

motion of Engineering Education, a summer session for teachers of chemical engineering was held at the University of Michigan from June 24 to July 9. Seventy men, representing 47 colleges located in 25 states, from Washington and California on the west to Massachusetts and North Carolina on the east, and from Louisiana on the south to Minnesota and Montana on the north, were registered for the meeting. In addition to visitors, many of whom stopped over for a day or more, a large staff of distinguished lecturers was in attendance.

Three main series of lectures were delivered, covering the unit operations of chemical engineering, recent advances in chemical technology, and methods of conducting laboratory courses in the unit operations. The speakers included:

H. A. Curtis, Vacuum Oil Co.; W. K. Lewis, Massachusetts Institute of Technology; R. E. Wilson, Standard Oil Co. of Indiana; W. L. Badger, University of Michigan; R. S. Tour, University of Cincinnati; Zay Jeffries, The Aluminum Co. of America; H. L. Olin, University of Iowa; J. C. Olsen, Brooklyn Polytechnic Institute; Clifford Paige, Brooklyn Union Gas Co.; A. V. H. Mory, Bakelite Co.; O. R. Sweeney, Iowa State College; W. L. Beuschlein, University of Washington; C. C. Furnas, Yale University; L. V. Burton, *Food Industries*; S. D. Kirkpatrick, *Chemical and Metallurgical Engineering*; E. S. Rothrock, Louisiana Chemical Co.; George Oenslager, B. F. Goodrich Co.; A. W. Hixson, Columbia University; G. H. Montillon, University of Minnesota; A. Anable, The Dorr Co.; A. K. Brodie, Procter and Gamble; R. A. Hayward, Kalamazoo Vegetable Parchment Co.; B. F. Dodge, Yale University; G. A. Bole, Ohio State University; C. O. Brown, Chemical Engineering Corp.; G. G. Brown, University of Michigan; E. C. Sullivan, Corning Glass Co.; H. C. Hottel, Massachusetts Institute of Technology; W. H. McAdams, Massachusetts Institute of Technology; J. C. Brier, University of Michigan.

The members of the session, lecturers and visitors were housed in Jordan Hall, one of the university dormitories. This arrangement facilitated interchange of ideas, and discussions held informally over the dinner table and in the parlors.

A social committee provided many opportunities for exercise and play. Golf, tennis, swimming, canoeing, hiking, baseball and bridge afforded relaxation in the afternoon. A smoker, at which an informal talk was given by Professor H. H. Bartlett, of the department of botany, on his experiences while working on the rubber plantations of the Dutch Indies; a bridge party; a tea, and a picnic on the Fourth of July with baseball and horseshoe pitching, provided additional entertainment. There was a trip through the River Rouge works of the Ford Motor Co., and a banquet, at which L. R. Newburgh, re-

search professor of medicine, spoke on "The Human Body as an Internal Combustion Engine."

The summer session was under the general direction of H. P. Hammond, representing the Society for the Promotion of Engineering Education. The local director was A. H. White, and the secretary, W. L. McCabe. Generous financial support was given by the University of Michigan and by the Chemical Foundation, Inc.

THE SCHENECTADY MEETING OF THE AMERICAN PHYSICAL SOCIETY

THE one hundred and seventy-second meeting of the American Physical Society will be held at Schenectady, New York, on September 10, 11 and 12. Registration will be at the Research Laboratory of the General Electric Company throughout the first morning. At 10 A. M. a meeting for ten-minute contributed papers will be held at Rice Hall, followed by a luncheon for members at the Works Restaurant and an inspection trip through the laboratories. The annual dinner will be held in the evening at the Mohawk Golf Club. A meeting to commemorate the one hundredth anniversary of the notable experiments of Michael Faraday and Joseph Henry on electromagnetic induction will be held at 9 A. M. on Friday, when a paper on Faraday written by Sir William Bragg will be read by Professor John Zeleny. A paper on Joseph Henry will be presented by Professor W. F. Magie. After the memorial meeting informal group discussions will be held. The luncheon at Union College will be given at one o'clock. In the afternoon a trip will be taken to Lake George. This will be by special train to the lake and will include a three hour sail with dinner on board the steamer, provided a sufficient number of members wish to attend. On Saturday morning there will be a symposium on magnetism, followed by informal group discussions as on Friday. One of these groups is planning for a rather intensive discussion of present-day experimental and theoretical aspects of magnetism for those particularly interested in this field. This group will not meet on Friday. Saturday afternoon will be devoted to sports. Arrangements will be made for guest cards at the various golf clubs and tennis courts will be available.

THE FILTERABILITY OF BACTERIA

THE James A. Patten Lecture was given at Northwestern University on July 22 by Professor Arthur Isaac Kendall, of the Department of Research Bacteriology, Northwestern University Medical School, Chicago. The subject was "Observations upon the Filterability of Bacteria, including a Filterable Organism Obtained from Cases of Influenza."