

THE ARROW

ART
INDUSTRY
SCIENCE

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Vol. I

THURSDAY, MAY 18, 1905.

No 38

THE SPRING

BY A. L. CALDWELL



OUT from a bank in a pasture green,
Into the bright sunlight,
Rippling along the rocks between,
Then bursting into the light,—
Into the open air,
A sparkling, beautiful thing,
Making the pasture fair,
Merrily flows the spring.

And pausing not, its waters flow
Over their bed of sand,
Helping the grass and flowers to grow,
Down in the pasture land.
Brightening the landscape 'round,
Catching the blue of the sky,
With a musical, rippling sound,
It laughs as it passes by.
There's many a path that meets its course,
There's hoof-prints 'round its brink,
For the gentle cow and the noble horse
Alike, have come to drink.
Laughing, it hurries on,
In the path which nature gave,
Till at last, when its work is done,
It reaches the ocean's wave.
May we not also our course pursue,
Doing what good we can,
Leaving this world, when life is through,
The better for what we've done?
In Nature; wherever we turn,
There's a lesson in everything;
May we not also learn
A lesson from the spring?



SPRING AT FARM

CURIOUS AND INTERESTING FACTS ABOUT THE SENSES OF BIRDS AND BEASTS.

It is the destiny of all wild birds and beasts to be forever preying upon each other, and to be preyed upon. Accordingly nature has not neglected to provide them with keenly developed special senses to aid them in avoiding their enemies and perpetuating the existence of their species, as well as to assist them in preying in their own turn.

All down the line from the hugest animals to the most insignificant insect the law of the survival of the fittest spurs on these creatures unconsciously to improve their best natural means of attack and defense. The horse, the deer and other long, clean-limbed, species, which do not prey on other animals, but are preyed upon in a

wild state, have constantly grown swifter of foot throughout the ages, as flight is their only means of defense.

Certain birds and animals are set apart from most others through special adaptation of their senses—or some particular sense—to the needs of the chase and of their own preservation. Most birds have very perfect eyesight. It is the sense upon which they most wholly rely. Their senses of taste and smell seem dormant. The owl, being a night bird, has eyes which gather every possible gleam of light. Each is set in a disc-like nest of shining white feathers, which serves as a reflector, sending and focusing beams almost imperceptible to human eyes direct upon the pupil, and enabling the bird to see quite well on the darkest night.

The eyes of birds, set as they are one on each side of the head, enable them to have everything above, behind, in front and beneath always within their field of observation. The hungry hawk, poised motionless in mid-air, sees every bird and creature beneath, and is only waiting an opportunity to strike. The birds see him, too. The joyous song is hushed in the thicket, while those in the open cower low to the ground to escape detection or flit uneasily about in search of more secure cover, and woe betide the careless or luckless wight that exposes himself through nervousness or lack of caution within range of the meteor-like descent of the feathered hunter.

With reptiles and four-footed creatures it is otherwise. The snake creeping cautiously about, his keen little eyes ever on the lookout for another victim, never seems to see the gray laughing jack-daw seated on the

dead limb of the gum tree above him, or to realize that Nemesis is on his track till compelled "too late" to strike in self-defense.

Snails have eyes at the ends of tubes, which they can project like guns from a turret, enabling them to see in all directions at once, whereas most fishes—being without necks—have to turn their entire body to see more than a small part of their surroundings.—New York American.

THE WATERING OF HORSES.

The question as to the best time for watering horses is often asked, and is answered in a number of different ways according to the individual opinions of the authority consulted. Many feeders believed that horses should be watered before feeding while others are equally certain that feeding should precede watering. C. F. Langworthy in a very useful bulletin, entitled "Principles of horse feeding," summarizes the results of some recent experiments which he believes have reached the truth of the matter.

The rations fed consisted of different mixtures of corn, oats, hay and straw, and a number of experiments were made, in which the only condition that varied was the time of watering. In some tests the horses drank before and in some after eating and in others after the grain portion of the ration was eaten, before the hay.

So far as was observed, the time of drinking had no effect on the digestibility of a ration of grain and hay. When hay only was fed there seemed a slight advantage in watering before feeding. The general conclusion was drawn that horses may be

watered before, during or after meals without interfering with the digestion and absorption of food. All these methods of watering are equally good for the horse, and each of them may be employed according to circumstances. It is obvious that certain circumstances may make it necessary to adopt one or the other method. For instance, after severe loss of water, such as occurs in consequence of long-continued, severe exertion, the animal should always be allowed to drink before he is fed, as otherwise he will not feed well.

