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DE PAUW UNIVERSITY
GREENCASTLE, INDIANA

DEPARTMENT OF CHEMISTRY

October 15, 1962

Dr. William Deskin
Chemistry Department
Cornell College
Mount Vernon, Iowa

Dear Bill,

Here is the summary of the meeting of the Physical-Inorganic Chemistry group held at Alma College. The attendance at the discussion was 30 people

- 6 Inorganic primary interest
- 2 Analytical primary interest
- 22 Physical primary interest

In order to suggest some questions I made some introductory remarks which I am enclosing with this summary to give you a better idea of the subject matter that was covered during the following discussion. The main ideas that emerged from the chaotic statements within the group (don't quote me here since I call many in the group friends).

1. The content of the physical chemistry course depended upon the content within the other courses which preceded and proceeded P. Chem. Hence to effectively teach the P. Chem. course requires that the offerings within any particular chemistry department be thoroughly inspected to see what topics normally covered in P. Chem. had received adequate coverage in a previous course. As examples
 - a. If ionic equilibria and electrode potentials are adequately stressed in analytical chemistry, this topic can be deleted from the physical course.
 - b. If a quantitative approach to reaction mechanisms is given in the beginning organic course, the integration of the various types of rate expressions becomes redundant and can be omitted in favor of a more sophisticated approach to chemical kinetics such as Absolute Rate Theory.
2. The content within the beginning physical chemistry course should emphasize classical thermodynamics and in addition devote some time to introducing both quantum mechanics and statistical thermodynamics.
3. There was some discussion concerning the need for a special course in P. Chem. for students of biology and pre-medicine. It was agreed that such a course was valuable to them; however, no concrete solution to how the problem be best handled was agreed upon.

I hope that this is satisfactory. I am also enclosing the application of Eugene Schwartz for membership in Mactlac.

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Categories:

1. States of Matter, 2. Thermodynamics, 3. Chemical Kinetics, 4. Molecular Spectroscopy, 5. Quantum Theory and Chemical Bonding, 6. Colligative Properties and Phase Rules, 7. Electrochemistry, 8. Nuclear and Radiation Chemistry, 9. Surface Chemistry, and 10. Statistical Mechanics

Books:

- I W. Moore, "Physical Chemistry," McGraw-Hill 1962
- II G. E. ... "Physical Chemistry," McGraw-Hill 1961
- III E. Hutchinson, "Physical Chemistry," W. B. Saunders 1962
- IV W. Sheehan, "Physical Chemistry," Allyn and Bacon 1961
- V G. Duffy, "Physical Chemistry," McGraw-Hill 1962
- VI F. Daniels and R. Alberty, "Physical Chemistry," John Wiley & Sons 1961

Book	I	II	III	IV	V	VI
Category						
1.	157	.19	93	.17	106	.17
2.	121	.15	77	.14	81	.13
3.	59	.07	46	.08	38	.06
4.	63	.08	78	.14	31	.05
5.	133	.16	99	.18	69	.11
6.	49	.06	59	.11	66	.10
7.	95	.12	104	.19	78	.13
8.	67	.08	12	.02	12	.02
9.	55	.07	66	.12	110	.18
10.	27	.03	25	.05	29	.05

Under each book heading the first figure gives the number of pages devoted to the subject; while the second number gives the fraction of the book devoted to the category.