THE COBLENZ SOCIETY, INC.

Mailing No. 11. July 20, 1959

Minutes of the Coblentz Society Discussion Meeting at Ohio State University Symposium held on Thursday, June 18, 1959.

1. Announcement of Newly Elected Officers

A. A formal welcome was extended to the newly elected members of the Board, Dr. R. A. Friedel and Dr. W. J. Potts, Jr., who are taking over for retiring members Prof. H. H. Nielsen and Dr. N. Wright.

B. At a meeting of the Board of Management, held earlier on the same day, Dr. Foil A. Miller was elected President of the Society for the coming year.

C. The present Board of Management and its officers are hence the following:

<table>
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<th>Member</th>
<th>Term</th>
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<tr>
<td>Dr. R. A. Friedel</td>
<td>1962</td>
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<td>Dr. D. N. Kendall</td>
<td>1961</td>
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<td>Dr. R. C. Lord</td>
<td>1960</td>
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<td>Dr. F. A. Miller, President</td>
<td>1960</td>
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<td>Dr. W. J. Potts</td>
<td>1962</td>
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<td>Dr. R. R. Sawyer, Secretary Treasurer</td>
<td>1961</td>
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<td>Dr. C. D. Smith</td>
<td>1961</td>
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2. Treasurers Report

In the absence of the Secretary-Treasurer, Ray Sawyer, financial and membership reports as given below, were read by Norman Wright.

FINANCIAL REPORT

June 1, 1958 - June 1, 1959

Balance 6/1/58..........................$847.61

Initiation Fee ($1.00)
6/1/58 - 6/1/59...................... 23.00

Membership Dues ($2.00).............. 654.00

Total $1,524.61

Coblentz Society, Inc., Expenses -- 6/1/58 - 6/1/59

Incorporation Fees Paid to State of Connecticut and City of Norwalk.....$ 33.00
Society Seal................................ 8.00
Minutes Book............................. 11.00
Cost of Mailings Since Pittsburgh Conference.......................... 264.16

Total $316.16

Balance, 6/1/59..........................$1,208.45

Respectfully Submitted Raymond R. Sawyer, Secretary-Treasurer
3. Symposium plans for Pittsburgh, 1960

Dr. W. J. Potts, who organized the very successful Coblentz Society-sponsored symposium on Group Frequencies at Pittsburgh in March 1959, gave the following report:

"As announced in Mailing No. 10 the success of our first symposium led to a decision by the Society to sponsor another session at Pittsburgh in 1960, and I have again volunteered to head a committee to arrange a session. Mailing No. 10 carried a poll on fields of interest for this session which resulted in about 200 responses divided as follows: Trace Analysis, 81; Group Frequencies, 48; Far Infrared, 43; Intramolecular Effects, 32. Tentative plans are therefore underway with the Pittsburgh program committee to present a session on Trace Analysis. I hope to get papers on differential IR, combined use of IR and gas-liquid chromatography, microanalysis using the KBr pellet technique, and others."

Dr. Potts then solicited contributed papers on group frequencies for other sessions of the 1960 Pittsburgh Symposium.

Dr. Wright announced the November 4-6 meeting of the SAS in New York City, sponsored by the SAS, ACS Anal. Chem. Division, and New York Metropolitan Micro-chemical Society.

4. Publication of quantitative IR Methods

The report of Robert C. Wilkerson, chairman of this committee was read. A total of 131 methods have been received. As of the June 1959 issue of Analytical Chemistry 82 methods have been published. The back-log of 49 methods and the present rate of submissions indicate that this project has achieved fairly permanent status.

Mr. Wilkerson has again requested that the chairmanship of this committee be rotated to someone else, and the selection of his successor is in process. Mr. Wilkerson is to be warmly congratulated on this very fine achievement for the field of Infrared Spectroscopy and for the Coblentz Society.

5. Collection and Dissemination of Infrared Spectra

Dr. Clara Smith, chairman of this committee, was next introduced. She stated that over 2,000 spectra had been submitted, of which 1200 were dropped out, mainly as duplicates, but some of poor quality. 250 can be ordered now. They are printed three to a page in the Sadtler Midget Edition. 382 more spectra are waiting to be published, and 70 are waiting to be checked. 100 are being held up since they are not sure of the spectrum, i.e., new compounds. Orders are taken for 1,000 spectra; billings are due after half (500) have been received. George Rappaport is in charge of those collecting spectra. The originals of all spectra submitted will be returned.

More contributions of spectra are needed. Send them to Dr. Clara Smith, Infrared Spectroscopist, 900 East Mulberry, Evansville 13, Indiana.
Editorial Policies of Journals on Infrared Spectra

This was a continuation of discussions held last year and at earlier meetings on the general question as to whether journal articles on organic chemistry should include more infrared spectra and IR spectral data. As noted in Mailing No. 8 it was decided that a committee should be formed to prepare a questionnaire to be submitted to the Coblentz membership.

