

SCIENTIFIC MISCELLANY.

A GERMINATING SCIENCE.

According to Dr. Horatio Hale, ethnology, or "the science of the races of man," will become a true science only when the tribes are grouped by the evidence of language. A scientific treatise on ethnology will commence, like a treatise on chemistry, with the primary elements, which are the linguistic stocks. It will determine, as far as possible, the mother-tongue and the original geographical center of each stock. It will describe the moral and intellectual traits and the physical characteristics of the people. It will ascertain their mythology, their social system, their industries and arts. It will trace their migrations, their interminglings with other sects, and the moral and physical changes caused by these wanderings and mixtures, and by climate, soil, food, manner of life, and all other influences. And finally, from ascertaining what has been, it will seek to determine what is to come, and to show us something of the future which the human species, in its various divisions, may expect to attain.

SLAVE-DEPENDENT INSECTS.

The curious fact has been demonstrated by Sir John Lubbock that certain kinds of ants are unable to exist without keeping other ants as slaves, though why this is so he has not found out. On removing the slaves from a nest of fifty slave-holding ants, he found that the latter immediately commenced to die off and were speedily reduced in number to six, when the slaves were returned, and the mortality ceased.

Abdominal massage has been successfully applied by Dr. H. Sahli, of Berne, to the cure of constipation. His patients are recommended to roll a five-pound cannon ball over the abdomen for five or ten minutes daily.

Tannin has been discovered as an animal substance by M. Villon, a French chemist, who finds that corn weevils contain about three per cent. of it.

SEALS WITH BALLAST.

The seals are carnivorous mammals divided into two classes—the *Phoca*, or common seals, with rudimentary ears, and the *Otaria* (sea lions, bears, elephants), which have the ears developed. In a late paper before some British naturalists, Dr. A. J. Harrison stated that the *Otaria*, which inhabit the waters of the southern hemisphere, are supposed by the fishermen to have an internal pouch in which rounded stones are carried to enable the animal to sink below the sea's surface when fat. Observations have shown, however, that the so-called "ballast-bag" is only the stomach. To account for the presence of the stones in this organ it has been suggested that they are intended to aid in the trituration of food, while other persons believe that they have been accidentally introduced with the food, or in play. Similar rounded stones have been found in seals and sea-lions which have been confined in London, and the stomach of a Newfoundland seal which died at Clifton in 1886 contained gravel, nuts and pieces of stick.

The power of various explosives has been calculated to be equivalent to the following pressures, the figures giving tons per square inch: Emmensite, a new explosive for which important advantages are claimed in addition to great power, 283; nitroglycerine, 264; explosive gelatine, 253; forcite, 250; oxomite, 249; pancastite, 203; gun cotton, 198; dynamite, 144; atlas, 133;

rackarock, 117; roburite, 24; blasting gun powder, 23.

An English chemist has shown that the brittleness of the bones of the aged is not due, as is generally supposed, to an increase of the proportion of mineral salts with advancing years. From a section of the femur of fifty subjects of different ages no difference in the proportion of ash could be determined.

An analysis of "mystery gold" reveals an alloy of copper, silver, gold, aluminium and iron. Even when present in small proportion, the aluminium, resists the nitric acid test.

Austrian engineers speak favorably of Gieszle's pilot engine for preventing railway collisions. It is worked by electricity, under the control of the engineer, and is run at any desired distance in front of the train, which it stops automatically on encountering any obstacle.

Seven varieties of fishes examined by naturalists of the Challenger expedition are found totally blind in the deep sea, but have eyes when inhabiting shallow water.

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

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. R. GOLDSMITH, Chairman Democratic State Central Committee.

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Notice for Publication.

LAND OFFICE AT OREGON CITY, Oregon, Jan 17th, 1888.
Notice is hereby given that the following-named settler has filed notice of his intention to make final proof in support of his claim, and that said proof will be made before the county judge or clerk of Yamhill county, Oregon, at Lafayette, Oregon, on Wednesday, March 14th, 1888, viz:
L. O. Hanchett, Homestead Entry No. 5637.

For the S. 1, 2, 3, 4 and the S. 5 of N. W. 1/4 and the E. 1/2 of S. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

W. T. BURNETT, Register.

Notice of Final Settlement.

Notice is hereby given that the undersigned J. R. Layson, administrator of the estate of Wilson Gibson, 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 required to appear at said time and place and show cause if any have he why said estate be not finally settled. Dated this 26th day of January, 1888.
J. B. LAYSON,
Administrator of said Estate.
FENTON & FENTON,
Attorneys for Estate. 25-54

Notice for Publication.

LAND OFFICE AT OREGON CITY, Or., December 6, 1887.
Notice is hereby given that the following-named settler has filed notice of his intention to make final proof in support of his claim, and that said proof will be made before the county judge or clerk of Tillamook county, Oregon, at Tillamook, Oregon, on Saturday, January 28th, 1888, viz:
Olef Sundin,
Homestead entry No. 4,855, for the E. 1/2 of NW 1/4 and W. 1/2 of NE 1/4 of section 18, T. 8, R. 6 W.

He names the following witnesses to prove his continuous residence upon and cultivation of said land, viz: W. G. Kelso, J. W. Latimer, J. H. Swain and J. Davidson, all of Tillamook postoffice in Tillamook county, Oregon.
W. T. BURNETT, Register. 28-02

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