seems to be no good reason, why an essay not be as deserving a prize, as the discussion of a historical problem, or an exposit ion of the principles of criticsims or taste. Literature in its broad and now accepted application comprehends, not only subjects of life, but all the expositions of science and art.

With this broad aim, the intercollegeate contest may year by year grow in importance and interest, until by some organ ization, which experience will suggest, it may become a National University for A. R. B. American youth.

## Notes from Colorado.

Many lands have remarkable evidences of natural force and marvelous combinations of natural beauty, wrought out during the silence of departed centuries, which are the objects of admiration to each successive tourist or adventurer for fortune and fame. We are accustomed to look away from home for places of pleasure and natural scenery, when at our very doors nature displays her handiwork in such a manner as to awaken the imagination of the drowsy, awe the vicious, nerve the trembling and caution the ambitious.

The pleasure to be derived from taking a ride on the narrow gauge railroad from Golden City to Floyd Hill can better be enjoyed than expressed. Take your position on the rear end of one of those little cars, with your hand firmly hold of the railing to steady your person, on a warm summer's day, and feet dangling carelessly down and you are prepared to see a panorama of grandeur and natural scenery pass before you well worth the inconveniences ot smoke cinders and dust. To the left of you as you start for the mountains stands the city, the oldest burg in the territory, having been located and peopled ere Denver was known and close beside the track runs the main irrigation ditch which supplies the city with water while in front of you the open country stretches away in a broad plateau fringed by the foot hills on either side widening as they recede until lost in the baze of the distance.

The first slight tumbling up of rocks three or four hundred feet is passed without much admiration, and your. eyes curiously follow the long line of ir. rigation boxes which run along the side of the hills for miles, now resting for their support on the earth, and then propped up with standards while a sharp rocky curve was being turned. But soon yeu are startled by the solid sternness the towering massive mountains reaching their rocky heads hundreds of feet upwards struggling, as it were, to lift them selves from among their equally ambitious neighbors. The straggling points of rocks the rugged uneven courses of granite, the show clsewhere thrift and life but here, scaling surface of slate stone, the over where once life and activity were, the hanging rocks weighing tons and seem silent wheels stand still, the fire in the ingly ready to loosen their hold and come tearing down from their homes, make a shudder creep over you and a feeling of satisfaction arises when the mountains open and the warm sunshine steals through the openings, at times on their sides a smooth solid face is presented and then breaking into rough uneven ridges covered more or less with soil out of which spring tall majestic pine trees, The road frequently seems as though it ended by diving into the base of a huge

of this problem partially achieved. There turn and the canon widens into a warm when in the valley and in trains when ground can such peculiarities be explain. beautiful sunlight opening. The moun, passing up and down the mountains. on some difficult subject in science, should tains spread out until they are ordinary One man usually attends to about twentyhills, covered with grass and vegetation five or thirty. In the morning they come design. on which pasture the cattle of ambitious down loaded with ore from the mines was given.

High up on the side you see a tree the top. The different shapes and forms are constantly changing, diversified by shrubs, trees and snow, giving the various aspects of compactness and durability. The three tall, finger-like rocks are announced by a slab fastened to a small nels. They are somewhat roundish and divides them, two being on the east and one on the west side. Many times the rocky character of the mountains leaves pine board sharpened and driven into a before a railroad up this rocky mountain canon was ever thought of, the traveler had found his way and left the cross, the symbol of Christianity. On the top of wanderer beholds a cross made of boards and erected by Mark Twain (so they say) when he was roughing it.

of him who had washed the sands of the ized and re-constructed invalids. Denver some pollen is thrown upon the stigma. tall chimneys and decaying mills show tients, dead and dying with consumption, evidences of ruined fortunes and misguided enterprises which were fanned into a flame by the reports of fabulous stores of wealth waiting but the hand of capital and labor. Too true is the record they write to be mistaken. You may furnace has gone out. with mountain life is the train of jacks used to reach many of the mines. The jack is a small animal, about the size of a yearling colt-a medium one at that-and is a native of Mexico. He is indispensable. You might as well try to get along without a baby in the house as to think mountains. In color he is Maltese-

ranch men. The grade, as you pass the and carry back provisions, lumber, stoves cauon, is quite gradual, but occasionaly it etc. A cooking stove is dissected and rises rapidly, so much so that one can strapped on one; two sixteen foot board and regain his seat again. The fastest one end rounded off and the other protime made on the road is eight miles an jecting forward six or eight feet; a third hour with up and down slowing for stop. has two fifty-pound sacks of flour to manpages. The bed of the road is solid age-one on each side-while the fourth smooth and narrow, no jarring, rattling staggers under two quarters of beef and sleep of flowers. I do not mean that long or bumping, everything as firm and sub- the rest are burdened with grocerics, po- sleep when the earth is frozen and cover. stantial as the surroundings themselves. tatoes, dry-goods, picks, shovels and a ed with its mantle of white, but the clos. Now and then you pass a sign board with general assortment of everything used in ing of the petals of flowers in summer the ominous word "whistle;" no cross mining or about a mine. Thus armed time, even in very fine weather, different ing, no switch or habitation to suggest and equipped, we are ready to start up varieties closing them at different times. meaning or reason for such a caution- the mountain paths, which are little narnothing but solitude pervades the region. | row roads leading around and around the The rushing current of the creek seems sides, steep and many times quite danger- soon brilliant with blossoms, and by nine to hush its meanderings and the scatter- ous; but the slow, sure-footed jack travels o'clock you can scarcely find one dower ing pines, which stand as sentinels to them with ease and safety. The ore open. The Dandelion, Morning Glory, guard the spot, give no answer while the which is brought down by these jacks is Daisy, Four O'Clock are very familiar extrain passes and the fireman heeds not the broken up and put into little bags, each amples. Some sleep during showers also. injunction, and you are left wondering bag containing about sixty pounds of ore, Some of us know that within the deep what the warning can signify or why it thus giving them one hundred and sixty recesses of most flowers are concealed pounds to descend with.