It has been found that less water is required when the ration consists largely of concentrated feed than when large amounts of course fodder are consumed, and it is a matter of common observation that less water is consumed when green, succulent feeds form a considerable part of the ration than when it consists of dry feed. That the amount of water taken, even in dry feed, may be considerable is shown by the fact that a ration of twelve pounds of oats and fifteen pounds of hay furnishes some twenty pounds of water. A succulent ration would furnish much more.

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PROVERB.

Genius is nothing but labor and diligence.

THE FOLLOWING CIRCULAR

LETTER FROM THE INDIAN OFFICE HAS BEEN SENT TO AGENTS AND SUPERINTENDENTS.

You are hereby notified that, aside from the meeting of the Department of Indian Education, a summer school will be held at Hampton, Va., and institutes will be held at Standing Rock Agency, N. Dak.; San Jacinto, Cal.; Portland, Oreg.; and Pine Ridge, S. Dak. The office desires to emphasize the great benefits derived by teachers as a result of attendance at summer schools and institutes, where through inter-change of thought and experiences and listening to instructive papers and addresses by leading educators, they are by new ideas stimulated and broadened and helped.

The Department of Indian Education will be held at Asbury Park and Ocean Grove, N. J., July 3 to 7. The sessions will be in the Absary Park Auditorium and will be devoted to addresses, round table discussions, attending the meetings of the National Educational Association, and visiting vacation and summer schools.

Special railroad rates will prevail over all leading lines, consisting of one fare for the round trip to New York City, plus three dollars and thirty-five cents (\$2 N. E. A. membership fee and \$1.35 covering round-trip rate from New York to Asbury Park and validation of ticket by joint agent). Special stop-over privileges on the going and returning trips will be granted. The tickets will be put on sale in the various passenger association's territories and dated to enable the purchaser to arrive at Asbury Park not earlier than July 1 nor later than July 4, and, returning, to leave Asbury Park not later than July 10, with the provision that tickets may be extended for return until August 31, by depositing the same with joint railway agent at Asbury Park or New York City.

The local authorities at Asbury Park and Ocean Grove will spare no efforts to provide abundant facilities for accommodating all persons with comfortable and economical entertainment. Correspondent in regard to this matter should be addressed to Mr. T. Frank Appleby, Chairman of Local Executive Committee, Asbury Park, N. J.

The Pacific Coast Institute will be held at Portland, Oreg., August 21-26, during the Lewis and Clark Exposition. This will enable employees to take advantage of the unusual opportunities afforded to make an intelligent study of educational exhibits in connection with the meetings. Low railroad rates will prevail, and all information

may be obtained from local ticket agents.

You are requested to impress upon the employees the importance of attending these institutes, and to urge as many of them to do so as possible. Your cooperation with the efforts of the office to secure a large attendance will be greatly appreciated.

Very respectfully,

C. F. LARRABEE,

Acting Commissioner.

COLOR PHOTOGRAPHY FOR AN ECLIPSE

On August 30 of the present year there will take place a total eclipse of the sun, which will be visible on land in northwestern Canada, Labrador, Spain, eastern Algeria, Tunis, Tripoli, Egypt, and Arabia. As usual carefully organized scientific parties are preparing to observe and study this interesting phenomenon, and various stations will be occupied by astronomers with elaborate apparatus. One of the novelties to be attempted is to apply color photography to the observation of the eclipse, so that a record can be made of the appearance of the chomosphere and corona. The plan is to employ the three-color process where screens of different colors are used with three different plates, each screen cutting off light of various colors, so that when positives from the three plates are made and used with light of a color corresponding to the screen the resulting picture has the colors of the original. For the eclipse photographs a camera with three lenses and three screens will probably be employed, as it is necessary that the exposures shall be made simultaneously. As the plates are sensitive to the different colors in different degrees, there will be a properly adjusted diaphragm or stop for each lens, so that the same time of exposure will suffice for all. The color phenomena of a total eclipse of the sun are considered most beautiful, and considerable interest attaches to this method of reproducing them.—Harpers Weekly.

USE BOTH HANDS.

That both hands were made to use, one is apt to realize in later years when the hand that has carried the burden of labor through life begins to grow lame and more or less unserviceable. If people would use both hands more they would be surprised in how few months they might attain fair ambidexterity. The best exercise is said to be in writing with both hands. It is surprising how soon the neglected hand will respond if freely used.

