

MIDWESTERN ASSOCIATION OF CHEMISTRY TEACHERS  
IN LIBERAL ARTS COLLEGES

Alma College

Eleventh Annual Meeting

Alma, Michigan

Friday, October 12

- 11:00 a.m. Executive Council meeting and luncheon - Heather Room
- 12:30 p.m. Registration - Lobby, Dow Science Building
- 1:30 p.m. General Meeting - Lecture Room, Dow Science Building, Room 100
- 1:45 p.m. Discussion groups -
1. Instrumentation - Room 103, Leader: Dr. Stanley Watkins, Coe College
  2. Programed Instruction - Room 203, Leader: Dr. Paul Carnell, Albion College
  3. What makes a chemistry department tick? Room 207, Leader: Dr. Bill Deskin, Cornell College
  4. Physical-Inorganic - The balance between classical and modern topics. Room 229, Leader: Dr. John Ricketts, DePauw University
  5. What should be included in Undergraduate Organic? Room 134, Leader: Dr. Quentin Petersen, Wabash College
- 3:30 p.m. Coffee Break - Lobby, Dow Science Building
- 4:00 p.m. Discussion groups resume
- 7:00 p.m. Banquet - Highlander Room, Van Dusen Commons
- 8:00 p.m. Lecture - Auditorium, Dow Science Building - "New Minimum Standards for ACS Approval", Dr. Edward Haenisch, Wabash College

Saturday, October 13

- 8:30 a.m. Special Topics: Auditorium - Significance of NMR and Elucidation of Structure, -Dr. Edward Baker, Dow Chemical Co.
- Lecture Room 100 - Molecular Orbital, Valence Bond, and Ligand Field - A Comparison. Dr. Stanley Kirschner, Wayne State University, Detroit
- 9:30 a.m. Coffee Break - Lobby, Dow Science Building
- 10:00 a.m. Discussion Groups or Special Topics
- 11:00 a.m. General Meeting - Auditorium, Dow Science Building
- Election of state representatives to Executive Council:  
Election of new officers, - Business
- 12:00 noon Luncheon - Heather Room

In absence of Dr. Petersen ~~Wolthuis~~ <sup>Wolthuis - Calvin College</sup>

acting chairman. Discussion of Crum and Hammond as a text. One uses Crum, Hammond as a reference book. ~~text~~ Feels some introduction to functional groups is a good introduction. Emphasis on mechanisms is felt to be a good approach to organic chemistry. Morrison and Boyd is felt to be a good approach. What are we trying to do when we teach organic chemistry?

At this point Dr. Petersen arrived. He distributed a list of possible subjects related to topic

A good deal was said about the mechanistic approach to organic chemistry. Some suggested that a better way to state the matter would be to call it the theoretical approach because it is somewhat limiting to call it a mechanistic approach. All of this is symptomatic of the modern trend to minimize descriptive chemistry and put the courses on a more theoretical basis.

Neglected topics. Many topics such as carbohydrates and proteins it is felt can be used to improve the theoretical understanding of organic and still retain some descriptive material on these important topics especially in those courses which involve pre-meds etc.

Adjourn at 3:30 Reconvened at 4:00.

The question was asked, "Of what value is some historical approach to the problems?"

Laboratory. It was felt that a good deal of spade work can be left to students by reading on their own.

Compounds are assigned to synthesize which require a literature search either as a way of stimulating literature reading or actually planning a method a synthesis.

Mention was made of the possible use of instruments in beginning organic chemistry.

What is the purpose of laboratory?

Make them aware of their own possibilities

Make them able to repeat what is in the literature and extend this knowledge ~~because~~ with the abilities they have acquired, New requirements of A.C.S.