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GENERAL SCHOOL NEWS.

Vernon Davis left for his home at White Earth, Minnesota, last Thursday.

Anna Gilstrap, who is at her home in Chicago, writes that she is doing well.

James H. Wind, one of our exstudents, is doing well at Crow Creek, South Dakota.

Frank Bourassa, from his home in N. Dak., sends best regards to his friends at Carlisle.

"Autumn is the evening of the year, when every forest is a sunset and every tree a burning bush."

The Freshman Class have just finished "Tom Brown's School Days." They will now study the lesson on "Duty."

Nona Finch, who lately returned to her home in Wyoming, writes that she is very happy to be with her folks again.

After a pleasant visit with his children, Mr. Ducharme returned last week with his daughter Anna to his home in Montana.

Mrs. Chas. Siow, formerally Lena Kie who is now living in Laguna, N. Mex., sends greetings to her friends at Carlisle.

Marie Cox, an Osage who was formerly a student at Carlisle, has recently changed her name and is now Mrs. Bacon Rind.

Charles Clute, who left for his home last spring, writes that he is now working at his trade of engineering in Akron, New York.

Mitchell LaFleur, a member of the Freshman Class, who went home last June, will return to the school the latter part of this month.

The business students are glad to have with them again Jennie Gordon who has recently returned from a pleasant vacation at Red Cliff, Wis. The Sophomores gladly welcome back Rose Whipper, who has at last returned from a lengthy visit to her home at Crow Creek, South Dakota.

A very interesting letter has been received from Mamie Hoxie, who went to her home in California last June, stating that she is well and happy.

Marie Beauvais writes from Cantonment, Oklahoma, that she is perfectly delighted with her work and surroundings, but she often longs for "Old Carlisle."

We learn that Mrs. Edith Ranco Mitchell, whose home is in Maine, has a comfortable home, a good husband, and, last but not by any means least, a dear little baby boy.

Chas. Bristol, one of our telegraphy boys of last year's class and who left here last spring, is now employed as an operator on the Burlington Roule at Homer, Nebraska.

Mitchell Johnnyjohn, who went home last year, writes that he has passed the examinations required to enter the United States Navy and is now waiting for an appointment.

In a letter to a friend we learn that Moses Friday, who was graduated last March, and who went home in June, is getting along well. He hopes to be able to return to Carlisle in the latter part of this month.

Edward Wolfe and Michael Chibitnoy, both ex-students of Carlisle, were seen last Saturday at Annville, Pa. They reported that they were doing well in their chosen profession, that of chocolate manufacturing at Hershey, Pennsylvania.

Mrs. Howard Quay, better known to us as Daphne Wagonner, writes very happily of her life at Phoenix-ville, Pa., where she and her husband have been living since their marriage last spring. Mr. and Mrs. Quay expect to go west in the spring, and on their way they will visit Carlisle.

Stanley Johnson, an ex-student of Carlisle, who is living at Niagara Falls, N. Y., in a letter to Mr. E. K. Miller, says: "I feel it is my duty to show my appreciation of what the school has done for me. The experience I had in the line of printing during the period of my term there has lead me to become a successful printer. I am running a printing shop for a large company here in which they do their own printing. Furthermore, I expect to open a printing shop of my own in this city in the near future."

In a very interesting letter to Mr. Whitwell, Peter Gaddy writes: "The cotton crop is very poor this year but our shop makes a living for us. I certainly feel grateful to Mr. Shambaugh for taking such pains to teach me blacksmithing. Am now working with my father, who is a fine blacksmith, and I hope by next May to be able to relieve him entirely of all the heavy work, for he is getting quite old and should retire from work. I am sure you will be pleased to hear that I have joined a church, the Missionary Baptist; I have also been elected president of the "Young Peoples' Union." He closes with "Best regards to all my friends."