The climate is similar to our own, sub growing out of a crevice and then your eye ject to extremes of heat and cold. Storms the flowers, and not only bees, but even some massive pile of rock which crowns during the months of November and De- How delightful to pluck the long spurs of cember. The snow falls 'principally in of the Columbine and suck its sweet nece October, March and April. It does not tar, and of the Hollyhock, and then chew long remain on the ground except on the the delicious heart of the flower. The ranges where snow is found the year closing of the petals of flowers may have round. The rain in the spring is abun- reterence to insects, ince it saves the dant, then a long, dry season follows. pollen and nectar until the flower has chunk driven in a crevice, to be the Senti- The winds are heavy and in the moun. been fertilized. tains quite frequent. The valleys form a Is there no design in this. look as though they were originally four- suction through which the winds sweep. cornered, but have been worn. The creek The storms are blasts for a few moments a flutter of anything. The clouds are gone and it seems as though a pleasant no room for telegraph poles, a piece of time was in store when suddenly the weary. The clear sky is seldom shadowed by clouds, yet when the atmosphere is the mountains. The atmosphere is free The creek is full of debris and the many advantages and pure, healthful

ed. My object is to point out some conditions which seem to clearly indicate a

1st. The sleep of plants and flowers.

(a) Many have noticed how the Sensitive plant closes its leaflets as night approaches, and more especially when touched or easily jump off, throw stones in the creek, are lashed to the sides of another, with jarred it will quickly assume its sleep. ing position. The same is true of the Honey Locust and Wood Sorrel, only the movement is not so quick.

(b) There is something beautiful in the The Portulacca opens its petals about snnrise and the borders of the beds are small drops of honey dew or nectar, of which the bees are ever ready to to rob wanders higher and higher to rest on which do the most injury generally come human beings enjoy the same pillage.

2d. Fertilization.

The organs of fertilization are very faand then it becomes calm and quiet, not miliar to all, so it will not be necessary for me to define them. In most flowers their arrangement is so simple that their object is very easily accomplished, the clouds are black and angry looking stamens approach gradually the stigma crevice answering as a substitute. Long and the wind rages. Sun shine is here at the proper season, then anthers open, he natural state. No fogs and mists, not discharging some pollen grain upon the close, muggy weather to depress and stigma. In others the stamens are hung pendant over the stigma, so that the least the highest mountain in the vicinity the heavy they silently float around below of pollen to fall upon the stigma, while jar from wind or insect causes a shower in others a design is very manifest. For from noxious gases, pure and health instance the stamens of the Bar berry are giving, bracing and invigorating. The so constructed that, when touched at the wrecks of water wheels, dams and sluices, climate have drawn the invalids from insect seeking honey, they make a sudden base on the inner side with a pin or an which too plainly tell the story of the dise everywhere. It is said that one-third of jerk forward, something like a Jack, appointed hopes and withe edexpectations the population is composed of re-organ- coming out of his box, and in the process stream and furrowed the hill side. The to a stranger, is a hospital filled with pa- There is another instance so much to the point, given by Prof. Tyndall in his late address that I have copied it in full. "A bucket with an aperture serving as a spout is found in an Orchid. Bees visiting the flower, in cager search after material for their combs they push each other into the bucket, the drenched ones escaping from their involuntary bath oy the spout. Here they rub their backs against the viscid stigma of the flower and obtain glue, then against the pollen masses which are thus stuck to the back of the bee and carried away. Where the bee thus provided, flies to another flower or the same flower a second time, and is pushed by his comrades into the bucket and then crawls out by the pase sage, the pollen masses upon its back necessarily come first into contact with the viscid stigma, which takes up the pollen," thus is the orchid fertilized. 3rd. The peculiar arrangement of cells

asthma, bronchitis. Among the many good things found here, bread made from Colorado wheat ranks high. You are always sure of good bread and pure water, clear weather and fine scenery.

MACK.

## Design.

Much is written now a days to prove that The most amusing scene in connection there is no mind in matter. When we look around us upon the works of nature, see the myriad forms, shapes of plants and flowers, when we study their habits and peculiarities, can we not see traces of design, can it be the work of blind forces only. "Even though the theory of Datwin should turn out to be true in all its of getting along without the jack in the main principles, as it is certainly true in some of its principles, there would," says bony-cared, short-tailed and kind. These Dr. McCosh, "still be traces of design mountain when around a sharp curve you animals are driven in squads, like sheep, everywhere in nature," and on no other in the leaves of plants.