

discussion followed in which Mr. Maxwell, Inspector for South Essex, and several teachers took part. Mr. Donaghy then gave an address on letter-writing. The discussion which followed related chiefly to the best methods of teaching this subject. After recess Mr. A. A. Clappe and a choir of teachers kindly consented to give several selections of music. Mr. W. S. Howell next explained how he would teach addition and subtraction to classes beginning the study of those subjects. The discussion on this subject concluded the forenoon session. *Afternoon Session.*—The meeting was called to order at 2 p.m. Mr. D. D. Moshier exhibited his method of map drawing, taking the map of South America as an example. Various opinions regarding map drawing were advanced by different teachers, and at the conclusion of the discussion it was announced that Prof. Houston would give a selection of readings and recitations. The Professor then in a very able manner recited three different pieces, much to the satisfaction of those present. The programme was then resumed by Mr. J. R. Brown, who discussed English grammar, dealing with the verb. The methods of distinguishing the different inflections, &c., were explained by means of examples written on the blackboard. A lively discussion followed the introduction of the subject, after which the matter of an evening session was considered, when it was decided to have an entertainment in the Town Hall at 8 o'clock. The entertainment in the evening consisted of readings and recitations by Professor Houston, music by the choir, and solos by Misses Morrison and Dickey, and Mr. T. Smith. It was a complete success, everyone appearing to be thoroughly satisfied with the proceedings. At the close a vote of thanks was tendered those who assisted at the entertainment. *Friday.*—Meeting called to order at 9 a.m. It was decided to proceed with the discussion of the new text-books. After a lengthy discussion of the merits of the two series of Readers authorized for use in our Public Schools, it was moved by Mr. D. Sinclair, seconded by Mr. Graham, That this association recommend to the Inspectors and School Boards throughout the county the adoption of the readers published by Gage & Co., as the best adapted to meet the wants of our public schools. Carried. Wm. Sinclair, B.A., then gave an address indicating the method he would pursue in teaching history. After a short discussion on this subject the association adjourned till 1.30 p.m. *Afternoon Session.*—Meeting called to order at 1.30 p.m. Prof. Houston then gave an address on "Reading to Junior Pupils." His remarks on this subject were of a thoroughly practical and interesting character, and appeared to fully enlist the approval and sympathy of the teachers present. Dr. McLean then delivered a carefully prepared lecture on "Health in the School-room." The lecture clearly set forth the necessity of proper attention being paid to cleanliness, thorough ventilation of rooms, etc., and at the close the lecturer was tendered a hearty vote of thanks for the valuable instruction which he had given. Prof. Houston next being called upon recited "Lady Clare" and two other pieces, which were listened to with rapt attention by the teachers and others who were present. The last subject on the programme, viz., "Tardiness," was discussed by Mr. Thos. White. The various plans he would adopt to remedy this defect were pointed out, and at the close of his address a general discussion followed, in which several teachers took part. By the kindness of Messrs. McDonald and Donaghy we had the pleasure of meeting Prof. Houston, whose readings were so highly appreciated by the Teachers' Association. Mr. Houston is a Professor of Elocution from New York, who very kindly consented to come to Sarnia instead of Prof. DeGraff. The Professor's readings were both pathetic and humorous, and were rendered in such a style as those only who have given elocution a great deal of study can. His rendering of Phil Blood's Leap, a Passage in the Life of Mr. Gabriel Parsons, Giving Away a Child, The Pin, and Our Boy—a bachelor's opinion with it, were his masterpieces, and were very warmly received. The Child's Prayer, The Ride of Collins Graves, and Love in a Balloon, were also well received. Moved by Mr. Thos. White, seconded by Mr. McDonald, that the teachers of the County of Lambton tender their hearty thanks to the people of Sarnia for the kind manner in which they have been entertained while here. Carried. Moved by Mr. Barnes, seconded by Mr. Brown, that the thanks of this association be tendered to the trustees of the Methodist Church, Sarnia, for the use of the school-room in which to hold our meetings. Carried. The arrangements for time and place of next meetings were left with the Executive Committees of the respective associations. The meeting then adjourned at 4.30 p.m.