It is said that nature never made any right-handed people. If a man learns to write with his left hand all the other manual graces are soon added unto it. Carrying an umbrella in the left hand, fencing, using a spoon, parting the hair and other manual exercises are highly recommended to develop both hands equally.—Boston Globe.

THE WORLD'S DIALECTS

Over 5,000 distinct languages are spoken among men. A calculating prodigy would be wanted to compute with exactness how many separate dialects are in use. Sixty years ago it was reckoned that sixty different vocabularies were to be found in Brazil, but the actual number must be far greater, for in much smaller Mexico the Nahua language is broken up into 700 dialects. There are hundreds in Borneo; in Australia there is no classifying the complexities. And generally the number of dialects is in inverse proportion to the intellectual culture of the population. Assume that only fifty dialects on an average belong to each language, and we have the colossal total of a quarter of a million linguistic varieties. In this babel the battle is incessant.—Exchange.

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What will it cost the man who would like to live like a king in a big New York hotel?

To occupy the royal suite for a day cost one hundred and twenty-five dollars. But this is without anything to eat. Food suitable to be served on a gold service by a retinue of liveried attendants comes high. For instance, one portion of turkey costs five dollars; the cantaloup to begin with is one dollar a portion, and the grapes to end with are one dollar and fifty cents. Green-turtle soup is one dollar and twenty-five cents a portion, and a simple little salad two dollars. What would game cost? It might leave some change from a ten dollar bill, but nothing worth talking about. One small portion of grouse, for example, costs three dollars and fifty cents. Does one care for a cup of tea? He can have it and welcome for sixty cents. Suppose some bucolic longings come to our friend from the country. The butler looks dumb-founded at first when he asks for butter-milk, but money can do anything, and so he gets a glass at the cost of forty cents. And fees—they are always with him, or rather they are always going from him. The merest page would be insulted by a fifty cent piece, though he might be willing to accept five dollars—on account.

It is safe to say that to live like a king in one of these New York hotels will cost the one in search of that experience at least two hundred dollars a day, and cheap at that.—Woman's Home Companion.

THE FOUR PLANTS

An old teacher was once taking a walk through a forest with a scholar by his side. The old man suddenly stopped and pointed to four plants close at hand. The first was just beginning to peep above the ground, the second had rooted itself pretty well into the earth, the third was a small shrub, while the fourth and last was a full sized tree. The tutor said to his young companion:

"Pull up the first."

The boy easily pulled it up with his fingers.

"Now pull up the second."

The youth obeyed, but not so easily.

"And now the third."

The boy had to put forth all his strength and use both arms before he succeeded in uprooting it.

"And now," said the master, "try your hand upon the fourth."

But lo! the trunk of the tall tree, grasped in the arms of the youth, hardly shook its leaves.

"This, my son, is just what happens with our bad habits and passions. When they are young we can cast them out readily, but only divine power can uproot them when they are old.—Exchange.

THE SEVENTEEN-YEAR CICADA.

"Harper's Magazine."

At several points in the United States seventeen-year cicadas appeared in the spring of 1902, while in other parts there were none. This uncovers one of the curious facts in the insect's natural history. Somewhere throughout the continent there appears, almost every year, a brood which is limited to a certain belt of country of greater or less extent. Entomologists, by keeping the track of these broods, have been able to predict their appearance within certain zones. For example, in the western suburbs of Philadelphia immense numbers of cicadas appeared in the summer of 1885. This visit was predicted and announced by the writer several months before it occurred. The only knowledge needed for this was that a brood had appeared in 1868; and the only ability, that of adding seventeen to these figures. In like manner, by adding seventeen again, a 1902 brood was predicted and it arrived "on time." If readers will make note of the cicadas coming in their own neighborhood, they may be sure that seventeen years thereafter another brood will appear.

HAROLD A. LORING

LECTURE—RECITALS

On the music of the

SIOUX INDIANS

Address

Portland, Maine

ELECTRIC RAILROADING WILL SUPPLANT STEAM

The American Railway Appliance Exhibition was held May 4th in the presence of nearly a thousand delegates to the International Railway Congress. Speeches were made by Secretary of War Taft, Secretary of the Navy Morton, President George A. Post, of the exhibit; District commissioner Mac Farland, T. L. Lawrence, deputy chairman of the London Northwestern Railway, and Stuyvesant Fish, president of the American Section of the Congress.

