DESERET EVENING NEWS TUESDAY JUNE 9 1908



DESERET EVENING NEWS

PUBLISHED EVERY EVENING. (Sunday Excepted). Corner of South Temple and East Temple Streets, Salt Lake City, Utah.

Horace G. Whitney - Businers Manager.

SUBSCRIPTION PR'CES. (In Advance):

Correspondence and other reading mat-ter for publication should be addressed to the EDITOR. Address all business communication and all remittances: THE DESERTET NEWS. Salt Lake City, Utah.

Entered at the Postoffice of Salt Lake City, as second class matter according to Act of Congress. March 3, 1879.

SALT LAKE CITY. _ JUNE 9, 1908.

Y. M. AND Y. L. CONFERENCE.

The thirteenth general annual conference of the Young Men's and Young Ladies' Mutual Improvement associations of the Church of Jesus Christ of Latter-day Saints will be held in Salt Lake City, on Friday, Saturday and Sunday, June 12, 13 and 14, 1908. All officers and members of the associations are requested to be present at all of the meetings of the conference, and a cordial invitation is hereby extended to the Saints generally to attend the meetings to be held in the Tabernacle on Sunday, June 14, at 2 and 7 o'clock

JOSEPH F. SMITH. Ceneral Superintendent Y. M. M. I. A. MARTHA H. TINGEY, President Y. L. M. I. A.

UTAH RECOGNIZED.

The President, as will be seen in the dispatches, has appointed Senator Reed Emoot chairman of the Committee on Forests, as well as a member of the Executive committee, of the National Commission for the preservation of our national resources. This is a well deserved recognition of the ability of Utah's senior Senator, and of the services he has already rendered the country in his exalted office. It is a distinction of which Utah cannot but feel proud. Governor Cutler was one of the members of the committee on resolutions, suggesting the formation of national and state commissions and materially aided in the adoption of this wise measure. Utah is recognized in the councils of the nation as never before in the history of the State.

It is a question whether the importance of the results of the conference of governors held a short time ago in the White House, Washington, under the auspices of President Roosevelt, is generally appreciated. Those results were embodied in a series of resolutions adopted at the closing session. These resolutions were the work of the Governors of Utah, Louisiana, New Jersey, South Carolina, and Wisconsin, and they are broad in scope. They propose the holding of further national conferences to further consider the subject of the preservation of our natural resources: legislation looking to the protection of forests from destruction, the prevention of waste in mining, the protection of water resources for irrigation, water supply, water power and navigation; they recommend the creation of commissions, State and National, on the Conservation of Natural Re-

sources. The last recommendation is, perhaps, the most important of all. The wide on the sub ject is highly needed. In some countries the knowledge possessed by experts can very often be put into practice by means of a royal or imperial decree, but here, where the people rule, the people must be enlightened on the measures needed for the advancement of the public interests. If state and national commissions are created, in accordance with the recommendations of the governors the data needed for a true appreciation of the Country's stock in land, forests, water, minerals, etc., would be gathered, and legislation would be formed accordingly. The question of the preservation of the forests is one of great importance. Some years ago the National Forestry Some years ago the National Forestry Association pointed out that one cause of the decline of nations is the destruction of forests. There are other causes. but that is one. Before the forests of Lebanon were destroyed, Palestine supported millions of inhabitants on ar area that now scarcely sustains half a million. Syria, once maintained a multitude of prosperous towns and cities-Antioch alone having at one time a population estimated at half a million--but is now anything but a prosperous country. "The destruction of Syria's forests," says the Bulletin, "begun 2650, B. C. followed by the disappearance of her soil and the decay of her industries would alone have produced this effect. Babylon, once capital of the world, is a heap. Nineveh and Carthage, once the seats of mighty civilizations, and abundantly equipped by generous na-ture for permanent life,' are desolate wastes. Man destroyed the forests, and lands which once flowed with milk and honey were transformed into deserts." When such results of the destruction of natural resources are considered, the importance of the action taken by the congress of governors, on the recommendation of the committee on resolutions, of which the Governor of Utah was an influential member, will be understood. The preservation of a nation's natural resources is a question of national life, or death. The appoint. ment of Senator Smoot as chairman of be made.

