DESERET EVENING NEWS SATURDAY AUGUST 8 1908

AN'S AMAZING TOMORROW

Scientist and inventor from the viewpoint of to-days &

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THEN primitive man crept from his warren, threw the long tousled hair from off his eyes and stood in the sunlight, the world had a far different meaning for him than 4t has today for the civilized man, as he steps from his restdence into the bustle and business of modern life.

Everything that moved the primitive man believed endowed with life. To him life and movement were synonymous, and all sounds were voices, whether of the wild beast, the wind or the rush of waters.

By his needs he was compelled to grapple with the forces of his environment, whether of animal life or in animate nature, and the history of man has been a history of subordination of all things to his use.

But man's upward march has been inconceivably slow and the time nameasurably long. It required cons to: the dull brain and the unaccustomed hand to fashion the simple stone hatchet and knife and spear of flint or bone. He was a mighty architect who made the first shelter of logs and boughs, and he who nest contrived a way to kindle fire oy iricion was a greater innovator than any inventor of the modern world. He who first hollowed a log with me and made a boat accomplished a greater feat toward hu-man advancement than the designer of Dreadnought.

in the herce struggle for existence man has won the mastery mainly be-cruse of his superior intelligence and skull in the subordination and utilizatong of means supplementing his own relatively small physical powers. Primtive man, armed with potent time weapons and intelligence. In concerted action, soon made himself master of the animal creation. But war has always been the great-

But war has always been the great-est stimulus to invention, requiring, as it does, the defense of property, life and home on the one hand and offering on the other the coveted rewards or conquest. Since that remote time when our omnivorous ancestors climbed down from their abodes in trees and fought for place in their environment and fed on every itving thing in earth and sea and sky the good things of life have been for those who fought for them. Through all the ages man has hewn the living flesh from off the bones of every breathing from off the bones of every breathing thing, and he is master now or all the earth, and although far advanced there remains before him duties and achievements which shall far transcend anything he has yet accomplished.

RAPID DEVELOPMENT.

Humani advancement all over the earth has been marvellously rapid during the last century, yet it will be still more rapid in the next century. Man has but recently broken the chains of superstition sufficiently to enable him to advance upch and lines of pro-gress without fear of the demons and dragons of his imagination. But he is not entirely free even yet. Mighty China, still heid in the iron

Mighty China, still held in the iron grip of superstition, stands halting and trembling upon the verge where science

A little while ago invention was re-garded with distrust and the inventor looked upor

Inventor of the umbrella was stoned. The builder of the first steamboat in England was mobbed and his boat de-stroyed. Even at the present time the taxes and annulies imposed upon pa-tents in many countries practically amount to penalizing the inventor. But inventors are fast becoming more and more the nacipients of honor and re-ward, the science is now the dominat-ing spirit. Future progress will be, as in the With the increasing pressure of population and the inevitable ex-iaustion of our natural resources—coal

nation of our natural resources—coal, iron, petroleum, timber and, most im-portant of all, the soil—recourse must be had to inventions which lie far be-yond our foresight. We must invent to meet the issue or civilization must per-ish and mankind revert again to bar-barism in scanty, scattered tribes of hunters and fishers. hunters and fishers. The world's supply of coal and iron, it is estimated, can at the longest last but a few centuries, and the soil is be-ing rapidly impoverished, disintegrated and carried in the wash to the sea. Cortez found Mexico a garden and the hills covered with forests. The Span-iards cleared the forests, and fields and hills are now largely a barren waste.

PEEP INTO THE FUTURE.

Comew ith me then, and let us pee Comew ith me then, and let us peer a little beyond the frontiers of present knowledge and stare into the future with a "wild surmise," forcasting what man shall do to stem the tide that is setting against him, while we believe he still shall conquer greater and greater favors at the hand of des-tiny as the world wears and wastes beneath his tread. Achievement will not keep us walt-

beneath his trend. Achievement will not keep us wait-ing, for in this age of marvers, with which the inventor is constantly sur-prising us, it does not do to sleep too late in the morning, else when we awake we may find ourselves laggards in the abject rear. Achievement now runs on so fast that it ofton eutraces the adjustment of our

