THE DOMAIN OF SCIENCE.

The following lecture on the Domain of Science was delivered by F. M. Bishop at a joint meeting of the Young Men's and Young Ladies' Mutual Improvement associations of Farmers ward, on the evening of November 15:

My Friends.—The subject assigned to me by your committee is too broad and sweeping in its comprehension to be intelligently discussed in a single evening, and in the brief space allotted to the subject in our program, if we but wet our feet to the suit on the glittering beach of that boundless ocean which science reveals to the earnest student and gather a few drops of knowledge from the great museum of Creation, we shall do well. For the careful, diligent searcher after knowledge, there are always rich rewards for his perseverance in conscious virtue, and so we must not be discouraged if in our first efforts we do not reach the acme of our hope, but from each fall in the conflict rise with a stronger will and greater determination to win the prize.

Science is systemized knowledge,' and in the study of our earth, its contents and surroundings, we divide our theme and classify our investigations under three grand divisions, viz.: The mineral, vegetable and animal kingdoms.

"In the beginning God created the heavens and the earth. And the earth was without form and void; and darkness was upon the face of the deep; and the Spirit of God moved upon the face of the waters. And God said let there be light, and let there be a firmament to divide the waters, and He commanded the waters under the firmament to be gathered together into one place, and the dry land to appear, and God called the dry land earth and the gathered waters called He seas."

Here we have our first grand division of the subject.

THE MINERAL KINGDOM

for the rock ribbed earth with its rich stores of rare and beautiful, as well as useful minerals and metals, is ready for the second grand epoch of creation. And who shall declare the measureless ages or cycles of evolution through which the wisdom of the Creator, resting and hastling not, but by the ceaseless action of His laws, working out every detail of upheaval and depression, of erosion of rugged mountains and its by settling, silting, rushing torrents carrying down the dissolving peaks and filling up the yawning chasms and deep gorges, changing, modifying everywhere, preparing the surface of the earth for the second great epoch of creation. When the rough ways have been made smooth, and the valleys formed, and the earth with springs and rippling streams stand ready—God commanded the earth to bring forth grass and herbs, shrubs and trees each with fruit and seeds after its kind, and at his command order was evoked from chaos in the laboratories of earth and the herculean forces of nature begin their ceaseless work, breaking up and transforming the lifeless rocks, unclosing their latent powers and by the ever present agency of water and the wonderful law of assimilating changing by its magic wand the bleak desert-like surface into green meadows, flower-clad hills anon to be crowned with stately forests of oak and cedar, pinon and pine everywhere proclaiming by their inviting shades, fragrant flowers, luscious fruits and ripening seeds, the barren earth regenerated and complete in the second grand division of science:

THE VEGETABLE KINGDOM.

And God commanded and the seas brought forth fish and fowls and great whales, and the earth brought forth cattle and creeping things, beasts of the field and of the forests. And God created man in His own image and gave him dominion over all things He had created. And the waters full of life, the mountains and valleys, the meadows and marshes, the forests and lofty fruit with saw and hoe are the products the third and last great division of our theme ripe from the hands of the Creator in the others of creation:

THE ANIMAL KINGDOM.

First from the storehouses of space were gathered the material of the solid earth; then by erosion, solution, precipitation, and chemical change, the matter crust is prepared for a most wonderful transformation, when the science of nature's laboratories is evoked and behold the magic wand! A world of beauty awaits the advent of moving vocal life for which it is fully prepared. No longer can mystery the intricate mechanism of the lock that holds the wealth of knowledge in this our wonderful earth, but to the earnest student delving after truth, science today is opening her richest stores of wonderful things, breaking the iron bands which hold her hidden treasures and unlocking yet more wonderful secrets for the reward of the sincere student.

Some great discovery today startles and astonishes the civilized world, and tomorrow it is eclipsed and lost sight of in the glare of some more startling revelation of science. In astronomy, by the aid of the telescope and photography, the heavens are opened out like a scroll, and we can study the topography of our sister planets of the solar system, as was recently shown in Flagstaff, Arizona, where a series of observations which ended on November 11 showed that the surface of Mars is covered by a network of canals as if arranged by intelligent beings. Also that Venus and Mercury, like our moon, venue but one side on their axis during their revolution about the sun; that the intense heat of Mercury is modified by an atmosphere, and that Venus showed plenty of atmospheric phenomena.