rule for the nomination of candidates was also adopted at this first conven-Washington was chosen president by unanimous consent. Several preisdents were nominated by caucuses of congressmen, but that plan did not become popular. It was thought to have a tendency to establish parliamentary control. It was first when the nation was

sufficiently consolidated that the people took matters in their own hands. For the sake of comparison it can be stated that in Great Britain the prime minister is never chosen by a party convention. The sovereign selects for the position the leader of the party dominant in the House of Commons. This leadership is usually the natural outcome of long service on the part of a member who has proved himself a ready debater, and a man of executive ability. Disraeli, Gladstone and Salisbury claimed their premierships without the intervention of party conventions. The President of France is elected by the Senate and Chamber of Deputies and the President of Switzerland is also a parliamentary selection. The

British colonies have adopted the English scheme in preference to the Amer lean.

THE WATER DECISION.

The decision of Judge Morse establishing the rights of the City to the water acquired in the Big Cottonwood creek during the Morris administration. is a vindication of that administration against the unjust criticism of the so

called American party organ. During that administration several improvements were planned, with the consent of the citizens. One of these improvements was the acquisition of water rights for the purpose of remedying the scarcity from which the City had suffered every summer, for several years. To buy the water, construct a conduit, and extend the sewerage system it was necessary to bond the City, and the citizens voted a bond issue for

those purposes. But then something happened. In the first place the opposition organ claimed that the bond issue was not authorized by the vote, and this report was sent out to frighten capital away Special representatives of the City had to be sent east, to correct the false impressions created by the organ of the "knockers."

Further, when the negotiations for water had been concluded, the friends of that organ tried to defeat the scheme by law suits. They declared the City had acquired no rights by the negotiations. Friends of the party that has steered the City toward the shoals of financial ruin, opposed the bond issue voted for the purpose of acquiring water, and then they tried to prevent the City from obtaining the water bought, by law suits. The decision of the court, after so long wait, is another defeat, in the legal arena, of the obstructionists who have opposed every real measure of progress but who nevertheless claim he honor of being the real builders of the City.

Whenever those obstructionists venture into court, or come before an impartial body with their statements, allegations, and pretenses, they are defeated. They are sustained only where prejudices decide.

THE CURRENCY LAW.

A Washington dispatch states that preparations are now being made by the treasury department for the prompt while carrying into effect of the provisions of the new currency law.

of American industries. The two-thtirds it is believed the supply will be ample for the moving of the crops. But if this proves a miscalculation, the law can be made operative as an experiment,

> and whatever defects it may be found to have can be remedied. When the miner finds fault he finds

trouble. "Be sure you're right, then butt in." The modern Davy Crockett.

Col. Stewart does not say with Marius, "What is to be banished but to be set free?"

If "the leafy month of June" would leave off storming, people would much appreciate it. Shouldn't Fort Grant be called the American Sahara rather than the American Siberia?

No matter who is responsible for government extravagance, in the end the people pay for it.

The Eagles are preparing for their annual flight. "May the flight of the Eagle ever be thine, my boy."

The waterways commission has been reappointed. "A breath can make them as a breath has made.'

That trained nurse in New York who shot and killed a physician seems to have nursed her wrong more than her patients.

Ex-Secretary of the Treasury Shaw opened headquarters in Chicago today. What is the Iowa idea that prompted him to do this?

The national forests in Northern Utah and Southern Idaho are to be redistricted. It is to be hoped there will be no gerrymandering.

One of the Pennsylvania capital graft suit defendants has just died. Probably all of them will be dead before the cases are ended.

An aeronaut says that he will attempt | the study of the dread disease Brief Notes on Its Physical Fea-

UTAH tures, Resources, and Development. By J. H. Paul.