It often outpaces the adjustment of our senses, and though we pinch ourselves to prove our wakefulness still the sense

to prove our wakefulness still the sense of dreaming intrudes on consciousness and harasses conviction. Many of us in still full life are able to go back far enough in yesterday to view the present through the wide eyes of wonder, while we are so forti-fied with expectation for the morrow that we look a second time to be as-sured whether or no that flock of clouds that skirts the sunset may be a fleet of airships climbing up the sky. The flying machine is no longer con-fined to the realm of fancy or imag-ination, but the conquest of the air is already far advanced and the era of practical utility is near. The wonder of yesterday becomes the commonplace of today, and the marvels of today will be commonplace

narvels of today will be commonplace omorrow. The debt we owe to the inventor is

the difference between all that is ours to enjoy in modern civilized life and the indigence of barbarism. But for the inventor we should still be denizens of the unbroken forests, clothed in the skine of barbar

skins of beasts. Like Antony, the inventor has with his "broad sword quartered the world." and "on green Neptune's back with ships made citles." He has hewn high-ways through the granite hills and webworked the world with the iron

With his instruments of science the Inventor has sounded the deeps of the eternal skles. He has discovered whence Orion came, has felt the pulse of Arc-turus, and he knows the fortune and the fate of a million worlds. He has seen them quarried out of chaos far beyond the troubling touch of time and



MR. MAXIM DICTATING ARTICLE. TO HIS SECRETARY

side them under water, and it is pos-sible that they might be very misleath in the infinite night and cold [

of immensity. He foresees our own bright sun a paling ember on the hearth of time and reads our destiny in the scroll of the Milky Way by light that left its source so long ago that it was already old upon its flight ere Babylon was builded and when the Egyptian pyra-mids were still unquarried. That human attribute the furthest aboye the brute and which places the

of immensity.

above the brute and which places the intellectual man the highest above the low browed savage is the imagination. That work of the mind which most en-

Itists the imagination is the most high-ly intellectual. In aerial navigation the inventor is obliged to hang his life on the hazard of his mastery of unaccustomed prin-ciples, where there are innumerable un-tried variables—a stunt of the imagin-ation like taking a flight through the ation like taking a flight through the fourth dimension. In the not distant future we shall

have our automobiles of the air, and in the wars of the future we shall have our aerial bat-tleships, our cruisers, our tortleships, our cruisers, our con-pedo boats and torpedo boat deroyers, But they'll be airy, frail and fairy

craft, indeed, compared with grim steel monsters of the sea. the AIR SHIPS IN WAR TIME.

Although the value of the flying ma-chine in future wars will be mainly as a scouting craft, still its importance for that service alone is hard to overestimate, for the flying machine videttes will be at once the eyes and they will have their use in naval war-fare, too, for there will be the aerial torpedo scout on the lookout for tor-pedoes and torpedo boats, which will signal the approach of danger. Possibly, too, we shall have our torpedo hawk, taloned with dynamite, which will swoop down out of the sky in swift pursuit of the torpedo or tor-pedo boat, and blow it up before it reaches its destination. Although as I have heretofore pointed out, flying machines could not be expected to successfully attack bat-tle ships, coast fortifications or large cities or to do much dimage with high explosives, still they might attack tor-pedoes and small torpedo caft with Although the value of the flying ma-

explosives, still they might attack tor-pedoes and small torpedo craft with

chievous indeed But the torpedo craft will have their

chievous indeed. But the torpedo craft will have their quick firing sky guns then, with which, coupled with the searchlight, they will sweep the heavens, and the at-tack will be dangerous work. Aerial naval tactics will include the use of the thunder head to mask maneuvers. When the eloud hung navies war and ride the storm to bat-tle, then conjecture will attend the fall of slaughtered combatants and wreckage from the sky, to know if it be Jove or man that thunders there. Think of it! By and by we shall be able to cast the earth loose and round the ecliptic with the Pleiades, leave the earth road and cup race with Jupiter on the cloud way, or go tobogganning down the sky slide. It will be great sport to outrace and override the thunderstorm, and there in the bright sunlight look down upon the rolling, seething mass of cloud spitting fire like an angry cat. We shall then seem to have nature at a disadvantage. The more highly scientific war en-ginery becomes the more the game of war will be one that can be played only by the most scientific and en-lightened nations. More and more will home and country be defended by ma-chinery and less by blood. Fewer and fewer men will be obliged to en-gage in the trade of war, and more and more will be able to devote them-selves to peaceful pursuits. Less and less will war be the arbiter of nations, for the difficuities and the expense will become so prohibitive that wars