We are fortunate in having with us Miss Burden, a representative of the Indian Office at Washington. Miss Burden has served in various capacities in the Indian work for many years and is therefor conversant with the different phases of the Service, competent to judge of the progress that is being made. She spoke in chapel on the conditions of the returned students in Oklahoma and at other places where she has visited. "Their houses," she said, "I found to be neat and tidy and as a rule, the returned students were living up to the standards which they had acquired while at their respective schools. These are the returns for the money expended on your education for which the Indian Office is looking.'

The Carlisle Arrow

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Address all communications to the paper and they will receive prompt attention.

GENERAL SCHOOL NEWS.

The boys in the blacksmith shop are making pegs, which are to be used in husking corn.

John Sanders, who has been a student at Carlisle since 1906, left last Friday for his home in Louisiana.

Mr. and Mrs. Friedman attended the Mohonk Conference, at Lake Mohonk, New York, last week. They report a pleasant time.

Mr. Nori remembered his friends while in attendance at the Mohonk Conference by sending them interesting postals from that place.

Margaret Culbertson, a member of the Freshman Class, told us about "The Law of Compensation," at the afternoon exercises in the auditorium Monday.

Caleb Carter, who has been working in Horton, Kansas, for several months, returned last Saturday evening to resume his studies with the Senior Class.

The band left Thursday for Pottsville, Pa., to give a coucert on the entertainment list before the Schuvlkill County Teachers Institute, which is in session there this week.

Bessie Wade writes from Topeka. Kansas, that she is doing clerical work in a large store aside from her regular school work, and that she thoroughly enjoys the experience.

The speaker at the opening exercises last Monday morning was Rebecca Thomas of the Freshman Class; her essay on "Progress" was exemplified by the manner in which it was given.

Miss Hazard is having trouble with her eyes. She could not work last week. Myrtle Peters and Sarah Gordon, from the business department, are temporarily taking her place in the business office of the printing department.

While the football boys were in Pittsburgh they met George Washakie and his family who are members of the Shoshone tribe in Wyoming. George is the son of old Chief Washakie. They were about the only Indian spectators at the game.

Dr. Charles Buchanan, superintendent of Tulalip, Washington, school and reservation is here this week looking over the school plant and Carlisle methods. He is on his way home from the Lake Mohonk Conference. We were glad to have him visit us.

Sunday evening in the Susans' Society hall, the Y.W.C. A., led by Marjorie Jackson, held a missionary meeting. Several girls took part. Miss Cowdry suggested that a Christmas box be sent to one of the mission schools on the Navajo reservation. Many of the girls and a number of the teachers volunteered to buy and to dress dolls and also to lend assistance whenever necessary.

Last Saturday afternoon Jeanette Pappin gave a party in her room in honor of Miss Mary Jenkins, one of the Bible Class teachers; the invited guests were Miss Margaret Day of Dickinson, Dollie Stone, Anna Hauser, Emma Newashe, Sadie Ingalls, Clemence La Traille, Cecelia Matlock, Cora Bresette and Jennie Gordon. After a few games refreshments were served. All reported a delightful time.

At their meeting last Friday evening, the Susan Literary Society rendered the following program: Song, Susans; recitation, Bessie Waggoner; pen picture, Jeanette Pappin; pianola solo, Pearl Bonser; select reading, Delia LaFernier; vocal solo, Esther Dunbar; impromptu, Cora Bresette. The question debated was: Resolved, "That summer is more enjoyable than winter." The affirmative speakers were Iva Miller and Cora Bresette; those upholding the negative were Inez Brown and Margaret Burgess. The judges decided in favor of the affirmatives. Mrs. Dietz, the official visitor, gave helpful suggestions.

