night. He is making the trip on his Southern lectures by automobile. He came to Charlotte to appear at Hawthorne Lane church as a benefit for the Boy Scout organization of that church. Mrs. Tyndall is also an accomplished scientist and shares her husband's enthusiasm for the subject.

The human race, Dr. Tyndall thinks, has only touched the outer edges of the possibilities of scientific knowledge and accomplishment. He believes Newton had the right viewpoint when he said of himself, after a life spent in scientific research, that he was only as a child which had picked up a few pebbles off the beach of knowledge.

Dr. Tyndall sees no reason why many of the planets may not be inhabited. He thinks it unreasonable an all-wise and all-powerful intelligence should place on the tiny atom called the Earth the only sentient beings of the same kind in the isles and continents and oceans of space and leave the rest of them untenanted.

COLLEGES WILL SEND AUDIENCE

Walter Hampden Expected to Be Greeted by Great Crowd of Collegians.

Delegations representing practically every college within reasonable train radius of Charlotte will come here for Walter Hampden's performance of Hamlet at the Plymouth Theater. The veteran Towse happened to be in the first audience and immediately announced that the greatest living Hamlet was on the boards at the Plymouth.

The effect was electric. Critics flocked to the theater and, after a few weeks of matinees, the 39th Street Theater had to be taken over for the exclusive use of the suddenly-risen genius of poetic drama. Since then Mr. Hampden holds a record run on Broadway never approached since Edwin Booth.

Mr. Hampden has been brought to the Auditorium through the co-operation of the American Association of University Women in Charlotte. The public school teachers and students of the High schools and Queen's College will be present at his appearance here.

POTATO, POULTRY AND CORN SHOW NOW OPEN

Asheville, Dec. 9.—Buncombe county's garage has been transformed into a gala place where hundreds of persons are crowding to see the prize exhibits of corn, potatoes and poultry entered by members of agricultural clubs and by farmers of the county. The annual corn, potato and poultry show was officially launched Thursday afternoon.

Some of the finest seed corn in western North Carolina is bidding for recognition, and from present indications, it will be a hard job for E. S. Millsaps, of Statesville, farm agent for the Piedmont section, and James M. Gray, assistant director of extension work at Raleigh, to pick the winners. Nearly 350 birds have been entered. A. G. Oliver, State poultry expert, arrived in the city Thursday morning and will have charge of judging the poultry.

Over \$400 will be given away in prizes. There will be as many as four awards in most of the classifications.

EARTHQUAKE SHOCKS.

Rome, Dec. 9.—(By the Associated Press)—Serious earthquake shocks have been reported throughout this week from the regions around the Lake of Bolsena, about 60 miles northwest of this city. The ground in several villages of that vicinity shows large fissures and most of the inhabitants are camping in the fields. No deaths have been reported.

MINORS SELECT LOUISVILLE.

Buffalo, N. Y., Dec. 9.—Louisville was selected today by the National Association of Professional Baseball Leagues as the meeting place for next year.



Bad Colds

WET, stormy weather, exposure, sniffles, and the heavy cold, are quickly and pleasantly. Headache, up, cough relieved and you feel better. At your druggists, 60c.

Dr. King's New Discovery

For Colds and Coughs

Bowels Begging for Help? Dr. King's Pills will bring you the happiness of regular, normal bowels and liver functioning. Mild but ways reliable. At all druggists. PROMPT! WON'T CRUISE!

Dr. King's Pills

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REORGANIZATION SALE

It's Values

Starts Saturday Morning, December 10th and Continues for Ten Days

Every Pair Of Shoes In The House For Men, Women and Children

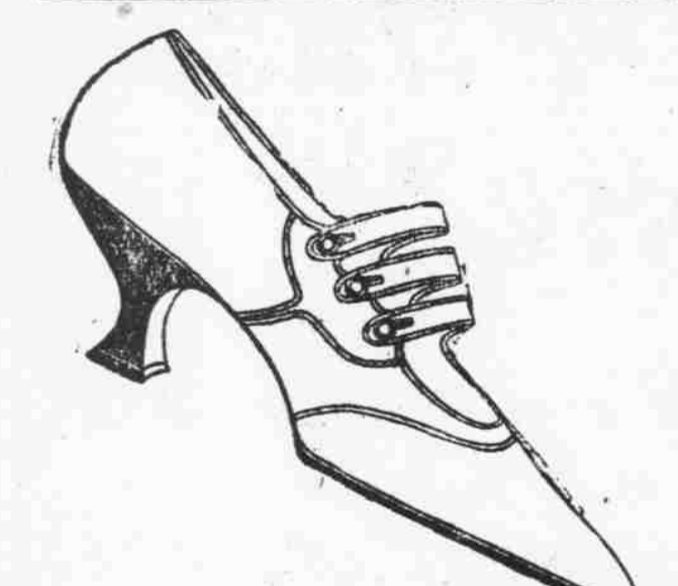
WILL BE OFFERED TO THE PUBLIC AT PRICES THAT CANNOT BE EQUALLED ANYWHERE IN THE CITY