I. THE REIGN OF FIRE.

To the Editor of the Deseret News: Sir-In fulfillment of our understanduse. An investigation was begun over twenty years ago, when for nine suc-cossive years the writer taught a daily class in higher geography at the uni-versity. The course consisted, in part, of local phenomena, and occupied the place since given to general physical geography. Much of this local ma-terial, compressed into brief form, has been adopted for use in the schools of Utah during the next five years, and will be published in September. For the present, certain fundamental as-pects of the geography of our state, selected with a view to interest the average reader and to instruct the stranger, may appear for the ensuing six weeks, on Tuesdays, Thursdays and Safurdays in the columns of your valuable paper. Should the artfolass afford to your readers a fraction of the enjoyment and information that their memoration hes down to the writer. enjoyment and information that their aration has given to the w must appear, they may have been worth

Yours with respect, J. H. PAUL

to fly from St. Louis to Chicago this week. A man will take almost any risk to get out of St. Louis into Chicago.

> The two battleships authorized at the last session of Congress are to be named Florida and Utah, respectively. How fitting their conjunction -the Land of Flowers and the Land of the Honey Bees.

It will interest the Elders who have labored as missionaries in the Swiss mission, and others interested in the work there, to learn that a second edition of the Book of Mormon in French has just been published at Zarich; also a second edition of the hymnbook. An abridged edition of the Doctrine and Covenants, translated into French by Elder A. A. Ramsayer and Glauque Steed, has also been published recent-THE REAL PROPERTY. Iv.

The president and operating officials of some of the leading railroads have decided not to raise freight rates for some time, if at all. They have reached the conclusion that to do so would increase the stagnation in business. When an increase was first talked of the very opposite view from this was held. Of course to increase freight rates would only tend to increase business stagnation. When will people learn that prosperity is based on the production of that which man wants and consumes and not on a fictitious raise in the price of the products?

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According to reports, the tuberculosis congress that is to be held in Washington from Sept. 21 to October 12 will be attended by a great number of delegates. The European governments have taken great interest in the meeting and not less than 1,000 delegates are expected from abroad. Among the most eminent medical men from Europe who have signified their intention to participate in the congress are Drs. Panwitz, Calmette, Von Behring, Newsholme, Weichselbaum, Conl, Philipps, Williams, Turban, Frankle, Vargas, Spronk, Bank, Kitasato and Shigamen who have devoted their lives to



none. The vitreous group includes the pure, rock crystal, resembling clear foe; the beautiful amethysi, purple or bluish violet, the color due to the presence of manganese; the false topaz, of light-yellow, pellucid crystals; the rose quartz, pink or rose colored, in masses; smoky quartz, or crystals with a dark tint, sometimes nearly black; milky quartz, pale, massive, and quite com-mon; and ferruginous (iron) quartz, yellowish, brown, or red. The chalcedonic varieties are: Chal-cedony, translucent, massive, glisten-ing, of waxy apparance, with its colors usually distributed in concentric bands, the moss agates being colored brown with iron; onyx with the colors ar-ranged in flat horizontal layers; and flint, a massive and compact form of dark shades and often sharp edges, oc-curing in nodules of chalk. The chief jasjery varieties are: issper, dull red or yellow from the presence of chay and Iron; granu-lar quartz, consisting of quartz gains compactly cemented; petri-fied or salicified wood often of various colors; and opal, which is a softer silica and which exhibits when turned a rich play of delicate shades. White, yellow, red, brown, and green, are some of its colorings, and it has many varieties. Real topaz crystals, sometimes of great beauty, occur in the Thomas mountains. These are composed in part of silica, and resem-ble quartz. Two other forms should probably ble quartz.

ble quartz. Two other forms should probably be mentioned: siliceous sinter, which is a loose, porous, grayish rock depos-ited around geysers; and tripolite, or infusorial earth, a grayish-white sub-stance made up mainly of the filmty skeletons of microscopic plants called distance diatoms.





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NATIONAL CONVENTIONS.

National conventions for the purpose of electing a president and vice president appear so natural to the American citizen that he can hardly realize that any other method would be possible. And yet, the convention system is regarded as an invention, rather than a natural product of pulitical evolution. The first national convention does not adte further back than 1832, when Anirew Jackson was renominated for presnt and a platform of one plank was

That law provides that national banking associations, each having an unimpaired capital and a surplus of not less than 20 per cent, not less than ten in number, having an aggregate capital and surplus of at least \$5,000,000, may form voluntary associations to be designated as national currency associations."