The exhibit occupied the Government reservation, at the foot of the Washington Monument, and consisted of nearly four hundred separate exhibits, housed in nearly a hundred pavilions.

George Westinghouse, who was made chairman, opened the exercises by predicting a new era in railroading by the substitution of electricity for steam, in moving trains.

Speaking on railroad rates.—Secretary Morton said: "Complaints against extortionate rates are the exception, not the rule. Rates in the United States are 40 per cent. lower than anywhere else in the world. Wages paid railroad employes are 50 per cent. more than in any other countries, and, this considered, with the fact that the American railroads pay higher prices for materials than any other railroads in the world, emphasize the triumph in transportation which has been achieved in America.

—Glen Mills Daily.

THE SHORTCOMINGS OF OUR COLLEGES

The close of another college year invites and even commands a casting up of the balance sheets of the collegiate system. As to the value of education—real education—there can be no question among intelligent men; but the settling of that point does not settle or even affect the problem of the college education as it is.

Why are the ideals of the students at so many of our great institutions of learning so low? Why does their conversation, where it does not deal with the usual silliness of personal gossip and of "sports," show such woeful ignorance of the real affairs of the real world—such ludicrous strivings to air the supercilious learning of past ages? Why does the average college man of the great universities show reluctance instead of eagerness to plunge into affairs?

What sort of drillmasters are these whose pupils incline to linger on the parade-ground instead of rushing forth to battle, and, when they do venture forth, show that they have learned the tactics of the time of Miltiades, and know little or nothing of the tactics of the time of Oyama and Kuropatkin?—Saturday Evening Post.

NOTES OF INTEREST.

The soil inoculation experiments of the Department of Agriculture have stirred up more interest in the planting of alfalfa, clover, cow peas and other legumes than has ever before been manifested by farmers. The announcement that the growth of certain of the clover and bean tribe could be stimulated by bacteria has brought in such a raft of applications to Secretary Wilson as to entirely exhaust the department's supply. Here is something which promises much for agriculture in general and increased soil fertility in particular. Dr. Moore, the soil bacteriologist of the department, states that out of 5,000 reports on soil inoculation experiments last year 80 per cent were favorable.

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Miscellaneous Items.

→ Antonio Lubo has gone home for a short visit.

→ A fine sprinkling cart has been made for use on the Athletic field.

→ Olga Reinken likes her country home at Lincoln University very much.

→ The Sophomore had their last class meeting for this season last week.

→ The fence around the school grounds is receiving a new coat of white wash.

→ The Senior Class held their class meeting in the Girls' Society Room last Thursday.

→ James Dickson favored the Standard Society last Friday with an Indian War Song.

→ Our annual dual meet with State College will be held on our field Monday at 2:30 P. M.

→ Daniel Eagle class '04 has come in from Trenton where he has been attending business College.

→ Sarah Smith has returned to her country home at Mt Airy, after a few days' visit at the school.

→ Miss Yarnall gave an interesting review of the news of the past week in the chapel on Monday morning.

→ William B Jackson class '06 has gone home on sick leave. He expects to return to school in the fall.

→ Solomon Webster who has had such a siege of sickness, and who recently went to the country is improving.

→ Carrie Lewis, a member of the Sophomore class through a letter to her teacher, states that she has a fine country home.

→ The boys in the bakery have less work to do since the last party went out. The average baking is 500 loaves of bread a day.

→ The sewing classes have moved back to sewing-room which has been repainted and and revarnished. It is now an exceedingly cheery room.

→ The leaders of last Sunday evening's prayer meetings were: Large Boys' Miss Wood; Small Boys', Miss Goyituey; Girls', Miss Hawk.

→ Through a letter we have learned that Samuel Barker, a former student of Carlisle, is taking a business course in Missouri and is getting along nicely.

→ Hiram Crouk the last survivor of the War of 1812 has just passed away in Ava, N. Y., age 105 years. He was born at Frankfort, New York, April 29, 1800.

→ The rains of the past few days have encouraged the grass so that it keeps Mr. Leaman and his boys busy with large and small lawn mowers to keep the grass cut.

→ Excavating for the new hospital is progressing nicely. Much rock has been encountered and Mr. Foulk has had to come to the rescue several times with dynamite.

→ Celinda King is helping to index some pamphlets and clean up the book room. Celinda is not well but asked Miss Bowersox to give her some work to help pass the time.

→ Through a letter to Mr. Thompson from James Wheelock we learn that James' father died April 28th after an illness of but 24 hours. We extend our sympathy to the bereaved family.