for the difficulties and the expense will become so prohibitive that wars will no longer pay. The aerial navy will be a great bul-wark of peace and a vary great step toward the permanence of peace. The inventors of deadly war engines place in the bunds of scientific and collicit.

in the hands of scientific and enlight-ened nations means of controlling wars. DEATH DEALING ENGINES.

Within the next few years torpedo boats propelled by motorite, a fuel com-pound of nitro-gylcerine and gun cot-ton, will be driven at a speed of 50 miles an hour in nearly submerged po-stion of will be able to much be upon sition, and will be able to rush in upon any battleship and sink it under full gun fire. Automobile torpedoes, driven by this same means, will have a speed

torpedoes and more than double their range, but other revolutionary methods will doubtless be invented to combat with these terrible wasps of the sea. On land battalions will close in deadly combat over an intervening space of two miles, or more, and fight without sound or smoke. But when an enemy's position shall have been discovered, then smoke- producing bombs will be thrown to blind his eyes to the movements of the attack, and the night torch bombs will keep him exposed un-der their bright light. War will become more and more a matter of science and money, and the soldier will become less and less a warring factor, until the spirit of war wears out and men shall

var no longer. It has been truly said that the degre of civilization of a people may be es-timated by the quantities of nitric and sulphuric acids consumed. But what are we to do when the great niter beds of Sulphuric acids consumed and the second of South America, the world's only supply, shall have been exhausted— and they are being rapidly depleted? The problem of fixation of atmospheric nitrogen by the electric current has already been solved and it requires but little further development to meet all needs.

Ammonia and all kinds of nitrates Ammonia and all kinds or incraces produced artificially, are among the im-mediate possibilities of the future. It requires but a sufficient quantity of cheap electrical energy to refertilize all our fields from the atmosphere. But

heat and power we must have and in ever increasing quantities. Were every river and rivulet dammed to its source the fall to the sea would to its source the fall to the sea would not produce power enough for man's future use. Whither, then, must he look? Will he devise some practical engine for the utilization of the solar rays? It is estimated that the amount of energy received by the earth from the sun is equal to that of a contin-uous Niagara 75,000 miles wide—wide enough to encircle the earth three times. times

But the discovery of radient matter, if it do not prove a "will o' the wisp." may yet lead us to the discovery of a means of tapping the mighty store-house of internal molecular energy. The corpuscles of which molecules are

composed are estimated to have a velo-city of '00,000 miles a second—half the speed of light. This means that in a pound of ponderable substance there is sufficient energy in action to equal that of a one-pound projectile hurled at a velocity of 100,000 miles a second. Such energy is perfectly inconceivable. The energy of impact of such a one-pound projectile would be sufficient to mclt and volatilize and expand to ul-timate tenuity 50 tons of cast iron. omposed are estimated to have a velo

imate tenuity 50 tons of cast iron If a man discovers the key to unlock this storehouse of energy, he will be able to facke a playhouse of the world and to reduce the cost of living so that labor will be at a premium as a source of amusement.

WIRELESS SKY ROADS.

WIRELESS SKY ROADS. Civilization can grow no larger than the boundaries of transportation and communication will permit. Cities over-grow themselves because adequate transportation is lacking. The old time farm, the mountain height, the forest deep, the lonely lake, will soon burst from isolation, for the flying machine will people them with a teeming popu-lation. High speed and convenience of travel annihilate distance. The remote becomes near, the stranger a neighbecomes near, the stranger a neigh-bor, and widely separated communities a united neighborhood.