STORE OPEN UNTIL 9:00 P. M. FOR BENEFIT OF CHRISTMAS SHOPPERS

We are reorganizing the Burt Shoe Company and in order to do this we must reduce our stock to the lowest possible figure and we are offering every shoe in the house at great reductions that will enable the thrifty shopper to realize a saving of from 25 to 50 per cent on every pair of shoes bought at this store.

MAIL ORDERS PROMPTLY ATTENDED TO EXCHANGES MADE IF NOT SATISFACTORY

Our stock consists of the latest arrivals in Novelty Footwear for Men and Women, Shoes that are of the finest quality and of the latest styles.



Women's three-strap Beaded Satin Pump with full Louis or Baby Louis heel, regular price \$13.50, reduced to **\$8.85**

Women's high top black Kid Boot with military heel, regular price \$12.50, reduced at **\$4.95**

Growing Girls and Misses' three-strap patent leather Sandal, center buckles, regular price \$10.00, reduced to **\$5.85**

Women's Patent Leather Oxfords, walking heel, regular price \$10.00, reduced to **\$6.85**

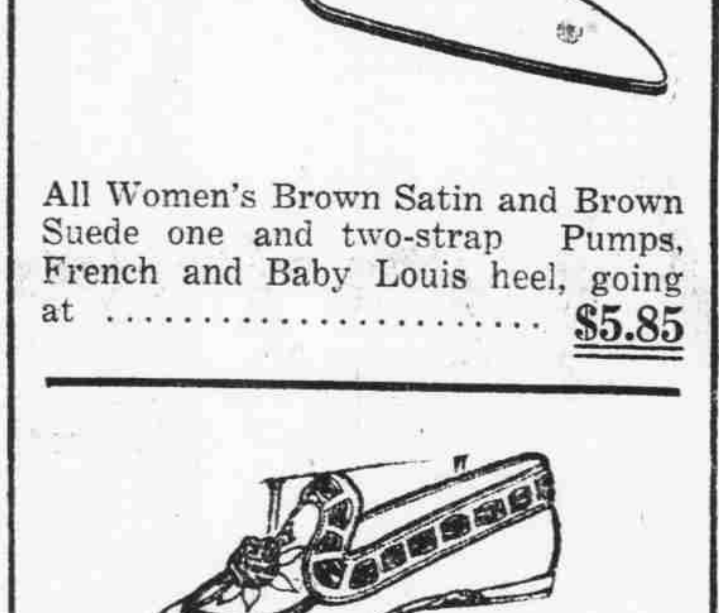
Women's Patent Leather cut out two-strap, Sally Pump with Military walking heel **\$6.85**

Low heel or walking heel as desired. Herman's Calfskin Army Officers Shoe, rubber heel **\$5.45**

Women's Hunting Boots, 18" high, Chrome Leather, waterproof, double sole, Goodyear welt, stitched **\$8.85**

All Women's Brown Satin and Brown Suede one and two-strap Pumps, French and Baby Louis heel, going at **\$5.85**

Men's Tan Calf, French last or blucher Shoe, Wingfoot rubber heel at **\$4.85**



Men's black or tan Scotch grain Brogue Shoe, new French last, regular price \$12.50, reduced to **\$7.85**

Women's Felt House Slippers, all colors, regular price \$2.00, reduced to **\$1.10**


FOR CHILDREN We are closing out all Buster Brown Shoes at one-half price.

BURT'S 16 EAST TRADE

See Us Before Buying Your Next Pair of Shoes or Evening Slippers.

