

## TONES AND COLORS.

Discovery of a Remarkable Phenomenon by a Scientist.

**Rays of Light Which Produce Certain Colors Correspond Exactly with Certain Tones—Use in Musical Instruction.**

It has been the dream of poets that some subtle, sympathetic relation exists between tones and colors; that the harmonizing of one and the artistic blending of the others appeal to the same sense of the beautiful; that sweet sounds and pleasing color effects are very much akin. It has remained for a Philadelphia professor to trace this phantasy to its source; to materialize the vague impressions of dreamers and to reduce them to a matter of science, says the New York Herald. It has long been common knowledge that our conception of both musical tones and colors is due to the effect of vibrating waves of movement, but it is something new to learn that there is a close and exact sympathetic relationship between the notes of the scale and the colors of the spectrum; that the same system of nature governs each and that discords arise in ill-matched hues from infringement of the same rules which govern the combination of sounds according to the science we call harmony.

It is amazing to learn that the seven colors of the rainbow exactly correspond with the seven notes of the gamut, and that red, being the dominant, has to the other colors the same comparative refrangibility, or "wave lines," as the dominant in any chord has to the other notes in the scale. It will blend artistically and pleasingly only with such colors as represent notes which in music may be harmoniously used with the dominant.

It is claimed by the discoverer of this phenomenon in science, and he has devoted the last 20 years to the study of relationship between tone and color, that the rays of light which produce red, at the base of the spectrum, correspond exactly with sound waves responsible for "do," the keynote at the base of the tonic scale. Orange corresponds with "re," yellow with "mi," green with "fa," blue with "sol," purple with "la" and violet with "si."

Before scientific experiments and research established these facts, argues the professor, impressionists, poets and painters felt this close union between tone and color. Artists knew that a warm splash of red, giving an impression of prominence and nearness to the eye, would dominate the whole picture. "Do," the tonic in music, is recognized as the centripetal force. Opposite in effect is the cool, limpid blue, which is in agreement with "sol," the clear, ringing "fifth" of the scale, the tone of centrifugal force, while midway and in perfect harmony is "mi," the yellow, the sweet but unobtrusive "third" of the scale. These three colors combined form a most pleasing group, while the corresponding tones form the tonic chord, the basis of all harmony.

This remarkable science, or theory, whichever it may properly be called, has been put to practical purpose in the artistic and musical training of little children, at an age when their minds are especially susceptible to impressions of sweet sounds and bright colors, when the intelligence is mainly working through the medium of their senses.

### A FULL DAY'S WORK.

What a New England Farmer Accomplished.

Let some one should think an Aroostook farmer's life too free and easy, the Parkhurst correspondent of the Fort Fairfield Beacon gives this account of an average day's work during the potato-digging season: "I went to bed at 11 p. m. with the conviction that I must get up at 4 a. m. (local time). Awoke when the clock struck 2 and dared not go to sleep again for fear of sleeping over. Jumped out of bed at 4 o'clock, ran to the barn, dressed myself as I went, and fed and harnessed four horses; ran to the house and woke the old woman (for good reasons farmers' wives often sleep with the hired girl through potato digging); ran to the spring and back twice; greased the double wagon; mended a check rein; unloaded four barrels and a basket of potatoes and dumped 16 barrels; 5, woke up the crew; 5:30, breakfast; 5:33, ran to the barn again, got the horses on the wagon and started for the factory; 6, arrived at factory, horses steaming, two acres of teams ahead of me; everybody swearing; 6:30, lit my pipe; 7, gave some of the boys a lesson in careless language; 8, lit my pipe again; 9, went into the boarding house and tried to buzz the cook; 10, told a big yarn; 11, stole a bottle of whisky; 12:30, got unloaded, full as a starch factory, and ran the horses all the way home, arriving at 1; had a row with a Frenchman and forgot to eat dinner; 2, chased four Arab peddlers out of the field, then hauled potatoes to the cellar till 7; 8, had supper, unharnessed and cared for the horses, went to the spring twice more, shoveled potatoes in cellar till 9:30, got a chance to kiss the hired girl twice; 10, went to bed happy.

### PLAN IS PERFECTED.

Oregon Development League Convention in Portland.

Arrangements are being perfected for the meeting of the Oregon Development League to be held in Portland April 26-27. From La Grande and all points east the O. R. & N. Railroad will make an open rate of one fare for the round trip, and from points west of La Grande one fare and a third for the round trip. The Southern Pacific has made a rate of one fare for the round trip from a point south of Glendale and a corresponding rate of one and a third fare for the round trip from points between Glendale and Portland. The Northern Pacific makes the tickets good on trains arriving on the morning of April 26 or April 27. Tickets on all roads are good for return until April 28.