→ Ex-student Hiram Faulkner, who went home a few years ago, writes that he is doing well on his farm, and as a worthy member of the Carlisle family is making good use of what he had learned here.

→ Albert C. Daniels who is working near Mt Holly, made us a short visit Saturday. He says he has a fine country home, and also finds time to work problems in arithmetic after his work hours are over.

→ Miss Veitch received a letter from Miss Jackson who wishes to be remembered to all employes and students who remember her. Miss Jackson was the girls' matron here for about two years and was loved by all the girls.

→ Last Saturday our Junior base ball team which is made up of players from the Small Boys' Quarters played the team from the Scotland Soldiers' Orphan Industail School on our field. The game was exciting through out and was won by Scotland by the score of 8 to 5. Captain Skinner Superintendent of Scotland School, and Mrs. Skinner were present.

→ Tuesday evening the members of the Junior baseball team were entertained by Mrs. Saxon. Finch and Pit were played with great enthusiasm. In fact the boys got so warmed up over the games that Mrs. Saxon considered it advisable to serve ice cream and cake in order to bring about a normal condition of affairs. The Juniors are very thankful to Mrs. Saxon for her kindness.

→ The exact position to be assumed under certain circumstances during the playing of the "Star Spangled Banner" has been under consideration in the general staff of the Army as a result of an inquiry made by Captain G. L. Byroade, U. S. Army, retired, who is the military instructor at the Culver Military Academy. That officer reported that he had instructed the cadets that under the infantry drill regulations "stand at attention" while the "Star Spangled Banner" is being played does not mean to uncover when out of doors but does mean to uncover if indoors without side arms. This interpretation of the regulations has been confirmed by the chief of staff on the recommendation of the first division.

When the flag is being lowered, and when passing the Colors within saluting distance, you should uncover.

Programs Rendered by the Literary Societies Last Week

STANDARDS

Declamation	Solomon Bearlo
Essay	Carl Standingdeer
Impromptu	William Isham
Oration	Alva Johnson

DEBATE
Resolved:—That the Russian People should be granted a republican form of Government.

SPEAKERS:

Affirmative	Negative
James Parsons	Charles Roy
James Dickson	Eh Beardsley
Michael Balenti	George Degrey

The meeting was an unusually good one.

→ For several weeks past the Secretary of the Invincible Society has failed to furnish the program to The Arrow.

→ The Literary Societies held their last regular meetings for the school year, last Friday. For some time past the meetings have been rather small owing to so many having gone to the country during the past two months. Notwithstanding this, the spirit has been kept up to the last.

→ Our game with Washington and Jefferson yesterday was the best seen on our field this year. There was not an uninteresting moment during the game.

Score:

W. AND J.	INDIANS.
Simmons, cf.	Jude, lf.
Eriser, 3b.	Mitchell, ss.
Moore, lf.	Nephew, 1b.
Reeder, c.	Roy, p.
Ramsey, ss.	Twin, 2b.
Furgison, 2b.	Baird, c.
Eckles, 1b.	Youngdeer, cf.
Marks, rf.	Hendricks, 3b.
Springer, p.	Scholder, rf.

Score—Indians 3; W. and J. 2.

Roy struck out 6 men and let only one walk. Springer struck out 4 and let one walk.

We got six hits while W. and J. got only two.

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ATHLETICS.

BASE-BALL AND TRACK SCHEDULE FOR 1905

- April 12—Mercersburg at Carlisle. Won 11 to 3.
- " 14—Albright at Carlisle. Won 11 to 3.
- " 15—Lebanon Valley at Annville. Lost 3 to 1.
- " 19—Harvard at Philadelphia. Lost 23 to 2.
- " 21—Ursinus at Carlisle. Lost 17 to 1.
- " 22—Harrisburg Athletic Club, at Harrisburg. Lost 6 to 0.
- " 24—Class athletic meet. Won by Class '06.
- " 26—Villanova at Carlisle. 11 Inning Lost 5 to 3.
- " 29—Lebanon Valley at Carlisle. Won 16 to 2.
- " 29—Univ. Penna. Relay Races at Philadelphia. Lost.
- May 5—Wyoming Seminary at Carlisle. Won 10 to 5.
- " 6—Ursinus at Collegeville. Won 5 to 4.
- " 6—Dickinson track at Carlisle. Won 69½ to 34½.
- " 10—Dickinson at Indian Field. Lost 11 to 7.
- " 13—Lafayette track at Easton. Won 53 to 43.
- " 17—Washington and Jefferson at Carlisle. Won 3 to 2.
- " 22—State track at Carlisle.
- " 26—Susquehanna at Carlisle.
- " 27—Franklin and Marshall at Lancaster.
- " 30—Gettysburg at Gettysburg—2 games.
- " 31—Mercersburg at Mercersburg.
- June 3—Dickinson at Dickinson Field.
- " 7—Gettysburg at Carlisle.
- " 9—Burham A. C. at Lewistown.
- " 10—
- " 12—Villanova at Villanova.
- " 12—State track at State College.
- " 13—Lehigh at South Bethlehem.
- " 15—
- " 17—Fordham at Fordham.
- " 20—Lafayette at Easton.

