

"In America, Literature and the Elegant Arts must grow up side by side with the Courser plants daily of Necssity."—IRVING.

VOL. 1.

URBANA, ILL., NOVEMBER, 1871.

NO.

Literary Department.

Beighely damend that sommer exceeding. filter the Heridiand h "be afer: Purple peaks said dairs aderaing Painting mountain. Braud or With a radiamer of gl v. Never hold in a dig or story.

Summerly rose this lavertick, writing Music deem the bollow glas : Berply weamen throught son line sting Bound her favored bland flues : Cleages molled the expensed steet, Pairer bloomed the flowers that ever.

Lands that remulered o'er the access, Talk the thrill of lov professo; Compo. quaktur with empriors, Persenting aleming shock are unit. Name's private and was larn.

The obsertors tills no lower their Repelled the stranger from their will; For Welter touched his magic sen, And Scotts, all enchanced, ac ded. With stary of commerce ateaming bright On every goige and rugged bright.

The fights doer, the outline hand, The Alpine born, with mystic erain Open more reschoed to the lacd And called the clausmon up again, To these perchance the fleeting inc, Or fall in fight with deadly 'ne.

The Northern wizard's bary arm heard Through bains realise beyon the sea; And every soul was strangely streed When baret the clouds of thir siry And gallant kalphra again were seen To tilt the lance for lady quees

And now an hundred years have how Since Caledonia gare na Sec 1; Ille genine ht the cycle gone -His deeds shall never be for jot: Let Seraphica rejetien to claim The fight to guard that hallowed name

Salatatory

However much we might wish to avend the heaten track of our predecossors in the editorial field, we feel it

Fellow students, patrons and readers, wherever this first number of our paper may find you, we greet you. Not as the exponent of the New Education, but as from that place in the United fitates where it received its first stimules, and where it promises an abundant harvest of well developed fruit. We enter the arena of journalism in support of the New Elication in its broadsst and most liberal sense, in the sense in which it is attracting the atsention and enlisting the support of the ablest educations and thinking men of the day. It is styled the New Filucation, not because it is of recent dis and by Milson, but because the press cular. If our calumns are not so in fame, but it bleens brighter under good, he must have no mediocre under a desolate Forum.

As it is ackowledged that the true pur ait chosen, and as the above principle of government is only considered as the great test when a measure is contested, so, the principle of education given, is only pressed when cir on astances demand that the student thail be confined to the narrowest limits. If all cannot be benefited, legislate for the good of the majority; always repretting that all cannot be equally like sed. If you cannot in connection with the necessary take the ornamental and gleasurable, then confine yourself a the test principle of utility, always emembering that happiness is not a hing to be neglected, and believing hat contentment : heald take no second diese in man's wan's.

To day the man who achieves the propertiest success is a specialist. He rider his dam habby. Jut of the sucto fellow becoming one laid a broad, deep foundation of general learning and culture.

of one department of knowledge. Your | sighs of mortals monaing and teiling at seind will be dwarfed and contracted, his feet. Prosperity to him was like and your judgment lack the compre- a green isle in the sea, for which he tension essential to accuracy, unless, frequently embarked, only to be tossed while you devote your strongest efforts awhile by the breakers of adversity, in your selected course, you also in- and left, at last, upon the varue shores vestigate the relationship exististing of human charity. His life was a between other departments, and your dream within a cream, and his words ewn, and cultivate a liberality of wer; eastles of gloom and infidelity, thought.

In our enleavers to support this west and love. cause, we present to you different de They are to go forward side by side. related in discussion as in reality. I you hold the paper to the sundigi : to the ignorant or prejudiced, but the need on y be held in the light of

our readers had erpected, we hope afar off in the future, many of Ameri- witnesses a new phenomenon, or disthey will been in mind that this is our ca's masterpieces shall flutter under covers a new law in nature, it he lacks principle of republican government is first appearance, and that any ince the breezes of Oblivion, a beautiful the power to write it out clearly for that the greatest good to the greatest caracy, duliness, or other deficiency, monument will arise, upon whose press, and thus give the world the tamber," so it is now conceived that which would be inexpasable in an old blessed crest an ominous bird shall benefit of his knowledge, he must the tone principle of education is "the journal, should be looked upon with a croak forever--" Nevermore." tdos: practical knowledge needed in the | charitable eye, and if criticised at all. it should be done in a spirit of h mesty. with a due consideration of our lack of experience.

Edgar A. Poe.

Of all the strange spirits that have roan ed in the wierd realms of phantasy, not one seems to have been more completely divorced from the realities of the external world than that of who perished before the noon of life at fully narrow-minded. a drunkard's altar. He was a mad worshipper of the beant ful, whether it reigned in a hunted palve, or all the range of sciences of greater usequivered in a crystal publet; and his fulness, and consequently of more imwhole being appeared to writhe in torture at every imperfection of nature Why? Because it is the foundation and art which net his critical glasce. He lived in a wish vary world of en. Upon its proper use, construction and chy iment, will party paragel only to execuate the rough real that were as parently dragging him down. At through its construction, and religious ways feeling that every scene of his Believing this, we say to the student | Unpian land was funned with the ozer sionally gilded with rays of tender-

The melods of his lyre ripples like partment, all under one general head. a fairy rivulet in the sunlight of his genius, but his fantastical creations are doleful forms grouning in the shadow tical, but it is a useless waste of time before me-gay nobles with fair ladies of despair. The reader of his product to pursue the study of it beyond the throng the halls-togas, rich with fur, you will see Literature, Natural tions cannot kelp realizing a total "ab-Science, Engineering, Social Science, sence of moral centiment" and responsi- my friend we lifter. and the other topics intermingled, line bility; and an utter disregard to all begins, so in the field of human know- | wild Pegasus to the gait of ordinary | necessary knowledge. ledge and labor it is impossible to say masses, he braved the blades of retribut Again, the laborer of fo-day, in order Yes, old clock, for this lesson, when

Is the Study of Language Practice ! ?

That is, is literature something worthy the attention of the industrial laboring classes? Or, is it like the gile lining of a picture frame, or the silver mountings of a harness, used merely as ornaments, and easily dispensed with? The latter view is taken by many people, but they have either not Edgar Alen Poe, the marvellous bard thought on the subject, or are will-

What is the real fact of the matter? It is this. There is no study among portance, than the study of language. and medium of human intercourse. are established upon its renderings. Statute laws are entirely recorded in it, with it. All the experiences of the lessons and wachings, come to us mission and preservation.

"Yes," sa s some one, "I grant that language is important and prace decay vanish—the finished palace is common gran matical forms." There, dignify the princely forms of Rome's

upon line, word upon word, period the commendations or condemnations lature said that he and his farmer colelling, cling, upon period the whole page over. So of mankind. He wrote as for one lengues found a good deal of trouble in Well, old clock, you certainly do not it is in reality. All these different being only, and that the radical One, legislative ma ters. What was the dif- belong to the age of togas and gladidivisions of learning are related, who had gone to the distant Aldenn, ficulty? Although we'l informed men, ators! I know you must be well in thought with thought, principle with It is said of this Lenore, whose loss be musters in or ctical stoney-making and years, for you were old when I bought none the less becoming to offer our principle law with law, until, together, deplores, that she was a being fair to money-saving they knew so little of you, years ago. And as you tick, tick, they for a time complicated and varied the eye, a beau iful creature, but like their own nat we language that (honest tick, from hour to hour, I hear your structure of human knowledge. Ordis Undine, without a soul. The angel of men that they were they must have smothered chaffings within, and it is marily they appear very distinct, and Poe's nature seems to have been held time to study, out and have explained these smothered sight that tell the foreign one to mother, and especially in subjection by a horde of demons, to them the proposed laws, bills and story of work done under steady, resistonly now and then being permitted to resolutions. Not their inability to less weights of necessity. mourn for an Ululiane, or an Anabell direct a facir or, if need be, a gigantie And now I see, you teach me that if rationa investigation to show clearly Let. The Raven of which he mang, commercial tude, but their ignorance I would not be like you, creaking with their alliance. As in the animal was but the black prophet of the dread of the forei ic and statutory use of age, yet tolling on, I must come to mysystem at is impossible to tell where disasters that darkened his after life. language we what caused expensive self, and turn back into the paths from the arrery effets and the vein begins. He well knew the terrible destinies of delays, and coated inbecoming scenes, which I have so strangely strayed towhere the muscle ends and the tendent the fature, but rather than curb his until they and the to acquire the night, and diligently prepare for life's

that had century have it reality and teresting, instructive or amusing as their heartless anotheness, and when standing of language. And when he either confide his treasure, or, remaining silent, permit some more studious person to give first publicity to the distorary, and thus wear the honor which an improvance of language lost to him.

My Old Clock.

I sit in my dormitory where I have spent so many hours, but to night it seems as if I am not myself. New thoughts come and go, and objects around me which ought to be familiar seem strange. I take my arm chair, place it facing the table and seat myself in it in an uncertain way as if I expected to be called to my feet at any moment. I draw the lamp shade low down, and although my eyes are directed toward the books on the table, they see nothing there. Imagination, that Sekle faculty of the mind, is using them. The couch in the rendering depend all our rights mivil bearing, the table, the books, the clock political and religious. Creeds differ on the wall, the kanp, all, except the shadowy rale light, disappear, and in there place's come other surroundings. I, too. glide away and pass swiftly over and the common law is expounded land and sea. With light step I hasten through it. Civilization and in through the streets of ancient Rome lightenment d velop by its side, and and pause before renowned St. Peters. in their progressive march keep pace Away up in mid air tower the lady domes, and my eyes come back past, pregnant as they are with great wearied with the flight. I loiter in the vast vestibule, and then stand in wonthrough it. The revelation of the exist-dering admiration beneath the gigantic ence, power and love of the Omni-dome. I hurry away and on to where potent would have been puerile with desolate ruins sound as melancholy out it or some squal agency for trans- monuments of bygone greatness. The scene charges -- the fallen columns rise -the mess and vines, the rubbish and proudest lords-I join the peerless A member of a certain State Legis | company-I, too, as a Ro-cling, cling.

work.

wheregone knowledge or one labor is tion and finally tell a pitiful victim in to keep pac with the world, and thus your hands fail to do their work, and bounded and where the next begins. his most unnatural career. Much has realize the fullest benefit of his en- when your hourly cling is husbed, and If this first number of our paper is been and much will be said and written listence, new read comprehensively the no longer calls the wanderer back to not so attractive in its dress as our concerning the works of Edgar Alles science and art journals of the day; duty, still you shall stand against the covery or invention, for some of its patrons would wish, we reply that we Pee! Critics have tried to blight with and in orde to do his in the best mac- wall, a far more worthy increment to principles were advocated by Aschan are in hopes to improve in this parter their frosty opinions the flower of his ner and desse from them the greatest civilization than a ruined Collision or

NATURAL SCIENCE AND AGRICULTURE

C. W. SILVER.

Relations of the Natural Sciences to Agriculture and Horticulture.