How marvel to the advancement recorded in the domain of electricity as shown by the application of scientific knowledge. Only a few years ago there would was electrified by the message of the electric telegraph; then the thrilling of Morse's cable as the message was slowly, yet surely sent from continent to continent, caused the world to hold its breath for fear the cable would part and the effort be a failure. But this science never lags. Dynamos and lines have been established by the aid of electricity, when we harness the lightning to the engine of science we do little more than of spice or distance whether it be an ocean or a continent. We talk, laugh, sing, play, or declaim and the phonograph repeats our effusion to a thousand different audiences at a thousand different places. Our homes are warmed, lighted and cooked by electricity. By its our cars, factories and shops are kept running. By the telephone we are enabled to talk to a city in Chicago and converse with a friend or merchant business in New York, St. Louis or Omaha.

In other departments of our domestic economy advancement is not less marked. Science waves her magic wand over coal dust and lo! and behold before the sun has set they are delivered at our door in sacks of snowy sugar. She stretches on the forest and her offspring immortals scatter refined by thousands of quaint and useful forms among the homes of the people. She stamps her foot upon the earth and from the coal deposits a myriad of hydrocarbons answer to minister to the increasing wants of man. She speeds and reverses trains from quarries, mines, forests and factories respected and from the Ferris wheel we look down upon a city boasting of such triumphs of skill and art as the Masonic Temple, or from the Brooklyn bridge gaze down on two great cities by the light of Liberty's Lamp. Science has plunged into Niagara's rushing waves, chained the mighty giants, led them captive through tunnels, and as the prisoners of liberty turned them through great wheels back into the raging cataract below, whose hoarse mutterings are almost lost in the shorter hum of the wheels of industries kept running by the ensnaring waters.

In mining and milling of the precious ores we have made such remarkable advancement by the aid of scientific research, as almost to startle the miner and metallurgist. By the use of the many alkaloids placed within the reach of the physician and surgeon they are enabled to fill disease and prolong most delicate operations where a human life hangs by but a thread, and the result seems almost like raising one from the dead. One instance will illustrate, that is the taking of healthy flesh and restoring, by transplanting, a deceased member, and grafting particles of skin from healthy subjects onto wounds where all skin has been destroyed, and restoring a perfect surface. So in all the walks of trade and in every department of industry, science has taken the crude material and by her wonderful energies has wrought almost miracles. She has led the turbid waters from their ancient ways and upon the waste places and turned the idle desert into fruitful fields and blooming gardens. She has opened the great highways of commerce, and made a pathway of ribbons of steel over the continents for the handling of the products of industry. The time was when war was the content of little more than numerical force, but in a science, and more especially as regards the great navies of maritime nations. The modern battleship is an aggregation of engines of destruction and munitions and implements of defense. Here again electricity is made potent factor in conducting the great torpedo, ponderously through the waters carrying destruction and death to an unseen enemy, unless perchance its presence is revealed by the powerful electric search light and the defence machinery of the great ship is instantly put in motion. The modern dynamite guns of modern battleships are almost beyond conception in the devastation and death they may pour against an enemy, and especially when you realize that against them there is no possible defence. A thousand pound dynamite shell buried against an ordinary battleship would simply annihilate it, wipe it out of existence as effectually as if it were swept up by a tornado of its size. War is becoming more terrible and the dawn of the reign of peace is approaching. Science by her willing servants is coming to the aid of the toiling millions, lifts the burdens from the weary shoulders of man and does his bidding tirelessly. She distributes water and gains for him the state, opens up for him the treasures hidden from the foundation of the earth.

And in all these things we see the love and wisdom of the great Creator, who filed the Bible with silver and gold, from one report, who sits on the lightnings and stores the rain in the firmament; who stretches out the heavens and raises the ocean to come in their appointed time, and by all these are we admonished to

"Be like that wave yon solitary cause,
To join the concentrated mass of seas,
Which moves to that mysterious realm,
Where soul meets love in one embrace," etc.
In the second half of the week,
Then go not like the quarry slave, at night,
Scourged to his dungeon,
But rouse and stand erect by an unfaltering trust,
Approach thy grave like one who wraps the drapery of his couch about him,
And lies down to pleasant dreams.

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ASSESSMENT NOTICE.

North Point Consolidated Irrigation Company. Location of principal place of business, Room 20, 26, Cullen Block, West, second South Street, Salt Lake City, Utah.

NOTICE IS HEREBY GIVEN THAT at a meeting of the directors of the company held on November 16, 1896, an assessment of ninety (90) cents per share was levied on the capital stock of the corporation, payable on December 1, 1896, to the secretary, at the office of the company, Room 20, 26, Cullen Block, West second south street, Salt Lake City, Utah. Any stock upon which this assessment shall remain unpaid on the first day of December 1896, will be delinquent and advertised for sale at public auction, and unless payment is made before, will be sold on the day of sale to pay the delinquent assessment, together with cost of advertising and expenses of sale.

ARTHUR PARDOE,
Secretary.

Salt Lake City, Utah, November 16, 1896. Secretary may be addressed care of Z. C. M. I.