NORTH WELLINGTON.—The annual meeting of the North Wellington Teachers' Association was held in Drayton on the 4th and 5th of Oct., 1883. After the reading of the minutes, a reception committee was appointed to introduce the members to each other. The President, Mr. Westervelt, gave an opening address which the association desired should be published. An essay on "Temperance in School" was read by Mr. Geo. W. Wait in which he advocated the power of the teacher's own example. The president said the moderate drinker did the most harm. It was moved and carried that if the funds of the association would admit, a copy of Dr. Richardson's Manual on Temperance should be placed in the hands of every member. Drill with class, by Mr. W.

McEachern, gave rise to some discussion, as it was connected with school discipline. The treasurer reported finances good. A misunderstanding about sending books to members was removed by a motion passed. It was moved and carried that 2,000 copies of Mr. L. B. Davidson's essay entitled "Common People vs. Common Schools" should be printed for distribution. Mr. R. W. Bright, of Drayton, is president and Mr. Wm. McEachern of Harriston secretary for the ensuing year. It was moved and carried that the secretary shall receive \$15 for next year's service. Mr. John E. Bryant's essay was read by James McMurchie, B.A., H. M. Harriston High School. After some discussion the following motion was moved:—"Moved by Mr. McMurchie, seconded by Mr. Shields, B.A., and resolved, that although this association does not consider the present system of a responsible Minister of Education free from objection, yet believe it to be preferable to that of a Chief Superintendent and Council of Public Instruction as proposed." Carried. Readings, music, and songs were on the programme. The association adjourned to meet next year in Harriston. On the evening of the 4th an entertainment was given; the proceeds were for the benefit of the association; the fund in future will be used to pay the secretary. The lecturer of the evening was Prof. J. Mills, B.A., of the Model Farm, Guelph. He thought that more attention should be given to the study of English in our Public Schools, and that the teaching of agriculture should be compulsory.

REVIEWS.

ELEMENTS OF THE DIFFERENTIAL CALCULUS, WITH EXAMPLES AND APPLICATIONS. By W. E. Byerly, Ph.D. Boston: Ginn, Heath & Co.

ELEMENTS OF THE INTEGRAL CALCULUS, WITH A KEY TO THE SOLUTION OF DIFFERENTIAL EQUATIONS. By W. E. Byerly, Ph.D. Boston: Ginn, Heath & Co.

Until very recently all the mathematical text-books published in the United States had the appearance of having been written by school-boys, or at best by rural "Philomaths;" so few indeed were the exceptions that they might almost have been reckoned on the fingers of one hand. But there are signs of a change, of an awakening to a fuller and better knowledge of mathematics and of mathematical instruction. One of these signs is the appearance of the works named above. Mr. Byerly announces that his books are "intended for text-books, not for exhaustive treatises," and as text-books they must be judged. As works on the calculus considered as a branch of pure analysis they are not so full nor, so far as they cover the same ground, so complete as those of Williamson or of Todhunter, much less those of Schloemilch or of Houel, but we know of no books better suited to the wants of those students who seek in the calculus an instrument for investigation in applied science, a guide and director in physical research. Indeed, the needs of such students would seem to have been specially kept in view in the arrangement of the first volume and in the selection of the examples and exercises in it, as also in the addition to the second volume of a chapter which contains what is called a "Key to the Solution of Differential Equations." As an author Mr. Byerly, who may be classed as belonging to the Duhamel School, exhibits all the accuracy of development, the precision of statement, and the clearness of exposition of the best French writers. It is only due to the publishers to add that the paper, composition, and printing are all excellent.

Scene—A western high school; subject history—trial of the bishops. See Collier's British History, p. 242. Student recites (giving exact words of text-book), "That night was a blaze of illumination. Rows of seven candles, with a 'taller' one in the centre for the Archbishop, lit up every window, &c." Student interrupted by vociferous applause, but cannot comprehend the reason.

VARIETIES IN ENGLISH SPEAKING.

There was an old fellow in Guinea,
He had a big daughter named Muinea;
She fed curd to the cows
And hay to the sows,
Oh! how could she be such a muinea?

An old yellow dog in Cologne,
Ran away with an old woman's bogne,
But the watchin old crogne,
Hit him twice with a stogue,
And 'twas dreadful to hear the dog grogne.
—Burlington Hawkeys.