The grand banner of the universe is Progress, and he, who would view the banpor aright, must view it reflected by the red and blue lights of the . chemical crucible must view it gide! with the chrystaline delight of minerals must view it peering from the mountarnigh the ages of time to receive it.

aggestral acres," till the same hand,

less lands; or to discover the hidden mine na upon which each plant de ights. to fied, with its peculiar and aimost of a mosphere and soil. Let him try brill heat verberia, or another grace to achleness in their beauty. the heading beauty of the elm, or the and transcript of the pine, let bim at tempt to do any ore of these, or a the sand other similar things, and he find a himself at once confronted by the faster waits of science."

and unless he laboriously strives & of her principles, and the exact scientiff: facts on which the problems of waimal and vegetable life and growth bits on every side, but must dismiss f sever, his new-born inspirations, and be content merely to hold the plear and awing the southe until he dies.

Sat man is not so-constituted. sublime usethat which is revealed in and a snout moth. Nature. And no date is more thrown into her society than the pursuers of turist or horticulturist, by the study of

with the sciences-let him know the plant that he wishes to grow, will inferescapie cells and how it multiplies pleasant his rural house? to form a living structure; teach him how the invigorating fluid bends its course to normal the remotest part. the leaf, that medium upon which the States man, that which alike concerns very existence of man depends. Show all runnkind. For every buil that bursts. him how this medium pumps up the every tiny grass-blade that springs nestly as and sends it in pure vapor to earth, every pubble and every dewdrop specking drops, reasonating and and involves a multitude of other thereing as onward. Show him bow truths its oxistence. sace, how the lower vegetation (as volves virtue and begets knowledge; it early spring all barrels or bins which pictures.

their food from the atmesphere, using but little of the rock on which they recline,) grew and perished, thus forming some soil for higher vegetation, until we have those gigartic trees that, perishing, have bidden their worth in the caverns of the past, giving to us the coal which comforts and cheers our homes when the night is cold and dark and dreary.

carth upon which we tread. But ring all this in the cars of the sain top, whose rocks have been sleft sturdy figurer, and instead of a vote of thanks, you will get a return of evasive Tis true, a being may be as the in- jovialism. "Where is your mone, in strument of some blind fatality, and 'all that." He does not seem to know mechanically "stir the clods of his abat his success, as far as it may go as farger, is due to a few scientific facts ainst placed him here, returns him that have been pulverized and graduregain to mingle with and become a fully afted into his moulding mind from pare of those carrier collections. Infancy apward; facts that have been First let him as a true agriculturist, or fused with his doings, and made a part as a true horticulturat, endeavor to mail- of his every fay life by the continued tiply his products-les him try to in applied heat of the several periodicals crease the productiveness, or improve of the day, where one fact is presented quality of his fruits, vegetables, in mery different forms; facts that soils, and minerals-let him strive to have been carefully wrought by scienproclare new varieties of trees, plants tific men. He does not seem to realize or flowers, "or to re-vitalize exhausted that to his workings there are a few scale; or to reclaim barren and worth- principles around which all the rest erystalizo.

The successful raiser of stock has gleaned from all sources, assiduously spir tual offinities for certain elements retaining all he gets, he finds himself possessor of some of the finest points of to add one new flush of beauty to the Physiology, Anatomy, and Exterior, quemy rose, or a dantier arousa to its thereby he is enabled to show the fragrance, or an additional tint to the world, animals which, truly, have a

It has been, and doubtless will be. contended by many, that no practical benefit is ever likely to arise to the farmer, the gardener, or the trait grower, from the researches of Entomologists, and that any hand laborer is as respeble of discovering the best practicender her beautiful gates by the study al mode of counter-working some particular accions insect, as one who has cultivated his brain as well as his hand, as one who has become acquainted cunge and depend, he can never deal with the habits of many of the thing with the profound questions that assail thousand distinct species of insects that are found in the United States, while the farmer knows nothing whatever of Entomology. Suppose that bees change into butterflies, butterflies intobugs, bugs into buetles, and cannot at thust have something to give him the hazard of parting with his life tell thought, and nothing is so grand, so the difference between a snout bectle-

Can it be doubted that the agriculthe elemistry, minerology, and geolo-Then let him become acquainted gy of his soil and the physiology of the beautiful adjustment and harmony of adopt a better rotation of crops? that plenakal and physicial laws in veger he will have briger harvests? that he tible like-tell him of the power of the will more beautifully adorn and make

Yet, beyond all this, there is in the natural sciences, that which equally interests the Agriculturist, the Horticuland how it is irresistibly propelled to turist, the Mechanic she Artist, the stagment water flow around and be from the rested and winter-nourished the heavens to he returned again in and every germ of new his is a truth.

is bely, gives as again the pure ony- there is no virtue that derives not itse thinking themse was secured, will spin by their presence. This probably arises we breaths. Show him how a original from muth. Truth is the fount their cocoons, hence the burning of from their inability to distinguish the we breathed show have good and the coment these ropes will destroy them all. And beautiful combination of colors with having chalked the floor and blackened sources ages provises to une a exist of all contesty. Its study therefore in- last, but not least, burn or scald in which nature has painted these, her its claws, he made it trace out the

mosses and lichens, that mostly obtain is something worthy of toil to secure. We are to seek it for our own sake, eek it for the power it will give us to to good to others -seek it everywhere and constantly.

The Codling Moth.

There is probably no one who has not observed the little white worm which infests our apples. Yet very And from that germ of a soil, few I presume have ever seen the in- has been endowed by nature, he inthrough the process of vegetable life seet which produces it, or know any-stinctively accords the highest place to and decay, and the disintegration of thing of its habits. This worm, or that of sight. What more pitiable rocks we have formed for us the fertile | more properly caterpillar, is the larva | picture can one present to himself than of the "Codling Moth" (corpocapsa | that of the blind man groping in perpersonella), the most beautiful of all petual darkness. Thim day and the lesser meths. In size it is small, night are the same. He never behelds measuring only three-fourths of an the glories of the rising sun, or looks inch from tip to tip of its extended upon the gorgeous decoration of the wings. The fore wings are crossed by slowds as it sinks bel ind the western alternate bands of gray and brown and horizon. He never looks forth upon near the hinder margin of each is a the fields and forests clad in their clouk large read dark brown spot, bordered of delicate green, and dotted here and with glistening copper-color, by which there with flowers of various hues, but it can easily be recognized at sight, all nature is to him one continuous They are necturnal in habit, which will cloud of darkness. But it is not with probably account to some extent for the totally blind that we have to deal, their being so little known. These in- but with those who suffer from a seets appear in the spring about the malady which is not necessarily a time apples have become fully set, visible defect in the structure of the middle of May. The female then flies often unconscious of its existence. I harvest in the fall.

> the hoops of the barrels, or in crevices, under side. about the bin. Here they remain safely are exposed to the attacks of birds, and their form, from the leaves. will probably be nearly all destroyed. In the spring they wake from their dormant state that come forth as per-

for destroying this insect, but the only from green. Other authorities, basing feasable one is that suggested by its their statements on similar investigahabits. The most important thing is tions, have placed it as high as twelve to keep the ground cleared of windfulls and other rubbish, either by hog quency of this malady may perhaps be or man power. Next, place around the found in every day life. There are of hay rope to be removed; burned and pleasure from flowers or other beautireplaced by new as often as once in ten ful objects; who merely admire them, days during the season. The larva, because it seems to be the fastion, but And the study of truth is perpetu baseending or descending the trunk, will beyond this care nothing for them. such assimilating the surbon to build up ally joined with a love of virtue, for he attracted by this rope, and there, Others seem to be positively annoyed

during the winter. In this way thous- strongly upon this point is found in ands of moths will be destroyed, and the well known fact that west ladies the owner will be amply repaid for the are ardent admirers of the beautiful in amount of time and le for expended by nature. While many men are indifthe increased quantity of sound fruit, ferent or totally averse to any thing

Color Blir dness.

Of all the senses with which man which in this locality is about the eye, for the sufferers thruselves are about the trees depositing a single egg refer to "Color Blindness." It is a in the blassom end of each apple until well known fact that if a ray of light her whole stock of about 150 to 200 be passed through a priso , it will be eggs is exhausted, and soom after decomposed into a number of distinct dies of old age and exhaustion. The rays corresponding to the color of the eggs batch in a few days, and the rainbow. Of these, the rad, yellw and young larvas immediately burrows into blue may be called primary rays, while the fruit, piercing to the core. Then the others are called secondary, being making this its headquarters, it eats its a combination in various propertions of way in various directions, pushing its some two of these p imar es. It is also chips out through a hole made for the known that the color of an object depurpose in the site of the apple, pends upon its power of absorbing or After about three weeks the apples deflecting certain of thes rays. Thus, usually hal to the ground and the any object which appears to us red, having attained their full growth has the power of a sorbing all but the emerge from their hiding places red ray, which alone is reflected. The through the hole in the side, and im- same principle applies to all the other mediately take up their course, either colors. The disesse called "Color toward the trunk of the tree, there Blindness" arises from the inability, hiding in crevices of the bark, or to the cause of which is as yet unknown, some bit of board or ether rubbish of the retina to distinguish some one which afford them shelter, and then of these principal rays. This must spin silken cossons of exceedingly fine necessarily affect not only the color texture. After remaining for a few itself in its various shades, but also all days in this dormant or pupa state, they those which are it med by the comemerge again to the form of moths. bination of this with either of the other This second crop of moths attack the principals. Thus an example is given fruit which has escaped the first, and of a person who could distinguish no produce the wormy apples which we difference in color between specimens of claret, crimson and mud which were In the fall many of these worms and sen before him. Another compared brought in with the fruit, and leaving red sealing-wax to the upper side of a and tenching of animals, birds and

Others have been found unable to horse shown at a fair at St. Germains. esseenced throughout the winter while distinguish the fruit on a cherry, or Bissett bought a horse and a dog,

tion of over one thousand persons, ten per cent were found unable to distin-Many methods have been advanced guish between either red, brown or blue per cent. Amother proof of the fre-

have been used as depositorie for fruit Another argument which bears be will obtain the succeeding harvest. which tends to heighten the beauty without otherwise adding to the utility of the object. If now we refer to statistics compiled from careful examinations, we find that nine-tenths of all the persons afflicted were men. The few who were ladies, leave latitude for the fact that some even of them seem to care nothing for adornment.

Thus, scientific investigation while establishing a physiological fact, has also furnished a key which may perhaps lead to the solution of one of the most abstruse metaphysical problems of the day.

Animal Teaching.

We have all witnessed, in our time, says Land and Water, the astonishing performance of certain animals, birds and fishes, which were trained for the purpose of exhibition; but the majority of these, though they serve toprove the possibility of a higher training, and a more useful one, yet in themselves they exhibited a lamentable amount of waste labor and waste power.

Long years before the American Rarey's name was heard as a "horsetamer," a secret existed, as a family heirloom, among a sect of the O'Sullivans in the South of Ireland. This family was known as "The Whisperers," and they possessed the power of rendering as quiet as a lamb the most stubborn and unmanageable horse that ever existed.

Whether they did anything more to a horse than breathe into his nostrils we know not, but by doing this and ly kind soothing, and other ways known re themselves, they effected their purpose and retained their fame.