CARLISLE WINS FROM LAFAYETTE.

We won a well-contested track meet from Lafayette last Saturday by the score 53 to 43. The meet was held at Easton. All the events were hotly contested. The 2-mile event was omitted as Lafayette has not included the event for several years past. Only first and seconds were counted. Events:—

100-yard Dash—Mt. Pleasant, Carlisle, first; Schaeffer, Lafayette, second; McCandless, Lafayette third. Time, 10 1-5 seconds.

Shot-put—Exendine, Carlisle, first; Thomas, Carlisle, second. Distance, 37 feet 2½ inches.

Quarter Mile—Mt. Pleasant, Carlisle, first; Colliton, Lafayette, second. Time, 52 4-5 seconds.

High Jump—Exendine, Carlisle, first; Thomas, Carlisle, and Guy, Lafayette, tied for second place. Height, 5 feet 6 inches.

120-Yard Hurdle—Reese, Lafayette, first; Libby, Carlisle, second. Time 17 seconds.

One Mile Run—Beardsley, Carlisle, first; Perez, Lafayette, second. Time, 4 minutes 56 1-5 seconds.

Hammer Throw—Doud, Lafayette, first; Simpson, Carlisle, second. Distance, 105 feet 1½ inches.

220-Yard Dash—McCandless, Lafayette, first; Schaeffer, Lafayette, second. Time, 24 1-5 seconds.

Pole Vault—Jude, Carlisle, first; Colliton, Lafayette, second. Height, 10 ft.

880-Yard Run—Colliton, Lafayette, first; Two Heart, Carlisle, second. Time, 2 minutes 8½ seconds.

220-Yard Hurdle—Colliton, Lafayette first; Libby, Carlisle, second. Time 27 sec.

Broad Jump—Mt. Pleasant, Carlisle, first; Lee, Lafayette, and Exendine, Carlisle, second. Distance, 22 feet 10 inches.

Referee, Prof. Peck, Amherst. Starter H. H. Howard.

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CARLISLE'S CRACK BANDS DID NOT ENTER CONTEST BUT GAVE CONCERTS.

(Carlisle Sentinel.)

At the fireman's convention in Waynesboro, Wednesday evening, neither of Carlisle's crack bands entered the contest. The Waynesboro Herald says: There was general regret that the famous Indian band of Carlisle had not entered the contest. When they arrived here in the morning the leader C. M. Stauffer expressed a wish to enter the list, but he was informed by the committee that entries closed Monday night at 12 o'clock, the band was therefore barred. Yielding to general wish it was announced that the Indian band had brought no concert music along with them but they would favor the eager throng with a few marches.

The Indians made the hit of the evening. Their music seemed to catch the popular taste while their playing well sustained their reputation, and every number was received with loud and long continued applause. Their concert closed with "The Star Spangled Banner."

A notable incident of the night was this band (eighth regiment) and the Indian band, each with thirty-five men, marching abreast to the railroad and both playing the same tune and that, too, in perfect accord.

The Indian band gave us thoughts of our Colonial history.

The Waynesboro Zephyr says:

The Indian band, by request, rendered a brief program. So pleased were the hundreds of people gathered on the square with its excellent execution that they refused to allow the band to stop playing and bouquets of flowers were thrown to Director C.M. Stauffer until he consented to lengthen the program.

(Communicated.)

CAPT. O. C. APPLGATE IS SUCCEEDED AT KLAMATH

On Monday, May 1st, Capt. O. C. Applegate, turned over the property of the Klamath Agency to his successor, Mr. Horace C. Wilson.

The employes of the reservation, on the evening of this date, gave a farewell reception to Capt. Applegate, to which were invited the Captain's friends, white and Indian, from far and near.