Though the complete programme has not been arranged, it has been announced that the morning sessions will be general meetings in which all members will participate, the afternoon sessions to be in sections. On the afternoon of April 26 the good roads section, in charge of J. H. Scott, of Salem, will meet with the entire league for the consideration of matters peculiar to that section. The other sections will represent fruits, dairying and mining. It is hoped that by working the sections better results will be attained and more material benefit will be derived from the convention. Secretary Richardson has been advised that there is a movement on foot among the several districts to bring the greatest number of people to the convention, and indications are that the meeting will be a great success, and that the attendance will not fall short of 1500. Newberg, it is said, will send a representative delegation and will report excellent progress in that district. Independence is another town from which great things are expected, while Hood River, which made a fine representation a year ago, will be present 100 strong with a marching club, the members of which will carry apple wood canes, symbols of the orchard industry, which has made that section famous. Eastern Oregon will also send a fine representation to the convention.

### Four Thousand Arrowheads.

One of the most interesting displays of its kind in existence is that of the Tallman collection of arrowheads which is now shown in the window of the Tallman drug store. There are 4000 points shown in the window, and there are as many more in the collection, though not as perfect specimens as those shown.

For the past 15 years Mr. Tallman has been engaged in securing his collection, and he has spent much time and a great deal of money in securing good arrowheads. He has been offered large prices for the collection, but has steadily refused to part with them.—Pendleton E. O.

An entirely new Italian cabinet has been organized.



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### West to Dig Canal.

Chicago, April 8.—Western men are to have a long leeway allowance in the selection of capable engineers and contractors for the work on the Panama Canal. Not that there is to be a sectional discrimination in selecting the subordinates who serve under the new Canal Commission, but, as Chairman T. P. Shonts said today:

"We wish to employ the men who have practical knowledge of direct construction work, who can do the best and most effective work for the Government in the shortest reasonable time and for the best legitimate price—and I love Western men.

"I had intended to make certain appointments before my departure for the East, but for purely business reasons I have decided to hold them off. I leave for New York tomorrow, and from there go to Washington, to be with the Commission until such time in the near future as I can leave for Panama.

"In selecting superintendents, foremen, engineers and the other skilled labor to be employed on the canal, we will dig up the man that can think, act and do honestly in the best way for the best interests of the United States Government. We want the practical man who has had construction experience. And Western men in railway work have had this."

### Robbed the Grave.

A startling incident is narrated by John Oliver of Philadelphia, as follows: "I was in an awful condition. My skin was almost yellow, eyes sunken, tongue coated, pain continually in back and sides, no appetite, growing weaker day by day. Three physicians had given me up. Then I was advised to use Electric Bitters; to my great joy, the first bottle made a decided improvement. I continued their use for three weeks, and am now a well man. I know they robbed the grave of another victim." No one should fail to try them. Only 50c, guaranteed at Slocum Co.'s drug store.

### Tragedy Averted.

"Just in the nick of time our little boy was saved," writes Mrs. W. Watkins, of Pleasant City, Ohio. "Pneumonia had played sad havoc with him and a terrible cough set in besides. Doctors treated him, but he grew worse every day. At length we tried Dr. King's New Discovery for Consumption, and our darling was saved. He's now sound, and well." Everybody ought to know, it's the only sure cure for Coughs, Colds and all Lung diseases. Guaranteed by Slocum Drug Co., Druggists. Price 50c and \$1.00. Trial bottles free.

If taken this month, keeps you well all summer. It makes the little ones eat, sleep and grow. A spring tonic for the whole family. Hollister's Rocky Mountain Tea. 35 cents, Tea or Tablets W. P. McMillan, Lexington, O. agent.

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WANTED: Capable men and women for CENSUS WORK and to act as Representatives in this and adjoining territory for magazine and music business of old Established House. Our catalogues list over 3,000 magazines and 5,000 selections of music at CUT PRICES. Salary \$18.00 per week. Experience unnecessary, but good references required. Address, SPRAGUE WHOLESALE CO., 270 Wabash Avenue, Chicago, Ill.

It will bring rich, red blood, firm flesh and muscle. That's what Hollister's Rocky Mountain Tea will do. Taken this month, keeps you well all summer. 35 cents, Tea or Tablets—W. P. McMillan, Lexington Oregon.

If you take this paper and The Weekly Oregonian you won't have to beg your news.

## No Case of Pneumonia on Record

There is no case on record of a cold resulting in Pneumonia, or other serious lung trouble, after

## FOLEY'S HONEY and TAR

had been taken.

It stops the cough and heals the lungs and prevents serious results from a cold.

Do not take chances on a cold wearing away or experiment with some unknown preparation that costs you the same as Foley's Honey and Tar.

Remember the name and get the genuine.

### A Severe Cold for Three Months.

The following letter from A. J. Nussbaum, of Batesville, Ind., tells its own story: "I suffered for three months with a severe cold. A druggist prepared me some medicine, and a physician prescribed for me, yet I did not improve. I then tried Foley's Honey and Tar, and eight doses cured me."

Three sizes—25c, 50c, \$1.00. The 50 cent size contains two and a-half times as much as the small size and the \$1.00 bottle almost six times as much.

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