AXIM most virukent of the deadly micro organisms are but little impeded a yet in their dance of death by all ou Among the possibilities of th future will be the wireless electric sky roads, or zones of electric energy, leading from center to center of population and in-dustry, along which flying machines will science. I prophesy that in the near future i victim of tuberculosis, scarlet feve pneumonia, tetanus, bydropibli smallpox, leprosy, or any germ diseas may be electro-chemically treated i such wise us to destroy every diseas germ of his affliction in a day. Thi is something to which electrician chemists and medical men should giv weighty consideration. What a boo it will be when that house shall b built wherein the unclean may enter at one door and pass out at another clean! He who shall do this thin will be the greatest benefactor of man kind in all the history of the race past and future. pass to and fro, drawing their energy from an electric system stretched along the earth, thus obviating the necessity

HUDSON

of each individual fights machine de-veloping its own energy. Flying ma-chines will carry electric meters, and the consumer will pay for the energy used just as he now pays for the electric current which lights his resi-dence

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When the flying machine shall have come into general use many strange structures will be contrived for the restructures will be contrived for the re-ception and storage of them, or, we may say, flying machine garages, where daily pilgrims from country to city and return will house their aerial equipment, and from which they will take flight for home when their day's work is done

work is done

the city man dropping in upon him from the sky. There is a very great and constantly growing demand for diamonds for use in the arts. I once conducted some ex-periments at Faraday House, in Lon-don, and succeeded in making some microscopic diamonds by electro de-position. I have intended to again take up this matter on a larger scale. I am confident that we shall soon see dia-monds produced cheaply and of large monds produced cheaply and of large size by electro deposition, either by the method I tried in London or by

The greatest achievement that awalts the genius of mortals is a practical and efficient electro-chemical means whereby microbes—the most dangerous anddeadly enemies of mankind--may be attacked and slain within the living tissues, lymph and blood without injury

Pharaoh's 8:15 a. m and by the discovery of new remedie that are more or less specific, still, the | Falls and Spring Dell.

MEN PAST SIXTY IN DANGER. More than half of mankind over sixt years of age suffer from kidney an bladder disorders, usually enlargemen of prostate glands. This is both pain ful and dangerous, and Foley's Kidna Cure should be taken at the first sign of danger, as it corrects irregularities an has cured many old men of this die ease. Mr. Rodney Burnett, Rockpor prostate gland and kidney trouble fo years and after taking two bothes of being's Kidney Cure I feel better tha I have for twenty years, although I at now 91 years old." For sale by F. J. Hi Drug Co., "Tthe Never Substitutors."

MEN PAST SEXTY IN DANGER.

past and future,

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3,000 pounds of choice meat give away Barbecue day at Saltair, Thurs day, Aug. 13.

NOTICE TO ALL UNDER TAKERS IN THIS INTER MOUNTAIN REGION:

MOUNTAIN REGION: Professor Carl L. Barnes of Chicag will on Tuesday, the 11th inst. ope a school of anatomy, sanltary scienc and embalming in Salt Lake City. He will also lecture upon and demon strate his wonderful discovery, th "MICO" process, a method of preserv ing the dead effectually superceding th present arterial method. These lecture will be free to all members of the pro fession. Address P. O. Box 1477, Sal Lake.

SUNDAY EXCURSIONS.



work is done. The broad expanse of the Hackensack meadows may possibly spring into great usefulness with the wide intro-duction of the flying machine. As land values always accord with supply and demand, the flying machine will bring vastly increased areas of suburban land into the market and values will be enormously enhanced. Many a poor farmer will be made glad from the sale of his unyielding acres to the city man dropping in upon him from the sky.



DEATH TO MICROBES.

With all our present might of mas-tery the rich and poor, the strong and weak alike, tremble and turn pale be-fore the ghost-boned shade of the pes-tilence whose breath is blight, whose touch is death. Lake. Although great advancement has been made in the successful combat of disease by the discovery of antitoxins and by improved methods of treatment,

seyond the troubling tou and treated accordingly. The he views their onward drift toward aerial bombs planted and exploded bc- 50 per cent greater than present



The College is becoming known for its rapidly increasing attendance, for its high scholarship, for the enthusiasm of faculty and students, and for a general healthy morality pervading the entire Institution.