Putting the question of itugs, or stimulants, or other fascinating means aside, and coming to the point of pure and unadulterated domestications and teaching, perhaps there was no one person in modern times achieved so much success in animal teaching as S. Bissert. This man was an humble shoomaker. He was born in Scotland, in 1721, but he afterwards moved to London, where he married a woman who brought him some property .-Then, turning a brokez, he accumulated money until the year 1759; when his attention was turned to the training the apples, spin their eccoons under largel leaf, and a red wafer to the fishes. He was led to this new study on reading an account of a remarkable

their congeners, who were left outside, flowers on an apple-tree, except by and succeeded beyond his expectation in teaching them to perform various Nor is this defect so uncommon as feats. He next purchased two mon some may suppose. From an examina- keys, which he taught to dance and tumble on a rope, and would hold a cardle in one paw, and turn the barrel organ with the other, while his counpanion danced. He next taught three eats to do many wonderful things; to sit before music books and squall notes pitched to different keys. He advertised a "Cat's Opera," Haymarket, and successfully carried out his programme; the cats accurately trunk of each true at least two rings roany people who derive no particular fulfilling all their parts. He pocketed some thousands by these performances. He next taught a leveret and several species of buds to spell the name of any person in the company, and to distinguish the hour of the day or night. Six turkey cocks were next rendered agsenable to a country dance, and, after six months' teaching, he trained a turtle to fetch and earry like a dog, and,

HISTORY AND SOCIAL SCIENCE

The Problem.

Where ever we go we hear the question asked: When will the nevercoasing strife between labor and capital and in reconciliation? The storm clouds blacker, while these untagonistic elements are mustering all their forces for a general and deadly struggle, which may prove more disistrous than a shock from the combined armies of the Old and New World. Arbitration seems powerless, Argument and reason are of no avail. In England striks are becoming alarmingly frequent. Such men as the Tyre engineers, the most intelligent of workmen, take the same had means of compelling a more equal division of profits between labor and capital. Labor organisations, from their unity of purpase, hold the world in awe. Elecation panacea of political and social evils, but in the Swiss republic, where if anywhere the people ought to underis maintained Communistic principles is such an abundance of room for strong until sheeked by the walls of the city and willing hands to work schemes for and the banks of the Tiber. freeing labor from its dreadfal serf. done by state legislation and social rendjustments, are making ther appearance. | line, and the belidings in its course are The manied world is only known by the rated to the ground. It ceases not till powerful combinations which contra-checked in its raging by the rocky lize and heap up wealth in such cliffs beneath the garden of Maccenas. enormous quantities as to crush to the Altegraging six days, the wip.I ceases earth planest every industrial enter. and the flames subside. The wretched prise, not carried on for their exclusive benefit. Already the muttering of the storm reaches us from the burning of Paris, the seenes of the German factory strikes and the attempts among the miners to dictate terms to a dependent world. These are but the serface expressions of the mighty agitations which convulse the very soul of society, threatening to brank every social and civil hond. The world trembles as powerless; she stands and gazes at the terrible possibilities which rise up before her. Again the question comes back to us, is there nothing to prevent the emounter, or to break the

The Fires of Rome and London.

characters which have influenced society for weal er woe, no one has shown more disregard for the welfare of huing her emperors, seems to have been peculiarly fortunate and unfortunate by turns, and the words of Southwell may aptly be applied to her vicissi-

"Times go by furns, and chances change by From foul to fair, from better hap to worse."

One day, all refugent by the glory of her Emperors; the next, shadowed by their debauchery and oppressed by their tyranny. But while the world endures, the iniquities of Nero will stand masterpieces of Grecian chisel, pencil, torticus might be overlooked, the usines the repository of their glory; marder of his mother forgiven him, never the hundreds who gave their masis to his name. In the midst of tolemn requiem, chants "The Sack the crisse which steeped both prince of Troy" to his harp.

and people in the same fearful guilt. be hold the monster as he prepares the terrible doom for Rome, which in a sheet of retributive fire was to overwhehn her like the cities of the plains. The people were crowded in wooden houses, the streets were narrow, and the atmest one was required by the visits to prevent accident, which, with their limited means for combutting the flames, neight easily become a caharaity. But of what avail could the fire engines or the people be, when the passions of such a tyrant as Nero were to be gratified. Having heard of the burning of Troy, and wishing to renew the dismal scene, he offers Rome a sacrifice to his pleasure. It was the 19th of July that the east end of the circus was given to the flames. A heavy wind from the east soon brought them to the corner of the Palatine, where, being separated, they follow the draught of the valleys. In neither course did the flery elements encounter the massive masoury of halls and temples until brick and stone orunibled like paper in the immense heat. is pointed to us on every kand as the The flamus run with such rapidity along the galleries of the circus as to mock all efforts to check them. Frantimely they leap the adjacent heights. stand the conditions on which society and the palaces of the Palatine and Aventine lay is smouldering ruins. have forced them to call a congress to Down they plunge, into the lowest readjust all the affairs of state and level of the city, blotting out at a sinsociety in favor of oppressed laborers, gle stroke the nursery of the Roman Even in the United States, where there people, and stop not in their wild sport

At the same time another current bears toward the Velia and the Esquiouteasts begin to return to their desolated homes, when the fire-fiend, as if uncontented with his own handiwork, excites new distruction in another part of the city. The wind had now changed, thus opening new fields to conquer. It begin where the Aemelian gardens of the already unpopular Tizellinus touches the city, spreading from the northwest toward the Curiaul and Vicinal hills. For three days the fire raged with unabated fury, destroying less of property and fewer ives than the first visitation, yet the temples, the edifices, shrines of the gods, halls and portious devoted to the public amusement destroyed by it were of greater interest.

Altogether, the disaster, whether the result of accident or design, involved Perhaps among the thousands of nearly the entire city. Out of fourteen districts into which the city was divided, four remained unteached, seven were more or less injured, and manify than Nero. Rouse, in secur- three were entirely destroyed. It is saved it from entire destruction. Among the ruins were the Temple of Diana, the shrines and altars of Hercules, the Romulean temple of Jupiter Stator, the Regina of Numa, the Sanctuary of Vesta with the Paladium Penates, and the ever-glowing hearts of the Roman people. The loss of these time-worn structures could be replaced, but never the unblemished out in overtowering pre-eminence, r graver, the prize of vict ory, the His unjust oppressions and cruel ex- works of genius which made Rome's but the charred spectre of martyred bodies to the catacomb of flames, as Rome will stand an ever-enduring Ne- | Nero, from his palace towers, as a last

The next great conflagration of interest, if not as destructive in its characacter, yet quite as remarkable, occurred in the city of London in the year 1666. The fall had been remarkably dry. The wooden buildings, narrow streets and heavy winds seem to have conspired against the metropolis of Western civilization. No haughty tyrant now commands the flames, but the gods of vengeance send forth the furies with the wings of Boreas to bring condemnation on the works of man. This chapter of destruction orens with the demolishing of a baker shop at the end of Thames street, next to the Tower. It was early on Monday morning, the 2d of September, that the stillness of the long and narrow streets of London was broken by the load crieso? "Fire! Fire!" and the pleasant dreamer springs from his couch, and half awake becomes suddealy conscious that the peaceful city is in dames. So rapidly did the fire spread that the utmost speed was required by the ilying populace to escape suffocation and death. Calamity came with calamity, for no sooner had the city water pipes been turned on than it was discovered that, by accident or design, the water had been cut loff from the city, so that it was impossible to offer any resistance to check in any degree the storm of fire which ex-

"It consumed 89 churches, the city gates, Guildhall, many public structures, 32,000 private houses, 400 streets. Of the 26 wards it totally destroyed 15, half bury others. The ruins occupy 456 acres."

the destruction:

veloped them. At the close of three

Thus involving two thirds of the city, that, too, in the richest part, with all of her warehouses and most of her public buildings.

With reference to the origin of the the fire, there is some doubt whether it was from accident or design. At the time of the excitement it was generally attributed to either a conspiracy of the Dutch and French for the purpo-e of impoverishing the country, or an unwise atterapt of the Unthelics to

ments could be made for constructing buildings of greater magnitude and were these the only advantages de-

Dram-atie-- Har-room. Bird of Para-dise-A gambler. Bald mouths are said to be at a discount among the students.

Railroads and Railroaders.

Our forefathers chose the eagle as the symbol of our country, but at the present we think a railroad train going at full speed would better typify American tife. We pass no very small portion of our time aboard the cars. people have been married and born at the rate of forty miles an hour, while, to judge from the experience of the past year, we stand a much better chance of being cru-hed or burned under the fragments of a palace sleeping car than we do of being hanged or struck by lightning.

The discovery of the powers of steam and their application to locomotive purposes, has rendered the rapid development of the United States possible. Possessed of a territory larger th to all Europe, exclusive of Russia, the distance of places and the difficulties of transportation would have bound our progress to the slow wheels of the mule team, if the genius of the Angla-Saxon minds had not discovered the most powerful of motors, dragged it from its hiding place and pressed it into the service of mankind.

Furthermore, railroads were necessary to our material progress in the past they will not be less so to the preservation of our institutions in the future. With a country stretching from ocean to ocean, and from Tropic to Arctic Circle, with a population consisting of days London, the metropolis of England, was no more the habitation of all the races and nationalities on the thousands, but a city of ruins. One globe, the obvious tendency is toward of the in-criptions on the London disintegration. Considering these facts and our past experience, it is not altomonument thus details the extent of gether visionary to say that the next century would see half a dozen distinct governments in North America, if it were not for steam and the railway system. The net-work of railroads will be the iron ban is which, resisting all tendencies toward separation, will bind the different sections of the conetry fast together, and combine the couflicting elements into a homogeneous

If railrends are a peculiar product of he nineteenth century, railroaders are not less so. These "fast" sons of the Iron Horse will engage our attention for a few moments. Their mode of life develops certain generic peculiarities of character, which give a rather low opinion of "railroading" as a meral disgain an ascendency. In either case cipline. The railroad, like the army; the effect was list by the unthought-of attracts those unsteady spirits which effect upon all. The King and the disdain the monotony of ordinary la-Duke of York did all that was in their bor, and sigh for something more expower to subdue the flames, and their citeing in character. Passing rapidly efforts to relieve the suffering were so from one section of country to another, successful that within four days all they have not the same necessity of were provided with shelter and food. | guarding their conduct as when settled The rebuilding of London was not as permanently in a community, under rapid as that of Rome, probably be- the eyes of old ladies who diligently cause the government did not aid as circulate all reports of depraved coneffectually in the construction as in duct. Railroad virtues are courage planning for the reconstruction. It is and generosity, railroad vices are genconceded that, notwithstanding the eral recklessness, immorality, intemperenormous destruction of property, the ance and irreligion. A long expericity, as a city, was materially benefit- ence on the road is likely to render a ted by the disaster, for now a regular man reckless of human life, hence the plan could be made, by which the fearful accidents of the past year streets could be widened, and arrange- through the carelessness of railway officials and employees.

