

SCIENTIFIC MISCELLANY.

STELLAR PARALLAX.

In determining the distances of stars, angular measurements are made at intervals of six months, the parallax being the apparent change of position which results from shifting the point of view about 183,000,000 miles, the diameter of the earth's orbit. Even with this immense base-line, the direction in which the stars are seen is scarcely altered. The parallax of about a dozen stars, varying between 0.919 seconds and 0.046 seconds has now been determined. The nearest star to us is Alpha Centauri, distant about 20,496,000,000 miles. The average distance of first magnitude stars is probably several times as great as this.

Ten species of North American birds are named by Mrs. E. M. Hasbrouck as missing. Of these, two—the great auk and the Labrador duck—are believed to have become extinct, while the following eight, through scarcity or diminutiveness, were "lost" with the taking of the first specimens, and are now being eagerly sought: The carbonated warbler, blue mountain warbler, small headed warbler, Cuvier's kinglet, Townsend's bunting, Brewster's linnet, Bachman's warbler, and the Cincinnati warbler.

It has long been known that carbonic acid gas produces a sensation of greater warmth on the skin than air of the same temperature. Dr. Goldschneider, of the Berlin physiological society, finds the phenomenon to be chiefly due to direct chemical action on the endings of the heat nerves.

A prize of 25,000 francs, instituted by the king of the Belgians, is to be awarded in 1893 for the best paper on means for abundantly and cheaply providing large towns, especially Brussels, with the best quality of potable water.

Australia has some giant caterpillars. Mr. A. S. Olliff, of Sydney, mentions one moth larva, abundant during the past season, as being seven inches long, and specimens of larva of two other species measure eight inches in length.

ELECTRIC POWER FROM COAL.

The direct conversion of heat into electric work is a problem that continues to tax the ingenuity of electricians. What seems to be the most promising attempt at solution yet made is a new thermo-magnetic generator and motor devised by M. Menges, of the Hague. Like the recent pyro-magnetic dynamo of Edison, it depends upon the fact that the magnetic metals lose their magnetic power when heated. It claims several important advantages, however, the chief being that the necessary alternations of heating and cooling are given automatically, and that the cores of the armature coils are relieved from changes of temperature.

Experiments have been made in transplanting the beautiful Alpine edelweiss into the mountains of Bohemia and other places. In its new homes the plant seems to be changing its character, and in the mountains of upper Austria it has become transformed into a new species, bearing red flowers instead of the beautiful ermine-like white blooms.

A kind of artificial rabies has been produced in rabbits and birds by injections of oil of tansy. This malady was overcome by treatment with chloral, and the experimenter, Dr. Brown Sequard, reasons from analogy that suitable administrations of this drug would prevent true rabies in man.

The mean height of the land above sea-level, according to Mr. John Murray, is 2,250 feet; and the mean depth of the ocean is 12,480 feet. Only two per cent. of the sea is included inside a depth of 500 fathoms, while seventy-seven per cent. lies between 500 and 3,000 fathoms. If the land were filled in to the hollows, the sea would roll over the earth's crust to a uniform depth of two miles.

Considerable differences in the standard barometers of the principal European observatories have been found by Mr. F. A. Sundell, of the Scientific society of Finland.

DEMOCRATIC STATE CONVENTION.

A democratic state convention for the state of Oregon is hereby called to meet at Pendleton, Umatilla county, on Tuesday, April 3, 1888, for the purpose of nominating a candidate for member of congress, a candidate for judge of the supreme court, six delegates to the national democratic convention, and six alternates; to ratify the various district nominations, and such other business as may properly come before the convention.

Said convention will be composed of 155 delegates, apportioned to the various counties on the vote cast for candidate to congress at the election of 1886, being one delegate for each county and one for every 200 and fraction over 100 votes so cast. In accordance with said apportionment, the respective counties will be entitled to the following representation:

Baker	5	Linn	9
Benton	6	Malheur	2
Clackamas	7	Marion	9
Clatsop	5	Morrow	4
Columbia	5	Multnomah	17
Cook	4	Polk	3
Crook	4	Tillamook	2
Curry	2	Umatilla	8
Douglas	6	Union	6
Gilliam	3	Wasco	6
Grant	5	Washington	2
Jackson	7	Walla	2
Josephine	3	Yamhill	6
Klamath	3		
Lake	2	Total	155
Lane	7		

The committee respectfully recommends that the county conventions for the election of delegates to the state convention, unless otherwise ordered by the local county committee, be held on Saturday, March 24, 1888.

B. GOLDSMITH,  
Chairman Democratic State Central Committee.

FIFTY YEARS at the FRONT.

For nearly 50 years the recognized authority for the world over on all agricultural matters, always ahead of the times, and always spending lavishly for the best talent and experience, the

American Agriculturist

begins 1838 with new contributors, new articles and new type, and the editorial staff, which has made this periodical a power in both hemispheres, reinforced with fresh blood and brains thereby combining the experience and erudition of years with the vigor and freshness of youth. The American Agriculturist keeps pace with the growth of agriculture largely by about through its teachings, and continues to day, after absorbing twenty-four other agricultural papers, to furnish the current agricultural literature where the English and German languages are spoken. Every number contains nearly 100 original illustrations and original articles from 30 different writers.