ASSESSMENT NOTICE.

Office of Crown Point Gold and Silver Mining Co., 424 McCornick Block, Salt Lake City, Utah, October 26, 1896.

NOTICE TO THE STOCKHOLDERS OF the Crown Point Gold and Silver Mining Co.: The board of directors of the company at a meeting held on October 24, 1896, levied an assessment (No. 3) of one cent per share, payable immediately to the undersigned at the office of the company, Room 424 McCornick Block, Salt Lake City, Utah. Any stock upon which this assessment has not been paid on the first day of November, 1896, will be delinquent and advertised for sale, and unless payment is made before, will be sold on the day of sale to pay the delinquent assessment, together with cost of advertising and expenses of sale.

ALBERT DAY,
Secretary.

Office of West Second South Street, Salt Lake City, Utah.

SHERIFF'S SALE.

NOTICE IS HEREBY GIVEN THAT on a judgment in an order of sale and decree of foreclosure and sale issued out of the Third Judicial District Court of the State of Utah, in and for Salt Lake County, in a cause therein pending and wherein Julia A. Woolley, administratrix of the estate of Henry A. Woolley, deceased, is plaintiff and Thomas Kearns, defendant, to me directed and delivered, I will sell at public auction to the highest bidder for cash in the United States gold coin, the following described real estate, situate in Salt Lake County of Salt Lake, State of Utah, on the 12th day of December, A. D. 1896, at 12 o'clock noon, all the right, title and interest which the said defendant had in and to the following described real estate, situate, lying and being in the County of Salt Lake, State of Utah, and particularly described as follows, to wit:

Being a one-sixth (A) undivided interest (one-one-third (1-3) held as a life estate by right of dower) in the south half (S½) of lot eight (8), block fifty-six (56), plat "A" Salt Lake City survey, according to the official plat of said survey of ground in the said city, in the City and County of Salt Lake, State of Utah, as the property of Henry A. Woolley, deceased, and the same is subject to the dower right of said Woolley, deceased.

Dated at Salt Lake City, Utah, November 6, A. D. 1896.

HARVEY HARDY, Sheriff.

By G. S. Clark, Deputy Sheriff.
BROWN, LEE & GOAT, Attorneys for Plaintiff.

NOTICE TO CREDITORS.

Estate of William H. Kane, Deceased.

NOTICE IS HEREBY GIVEN BY THE undersigned administrator of the estate of William H. Kane, deceased, to the creditors and all persons having claims against the said deceased, to exhibit them, with the necessary vouchers, within ten months after the date hereof, to the undersigned, at the office of his attorneys, at N. S. Jones's law block, in Salt Lake City, in the county of Salt Lake, Utah.

Dated November 6th, 1896.

W. F. KINS,
Administrator of estate of William H. Kane, deceased.

E. M. S. Thompson, Attorney for estate.

ASSESSMENT NOTICE.

Burbank Mining Company. Location of principal place of business, Salt Lake City, Utah.

NOTICE IS HEREBY GIVEN THAT AT a meeting of the board of directors of the Burbank Mining Co. held at Salt Lake City, Utah, October 26, 1896, an assessment of one (1) cent per share was levied upon the capital stock of the corporation, payable on demand to the undersigned at the office of the company, Room 1, Templeton Block, Salt Lake City, Utah. Any stock upon which this assessment shall remain unpaid on the 26th day of November, 1896, will be delinquent and advertised for sale, and unless payment is made before, will be sold on the day of sale to pay the delinquent assessment, together with the costs of advertising and expenses of sale.

FRANK Y. TAYLOR,
Secretary.

Salt Lake City, November 26, 1896.

ASSESSMENT NOTICE.

The Lost Chance Mining Company, Salt Lake City, Utah; location of Works at Ophir, Utah.

NOTICE IS HEREBY GIVEN THAT AT a meeting of the board of directors of the Lost Chance Mining Company, held on October 10, 1896, an assessment of one and a half (1½) cents per share was levied upon the capital stock of the corporation, payable on demand to David James, vice president, at his office, 270 South Main street, Salt Lake City, Utah. Any stock upon which this assessment shall remain unpaid on the 10th day of November, 1896, will be delinquent and advertised for sale at public auction, and unless payment is made before will be sold on the day of sale, to pay the delinquent assessment, together with the costs of advertising and expenses of sale.

E. S. ANDERSON,
Secretary.

DELINQUENT NOTICE.

The Ellen Gold Mining Company. Principal place of business, Salt Lake City, Utah.