The kardships of the road lead to with more substantial material. Nor intemperance with a fearful facility, when the bottle supplies oftentimes rived, for immediately after the fire the place of food, fire and drink. The there was organized in London a com- rattle of the wheels and the screech of pany who first put into operation the the whistle are little conducive to reprinciples of insurance against loss by figious meditation, and it has been observed that men habitually exposed to a certain degree of danger to their perishing bodies, do not display much anxiety on account of their immortal souls. A brakeman with a bible would be as purely a picture of fancy as a hypocrite without one.

The characteristic of the railroader which appears most striking to the unforcunate traveler, is the utter absence of human sympathy in his composition. He knows what time the train starts, but to tell it upon inquiry is an exhibition of sauvity quite be yend his conception. The conductor is steraly unaccommodating, the engineer morose, the brakeman gruff, the truin-boy brazen-faced, while the baggage master is the most crabbed of mortals. It is time for reform to be-

American Politics.

Political life is a curious study. In England the most dazzling prizes are political. In the English novels political success is represented as the greatest triumph. However illustrious in rank a man may be, however rich, the real crown of his life is political distinction. It is very much so in fact. Men of the highest culture, of the utmost refinement and delicacy of nature, enter the lists. Parliament, to the young and and accomplished English gentleman of to-day, is what the tournament and the field were to his ancestor. The church, the army and political life are the three careers open to a "gentleman." And of these, the highest in general estimation is unquestionably the last. It is hardly less so in France. The hero in the vaudeville, which is a picture of cotemporary life, triumphs at last in receiving his appointment as Embassador. Upon the actual stage of life scholars, historians, savans are politicians and statesmen also. Lamartine, Guizot, Thiers. Arago, did not disdain an active part in politics, and were doubtless as proud of their political position as of their literary fame.

To cross the Atlancie to America is to reverse the fact altogether. The American "gentleman" upon his travels, who remembers with more real pride than any other incident of his tour the fact that he was invited to dinner by the Prime Minister in England, or by the Foreign Minister in France, in his own country wonders that any gentleman can dabble in the dirty pool of politics. His charitable excuse for his neighbor who interests himself in political affairs is, that he is rather needy, and would like a respectable living as Minister to Monaco, and so pays the necessary price, by shutting his eyes and rolling a little in the dirt. If you ask him, whether Mr. Gladscope and John Bright, Canning, Burke and Lord Chathasa also relled in the dirt, he smiles, and says that they manage these things differently in England. If you ask him whether, upon the whole, these men could have employed their talents more usefully, and would have done more wisely for themselves, for their country, and for civilization, if they had left politics to inferior men he is asconished that a man of your sense should not be able to make distinctions. If you ask him again whether he is opinion that a government like ours would be more honestly and economically administered if it were left wholly to blackguards, he shakes his head. If you then press him to know whether such a government will take care of itself if decent and honorable men decline to take any interest in its management, he bows politely, and wishes you good morning. - Hupm's Magazine.

A terrible collision has occurred between George Francis Train and a train of thought, which is an accident that has no precedent.

LOCALS.

Cadeta in Chicago.

On the night of Tuesday, October 13 in obedience to a call from the Governthe next morning and were almost imme liately assigned to duty.

Company A was detailed on the West Side to guard the General Receiving students in attendance, with the year Depot for aupplies for relief of sufferers and the churches in its vicinity: while the rast of the Battalion was retained on the South Side to maintainorder by patrol and special guards.

The Cadets were relieved on Friday afternoon and returned to the University on Friday night. The following letters of thanks give evidence of the services performed:

CHICAGO, Oct. 13, '71. To he on there end Students of the I. I. U. We extend to them our heartfelt thanks for the manner in which they have done their daty since they have been with us in our great calamity.

SAMUEL POLKEY,
Cashier Board of Public Works.
Livest J. M. DAVY,
Supt of Supplies.
W. S. S. WING,
Supt of Chathing Department.

CHICAGO, Oct. 28, 1871. E. Sugale

clears officially, and in behalf of city of Chicago, to thank you, and students of the Illinois Industrial University, for the efficient aid rendered by your company in the preservaproperties of property during the few days succeeding the great conflagration. I am informed that your command, with alacrity and great fidelity perform-

ed such duties as were assigned it, and rendered very great service to this com-

You will please shank your command, one and all, in the name of the city of Chicago, and assure them that the promptness and fidelity with which they discharged their daties will be gracially remembered by our citizens. Very respectfully,

H. B. MASON, Mayor.

HEI DIV. OF THE MISSOURI. Catesan, fals., Oct. 18, 1871. Special Orders Mr. 75 :

The Illinois Industrial University Cateta are hereby relieved from duty in this city to return to their homes.

In parting with these troops, the Lieutesant General of the Army exprocess his high appreciation of the charfulness and promptness with which ther cane farward and the value of the the pervices they have rendered.

Liver Gen. Sizzidan.

JAS. B. Fuy. Awt. Adg. Gen'l. Coremanding Officer, I. L. U. Cadets.

CHECAGO, Oct 20, 1871.

DEAH SIR :- In behalf of myself and the un terrigued eisizens of this district, allow see to thank you for the uncesing care, courtesy and indurance do-placed by yourself and the two compa-mes of University Cade's under your

We all feel that it was to their watchfulrame that helped us to save our socion of the city from further troubse.
M. F. Jaskuss.

Charles H. Geanbers, J. S. Swartiey, T. N. Patterson, J. T. Flauning, John W. Mills, the Lordy D Warner, C M Callestson, D. H. Glie, W. H. Frazier. Meratur, Calkins, Grantis.

Musice-The Eastern Universities sergi to be troubled with something called the "rus ces." It is to be hoped that the affliction will not come any Earther West, and that senitury mess- locals may feel the fierce attacks of use may derice it when; now existing, moths and mice.

University Items.

The fourth year of the I. I. U. is now in flourishing progress, and but one institution in the land can boast of a more rapid and prosperous growth. And it is but right that it should grow rapidly and early attain eminence among the Universities of the country, or, the Cadets started for the needy, for the education which it teaches, and tecror stricken, still flaming city of the State which it represents, both de-Chicago. They reached there early mand that ultimately it must take first rank. At least in the West.

> The following is the summary of the of their course :

#1 Fourth year...... #1 Third year...... #1 Second year..... #1 First year.....

This gives up attendance of 314. Of these, 4) are young ladies: 19 of whom are second, and 21 first year students.

There are but few colleges that have a larger Freshman class. The increase in attendance each year has been sixty per cent. How long our University may expect a like increase, let our Legisla ure determine.

The following is the bulletin for recitations for this term : Hydraulies, Leveling and Surveyi'g Laboratory Practice,

Ancient litstory, Architectural Drawing, Botsny (Cryptogamic), Book-Kerping, Hook-Kerring, Chemistry, Chemical Physics, Constitutional History, Comparative Anatomy, Talculus, English Literature, Frest Gre wing, Frest Gre wing, French, German, Geology, Geometrical Drawing, Geometry, Grock,

Mineralogy, Mental Philosophy, Milhary Schme, Practical Astronomy, Principles of Mechan-Roads and Railroads. Strength of Materials, Solis and Fertilizers, Shop Practice, Trhymogenety, Veferinsty Science, Zoology.

Latre. Machine Drawing.

Those spees that Prof. B. brought back from "Hold Hingland" make one think of Nast's portraits of Hall. 'Spec' we will have to accustom ourselves to their looks.

The teaching force is increased this year by Prof. D. C. Taft, who takes Geology and Zoology; Prof. Joseph Carey, who has the Ancient Languege; Mr. H. Hanson, Instructor in Free-Hand and Projection Drawing, and Professor M. Miles, who during the Winter Term will take the students of Stock Raising and Feeding.

As will be seen by the Minutes of the Executive Committee, published in this number, the chair of Civil Engineering is soon to be filled by Prof. J. B. Webb, of Ann Arbor.

The Military Band has received some accessions, and now consists of seventeer members, and numbers fifteen mouth-pieces.

The match between the Junior and Freshman nines was won by the Juniors in a score of 13 to 12. The Freshman nine can boast of some good players, and with a little drill can make the Juniors work for victory, and possibly make them lose it.

The lady students have organized a literary society, calling themselves Alethorai We congratulate them or their name, and cannot suppose they will ever be anything else than Alethenul-opponents to the false.

Poor Dickous! Poor Scott! Poor Cooper! Thy visions of immortality and wide-spread influence for good were but dreams. You left us rich legacies, but it is feared that a secret paison is hidden in the necklace of the cenius, and we have buried from sight our inheritance. And as the worm and decay destroyed thy morsal clay when once they placed it in tho tomb, so thy loved treasures in dark and silent

MESSENG OF EXECUTIVE COM-

The Committee met at the Regent's office, on Wednesday, November 1st, 1871, at 4 o'clock r. m.

Present, Messrs. Brown, Cobb, Cunningham, Goltra, Lawrence and the

Absent, Meyers, Griggs and Pearson. The reading of the minutes of last neeting was dispensed with.

Judge J. O. Canningham offered the following resolutions, which were

Resolved. That the Regent is instructed to cause regular delly metocrological observations to be taken from this date, or as soon as cultable histrements for such observations can be obtained; and that accura a records of such transactions be kept in the University.

Resolved, That the Regent and Faculty be requested, as soon as circumstances will permit to fix accurately the point on the Hibnors Central Railron where the fortieth parallel of latitude crosses said road, and take measures for permanently establishing a monument at said point, and that they likewise be requested to by the exact britishe and long tude of the north cast lower of the new University building.

The book-keeper's proof of collec-

The book-keeper's report of collections and expenditures to date was then read and adopted. An amount of \$20.21 expended from the conlingent fund was audited and allowed.

s at daccounts which have been paid since last meeting, and such as were now presented for payment, were audited and allowed.

The Committee then look a recess, to meet again at 7:30 p. M.

The Committee re-assembled at 7:20

The Regent reported that the Special Committee appointed to purchase blooded stock had made the following purchases:

One young Hereford bulk, "Challenger," ... \$150 " yearling " heller, "Graceful th," \$50 These were purchased on the recommenda-tion of Dr. Miles, from Nr. Jones, a breeder in

One young Short-horn bull, "Baron Lonan-(Purchased of J. H. Pickrell, who donates

\$200 of the price.) (These were coursely of Hon. M. Sing, of Munnesota.)

All the foregoing are now on the stock Farm, and are doing well.

The Committee have also bargained for one Dovon beifer, Minnewawa, for \$200, on the way here from the Michigan Agricultural College.

One Jersey bull and one heifer, to be received from Col. Colt, of Hartford, Connecticat, to cost together \$300. Hon. W. C. Flagg has offered us as a donation a young Devon bull from his herd. This will give us a male and female of each of the leading breeds of neat cat-

There have also been purchased or donated the following pure bred animals, now on the Farm :

Four Southdown owes, bought of M. Jones One Southdown buck, donated by J. H.

Pickrell, One Berkshire beer, "Primus," bought of J. H. Pickrell..... Jr. H. Pickrell

B. Pickrell

Fwo Herkshize sows, "Biddy," boughs of J.

H. Pickrell

Fwo Herkshize sows, don-ted by J. H. Pick-

The Committee contemplates other purchases, when a full report will be made.