Price, a Year, \$1.50  
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Subscriptions taken at this office.

Christ On Calvary.

These magnificent works of art are neither old time chromo nor ordinary engravings. The latter is an exquisite photographing, far superior to anything in the market. Christ On Calvary, the companion picture, is executed for us by the Meisinger process, which far surpasses any other for softness of tone, vigor of action and general superiority of execution. They are on heavy plate paper, 21x28 inches in size, forwarded, postpaid, in tubs prepared for the purpose. Price \$1.00 each, both forwarded in tubs, postpaid, to one address for \$1.50. American Agriculturist (English or German) with choice of pictures, \$1.60. American Agriculturist (English or German) with the two pictures, \$2.10.

Send postal for specimen number, English or German, full description of the pictures, and portrait of Munkacsy, the painter of these great works, now attracting world-wide attention.

Canvassers Wanted Everywhere.

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David W. Judd, Pres., 751 Broadway, N. Y.

Notice of Final Settlement.

Notice is hereby given that the undersigned J. B. Layson, administrator of the estate of Daniel Cox, deceased, has filed his final account of his administration of said estate in the county court of Yamhill county, Oregon, and said court has fixed Tuesday, March 6th, 1888, at the hour of one o'clock in the afternoon of said day at the county court room at Lafayette, Oregon, as the time and place for hearing the same.

Therefore all persons interested in said estate, are hereby notified and show cause if any have by said estate be not finally settled. Dated this 20th day of January, 1888.

J. B. LAYSON,  
Administrator of said Estate.

FENTON & FENTON,  
Attorneys for Estate.

25-51

Notice of Final Settlement.

Notice is hereby given that the undersigned J. T. Fouts, administrator of the estate of Oliver Fouts, deceased, has filed his final account of his administration of said estate in the county court of Yamhill county, Oregon, and said court has fixed Tuesday, March 6th, 1888, at the hour of one o'clock in the afternoon of said day, at the county court room at Lafayette, Oregon, as the time and place for hearing the same.

Therefore all persons interested in said estate are hereby notified and show cause if any have by said estate be not finally settled. Dated January 27th, 1888.

J. T. FOUTS,  
Administrator of said Estate.

FENTON & FENTON,  
Attorneys for Estate.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

S. C. FORCE, Plaintiff,

vs.

JANE FORCE, Defendant.

To Jane Force, said defendant: In the name of the state of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the first day of the next regular term of this court, which is Monday, March 26, 1888, and if you fail to answer, for want thereof the plaintiff will apply to the court for a decree dissolving the bonds of matrimony, and for the care and custody of the said children, and for the partition of the real estate to-wit: Beginning at a point 2 feet east of the southwest corner of lot 7, block 17, of the town of McMinnville, Yamhill county, Oregon, thence east 21 feet, north 100 feet, west 21 feet, south 100 feet to place of beginning, and for such further relief as shall be required.

This summons is published six weeks in the Oregon Register by order of Hon. H. P. Boise, Judge of said court, made at chambers, January 20, 1888.

FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

This summons is published in the Oregon Register for six weeks by order of Hon. H. P. Boise, Judge of said court, made at chambers in Salem, Oregon, January 14th, A. D., 1888.

FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

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In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

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In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

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JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

To George M. Bridgeman, defendant above named: In the name of the state of Oregon you are hereby required to appear and answer the complaint filed against you in the above entitled cause on or before the 26th day of March, 1888, that being the first day of the next regular term of said court, next after due service of this summons upon you by publication as by law provided, and if you fail to answer, the plaintiff will take judgment against you for the sum of \$50, with interest thereon from May 30, 1887, at ten per cent. per annum; for the sum of \$50.25, with interest thereon from October 20, 1885, and ten per cent. per annum; and for the sum of \$25 attorney's fees, and the costs and disbursements of this action, and an order of sale of the real and personal property attached in said cause.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

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JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

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FENTON & FENTON,  
Attorneys for Plaintiff.

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FENTON & FENTON,  
Attorneys for Plaintiff.

25-51

Summons.

In the circuit court of the state of Oregon for Yamhill county.

JANE W. BRIDGEMAN, Plaintiff,

vs.

GEORGE M. BRIDGEMAN, Defendant.

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Notice of Final Settlement.

Notice is hereby given that the undersigned J. B. Layson, administrator of the estate of Daniel Cox, deceased, has filed his final account of his administration of said estate in the county court of Yamhill county, Oregon, and said court has fixed Tuesday, March 6th, 1888, at the hour of one o'clock in the afternoon of said day at the county court room at Lafayette, Oregon, as the time and place for hearing the same.

Therefore all persons interested in said estate, are hereby notified and show cause if any have by said estate be not finally settled. Dated this 20th day of January, 1888.

J. B. LAYSON,  
Administrator of said Estate.

FENTON & FENTON,  
Attorneys for Estate.

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