NOTICE, THERE ARE DELINQUENT on the following stock on Salt Lake Stock Ledger, on account of assessment No. 1, levied on the 6th day of September, 1896, the amount thereon set opposite the names of the respective shareholders, as follows:

Name	No. Certificate	No. Shares	Amount
E B Shoebridge	20	10,000	$100.00
E B Shoebridge	21	2,000	20.00
John Sharpe Hallbergh	44	1,000	10.00
Angelina Wooten	78	1,000	10.00
Angelina Wooten	79	1,000	10.00
Nellie M. Wall	42	650	6.50
Nellie M. Wall	43	1,000	10.00
James Rogers	14	1,000	10.00
James Rogers	15	1,000	10.00
James Rogers	16	1,000	10.00
James Rogers	17	500	5.00
James Rogers	18	500	5.00

And in accordance with law and the order of the board of directors of said company, made on February 10, 1896, and in the year of our Lord 1896, so many shares of each parcel of said stock as may be necessary will be sold at the office of the company, room 16 and 17 Gem Block, Salt Lake City, Utah, on the 26th day of November, 1896, at 12 o'clock p. m., to pay the delinquent assessment thereon, together with the costs of advertising and expenses of sale.

JOSEPH J. ROGERS,
Secretary.

Dated Salt Lake City, Utah, October 26, 1896.

By a resolution of the board of directors, the assessment on the capital stock of the Ellen Gold Mining Co., levied on the 10th day of December, 1896, at the same hour and place.

JOSEPH J. ROGERS,
Secretary.

Dated Nov. 21, 1896.

NOTICE TO CONTRACTORS

Office of the Board of Public Works, Room 300 City Hall.

SALT LAKE CITY, UTAH, Nov. 7, 1896.

SEALED PROPOSALS WILL BE RECEIVED at the above mentioned office, on the 23rd day of November, 1896, for the work of constructing the sewers in Sixth West street, beginning at Bonbon ave., 400 and running south 1,200 feet, and in Bonbon ave., 400 in the City Hall engineer's office. Instructions to bidders, specifications and forms for proposals and contracts and bond can be obtained upon application at the office of the City Engineer. The right is reserved to reject any or all bids.

By order of the Board of Public Works.

J. C. DOLBATH, Chairman.

SUMMONS.

In the District Court of the Third Judicial District of the State of Utah, County of Salt Lake.

Hulda Clark, Plaintiff,
vs.
Anna Goddard and Thomas Goddard, Defendants.

The State of Utah sends greeting to Anna Goddard and Thomas Goddard, Defendants.

YOU ARE HEREBY REQUIRED TO APpear in an action brought against you by the above named plaintiff, in the District Court of the Third Judicial District, in and for Salt Lake County, Utah, and to answer the complaint filed therein within ten days (exclusive of the day of service) after the service on you of this summons, if served within this county, or if served out of this county, but in this Judicial District, within twenty days; or else judgment will be taken against you by default. Will take notice that the object of the action is to obtain a decree of divorce dissolving the bonds of matrimony heretofore existing between plaintiff and defendant, and for the custody of the minor children, and for alimony and costs, and plaintiff in the course of the action will apply to the court for the relief demanded in the complaint, which is hereby made a part of this summons, to which reference is hereby made, and for a decree of divorce dissolving the bonds of matrimony heretofore existing between plaintiff and defendant, and for the custody of the minor children, and for alimony and costs, and plaintiff in the course of the action will apply to the court for the relief demanded in the complaint, which is hereby made a part of this summons, to which reference is hereby made, and for a decree of divorce dissolving the bonds of matrimony heretofore existing between plaintiff and defendant, and for the custody of the minor children, and for alimony and costs, and plaintiff in the course of the action will apply to the court for the relief demanded therein.

Witness the seal of said court this 23 day of the month of October, in the Third Judicial District, in and for the state of Utah, in the year of our Lord one thousand eight hundred and ninety-six.

C. E. STANTON, Clerk.

By J. H. SCRAGGS, Deputy Clerk.

SHERIFF'S SALE.

NOTICE IS HEREBY GIVEN THAT PURsuant to an order of sale and decree of foreclosure to me directed from the Third Judicial District court of the State of Utah, County of Salt Lake, in a cause therein pending wherein Jacob Forrester and Mrs. Louisa Forrester, his wife, are plaintiffs, and Mrs. Jessie Johnson, Mary Johnson, guardian, Thomas Johnson, Mrs. Ellen Thomas, Thomas Thomas and Mrs. Hulda Thomas, his wife, are defendants, I will sell at public auction to the highest bidder for cash in the United States gold coin, the following described real estate, situate, lying and being in the County of Salt Lake, State of Utah, and particularly described as follows, to wit:

Lot 1, in block 10, Lowe's Addition to Salt Lake City, according to the official plat and survey of said addition, on file and of record in the office of the County Recorder of said