The money for several of these purchapes has been advenced by Mr. J. H. Pickrell, and a warrant is asked to re-

This report was accepted and a warrant for \$1,051 ordered to be drawn to J. H. Pickrell, for moneys advanced in the purchase of stock.

The purchase of one Duriam heifer from Mr. H. Sodowsk: and one Deven ball calf, from the Michigan Agricultural College, were sanctioned and war; rants ordered to be drawn for the

It was resolved, that the Committee accept with thanks the donation of one Dovon bull calf from Hon, Willard, C.

The thanks of the Committee were also expressed to Mr. Burdett Loomis for his landlady watch her skillets.

a donation of pictures of pure bred

It was voted, that the Chairman of the Committee on Agriculture be requested to make such arrangements as he may see fit, for the care of the blooded stock, and report at the next meeting.

The plan for ditching and drainage, presented by Farm Superintendent Lawrence, was accepted, and he was au borized to carry it out. He was also di rested to seil, at his discretion, three horses, now not needed for work.

it was decided that the arrangement for the employment of Mr. H. K. Vickrey for next year, be referred to a committee, to consist of Pr. J. M. Gregory and Judge A. M. Brown, to report at next meeting.

A contemplated sale of a span of mules from the Horticaltural Department was referred to the Regent and Prof. T. J. Burrell, with power to act.

The following accounts of the State appropriation were audited and allowed:

The Regent was authorized to employ Prof. J. P. Cerey as Professor of Ancient History and Languages, at a salary of \$2,000 per annum.

It was further resolved, that Prof. J. B. Webb be appointed to the Professorship of Civil Engineering, at a salary of \$1800 per annum, subject to the action of the full board, provided, that he enter at once upon service.

The current appropriation for Building Grounds was increased by \$1000.

The subject of insurance on buildings was referred to the former special committee, Dr. J. M. Gregory and Judge J. O. Cunningham.

Cu motion, it was resolved that the Regent be authorized to cause to be built in a convenient position in the new University building a fre-proof varilt, of sufficient size for the protectection of the valuable papers and books of the Institution.

The committee then adjourced, till Wednesday, December 6th, 1871, at 3 o'clock P. M.

J. M. GREGORY, Regent E. SNYDER, Sec'y.

PARMERS INSTITUTES.

The Fourth Annual Series of Courses of Agricultural Lectures and Discussions will be held during the coming winter at the following times and places:

CHAMPAIGN, Jan. 8th to 13th, 1872, Dixon, Jan. 22d to 25th, 1872.

PONTIAC, Jan. 29th to Feb. 1st, 1872. Avox, Jaw. 80th to Feb. 2d, 1872. PITTSFIELD, Feb. 6th to 9th, 1872.

Thomas Mechan, editor of the Gardener's Monthly, and one of the leading botanists and horticulturists of the counry, is engaged to deliver six lectures during the time of the Champaigs course. Dr. E. L. Had will leature at Dixon. Pontiac, Avon and Pit sfield; and mentbers of the University Faculty, of the Board of Trustees, and of the State Agricultural and Horticultural Societies, will deliver addresses at all the points

One '72 is reported as drifting Leeward; another ignores the sportive tide and prefers the Chase, and a third Freight S.45 p. n., and 8:25 p. m. says that "Douglass round him drew his cloak."

Cairo and St. Louis Express 13:05 p. m. his cloak."

Cairo and St. Louis Mail. 3:05 p. m. Express 13:08 a. in. Freight 7:30 a. m. and 5:45 p. m.

Five cases of new books have just been placed on the shelves, seven more are in New York or on their way here, and more are in the London binder's hands or packed for shipping. Good! Let them keep coming.

In a heated discussion a '74 was heard to say, that above all the Sciences, give him the Arts; and of all the Arts give him the Sewart. Let

DIRECTORY.

Student's Organizations.

STUDENTS', GOVERNMENT.

Organized Oct. 5th, 1870, and vested by the

JUDICIARY AND EXECUTIVE COUNCIL, N. C. RECKER, H.A. MANN, T. E. RICKARD, S. A. RAYNOLDS, F. L. HATCE,

There is no appeal from the decision of the council.

H. A. Mann, S. Sy.

PHILOMATHEAN.

Young Men's Liferary Society. Organized, March 7th, 1888. Meets in the Society's Hall, Room 73, at 7 v. M. every Saturiay. H. A. MANN, President. J. R. ANTHONY, Sery.

ADELPHIC.

Young Men's Literary Society. Motto: "Aninto optionsque parta." Or anized, Marco 7th, 1868. Meets in the Society's Hall, Room 74, at

Tr. n. every Saturday ... UHAS, HAYS, President. W. A. REISS, Section

ALETHENAL

Young Ladies' Liberary Society. Motto: Apo ton dunaether, procto einer. Organized, Oct. 4th, 1871. Mosts, from 1 to 4 P. M. every Wednesday. Miss M. E. GKEGORY, President. Miss Alick Greevers, Secty.

I. I. U. GYMNASTIC CLUB.

Membership Vee, satty cents. Organized, Kovember 170, 1870. Fraction boars from I to 2 P. M. and 4 to 5:30 P. M. H. O. WOOD, President. A. W. Down, Sec'y.

TRE B. B. C. "RECREATORS."

Organized in May, 1818. Practices on Tues-ace at 8 r. M., and on Saturdays at 1:33 r. M. All communications and invitations to play All communications and should be addressed to S. A. REYNOLDS, President.

INDUSTRIALS.

Organized in the fall of 1869. Needs on Friday evening. Mecasses questions on industrial Art. Membership Fee. 25 cmes - 40 dues.

S. M. Niwhy, Sec'y.

BATTALION, ILLINOIS CADETS.

Commander, Prof. EDWARD STYDER.

Co. As Captain S. A. Reynolds,
Co. E. A. M. LLAGO.
Co. C. J. E. CASSIDEL.
Co. D. T. E. ROKARD.
Co. E. E. L. HULL.
Co. F. R. O. Wead.
Drill Days—Monday, Wednesday and Friday.

CORNET BAND.

H. E. Robbins, Leader, J. W. Colbero, Instructor, Instruments—Meets for narriar lesson at 6 P. N. on every Friday, in the Hand room, Practices at 5 P. E. every Wednesday.

STRING BAND.

J. W. Coungus, Leader and Instructor, Non-Instruments—Meets in Band room for segular lesson every Menday at 6:20 P. M. Members wanted.

STUDENTS' DAILY PRAYER MEET-ING.

Meets every evening (Sundays excepted) at :30 P. M., in Room 22. all are welcome.



RAILROAD TIME TABLE. Illinois Central Railroad.

Passenger trains will leave this station until further notice as follows: GOING NORTH.

Cairo Mail .. airo and St. Louis Express ... W. P. Jouxson, Gon'l Pas. Agent.

MARRIED.

On Thursday, November 200, at the residence of the bride's latter, by Rev. G. W. R'ley. ALBERT G. WHITNEY TO NORA EADERACE.

Go, Albert, and, with your Nors, drive away the shadows of life by relieving the proor, enlightening the ignorant and rebuking the solush. Through your long years of fature happiness and power may you never quite forget old Alma Mater and her joyous associations. Please accept the best wishes of your college friends and



YOUNG LADIES HEPARTMENT.

NAME ALLOW PRESERVED.

Perfection Through Trints.

Lines suggested by the Chicago Fire.] On the quiet, automa limite, On the careloss, lugger pir, Came, with sadden sound, the wall Of despate. All the fair Silence ecline t with the moan Of four, and despiction abown

Evry rathers.

Then I shuddered, waited, prayed; (Women pray white horose fight --] But un kapplions or joy. Came to make sed bracks more light. While the sight Of the fearful, turid glars Of the fire-fleed's mocking stare,

Filled the night.

As I waited anxiously, Doubles and questioning eyese. Why named their thing; but I suld, please the black,

Of the thery farmane, carson Small said still, a vision of fising Planting past.

Still send small, yet wondrous clost, Specie the cutes I heard thanday. Gold roll and area has its differ-Pearls Sevelope through downy. Pair dienser Hemids actions; and at length Trials loave particised strength. In thide way.

While the voice was speaking, came Mights and seconds most glad and sweet. Hights of foor fall of born. Sounds of caper, harrying feet, Stilled earl street. Lane sand buy hours to ever on who ex-Hearts and hands with boundless care

Where auglete. Jeniscop and hatrot Sol. Mirifo me locator todad and errord Alf quar brothers, beiposs, tristada, Liswand sympathy to preve, Promu above

Canve the still reside saying soft, Home Histo Lamone, Saud it oft And spanier.

emsions and coasys upon the fine art; er, but they are none the worse for and reviews of different works of art. that, perhaps. Hoping and believing that the time | There is nothing on earth so grand is not far distant when this University as humanity. Whether it is more pershell sount among its children, artists, feetly shown in man or woman, no one poets, musicians and sculptors, we do can tell, for God placed them side by not hesitate to choose such subjects, side. We cannot say that woman has but send the material forth with a hope all she needs, or has attained to all she that it may foster and strengthen all ought to have, but that, at present, unthat love of the beautiful which makes til she is better prepared, she has all hit so delightful, and a trained eye, she can control. It is a truth most haisd or heain such a rich possession. bitterly felt by a few, that even now, -- Ens.

Charity, the angel pure and holy. ever follows each one of us seeking to re-train, help and guide us. Often, and to their full extent, the rights often do we repulse her, and very ofter ignors her altogether. We are greater influences, and vaster power wrapped in fretful complaining, and a thun even they ask, to lie dormant, sombre cloud hades all the rainbow scol. Yet we cannot wonder that the power ore. But when we place our hands in which weman holds does not satisfy hers, we see no more the sin stained of her, and often remains unrecognized erring mortals which offend our eyes; our own garufents become fair and cle an; the world is a good old world, tutient waiting, is often left to wither and it is sweet to live.

"T) at path of duty is the may to glory." Trough mountain power, over ragget sod. Received, fair pouts to weakled agree has by T's path of duty is the way to God.

Yew appreciacte the nobility of silengs. Who can tell what strength it takes to wait perforce while others work? Who knows what courage it recaires to be silent for another's sake, or to endure quietly unjust words? At I the noblest hearts are not always of humanity, which, gazing on the the well-knewn ones, for tilence often hidean hero.

Woman's Work and Place.

There lay upon the ground, one surny, summer day, a nut just fallen from the tree. A little child came by, saw it, but shook her head, and said "I will wait. ' So she sat down on the moss-covered rost of a tree, where the pleasant sunterms flitted about her, and waited. Presently to happy children was leved there. They saw tire great round nut, and engerly seatched the prize. One pounded impatiently to break through the stubborn, green rind, the other broke off with his hands the bruised covering; but their suppy faces clouded. "Throw it down," said one, "it stnins our hands." "I guess it's not good for much, after all," said the other.

The little child sitting under the tree smiled, looked at her own unsoiled hands, but said nothing, and waited. Soon another passed that way, whisthing cheerily. He emeked the shell of the troublesome nut, "but oh! there's too little ment," sang he, and went his way. "I can't break off the shell alone," said the quiet child, and waited there notil a group of children eame dancing by. "See," cried one, what I've found." "All cracked and ready for us, 'said a second. "Too much meat there for one," said a third little tongue; " let us all have a trate." So each hastily picked out a bit and denced maily on.