Such an association is to file with the Secretary of the Treasury a certificate giving the names of the banks comprising it. Only one national currency association is permitted in any city and it is provided that "the several members of a national currency association shall be taken, as nearly as convenlently may be, from a territory composed of a State or a part of a State." Any national bank of a city or association territory having qualifications for membership can apply to the Secretary of the Treasury and be admitted by him to membership. Any bank belonging to the National Currency association may issue additional currenev on any securities including commercial paper, held by a national banking association, provided the securities are satisfactory to the board of directors of the national currency association to which it belongs. The application is referred to the Secretary of the Treasury and, if, in his judgment, business conditions in the locality making the application demand additional circulation, and if he is satisfied, "that a lien in favor of the United States on the securities so deposited and on the assets of the banks composing the association will be amply sufficient for the protection of the United States, he may firect an issue of additional circulation otes to the association on behalf of uch bank." The banks and the assets of all banks belonging to the association are made jointly and severally Hable for the redemption of the circulation. In addition to these provisions ome of the features of the Aldrich bill are incorporated in the new law. Any duly qualified national banking association may make application to the Comptroller of the Currency for authority to issue additional circulating notes to be secured by deposit of

bonds other than United States bonds. that committee is the best that could The Comptroller of the Currency passes the application to the Secretary of the Treasury and he determines the need and time of the issue and fixes the amount. The Secretary is also to determine the market value of the bonds offered as security and is to authorize irculation "not exceeding in amount 90 per centum of the market value, but not in excess of the par value of any bond so deposited."

As we have stated before, the consensus of expert opinion seems to be that the new law marks a great advance toward an improved currency system. It is not anticipated that there will be a scarcity of money in the near future. adopted, providing for the protection | There is money idle in the banks, and

ERE HISTORY BEGAN. For the sake, merely, of logical con-sistency and completness, a few obser-variations will first be made on a some-what dry part of the subject—the pre-historic past as explanatory of the present physical conditions of the land forms, rocks, minerals, and soils of this intermountain area. Among the un-usual things noticed by the investigator in Utah are the hot springs and the various natural waters containing sul-phur, iron, sait, and other minerals the mineral oils and the solidified hy-drocks, the granite beds, the volcank cocks, the granite beds, the volcank orocks, the fielding or faulting of stratas the mountains steep on the western side when the Great Basin sank away from them; the still higher Uintaks, broken on the north by a similar fault-when the interior, forcing its way when the caused melted rock to well up from the listerior forcing its way inclusion the overlying strata of sedi-gometimes enclosing the latter in large ERE HISTORY BEGAN. mentary or water-formed rocks, and sometimes enclosing the latter in large pockets. Whether the whole globe was once in a melted condition or not, may be doubted; but it has always been hot within, and its internal fires have never ceased to burn. Old vol-cances in the Sevier valley, and near Fillmore, Dugway, Fish Springs, and in the far south; the "hot pots" at Midway; the large sulphur deposits and vast lava beda elsewhere,all tend to show that the primeval reign of heat mentary or water-formed rocks, and and vast lava beda cisewhere, all tend to show that the primeval reign of heat which once, according to the earlier theory, converted the earth's surface into one vast lake of fire, sheathing the molten globe, to the center of which the gold, silver, platinum, lead, and other heavy motals would naturally gravitate—that this fancied reign of the continued to recever itself, long gravitate—that this fancied reign of fire continued to reassert itself long after the earth's crust had cooled, long after the hot and boiling ocean waters that may have covered it had ceased to be the generators of dense steam clouds that once enveloped this planet, and long after the outer crust by the action of water on the original reach of the earth's crust had been

