

Minutes of 1961 Meeting --- Physical Chem. Lab. Manual Group.

The meeting of the Physical Chemistry Laboratory Manual Group was opened by Professor Oelke, Committee Chairman, on Friday, October 27, 1961. The following were present: W. C. Oelke (Chairman), Grinnell; J. P. Huselton (Secretary), William Jewell; A. L. Hanson (Committee Member), St. Olaf; P. M. Wright (Committee Member), Wheaton; M. Allen, St. Thomas; E. R. Alton, Augsburg; B. Bornong, St. Ambrose; E. S. Carney, Carroll; D. T. Carr, Coe; F. E. Jacob, Drake Univ.; C. W. Jones, Upper Iowa Univ.; D. C. Jones, Wabash; R. C. Medrud, Univ. of Iowa; L. A. Michel, Colorado College; H. J. Neumiller, Knox; G. Thiessen, Monmouth; D. Walker, N.E. Mo. State; A. C. Wilcox, Milwaukee-Downer.

The minutes of the 1960 meeting were read by the Secretary. It was moved, seconded, and passed to accept them as read. The Secretary also noted that only a few reports of student trials had been received.

A discussion ensued regarding the status of the committee. It was moved by Neumiller, and seconded and passed, that the position of Editor be established, that he be the Chairman of the Committee and have power to carry out the usual function as editor and to appoint members of a group known as the Board of Associate Editors. Dr Oelke was nominated and ~~unanimously~~ elected Editor. Dr. Huselton was reappointed Secretary.

Consideration was then given to financing of the project. In order to justify a grant (e.g., NSF), it is desirable that the project be well beyond the initial stages. Dr. Hanson moved that the chemistry departments of all MACTLAC schools be asked to contribute \$10.00 toward the MACTLAC Physical Chemistry Laboratory Manual in order to get the project rolling. Seconded and passed! It was brought out that a personal letter should be sent along with a condensed history of progress to date and an outline of the general plan for the manual. The idea is to be brought before the general meeting.

During a discussion of the type of manual and of Dr. Oelke's part in the work, Dr. Wright presided. It was thought that the manual should have a fixed theoretical portion and that the experimental part should be flexible. Dr. Oelke announced that he would be in Florida on sabbatical leave for the second semester, and that he would be glad to devote this time to the manual. Dr. Hanson moved that Dr. Oelke be authorized to write the theoretical part of the manual with the understanding that he and any others, as authors, will have publishing rights. Seconded and passed!

The discussion on Saturday, October 28, mainly concerned the general nature and content of experiments. A different slant is the aim, and plagiarism is undesirable. Experiments should be submitted in such a form that they will work. Three categories were recommended, namely (1) untested ideas, (2) tested experiments, (3) rechecked work. The following questions were posed: (1) How extensive a write-up is

necessary for our purpose? (2) Should there be any information on chemical literature, in particular, periodicals? It was the consensus of opinion that periodical references should be included in experiments. It was further suggested that home-made devices be included as well as directions for making them. Where to get apparatus is often a problem, and such information should be available. In considering electronics and electrical construction and lay-out, Malmstadt's course at the University of Illinois came to mind. Reference was made to Dr. Oelke's relay apparatus and to his idea for a constant current apparatus for the moving boundary method. Note was also taken of De Ford's (Northwestern) basic feedback amplifier which may become oscillator, integrator, amplifier, or potentiostat simply by changing the external circuit.

It was considered desirable for the Physical Chemistry Group to arrange with the MACTLAC Secretary, Dr. Deskin, to meet at an odd hour in 1962 so that the participants could take advantage of other discussions --- particularly now that the Laboratory Manual Group is more a working unit. Dr. Wright moved that, at the discretion of the Chairman, an hour be reserved and fitted in with the 1962 program. Seconded and passed!

The meeting was adjourned by the Chairman, Dr. Oelke, in time for the general MACTLAC meeting.

Respectfully submitted,

J. P. Huselton, Secretary

NOTE AGAIN:

Who submitted the experiment on reaction velocity of phenolphthalein in high NaOH concentration? See further description at end of 1960 minutes.