N. Wright then submitted for approval a series of questions which had been prepared for this questionnaire. There was a considerable amount of discussion aimed more at the purpose and intended use of the information to be gained from the poll rather than about the content of the questions. The answer given was, in the words of Mailing No. 8, "This should provide adequate indication of those areas in which there is good agreement and lead the way to better agreement in others. After consideration of the questionnaire returns the committee should then prepare a statement of the Coblentz Society's position on these matters which, after approval of the membership, should be published." A vote was then taken on a motion that the questionnaire be approved, and this passed by a large majority. An additional question for the poll was proposed regarding use of a standard form for presentation of spectra, and this has been included.

The questionnaire is attached to this Mailing. Please register your opinions and return it as promptly as possible.

Dr. Wright then opened the meeting to general discussion. The question of sponsoring a symposium at the SAS November meeting was considered, and it seemed best to the majority present to limit the number of symposia for the time being.

The next chairman, Dr. Foil Miller, was introduced to the Society. Dr. Miller extended high praise for the leadership given by Dr. Wright.

The meeting was adjourned.

A post-adjournment suggestion was made to give membership card #1 to Dr. W. W. Coblentz as a Lifetime Membership.

The Coblentz Society
7. **New Chairman for the Committee on Publication of Infrared Spectra**

Because of pressure of other duties, Dr. Robert C. Wilkerson has resigned as Chairman of the Review Committee for Publication of Infrared Methods of Analysis. We wish to express our sincere appreciation to Dr. Wilkerson for the splendid job he did in organizing this project, which is one of the most worthwhile activities undertaken by the Coblentz Society.

We are most pleased to announce that Dr. D. E. Nicholson of the Humble Oil and Refining Company will assume the duties of Chairman of this committee as of September 15. We wish to thank Dr. Nicholson for his cooperation and wish him well in the project.

Future correspondence to this committee should be sent to Dr. D. E. Nicholson, P. O. Box 3950, Research and Development Division, Humble Oil and Refining Company, Baytown, Texas.

8. **The Programmatic Calculation of Force Constants**

At present several independent groups are actively engaged in the programmatic calculation of force constants and normal coordinates on digital computers. In view of the rapid progress to be expected with these new techniques it seems desirable to establish, under the auspices of the Coblentz Society, a Force-constant New Letter in which preliminary results can be communicated without delay to other workers in the field without the formality of a journal communication.

It is our present intention to limit the distribution of this letter to a mailing list of individuals who specifically request copies, but we hope to publish a summary of outstanding results in the columns of the Coblentz Society Mailings.

Anyone who has material suitable for inclusion in the Force-constant News Letter* or who wishes to be on the mailing list should communicate with Dr. John Overend, Spectroscopy Lab, Bldg. 294F, The Dow Chemical Company, Midland, Michigan.

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*This material should be in the form of a brief note of not more than 200 words. In view of the informal nature of this letter, it will not be possible to publish elaborate figures or extensive tables.

The Coblentz Society
COBLENTZ SOCIETY

Questionnaire on Use of Infrared Spectra in Chemical Journals

(You will be informed of the results of this questionnaire in a future Mailing of the Coblentz Society. Subject to approval by the membership a summary of the results will then be more widely publicized.)

1. Should the Coblentz Society advocate the inclusion of infrared spectral data among the physical data regularly used to characterize organic compounds in the original literature of organic chemistry?

   Yes----------------- No-----------------

   Comments:

2. Should presentation in graphical form (spectral curves) be advocated for the above purpose?

   Yes__________ No__________

   Comments:

3. Should we advocate the use of a standard form of presentation as for example that of the A.P.I.? (See also questions 4 and 5)

   Yes__________ No__________

   Comments:

4. Is it desirable that the spectra published in journal articles be reproductions of the spectra as originally recorded by spectrophotometers, i.e. not replotted or retraced manually?

   Yes__________ No__________

   Comments:

5. Should we advocate the use of miniature spectra (one column wide, one inch high) accompanied by a brief list of the important frequencies?

   Yes__________ No__________

   Comments:
6. Should we advocate the publication of spectra relating to the research in a separate place such as the American Documentation Institute?

Yes________ No________
Comments:

7. Should the Coblentz Society offer the services of a reviewing committee of recognized spectroscopists to aid journal editors in (a) deciding whether the inclusion of spectra would be useful in a given case and (b) refereeing the quality of submitted spectra?

Yes________ No________
Comments:

8. Should abstracts state whether infrared data or spectra have been presented in the paper?

Yes________ No________
Comments:

Please return to:

Dr. R. R. Sawyer, Secretary
The Coblentz Society
90 The Perkin-Elmer Company
Norwalk, Connecticut