by the action of writer on the original rock of the earth's crust had been formed into layers upon layers, in which epoch after epoch of geological history has been recorded in the wa-ter-formed stratu of the successive earth periods. These widespread and extensive anter-formed strata of the successive earth periods. These widespread and extensive ap-pearances of the earth-heat of former times point with strong emphasis in Utah to what may be termed the later reign of the. It thus alternated with a more recent dominion of water. Still later occurred the present supremacy of the atmosphere, which we may call the relate of air. These successive eras have given to Utah, as to other lands, its rocks and solls, its minerais, coals, and hydrocrarbons. Only the distant past can explain the present aspect of the earth surface, the lava flows, the mountain sculpture, etc., of this inter-esting land. Of the original relegn of fire, we can infer but little; of the reign of water, which formed the stra-tified rocks that first overlay the heat-ed earth, we have abundant evidence; but the volcanic eruptions of which we speak here occurred subsequently to the formation of the stratified rocks and are only a dim or indirect indication of the assumed primeval condition of the

are only a dim or indirect indication of the assumed primeval condition of the earth as a globe of fire, THE GRANITOID ROCKS.

Granite was formerly thought to be the original basis of our Wasatch range; but Drs. Taimage and Pack have both shown that the granitoid masses,

Still other kinds of fire-formed rocks abound in Utah. Some of these are so fine-grained that distinct minerals are not to be seen in them. This is the condition of the once melted rock that forms the Henry mountains. It is called trachyte, and has much the same composition as granite but without crystals. Indeed, all rock that appears to have been melted, such as basalt volcanic glassy rock (obsidian), and the various kinds of lava, are composed of about the same elements as granite. but differently combined or aggregated. Though similar in composition, the fine-Still other kinds of fire-formed rocks Though similar in composition, the fine-grained or felsitic series of igneous rocks are often very different from granite in color, weight and texture. The interesting and euphonious names trachyte, rhyolite, syenite, phonolite, and dacite are given to the less familiar membors of this series; while basalt and obsidian, the latter a well known, and obsidian, the latter a well known, shiny, glassy, volcanic rock, constitute the other main divisions of the igneous group. Felsitic rocks abound in parts of this state. In the case of the Henry mountains, Garfield county, the rock basis, consisting of trachyte, tells plainly its own history. In a bygone age, the melted materials must have welled up and become solid under the sedimentary rocks, for they have arch-ed these overlying strate into large domes. The top rocks were gradually worn away by the weather, and the trachyte masses are nowexposed. Lava, overflowing, spread over other parts of southeastern Utah, and many of the plateaus of that region are capped with plateaus of that region are capped with volcanic rock. MODES OF OCCURRENCE.

melt if relieved of the enormous press-ure due to the weight of the rocks above them. Other kinds of igneous rock abundant in Utab, contain much

the same substances as granite, but in

still larger crystals, and are then termed porphyritic rocks.

THE FELSITIC ROCKS.

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MODES OF OCCURRENCE. Perhaps it should be remarked fur-ther that igneous rocks occur in dikes, which have penetrated other rocks and have solidified in them as elongated and narrow hodies of various sizes; in sheets, or surface flows that may later be buried—deposits of great lateral ex-tent compared with their (kickness; in laccoliths, or imprisoned lows of len-ticular shape; in necks, or roughly cylindrical masses, such as might sol-idify in the conduit of a volcano; in bosses, or irregular, projecting, rounded forms; and in vast irregular bodies forms; and in vast irregular bodies for which no single term is used. The enormous masses of crystalline rocks like granife that occasionally occur here and that in some countries cover hundreds of square miles appear to have fused their way upward by melting the rocks lying over them. These formations are called batholiths, The different methods of occurrence have an important bearing on the texture of the rocks.

THE COMMONEST ROCK.

Quartz, or filnt rock, the most abund-nt, not only of the once-melted ma-boever, may be picked up almost every-theorem and the picked up almost every-based of the source of the source of the four water, being somewhat soluble in tocurs chiefly around certain her springs and geysers, or in the form and the diamond ranking above it in petrified trees. Hardness is its fea-times the solutions in the form and the diamond ranking above it in the scale of hardness. It assumes many forms most of which occur in Utah. Mention of the chief kinds of this well meterial may be of interest to increase and the chases of interest in the chases: the vitreous varieties, distinguished by their places fractures the chalcedonic varieties, having a sub-treous or waxy luster, and generally Quartz, or flint rock, the most abund-