Last week's Invincible program was full of interest and good spirit and was as follows: Declamation, Henry Broker; essay, William Bishop; extemporaneous speeches. William Palin and Jesse Wakeman:

select reading, Tony Lajennesse; clarinet duet, Sylvester Long and Jonas Homer. Debate: Resolved. "That the Indian should become a citizen of the United States." Affirmative, Josiah Saracino and Stafford Elgin; negative, Philip Cornelius and William Bishop. The judges, Mitchell Lafleur, Abraham Colonhaski and Jonas Homer decided in favor of the negative side. Among the several visitors were Misses Emery, Reichel and Burns. The official visitors were Mrs. Foster and Miss McDowell.

The Mercers Keep Growing.

At the Mercer Society meeting last week, Anna Bebeau, Agnes Bryden, Louisa Spott, Corrine Starr. Elizabeth Gibson, Flora Masta and Mary Belgarde were confirmed as members, after which the following program was rendered: Song, Mercers; pianola solo, Agnes Waite; recitation, Ida Bartlett; impromptu. Phenia Anderson; piano solo, Elizabeth George. Debate: Resolved. "That Canada should be annexed to the United States." The affirmative speakers were Anna Hauser and Hattie Poodry; the negatives, Lida Wheelock and Anna Rose. The judges decided in favor of the latter. Nora McFarland and Jane Butler. the girls who represented Carlisle at the Indian Conference at Columbus. Ohio, gave interesting talks on their

New Members For Standards.

Several new members were initiated and eleven names presented for membership at the Standard Society's meeting last Friday. The newly elected officers were then installed, after which the following program was rendered: Recitation, Paul Baldeagle; impromptu, Benedict Cloud; declamation, Simon Needham. Debate: Resolved, "That the failure of Canada to pass the Reciprocity Bill is a benefit to the American farmer." The speakers for the affirmative side were Delancy Davis and Harrison Smith. John Goslin and Albert Lorentz upheld the negative side. The judges decided in favor of the affirmatives. An interesting talk was given by John Goslin, who represented Carlisle at the Indian Conference in Columbus, Ohio. The president gave a short address.

ABOUT CARLISLE ATHLETICS.

Carlisle played good football against the University of Pittsburg last Saturday and won the game 17-0. This was the first time the Pittsburg team had been scored upon in fifteen games. The Indians' opponents were heavy, experienced players who played a rough and hard game, but the Carlisle boys' team-work and tackling were too much for the Collegians. The Indians showed great improvement in their playing over former games. There was very little fumbling and they followed the ball much better than usual. the Indians had not been following the ball Pittsburg would have made long runs and perhaps scored touchdowns, as they nearly got away several times. Every man on the Indian team played good ball. It is the work of eleven men which is making the Indians a great team this year. The punting of Thorpe was a feature of the game. Most of Carlisles' gains were made by Thorpe, Powell and Newashe.

The Pittsburg papers and the spectators at the game gave the Indians great praise for playing a thoroughly clean and gentlemanly game, and it is to be hoped that the team will keep up that reputation throughout the season.

Lafayette will be met on the gridiron at Easton by Carlisle for the first time on Saturday, and it is to be hoped that this will mark the beginning of friendly football relations between the two institutions, such as we have had in other branches of sport. Last year Lafayette was ranked above Carlisle in football and their team this year seems to be better than ever. Both teams will go into the game undefeated, and whichever team wins will have to show great class.

The Reserves won a victory from Conway Hall on the Dickinson gridiron last Saturday by the narrow margin of 2-0. It was a hard fought game from start to finish, but was marred by the players on each side losing their tempers. The Reserves must learn to control themselves and never "hit back."

The Cross Country Race will be held next Monday at 4 p. m. Those

making the best showing will be taken to the training table and begin active training for the dual cross country race with Pennsylvania at Philadelphia the morning of the Penn-Indian game.

Middletown Athletic Club plays our Reserves here tomorrow at 3 p. m.

First Faculty Meeting.