Then the tioy, wise child came up, gathered the cast-away shells, and laughed all to herself. "They did not look in the little spacer," she said, "and the sweetest bits are there."

On the ground of human inquiry there lies still the nut of woman's work and place. The rind stains and discolor; the shell is hard to crack; the meat, too vauch for one, is divided among the many; but there are the little out of the way is to, still left free for the feeble and unskilled hands of us girls. These bits are seldom chosen or We expect to fill this department tasted by the discursing public, for with possess, sketches, etc., with dir there seems so much more of the oth-

woman and girls, while speaking the truth earnestly, or prating of it with idle tongues, concerning rights and power and influence, do not use properly, which every woman holds. They allow by its possessor. Humanity is impatient, and that which requires long and and perish. Her influence is woman't greatest power; but it must be exercised with patient, and long, and si lent waiting, for its results are only seen after years of watching. This it is which makes woman's work seem small to some. We must first recognize its greatness, believe it potency, and hold the angel patience fast, that we may make ourselves fit for its do-

Women but follow the great mass

She beholds with longing eyes the pews were about six jeet quare, with Well, the mounting was like this all to build her palace so strong and well, that whirlwinds of impulse and passion cannot everwhelm it; to frame it of marble so pure, alabaster so white, that evil and wrong shall not dare to sully or stain.

The fair, green hills will be gained in time-only, oh sisters! enjoy the equal fairness of the land-cape around and shady, their elevation grand beyond measure, and you shall reach them by and by, by steady, toilsome climbing, but gather garlonds as you go, to enrich and beautify that which you shall gain. The stone you hold is rough and unsightly, it may be, but break it, and you shall fin I the dainty. glittering mystals of a Geode. Polish with care and toil through the long, dreary day, the dull pebble you possess, and at evening time, there shall flash before your wondering eyes, the glery and radiance of a priceless diamond.

A Bullockite Maeting.

"Away down in Maine" there exists religious sect called the Bullocks, or Bullockites. Why this queer name, whence the origin of the sect, no one scertain portion of the Pine Tree State, where. The Bullock creed is exceed education, or anything "new," and he is counted the best wan who talks and

eave my readers to imagine. quare white "meetin' house" came sembling a powerful timidly around the corners, and hosts a most fervent responde to all said. immediately became the objects of en- The chorus was full of all its and qua rious eyes and goesiping longues, and vers, and the work house had five thing which I particularly wished to breath every time in the middle of

grand forests covering the mountain seats or benches around two sides of through, but in the afternoon, when tops, and crushes with careless foot them. Little pens they were, with we again attended, the excitement was the fragile, dainty blossom springing gates opening in thexpected places, still greater. The little old woman of from the plain where she stands. But The pulpit, full ten get high, was in our morning a acquaintance was the she is waking, rousing he self devel- the form of a semi-crele, and reached first to speak. I thought that, being oping neglected talent. She is striving by winding stairs. A wice gallery ex- old and feeble necessity would compel tends around three sides of the build- her to be moderately calm. But no! ing, and completes this rtrange, oth, she exceeded the elder in vehemence. fashioned edifice. While I was occu- she screamed and shouted, she foamed pied with a mental street of the place, at the mouth she shook her fists, and the congregation gere entering by waved and tooked her arms she stamptwos, threes, singly and in groups; ed her feet, danced up and down, flew the strangest medley of people possible round and round the pew as though to imagine. Old, wrinkled men and wild; then suddenly dropped upon her women, bent and to sering, clad in an- seat and resummed the look of stolid inyou. The mountain forests are rich tiquated garments, nost fearfully and difference she usually wore. After one wonderfully made; r aids and matrons, whose unskilled atte apts in ornamentation were ludicrous and p tiable; gruff farmers, and blund ring green boys, together with children of all sizes, age and descriptions, made up the motly congregation. S.dden'y, without warning or intimati nof his intentions, "old Elder Stone," hitherto hidden, advanced to the from of the pulpit, fell upon his knees, with a thump that echoed over the church, and said, "Let us pray." Toose words are always sacred to me, quieting all unhallowed thoughts, and saying to all, "let us pray;" but then hey came so suddenly, the action accompanying them was so abrupt and ludie ous, that I smiled visibly. For the next half hour I really suffered. I lared not laugh. yet could not help t. The elder was old and wrinkled His hair was grey knows. It is represented by scattering and his small eyes dim. His wide, families, or sometimes small villages in thin lips covered a tow decayed teeth. but beyond these there were no defi-

but I have never heard of it elso nite features, except his mouth, which was so widely opened, that it banished ingly indefinite. They don't believe in attention to anything else, and there were two tight anes where eyes should have been. With one hand he held prays the londest and loss est. What the pulpit railing, with the other his people such a belief world beget, I left ear, and that poor erg in was twisted around and around, churned up and In the little village of P---, where down, and pulled here and there, until was visiting, lived two or three of it attained the hue of a tool of fire. these queer Bullockite families. One He shouted and sersamed. He dwelt the next door to my grandfa- wheezed, and ground and rattled. He ther's, and every morning, while at coughed and ga-pel and choked till breakfast, we could hear the good man he was purple in the face : then, words praying and exhorting with the great failing to express his emotions, he strength of strong lungs. He was leaned his head back, and simply heard everywhere is the village. One yelled-a loud, skrill yell-with that bright Sabbath merning we received he caught his breath and started again. an invitation to attend a Bullock meet. All this was done in the piculiar singing, which was to be held at a village song which constitutes a part of their eight miles away. Accordingly, John worship, and with violent rocking to harnessed old Kate into the light and fro, and energetit working of spring wagon, and we started. The his ear. The bretheren and sisters in route was beautiful in the extreme, the congregation were thoroughly Up hills so high and steep, and hard areased, and the house school with to travel, that is almost seemed like their responses, while a parcel of bad climbing a perpendicular wall; then boys in the galfery put in "amen's," down down we went, to the valley "ob Lords" and "halle ujali's," inagain, rising and falling over the roll- terspersed with suppressed snickerings, ing ground as over huge and solid bil- in the most ridiculous times and places. lows. Bowling merrily along the few When the prayer was through, a hymn level spaces, through the little village was started by an undeen singer. The of P .-- , and two railes beyond, till the singer's voice was very peculiar, rein view. Strolling groups of men and through a small knowhole. Directly in women dotted the green in front of the front of us, alone it the great pevchurch. Bustling matrons and uneasy sat a little old woman diessed all in children filled the doorways. Shy, black. She had the hardest, homely girls and awkward youths stood most wrinkled face k ever saw, and was of whispering, giggling boys filled up She same with the rest, it a thin, quathe windows. We, being strangers, vering, nasal tone, peterly inimitable. were conducted to the very middle notes to cover. The old lady sang with pew of the old fishioned church, a such zest, that, bein old she lost her avoid. I had often heard of these old that word "home, and cought it churches, but never understood their again when the line was nearly comarrangement, until then. The build- pleted. Something ike this: "An' judging by the facility with which char "green hills afar off," passes unheed- ing was nearly square, and lighted by when I go to my history history of the fermer resp the rewards ed beauties and beauties and beauties and beauties and beauties and beauties and beauties.

or two other exhortations, another woman rose. Tall, thin and stiff; she was the singer. She clenched her hands, held her areas at her sides as though they were immovable iron bars; shut her eyes, opened her mouth, and held forth. Up and down, with the regularity of a machine, she rose and fell, balancing upon her toes, until, in the midst of a prolonged "Oh Lor' i" when on her tip-toes, and at the height of her high veice, she sat down as suddealy and violently as all the others had done. I was so astonished by these two speakers that I lost what followed, but was aroused by the closing song. It was a wild, wierd thing, and as one voice after another caught up the song, each in a different key, ach keeping his own time, the effect an be better magined than described. facr this the meeting closed. Scarcehe a word was exchanged between us until we had passed the village, and stered the dark, fragrant pine grove eyond, and then we laughed, loud and long, till we were tired.

The pine wood, and the old church, and the quaint, queer Bullockites are mony miles away, but they will aiways keep a fresh, green place in memory's

The Music of the Vcice.

The art of talking is one little cultivaled, and selden exemplified. The intor ations and modulations of the voice are seldom considered as matters of much moment; but a soft, clear voice is as musical and beautiful as any symphony of Beethooven or Mozart, and heard much loss often. We listen to a clear rich voice with undisguised pleasuse, scarcely knowing why we are pleased, or what pleased us, but conscious that so nothing fare and anusual lends a charm to the speaker. The world is so accupied with the high arts and science and branches of education, that it too often forgets the minor arts which enrich the possessor so much. A grand sonato or a sweet symphony from some great reaster will delignt all mesis lovers, but a fine and cultivated voi a wins all hearts, charms all hearers, turns pain to pleasure. and makes exquisite melody of commonast words

A beautiful picture, a fine thought made pure in ruarble, a rich, sweet strain of misic-these will hold men back from evil when a sermon would be lost.

There is no such thing as passive, suspen led existence. If a man is not rising, he is surely falling. If he never rises, he is soon below the beast. If he never falls he will soon be pure enough to consert with angels.

Is would some as if notority and recutation were becoming synonymous,

ENGINEERING AND ARCHITECTURE

American Architecture.

During the past history of the world, Architecture as a necessity has ever claimed the attention of mankind; as an art, it has sometimes risen to an equality with the sister arts of painting and scalpture; nay, it has surpassed then; making use of them as accessories, and its effect on the human soul has been more lasting and more generally diffused.

Yest, with this long experience of mar, in every clime, with all kinds of materials, and with the different tastes for beauty, belonging to each different 7800 of man, but comparatively few noble successes in building have been atmined.

Most are but failures. Nor has a knowledge of the true spirit of beauty been diffused except for short periods and over limited spaces.

There is but one means of success. This is, that a people should aim to embody its needs, its spirit, and its tastes in its buildings, not servilly itself. coping the vestiges of an effete civ !zation or semi-barbarism, which express foreign tastes and feelings, but of beauty, and confined himself to his taking such ideas of beauty as it may corn arched construction, which he was change to its notels, infusing in them forced to use from the nature of his its own spirit, building to express an materials, he would have eliminated object.

of the art, it may elucidate this point. | usef shose.

The earliest complete architectu al her was prevalent, that three thouse id with ornament. Ampitheatres, baths, years after death, eveld the body to be squeducts and walls were the object of uny reams be so long preserved, it his labors rather then temples. would be rejoined by the spirit, and His styles have been the source of to take care of the living one. The When the Christian obtained control rest or Eternity.

hand ceased its labors and condidered Architecture. to dust, get to-day his carvings and But they soon found a lack of exprespaintings are as sharply cut and sion apparent, their churches did not day. Egypt has passed away, her zeal, nor that beautiful quaintness so spie - unners, civilization, all are common in the so-called Dark Agies. timesten, yet her spirit lies open in The low nave was ruised, vaulted, those large records of stone, to him massive piers, with their numerous who can feel and interpret.

state were so dim and visionary as to arched or rectangular inconspicuous To him, the Gods were but the shades filled with beautiful tracery and emof long ago berses, not repressing vice blazoned with stories from the sacred or esc uraging virtue; and by a natural page, till at last, the crowning triumph transition he deified his heroes and of Gothic architecture stood forth in thus identified his religion with the its perfect beauty, as nearly possessing past history and triumphs of his race. a living soul as is possible to a work of Thus, been with an inherent love and man. appreciation of the bountiful, greater erection of those magnificent templer, expression of devotion. thena his owa.

were stry feet high.

