

in keeping a student from becoming over confident in his logical proofs.

6. Prof. R. R. Price of the University of Kansas, speaking on "How may Mathematics be made a Part of the University Extension Course?" said the University expects to offer three grades of correspondence work in Mathematics: 1. High School Preparatory or Algebra and Geometry. 2. University and College grade consisting of College Algebra, Trigonometry, Analytics, and Differential and Integral Calculus. 3. Business course for Artisans, a year's course without University credit but of value to Artisans.

On November fifth Miss Edith Long of Lincoln, Nebraska, lectured on "The Unifying of Secondary Mathematics." Miss Long said in part that the objections to the new course were that teachers felt the need of a change but were unwilling to take the step, that Superintendents and Principals are often against a change, that there are no text-books for it, and that the necessity for Uniformity in large High Schools makes it much harder to try something new. Miss Long then proceeded to show how these objections have been removed in her own school. The pupils make their own text-books from day to day from the typewritten lessons. She outlined the course as consisting not simply of mixed mathematics but of problems which show an Algebraic and a Geometric side, while the check gives the Arithmetic side. The suggested beginning with shapes of things, leading to Geometric and Algebraic forms of the fourth fundamental operations and later to the Equation taken from complemental, supplemental, and vertical angles, and used in Geometric demonstration of them. Triangles and Quadrilaterals are treated in the same way.

Miss Long pointed out that her system does get results, and results which satisfy the University men.

Mr. Wagner of the Emporia High School spoke on what that school is doing in Unified Mathematics. He said they realized the course is not yet perfect but were well satisfied with their results. Their school is basing the first year on the equation.

Professor C. H. Ashton of the University of Kansas spoke on the Engineer's High School preparation, making a plea for putting the Algebra later in the course.

At the business meeting later the report of the nominating committee, naming Mr. A. M. Bogle of Kansas City High School for President and Miss Emma Hyde of Emporia High School for Secretary and Treasurer was adopted.

EMMA HYDE.

MORE LOCI PROBLEMS.

On page 884 of the December SCHOOL SCIENCE AND MATHEMATICS is found a list of easily accessible sources of loci problems. In reading this I was struck by a rather notable omission, namely, Halsted's Rational Geometry. In this is given a "collection of simple loci" numbering 20, followed by 45 loci problems, making a "content" not unworthy the attention of the earnest investigator.

Boston, Mass.

LUCY B. UPHAM.