College work begins September 15. Entrance fee \$5.00. Catalogue and circulars free upon request. A letter to The President will receive careful attention. Write today. THE AGRICULTURAL COLLEGE, LOGAN, UTAH

<u>~~~~~~~~~~~~~~~~~~~~~~~~~~</u> TRIB Why keep a cow? Use A guaranteed cure for the SEGO MILIKO Liquor and Tobacco Habits. PRICE \$12.50 The Natural Flavor. Schramm's, Where the Cars Stop, Sole Agency. experiment was at a speed of about

Experiments Made to Test New Automatic Safety Appliance. TRAIN on the main line of the, twenty miles an hour, when the train was stopped within one hundred feet of the signal. Then the train backed down to get a two-mile start and was under full headway when the signal Burlington road, going at a speed of 50 miles an hour a speed of 50 miles an hour a few days ago, ran past a block signal which stood at "danger," and was automatically brought to a full stop 1,100 feet beyond, says the Chica-go Record-Herald. While the test was being made a score of the foremost operating men of the United States, representing rall-roads from coast to coast, either rode on the train or watched from the side of the track the operation of the new automatic device for stopping trains when the engine erews have disregard-ed the warning signal. The experiment was conducted for the benefit of the joint committee of the American Raliway association, of which F. C. Rice of the Burlington is chair-man. The joint committee is made up of members of the train rules and safety devices committee of the asso-ciation. Shortly before the experiment was tried the operating men sat in the Burlington Company's Aurora quarters and listened attentively while the unet complex train or descenting ender the substant. Kewanee, 35 miles; Galva, 104 miles; Altoma, 116 miles; Oneida, 114 miles, and Watago, few days ago, ran past a block <text><text><text><text><text><text><text><text><text><text>

Physicians Recommend Castoria

ASTORIA has met with pronounced favor on the part of physicians, pharmacentical societies and medical authorities. It is used by physicians with results most gratifying. The extended use of Castoria is unquestionably the result of three facts: First-The indisputable evidence that it is harmless: Second-That it not only allays stomach pains and quiets the nerves, but assimilates the food : Third-It is an agreeable and perfect substitute for Castor Oil. It is absolutely safe. It does not contain any Opium, Morphine, or other narcotic and does not stupefy. It is unlike Soothing Syrups, Bateman's Drops, Godfrey's, Cordial, etc. This is a good deal for a Medical Journal to say. Our duty, however, is to expose danger and record the means of advancing health. The day for poisoning innocent children through greed or ignorance ought to end. To cur knowledge, Castoria is a remedy which produces composure and health, by regulating the system-not by stupefying it-and our readers are entitled to the information.-Hall's Journal of Health.



Letters from Prominent Physicians addressed to Chas. H. Fletcher.

Dr. B. Halstead Scott, of Chicago, Ills., says: "I have prescribed your Castoria often for infants during my practice, and find it very satisfactory," Dr. William Belmont, of Cleveland, Ohio, says: "Your Castoria stands first in its class. In my thirty years of practice I can say I never have found anything that so filled the place."

Dr. J. H. Taft, of Brooklyn, N. Y., says: "I have used your Castoria and found it an excellent remedy in my household and private practice for many years. The formula is excellent."

Dr. R. J. Hamlen, of Detroit, Mich., says: "I prescribe your Castoria extensively, as I have never found anything to equal it for children's troubles. I am aware that there are imitations in the field, but I always see that my patients get Fletcher's."

Dr. Wm. J McCrann, of Omaha, Neb., says: "As the father of thirteen children I certainly know something about your great medicine, and aside from my own family experience I have in my years of practice found Castoria a popular and efficient remedy in almost every home."

Dr. J. R. Clausen, of Philadelphia, Pa., says: "The name that your Castoria has made for itself in the tens of thousands of homes blessed by the presence of children, scarcely needs to be supplemented by the endorsement of the medical profession, but I, for one, most heartily endorse it and believe it an excellent remedy."

Dr. R. M. Ward, of Kansas City, Mo., says: "Physicians generally do not prescribe proprietary preparations, but in the case of Castoria my experience, like that of many other physicians, has taught me to make an exception. I prescribe your Castoria in my practice because I have found it to be a thoroughly reliable remedy for children's complaints. Any physician who has raised a family, as I have, will join me in heartiest recommendation of Castoria."