His love of the beautiful also led him to crnament his temples by painting them in beautiful colors, ornamenting his mouldings with graceful designs, all harmonizing with his main object. We can but dimly realize the effect of one of those temples, for, with its statues broken to dust, its ornaments defaced, its pointings vanished, rich existence. The spirit has de- in the church. parted.

Yet even these relies have been extolled and imitated as the highest success in building.

They offer but one phase of success, not its actue.

The Roman commenced where the ate perception of beauty, built in a corrupted form, cutting his ornaments astead of painting them on as a simple | Roman school. decoration, making them a principal feature, and introducing the arch, also, fal systems of building, each perfect by

Had he dropped the Greek orders,

He could not cut a statue equal to remains now existing are those of the those of the Greek, and so, to make up tages, such as machinery for working Egyptians. Among that nation, a le- the deficiency, overloaded his buildings

enter upon a new so happier exist- much of the bad architecture of the ence. Therefore, to preserve the dead | world, yet to him we owe the original | body became of more importance than of the Gothic Cathedral, the Basilica.

tomo overpowered the temple and the of the State, their first care was to ocdwelling. The spirit expressed by one eupy those basilicas with the services of those massive pyramids is eternal of their faith; and as the new faith for the holding of religious services, Well did the old builder, living in carried with it a disposition to use this lawe, as God is no nearer us there than his tree of mud and reeds, on the banks particular style of church, and though, in the humble cottage, the shop or the of the Nils, succeed in working out his madified and enlarged it may be traced | store. stea. Three thousand years since, his through the wide range of Gothic

brightly colored as if finished yester- express their earnest devotion, fiery

shafts, took the places of the single pil-To the Greek, a different object pre- lar, the walls were broken up into butented itself. His ideas of a future tresses, and the windows, from plain occasion him little thought or trouble, openings, were enlarged, changed,

No matter how illiterate or rude the than ever possessed by any other people peasant or burgher who entered its holy and filled with the desire of celebrating walls, his soul was awed, and be could the deels of his race, he begen the understand and join in its unending American's thoughts and labors.

whose language is not religion, but a! The great power then possessed by mixture of hero- and art-worship, the Rounn Catholic Church was gain-He did not originate his primary ed and held, more by the effect of its tian tomb, or an Italian villa, to live forms, but borrowing partly from religoius edifices on the minds of the in, because these are beautiful things Egypt and partly from Assyria chang- people, than by any other one agency, or because some one else has done so, of and modified them till he made and we venture the assertion, that, when they neither suit our needs, our had their churches been built in an on- tastes, or express our feelings.

In hero-worship, the statue is of tirely different style, expressing no more importance then the shrine, and object, or a different one, the sway of in wood, and then a simu Gothic or we find here, the katue to be the soul that church would never have become Greek villa is a frischood in construcof the temple, everyth ng else, sculp- as powerful or extended as it did. At | tion. ture painting and construction, sub- the height of its power, Gothic architecordinate to it. Several of those statues | ture was at its nearest perfection, both declined together.

Cologne Cathedral, still unfinished, was mostly built after this period, and though pure in design, its workmanship of the best, it fails to impress the beholder, because it is lifeless, a poem in a forgotten tongue.

This style is the most flexible of all, if its spirit be understood, alike adaptto the palace, the castle or the dwelit remains but the skeleton of its former ling, but receiving its fallest expression

> Through it all runs a vein of quaintness and quiet beauty.

With the Reformation came a return to the original church of the early Christians, as well as to the purity of their faith; and, as internal dissensions divided the reformers in many sects, the Greek ended, but lacking his in- their architecture partook of these diversities, and became at last imitations of the worst examples of the

From that time to the present, Architecture has been but a copying made a monstrosity from two beauti, and modification of some previous style, no one style being prevalent. Many improvements have been made, as the Mansard roof, the introduction circady carried to their highest point of iron and glass, as in several exhibition buildings, yet no new style has been developed or invented.

If we look briefly at the past history has been, whose spirit would have been have all the materials of the ancients, many new ones, more real wealth and strength, beside many other advan- branch of Engineering. and transmitting materials,

In engineers, and mechanism, the Americans are equal to any other people, yet in Architecture they have generally failed.

The tomb possesses no special interest to us, since we know that our on the different modes of construction dust, no matter how widely scattered, shall be mathered again.

The church, as an edifice, has lost its sanctity, and is now but a place swept over the then known world, it impressing the mind with no religious

> Neither are we addicted to that species of here worship which consists of erecting temples and statues in them. but rather to that kind which forgets dead heroes and offers to the living, abuse, empty evations, political power and greenbacks.

> But we do have a strong love and reverence for bome, and making that feeling the exponent of our national Architecture, may work out a national style as beautiful as anything in the

> We may build our public buildings in a modified Greek or Roman style. if we take care to express solidity, strength and patriotism: our churches, in a Gothie style, to express our continuance in the devotion, teal, and traditions of our fathers; our business blocks, as suits the necessities of use and construction, because neither of these is the principal object of the

There is no reason, however, that we should build a copy of the Parthenon, an old Saxon castle, an EgypIt may be, also, that ise are to build The Archi ect, Engineer,

and adaptation in build og.

As before remarked, the home cording to the means and tastes of the owner, but all ornamer to be good, colors.

grapes, often gives more elegance and actions. expression than the most elaborate. The best interests of mankind, toearth.

are needed.

1st. A Central School of Architects,

2d. A Builder's Journal, to occupy a place in Architecture similar to the one held in Engineering by Van Nostrand's Magazine, giving a popular known by mechanics generally; papers in different materials, and the best methods of operations; a full and complete explanation of all the best methods used in the work-shop or on the fully and theoretically at the School of Architects.

directions and the nece-sary instructions and explanations for executing bailding materials, their proper use more than any other agent. and management. The mechanics of construction. The strength of ma- as the unerring fluger to guide man terials. Making all necessary drafts from an old to a new world, in which and plans. Stair tailing. The prin- liberty might have a new birth of civil ciples of good taste in Architecture, and religious freedom. By the telecontaining the methods of proportion- graph, intelligence flashes from city to ing the sizes of all parts to each other, eity and from nation to nation, faster etc., thus forming a complete body of information for practical men, similar to the different good machine and tool caused it to do his work and bear his books. No such work at present exists. burdens. The press, the recelle, the Most of our American Architectural telegraph, the steam engine, all have works are too general and theoretical, contributed to cause intercourse among or are simply architects' advertisements, and few give any principles of building.

These would do much toward elevatas rsuch for it as similar means has done to reform and advance our Engineering.

and Inventor's Calling.

In every age some peculiar feature Brick or stucco should not be made has been dominant. We have had to represent stone, or wild, either, for the age of arms, of poetry, of theoloevery material has its own expression gy. From each of these periods great names shine out in the page of history. Each was creat in his day and should be made the lighest typo of generation, and attracted the esteem American Architecture. Convenience of his age, and still continues to be reshould be the first requisite in con- membered, because he practiced that struction; elegance in justs and orna- which, at the tioc, was the greatest ment the next, simple one shorate, ac- means of helping men onward and upward.

By forgetting that only by doing none of the unmeaning find so often good can we hope to gain the esteem seen, and painted it harmonious of our fellow men, and that by practicing that which post tends to man's The surroundings, too, are quite im- advancement and dvilization can we portant. A bit of nice law a noble, merit distinction, we are liable to rely tree, a clinging vine, with its green too much upon the history of the past foliage, beautiful biossoms, or simple for examples by which to guide our

cornice. It is of God's carving, and, day, are not to be advanced by the were it rarer or costlier, we should see same means that were employed durits beauties more easily and prize them ing the first, fourth or twelch centuhigher. To build well, expressing a ries. We live in an age of advancenoble purpose, costs less than to put ment; in an age of intellect and of up an abortion to disfigure God's fair science, with all its varied and ramified connections with mind and matter; in To accomplish this elevation or an age which is fast seeing the subjuarousing of the native good taste of gation of the stapendous forces of pathe American people, several things ture to the will of man. Civilization has had her warners, her poets, her orators, her statesmen, her divines. worthy the name, to educate architects But the civilization of to day, in its Americans ought to have a national thoroughly in the mechanical con- present stage of advancement, destyle. Not all the possibilities of struction and the artistical designing mands men of science to grapple with a new style, as successful as any other Architecture have been exhausted. We of buildings. Very few institutions in the great physical as well as monthe United States profess to teach tal and moral world. She de-Architecture, and those only as a mands that science, the great leveler of all obstructions, shall go forward, breaking down every barrier to improvement, and clearing the impediments from the course of societary movement, until every man shall feel series of articles on that part of the that in his neighbor he necessarily has history of the art, most essential to be a friend, and all nations shall realize the common brotherhood.

> The inventor, the engineer, the architect, have done much to ameliorate man's condition, and yet much remains to be done. There was a time when the destinies of Rome were building, for laying out and drafting swayed by the eloquence of the forum; work; in fact, to furnish a popular when by the eloquence of the orator form of the instruction given more kings were made, and by the same power were dethroned. The inventor, by the invention of the printing press, 3d. A series of books of convenient banished the tribune and the forum, form, for each trade, containing full with their noisy and dangerous assemblies; and the editor in his sanctum writes down his thoughts, and in a all kinds of building in the best man-few hours they are read and calmly ner, giving the methods actually used considered by thousands of his fellow now in the various parts of the coun- men. Thus we see put into operation try. For example, one for carpenters' one of the great machines for working use, should contain a sketch of such out the civilization of the world, styles and their details, as are commonly which, with the exception of Christiused. A full and plain account of all anity, has done and will continue to do

> > The magnetic needle has been used than travels the day. The inventor has harnessed the power of steam, and nations, and intercourse has begotten common interests, fraternity and

By the invention of the spinning ing Architecture to its rightful place jenny and cotten gin vast tracts of land as the highest of all arts, and would do have been opened up to civilization, and enlivened by the busy hum of industry. The power loom and sew-

tain and resily obtained.

All the labor saving machinery of the are helps to secumulate capital for carrying out social, educational, moral and chasitable projects, which otherwise must languish. But machinery gives its greatest impulse to man's advancement by liberating him from the otherwise necessarily intermirred strongle with nature for existence, and allowing time for intellectual and mo al culture and development. Thus is achieved for the civilization of the present day more than can be achieved in any other way.