Say MASTIN'S

to Get the Original and Genuine YEAST VITAMON TABLETS



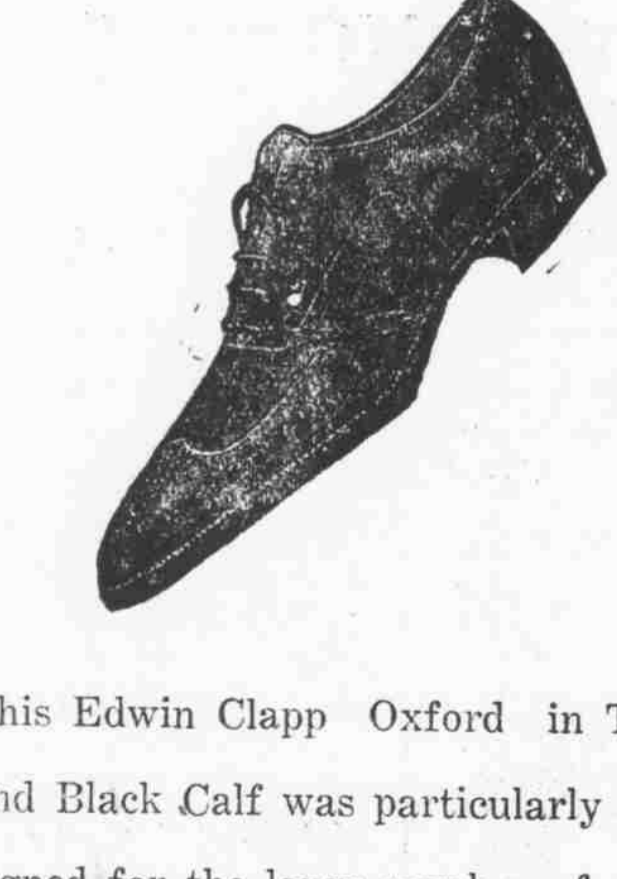
Now Used By Millions As A Simple Easy Way To Help Increase Weight and Energy, Clear The Skin and Correct Indigestion and Constipation

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If You Are Not Entirely Satisfied With The Results In Your Own Case, Your Money Will Be Promptly Refunded.

The Gray Shop

The Fifth Avenue Shop of the Carolinas



This Edwin Clapp Oxford in Tan and Black Calf was particularly designed for the large number of women who want a quietly elegant rendering of the popular "Brogue" style. A splendid all-round service Oxford. Widths AAA to C at \$12.75

Mail Orders Given Special Attention.

Mellon's

Third Floor.

CAPTAIN CRAWFORD RELEASED ON BOND

Salisbury, Dec. 9.—Captain F. E. Crawford, western division Southern conductor, was yesterday required to give bond in the sum of \$7,500 to answer at the next term of Superior Court for the killing of Sam Hinton, engineer. Monday morning a homicide was witnessed by a number of railroad men. It happened in the Y. M. C. A. lunch stand and the weapon used was a catnap bottle. According to the evidence heard before Judge Furr, Hinton made complimentary remarks about both Captain and Mrs. Crawford, not knowing that Crawford was in the room. The conductor advanced towards him to strike him with the bottle. The bond was given immediately.

Medicated Smoke Drives Out Catarrh

Dr. Blosser's Cigarettes Give Out a Healing and Soothing Smoke-Vapor That Clears the Head, Nose and Throat.

Dr. Blosser is the originator of a certain combination of medicinal herbs, flowers and berries to be smoked in a pipe or ready prepared cigarette which is meeting with unusual success in catarrhal troubles. As the disease is carried into the head, nose and throat with the air you breathe, so the anti-septic healing vapor of this remedy is carried with the breath directly to the affected parts.

This simple, practical method applies the medicine where sprays, douches, ointments, etc., cannot possibly go. Its effect is soothing and healing and is entirely harmless, containing no cubeb, tobacco or habit-forming drugs. It may be used by women and children as well as men.

If you suffer from catarrh, asthma, catarrhal deafness, or if subject to frequent colds, you should try this remedy. Satisfactory results guaranteed. Any well stocked drug store can supply Dr. Blosser's Remedy.

A trial package (containing eight cigarettes) will be mailed to any sufferer for ten cents (coin or stamps) by The Blosser Co., 28 DL, Atlanta, Ga., to prove their beneficial and pleasant effect.

DR. BLOSSER'S

Medicated Cigarettes

For colds and catarrhs, in the nose and throat, and for all other ailments of the head, nose and throat.

DR. BLOSSER'S CIGARETTES FOR