At our first faculty meeting held this year Superintendent Friedman presided and spoke about a number of important matters he wished to call to the attention of other members of our faculty. He is anxious that every Carlisle employee do his, or her, best to the end that this be more productive of good results than any year in the history of the institution. Before the meeting adjourned, Supervisor Gill talked about the School City being organized here and how very much pleased he was that, owing to the encouraging assistance he received from the faculty, the movement gave evidence of being successfully inaugurated.

The speakers at the Y. M. C. A. meeting last Sunday evening were Abraham Conlonhaski, John Goslin and Clement Hill, the boys who attended the Indian Congress at Columbus, Ohio. Each one brought back a message concerning the "Indian problem", and they made it very clear that the Indians are fully awake to the present situation in their affairs. Mr. Friedman was present and he gave a most interesting talk on the Mohonk Conference. Mr. Nagay closed the meeting with a short but helpful address.

At the Catholic meeting last Sunday evening a program was rendered as follows: Reading, Mary Belbeck; clarinet duet, Eloy Sousa and Eloysas Sheoma; piano solo, Mary Pleets; select reading, Paul Baldeagle; vocal duet, Margaret and Marie Chilson; piccolo solo, James Sampson. Father Stock gave a short talk about the "World Series."

THE band, in conbination with the Eighth Regiment Band, of Carlisle, gave a splendid concert Tuesday evening in our school auditorium.

GENERAL SCHOOL NEWS.

The masons are engaged in repairing the plumbing shop.

The carpenters are busy putting new flooring in Large Boys' Quarters.

A number of boys took a walk to the mountains Saturday to gather nuts.

Last Sunday Rev. Green preached a beautiful sermon on "The Vine and Its Branches."

The masons and painters are busily engaged in repainting the rooms in Girls' Quarters.

The girls in the shirt-making department are busy making aprons for the new girls.

The trees on our campus and elsewhere about, have put on their red and yellow dresses.

The "Painters" are practicing football; they expect to be ready to play within a week.

Mr. Whitwell chaperoned a number of the Episcopalian girls to church last Sunday morning.

Dr. and Mrs Hess, who have been here for some months, left last Monday morning for New York.

The girls were sorry to see Marie Chilson leave Carlisle, but her mother needed her and she obeyed the call of duty.

The boys went to town Saturday to witness the football game between Conway Hall and the Indian Reserves.

The small boys have organized a Junior Varsity football team and have elected Jacob Twin for their captain.

George Shepherd, who is now attending High School at his home in California, sends best wishes to the Freshman Class.

We are glad to have with us again, Mr. and Mrs. Friedman, who have been away in attendance at the Mohonk Conference.

Mrs. Francis Coleman, nee Ruth Elm, who is now living in the town of Carlisle, spent Saturday evening with her friends at the school.

The small boys have received many beautiful post-cards from Mr. and Mrs. Denny, who are on an extended trip throughout the West.

SILKWORM CULTURE.

WILLIAM ROBINSON, Chippewa.

We have been studying about the silkworm and this is what I have learned in No. $4\frac{1}{2}$:

Silk was first known in China and Japan. It was kept a secret until some travelers hid some of the eggs in a hollow bamboo cane. This proved to be the beginning of silk culture.

The silkworm is gray in color, is shaped like a cylinder, and has twelve rings around its body. It has two silk-glands running the length of the body which unite near the mouth. It hatches usually in the spring. When the silkworms are first hatched they are so small that one can hardly see them.

The silkworm changes its dress four times, there being from four to seven days between the ages of molting. After the last molt it is a little more than four weeks old. Then it begins to spin silk for the cocoon. It spins from the outside toward the center. When it has shut itself in it is called a Chrysalis.

After remaining in this silken ball a few weeks it turns into a moth, and if let alone it would soon cut its way out. Some are kept for eggs while for silk they are killed by some process of heating.

The moth begins to lay eggs almost as soon as it is out of its silken house, laying from four hundred to seven hundred in three or four days, and dies from six to twelve days later. The eggs are so small that they can hardly be seen, one hundred weighing a grain. About forty thousand worms are hatched from an ounce of eggs.