The last century has revolutionized the world, and the grand achievements that have been made by her marriors sink into mediocrity when compared with this grander ackievoments of the engineers of the present day. The world has often been struck with unazement and awe at the holdness, energy and success of Napoleon and his army crossing the Alin but what shall we say of those engineers and actions who, like the Turks of old, areing no other way,

"Hew one in the rock." and go not over the Alps, but through them -not to cross swords, but to bind the cations together with bonds of iron the mil to give them common interests, and to compel them to keep

the proce. To what rallitary eampaign, secrificing its thousands of lives and desolating homes, shall we compare, either for boldness of design or effect upon hummusty, the digging of the Suez Canal, affecting, as it does, the comfort and happiness of millions? Or the great works completed or being completed in our ewa country, which are destined to consulidate the commercial and industrial interests of the country, open up and people the vast entire beyond the limits of the present frequented paths of civilitation, snd bind together the Atlantic and Pacific States, with their interu ediate links, in a bond of union which internal conspiracies or fereign capidity and avarice shall never be able to bresl; but which the lapse of ages shall weld stronger and stronger while time lasts,

The architect's calling is to build, not only leases, but homes for the people, with such fitness, propriety and leasty that he would be frowned down as eacrilegious villain who would per mile of freight engines, in cents, lay upon there the despeiler's hand; \$25.15; average cost per mile of conto build the temples with such grand- struction engines, in cents \$14.42; avereur, symmetry and purity of style as to age cost per mile of switching engines, in-pire a revenence of the sanctity and in cents, \$18.74. thoughts of Him who ruleth all things; to build the courts of justice unison with sature to elevate and ennoble the race.

The engineer's calling is, by means of his machiners, to supply man's wants while he takes time to think; to lay over all lands a net-work of iron rails, to invite intercourse an ong nations, and by creating common interfrets of councerse; to carry the min- of the sunset land.

and everywhere where ignorance and darkness are, to spread intelligence and

The inventor's calling is to improve the machinery of commerce and production in all their branches: to increase the sources of information, and by his processes and appliances give man deminion over mature.

We see these "practical men," men of science," rising above the socalled statesmen. Statesmen turn beseechingly to men of science, and say, "Tell us how to raise more grain on less soil, else our people starve." The man of science tells him how to raise more grain on less soil-the people need not starve. The engineer and architect tell him how to do the greatest good with the least means. The inventor comes to the rescue with the grand products of human ingenuity.

No longer must the wise man be the "king's fool," or the artist le the 'nobleman's plaything." They now rule. Their common mission is to civilize the world.

Navigable Waters of Illinois.

The steamboat routes in and around the State of Illinois are estimated to be one-fourth as long as the nalroad lines in the State.

There are in and on the boundaries of Illinois the following routes of navigable streams on which steamboats

Mississippi river, Cairo to Dunleith... Ohio river, Cairo to mouth of Wabash. Blinois river, north to Lasali... 1420

Besides, the Wabash is navigable gable streams, and these streams have been on the upper courses, above many moutle.

boats from Bridgeport to LaSalle, 96 miles. The plan for the improvement of the Kankakes and Illinois rivers, if carried out, will add about 100 miles to the sum given above.

These lung lines of navigable waters have had much to do with the prospeets and rapid growth of the State, especially its early development.

ILLINOIS CENTRAL RAILROAD. -From the Locomotive Report for March we see that the company owned 188 locomotives; and that the average cost per mile of running passenger engines, in cents, was \$17.85; average cost

The strong movement for industrial with such firmness, truth and system education is one of the marked feaas to instill in the sainds of men ideas tures of the ninetzenth century, and of justice, law and order; to work in one that will leave its impress on future generations.

> Prejudice is seldom annihilated by a single effort of the will-it has to be lived down.

Of course, all in the East were delighted to welcome the author of Roarests, promote a brotherly feeling; to ing Camp, yet we must think that make the earth yield up her treasures; Bret's strange talents are better adaptto cover the waters with the busy ed to the miner, trapper and ranger

To Our Readers.

It is our intention to make our department more and more practical, and to do what we can to make it practieally siseful. To this end we invite questions upon practical subjects relating to our department. These ques tions will enable us to determine in what you are most interested, and suggest subjects of sterling interest, which may lead to articles which come home to the practical concerns of life.

We wish to be clearly understood. By giving this invitation we do not put forth our claims to a full acquaintance with all the theories and science of engineering and architecture; or yet to all the details of their operation. But would state that in commettion with our limited experience and operations, we have access to one of the best and most carefully selected libraries of engineering and architectural works on this continent, and are otherwise most advantageously circumstanced for giving practical information upon these subjects. We are willing to labor and search for truth, and accept is when we find is. We know that the carrying out of what we have spoken will be mutually beneficial. Friends, give is your encourager antly showing your inter-

Velocity of Light.

Nothing is more wonderful than the ingenuity which has been exercised by scientific men, and the extent and variety of the resources which they have called into action, for the purpose of eliciting from nature secrets which she would seem to have most effectually to have concealed. The method defor 180 miles of its crocked course, and vised by a French philosopher for there is about severy unies of the measuring precisely that he required coast of Lake Michigan on our north- for the passage of a ray of light across east border. There are, or have been, a milited space upon the earth's sursteamhoots on Rock and Fox rivers, face, furnishes a striking example of though they can hardly be called navi- this. Sometime since an observation was raade in California, on the velocity with which the electric force is transdams, which cut them off from their matted along a conducting medium, by causing an electric impulse to pass The Michigan canal bears canal over the wires from San Francisco to Cambridge, Massachusetts, and back, without interruption, and noting pree sely at the place of observation, by means of a chronoscope, the length of the period which intervened between the instant of its departure and that of its return. It was found that the time required for the six thousand miles run was eight-tenths of a second. Now the velocity of light is such that if a kiminous impulse had left the place of observation at the same time with the electric wave, and could have pursued the same track, it would have gone round the circuit five times while its competitor was making one journey. When we contemplate this almost inconceivable rate of motion, the idea of devising any mode of actually measur ing with precision the time required for the passage of light across any such narrow space as can be made to intervene between any two stationed observers on the earth's surface-as, for example, the length of any line across a plain, or the distance from one eminence to another-would seem to be utterly hopeless. Still the means have been contrived for realizing it.

The principle on which the apparatus was constructed is this:

If we suppose that an clastic ballof ivory, for example, or steel-could be projected perpendicularly against a solid wall through a small opening at a known distance from it, and that the action of gravitation upon the ball could be suspended so that it might re-

turn to the same orifice through which it had been projected; angif re could, moreover, find any was to close the opening at the instant that the ball reaches it on its return, to in just to intercept it in its passure, and then inemediately open the vay main for the passage of a second lell-it is evident that if the arrangement of the ap partus for opening and closing the orifice was such as to measure precisely the time that intervened between the changes, we should obtain from it the time required by the ball for its passage to and from the wall, and so could easily determine the velocity of i smotion.

The process would, for obvious reasons, be practically impossible in the se of a material missi retonnding from a wall. We can only imagine it, as an aid to our conceptions, in understanding the anologious operation in the reflection of light. For light can be so reflected as to return in precisely the same path by which it come; and the precise interval nece ary between making an opening, to a low it to pass, and then closing the opening to intercept its return, may be treasured and marked with as much accuracy asein be obtained by any meas rement whatever .- JACOB ABBOTT in Harper's Magazine.

To these who are inclasantly grumbling and deploring the misfortunese. miseries and chaotic s ato of nature and society, we would resonantend the following from the Eday on Man: "All meture is but srt, unknown to thes, All chance, discretion, which for cast not see; All discord, battaony not un; trace od; All partial cvff, universal goe;."

A student of constitutional history being asked of what the Creman Diet is composed, did not fai to stain the buttons, when he replied . " nur-krout, schnapps, lager-beer and nix com-

A picture is something petween a though and a thing.

ILL. IND. LAND ERSITY.

To Each and Every Reader.

DEAR FRIEND: The dit rs of THE STUDENT have started in to verprise involving considerable extensione; and as you may judge by the at wher, the first of what they hope to mat's an interesting and instructive volume, they have given and expect to give considerable time to the work of proparing their paper:

Now they are not beggars; but they ask you to send them or e histor, and in veturn they promise to seed you twelve copies of their journal and thus give you a ranning history of the University they represent; //occarticles in subjects; and their thanks that you the branches ordinarily taught in the appresiate the Universey, the enter-common schools of the State." In addition to these, and the dition to these, and then prise of publishing a paper, and the efforts of the editors to sast in it.

With hope, we regiail.

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2. The law prescribes that "no student shall be admitted to instruction in Are: choice reading to a ser in various sity, who shall not previously undergo Art; choice reading maser on various a satisfactory accumination in each of standing must pass an examination in the studies already pursued by the class, or an equivalent therefor. Those desiring ancient languages must pass in the ordinary preparatory studies in such languages

> 3. Students may enter at any time if prepared to go on with the classes already formed.

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-- The following effusion of unfamed genius was rescued from the flame after unheard of efforts:

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Who always eats his peck of dirt, Sews his own buttons on his shirt, And never condescends to firt? The Student.

Who is in love with pale lamp light, Who, till the "wer sma' hours" of night Works o'er his books with all his might? The Student.

Who never down stairs tumbles pails, Unbinges gates, or bears off rails, Nor ties tim cans to canine tails ! The Student.

Who delves down into learning deep? Who never lets his spirit sleep, Who simil at last righ harvest reap? The Student.

Broken Crystals.

Old maids-Fried sunbeams. Wanted-A broad sxe to hue des inies with.

What caused Billy Jackson to fall in the gutter?-A hot punch.

Novel speculation-Baying up dry wells to cut into post holes.

We once heard of an eccentric editor. who vowed to break his spectacles

rather than want for broken crystals. What is the difference between a dapper and a gud-fly ?--One steers the

Mrk, the Other intrastite state. The following touching epitaph ocours in a Western connetery:

" How lies a victim of his lust, Old Secker Jiva, within the dust; He took his whicky straight, ther say, and whisky took him straight away."

An editor who doesn't know much about farming, suggests that, for garden making, a east-iron back, with Music Books, Sheet Music, Hooke's universal joint in it, would be an improvement upon the spinal coltime now in use.

That editor ought to have a patent. Drawing Papers, Black Books, In naswer to the query, "Who was the author of Mary's lamb," a Mismari shepherd promptly responded "One Rumm, from Northern New Gold Pens, Pocket Books, York.

Why is a tarber the noblest type of homanity? Because he is always mendy to dye for his friends.

-A serio-comody has been found on I. I. U. domain. It h entitled

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29 young ladies reated in Room-Butter a 40th young lady with a dainty pink cavelope in one hand, and the other pressing a note gracefully to her

Mil. - Well, what now?

No. 40.—Oh, something sweet.

No. 40.—(Reads)—"Mr. K— prements his compliments to Miss X— and
carnestly solicits the honor of her company to assend the concert on Friday.

An accountance will evening next. An acceptance will afford hier unqualified pleasure.

No. 18.—Isn't that lovely! No. 17.—What are you going to do about it?

No. 16.—Accept it, of course!
No. 21.—Don't you do it. Mr. Z.—
No. 21.—Don't you do it. Mr. Z.—
looked as if he thought of laving you Job Printing; Office

No. 49.—That's ro! I noticed him this morning I think I'll keep this offer open till to morrow morning, and then, if nothing better comes in, I'll office Complete, and well maked with all the Latest Styles of Finny Type, etc.

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