The big assembly hall was crowded and dancing was the chief entertainment until 11 o'clock when the guests were bidden to partake of a bountiful feast that was spread in the dining halls of the girls' home.

In the midst of the festivities the Captain was presented with a valuable gold watch, chain and charm, tokens of the esteem and affection in which he is held by his employes and friends, white and Indian.

Very few Agents in the service, if any, have been able to call forth the devotion and loyalty that have been given Capt. Applegate by his employes and by the greater portion of his wards. The Captain's departure is regretted by everybody that is interested in the progress and welfare of the Indian, and the good wishes of all such go with him for success in his new field of work. AN EMPLOYEE.

ARCHITECTURAL DRAWING.

("Practical Lessons in Architectural Drawing," by William B. Tuthill, A. M. Architect, William T. Comstock, 23 Warren St. New York.)

To the student who already has some knowledge of geometrical drawing, and who wishes to learn how to make working drawing and write specifications for buildings, to the carpenter, builder, and all desirous of acquiring a practical knowledge of Architectural Drawing, this book is invaluable. It is in its twelfth edition and is illustrated by 33 full-page plates (one in colors) and 33 woodcuts showing methods of construction and representation. Special chapters are devoted to frame cottages, frame houses, brick buildings, stone buildings, specification, colors, and extracts from the buildings laws of the City of New York.

→ Saturday afternoon eighteen officers of the Grand Chapter of Royal Arch Masons of Pennsylvania visited the school. The band gave a complimentary concert in their honor. We enjoyed their visit very much.

We will be pleased to see you!!
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PUSH YOUR TALENTS.

We know a farmer who says it is hard for him to make a living on the farm. He works very hard, and is what we would call a conscientious Christian man. A visit to his farm, however, will give the observer the reason for his hard struggle for success. He is not a careful farmer. He gives no attention to the "trifles" around the place. Too many weeds grow in his fields, hence he has a short crop. His harness never receives a bit of oil. Poison ivy is allowed to overrun his fences. Wooden buckets stand in the sun till they fall to pieces. The feed is taken from the bin in a careless manner. The nuts are not watched on his reapers and mowers, hence his machines soon rattle to pieces. Some might say, "What silly trifles these!" but they are a few of the many little neglects which stand in the way of success for this man. So in the moral life the trifles often hinder us from achieving higher successes.

Watch your little evil habits—they are an expense upon your moral stock. The moral stock in trade is the capital of every Christian. Take care of the little leaks in character. The cider does not have to run out of the spigot or bung-hole to empty the barrel. Let there be a leak no bigger than a pin head, and the barrel empty in a short time. Little leaks will sink the greatest ship. Little wastes will empty the largest purses. Little colds, will wreck the hardest constitution. Little sins will ruin the strongest character. Guard your small points. Take care of your weak hours and the strong one will take care of themselves.


Guard your thoughts, and your acts will need little watching. Watch your acts and the result will be a strong character. Keep your character, and your destiny will be grand.

It may be that you have only a few years to count till you reach the age of thirty-three. It may be that you have to look back but a few days on the calendar or a few hours by the clock. No young man started with brighter hope than the Poet Byron. How pitiful are the words written on his thirty-third birthday: "Through life's dull sun, so dim and dirty, I have dragged to three and thirty. What have these years left to me? Nothing—excepting thirty-three."

Do these lines fit your case? Have you dragged your life through twenty, thirty, forty years? If you have, stop dragging it. It will get heavier every year till at last you will be dragged to an early grave. The man who drags his life, drags his talents. Get your talents before you and give them a push. By pushing your talents into your work, you will do better work. You should gather up all your talents and concentrate them on the special work you may be doing. Good work depends not upon the amount done, but the amount of talent you put in it.—Christian Observer.

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QUEER WOOL.

STRANGE as it may seem, there comes from the iron furnaces of Pittsburg a substance so white and light, so fluffy and flaky that it looks and feels like picked wool. It is called "slag wool," and a correspondent of *The Companion* offers to tell us how it is made and for what it is used. Slag is a waste substance which issues from iron melting furnaces. It is formed by the separation of the earthly matter from the ore, and looks like coarse, dark glass if allowed to cool as it comes from the furnaces.

Formerly it was thrown away as valueless, but since a process of covering it into "wool" has been discovered, it is utilized for many purposes.