It takes about sixty-five days to complete the three periods, about fifteen or twenty days in the larval state, twenty to twenty-five as a worm, and eight to twenty as a moth. Worms from an ounce of eggs will eat nearly a ton of leaves in a month. They eat the leaves of the mulberry tree. They do nothing but eat all day long.

The silk is prepared by dipping in warm water to soften, then it is wound off. One cocoon produces from twelve hundred to sixteen hundred yards of silk.

Silkworms can be raised in this country in California. We have about two hundred silk mills in this

country. Nearly all the silk is imported from China and Japan, there being about ten million dollars worth imported annually.

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Graduates Helping Cherokees.

Superintendent Friedman, of the Carlisle Indian School, recently returned from a visit to the Cherokee reservation in North Carolina, makes an encouraging report on the rapidly changing conditions there. He says the Indians are severing themselves from Government guardianship, and he thinks this is due in a large measure to the Carlisle students who have returned home and shown their families a better way of living. Education and the development of self-reliance in industrial affairs are, of course, the chief purposes of the Indian schools. The thing aimed at is to eliminate "Indianism" and supplant it with advanced civilization. It is good to hear that the graduates of Carlisle are exercising such a marked influence among the Cherokee Indians. -Standard-Union, Brooklyn, N. Y.

The Carlisle Outing System.

Indian students from the Carlisle Indian School are in great demand in the East as mechanics and famers. There are at present 266 boys and 213 girls away from the school at work, scattered throughout Pennsylvania, New Jersey, Delaware, New York and Maryland. Most of the requests for students come from people who have had the students in previous years or from those who have heard of the entire satisfaction they have given elsewhere. Recently a prominent artist of New York City, in writing for a boy for his summer home and farm, said: "Several years ago Dr. George Bird Grinnell, Dr. Charles Eastman and I visited many of the homes where Indian help was employed, for Harper's Magazine, and of over fifty places we visited, we found only one place where there was any dissatisfaction." The recent development, during Superintendent Friedman's administration at Carlisle, of the Outing System, whereby the young men are found employment at the mechanical trade which they have been following while at the school, necessarily entails careful organization, but noteworthy success has been achieved in its practical

working out at Carlisle. The girls work in households where the home conditions are found to be of the best and where they receive careful training in good housekeeping and civilization. They really become part of the family, acquire civilized habits and customs, and experience such an industrial and mental wakening as no school could possibly teach them. Besides they earn wages, half of which is saved. Last year the Indian boys and girls at the Carlisle School earned \$27,000. At present they have to their credit in the school bank, drawing interest, \$40,000. The Carlisle Outing System is managed by a Sioux Indian, Mrs. Nellie R. Denny, who is a graduate of the school. Many an Indian comes to Carlisle uneducated and without a penny, and after a period of three or five years at the school returns to his home with a practical education and a bank account of four or five hundred dollars with which to make his start in life. -Army and Navy Journal, New York.

4 11111 Standing Bear's Example to Others.

Mr. Luther Standing Bear, one of Carlisle's oldest students and the first Indian student to set foot on Carlisle soil, related in a very amusing manner while here last week. his experiences and those of his school-mates on their arrival at Carlisle, thirty-two years ago. He mentioned the fright which their appearance caused the natives and how they, the Indians, enjoyed it. Mr. Standing Bear is on his way to Washington to ask of the Commissioner of Indian affairs the right of citizenship. He expressed regret that the Indian is still in the hands of the Government, but he said that the time is not far distant when he must take his place among his fellow white men and compete with them in all lines of work. He is one of the most influential Indians of the day, and is a shining example of what education will do for the Indian who is willing to take the opportunity and "make good."

School Museum Continues to Grow.

Sadie Ingalls, through her teacher, has presented to the school museum a full-grown cotton plant loaded with fine cotton which she brought from her home on the Sac and Fox reservation, Oklahoma.