This mineral wool is formed by causing a jet of steam to play upon the stream of molten slag as it issues from the furnace. This has the effect of breaking up the melted mass into countless small, bead-like particles, so light that they fly in every direction. Each of these tiny beads carries behind it a delicate thread of finely spun slag, so that one is reminded of a comet with its tail.

To collect these threads, and separate the fibres from the beads or heavier portion of the slag, the stem jet is arranged at the mouth of an open cylinder of sheet iron, in which a strong air current is induced by means of additional jets of steam.

The tube or shaft is furnished with a shield, or striking plate, which detains the heavier particles, while the lighter slag wool is carried by the draft into a large chamber resembling a gigantic meat-safe, its walls being formed of wire netting with about sixteen meshes to the square inch.

Here the steam condenses and escapes, leaving the slag wool, which now has the appearance of snow-flakes, deposited on the floor of the chamber or clinging to its wire wall.

The filament or flakes are then broken up and felted together, when they look and feel like wool. This mineral wool is extremely light, and absolutely fire-proof—properties which make it useful for a large variety of purposes. It is a marvelous non-conductor of heat and sound, which renders it valuable for packing between the floors of rooms and in the space between partitions. It serves as an excellent covering for boilers, heating pipes and such things.

It can be woven into cloth, and as such, makes fire-proof curtains for theatres, and it might not be a bad plan to make clothes out of for children who persist in playing near the fire. It is so porous that it will absorb and retain large quantities of water like a sponge, and it is also an antiseptic, that is, a substance which resists or corrects putrefaction. It is useful, therefore, as a dress for wounds, as well as for other medical purposes.—*Selected.*

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KNOWING HOW TO MILK.

Know how to milk? Of course we do! And yet, if the old cow could speak, she might quite often say, that, in her humble opinion, you could profitably take a few lessons in that gentle art.

It is business for the cow to be milked. She considers it so, and you ought to.

It is not fair to sit down to a cow and pull her and haul her until she steps around in the stall and acts as if she were being shamefully hurt. Sometimes a cow will stop eating and wait until the ordeal is over before she will resume operations in that line.

The cow that does that is not comfortable uncomfortable cows do not do their best for their masters.

Other men have a way of milking that so pleases the cow that she clearly shows that she enjoys the process. These are the men after whom we should pattern.

Watching them, we see that they never yell nor strike, nor otherwise mistreat their cows. They sit down quietly, take hold of the cows teats gently, no matter in how much hurry they may be, and begin to draw the milk, without pressing too hard, for they know that they are touching her at her tender point; then they keep steadily at it until the last drop is out.

It pays to milk carefully. The cows will give more and the milk will be richer for it. Then go about it as if you had something at stake, and not as if it was a job that you hated, that would bring nothing back, and that must be done at a now-or-never rate of speed.

Enrollment of some of the big American colleges and universities this year:

Harvard	5,392
Columbia	4,833
Chicago	4,035
Michigan	4,000
Minnesota	3,886
Cornell	3,833
California	3,738
Illinois	3,369
Pennsylvania	3,027
Yale	3,008
Wisconsin	2,931
Northwestern	2,856
Nebraska	2,513
Syracuse	2,452

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PLANT GROWTH AND ELECTRICITY.

Flowers that bloom today exceed all creations of nature. Violets are doubled and tripled in size. A race of pansies has been raised up to measure two inches across their faces. Red roses have been turned into purple and black, and white ones into all colors of the rainbow.

Rosebushes have been converted into trees and vines, bearing flowers in clusters, like grapes. Chrysanthemums have been made to bloom like sunflowers, and lilies and tulips have been raised in darkness and light, so their original characteristics were almost obliterated.

In a modern plant experimental laboratory the electric light arc creates transformations that astonish the most hardened investigator. Night and day the bright light stimulates plant growth, while all sunshine is cut off. The delicate violet grows rapidly, maturing its flowers in a few weeks.

The electric arc has produced roses eight inches in diameter and violets more than an inch across. Tulips become giants, and chrysanthemums resemble cabbages in size. Experiments with electricity show further that the light modified by different colored globes produces varied results.

Red globes intensify the growth and increase the brilliancy of colors, but they also weaken the vitality of the plants. The flowers quickly fade away and decay, and the plants succumb to ordinary diseases.

White globes, which dissipate the rays and spread them more uniformly, make the plants grow steadily and satisfactorily. But the yellow globes so far have given the best satisfaction, while blue ones apparently neutralize the whole effect of the electric light.—*Lone Star*

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