

May 22, 1947

Dean N. T. McClure
203 Lincoln Hall

Dear Dean McClure:

Enclosed I am sending you a brief report
on the activities of the Chemistry Department during
1946-47.

Sincerely yours,

Roger Adams
Head - Chemistry Department

RA:wm
Enclosures

ENROLLMENT

A comparison of the enrollment in chemistry for 1944-45, 1945-1946 and 1946-47 is given in the accompanying table.

Total registration in chemistry courses

I Sem. 1944-45	1669	I Sem. 1945-46	2244	I Sem. 1946-47	5321
II Sem. 1944-45	<u>1430</u>	II Sem. 1945-46	<u>3430</u>	II Sem. 1946-47	<u>4837</u>
Total	3099		5674		10,158

Registration in freshman courses

I Sem. 1944-45	847	I Sem. 1945-46	1340	I Sem. 1946-47	2494
II Sem. 1944-45	<u>654</u>	II Sem. 1945-46	<u>2024</u>	II Sem. 1946-47	<u>1849</u>
Total	1501		3364		4343

Graduate students

I Sem. 1944-45	87	I Sem. 1945-46	113	I Sem. 1946-47	251
II Sem. 1944-45	<u>87</u>	II Sem. 1945-46	<u>163</u>	II Sem. 1946-47	<u>265</u>
Total	174		276		516

Students in chemistry curriculum

I Sem. 1944-45	100	I Sem. 1945-46	105	I Sem. 1946-47	216
II Sem. 1944-45	<u>87</u>	II Sem. 1945-46	<u>146</u>	II Sem. 1946-47	<u>185</u>
Total	187		251		401

Students in chemical engineering curriculum

I Sem. 1944-45	100	I Sem. 1945-46	108	I Sem. 1946-47	284
II Sem. 1944-45	<u>69</u>	II Sem. 1945-46	<u>161</u>	II Sem. 1946-47	<u>254</u>
Total	169		269		538

The registration has thus reached a new maximum and the physical facilities are at about capacity. The course offerings have not been enlarged as they should be but substantial revision of some of the courses is underway. Attention to the individual student who needs it cannot be given in the way it should be. I see no possibility for correcting this situation until additional senior

men can be hired. With a senior staff of prewar size it is obvious that the teaching of chemistry students is bound to suffer.

STAFF

Dr. E. R. Alexander and Dr. L. E. Miller were added as instructors in organic chemistry, the former to replace Professor C. C. Price and the latter to serve for Professor C. S. Marvel who has, during this year, devoted 80% of his time to rubber research.

Although four additional instructors had been sought for freshman chemistry only one was found, Dr. L. S. Giereszko. The other vacancies in this field were filled this past year by part-time assistants.

An additional instructor in physical chemistry who would have made it possible for us to offer the course in chemistry for general students could not be procured.

With Dr. H. F. Johnstone taking over the duties of Professor D. B. Keyes, Dr. H. G. Drickamer was appointed as assistant professor to handle the work of Professor Johnstone. Mr. J. O. Hougen was appointed as an instructor in place of Dr. W. M. Langdon.

In the division of analytical chemistry Dr. L. K. Nash was replaced by Dr. R. B. Fischer.

During the past year several members of the chemistry staff have been offered attractive positions either in universities or industry. The Department suffered a real loss in the acceptance of Dr. Price of the position as the Head of the Chemistry Department at the Notre Dame University. Dr. L. K. Nash, a very promising instructor in analytical chemistry, accepted a position in the same

field at Harvard University. Dr. W. M. Langdon had been appointed on a temporary basis so his leaving had been anticipated. Fortunately all of the other staff members have been induced to remain at Illinois.

Certain additional honors have come to our staff members during the past year. Professor C. S. Marvel received the honorary degree of Sc.D from Illinois Wesleyan University at their commencement in June of 1946. Dr. Harold R. Snyder and Dr. H. E. Carter have both been invited to give papers before the Organic Symposium in Boston which is to be held on June 11 through June 14. Since only twelve people are invited to speak at this Symposium it is significant that two of the younger men from the University of Illinois were included in the program. The undersigned received the Priestley Medal of the American Chemical Society at the National meeting held in Chicago in September 1946.

SCIENTIFIC RESEARCHES AND PUBLICATIONS

During the calendar year 1946, 114 scientific papers were published by the chemistry faculty as compared with 67 in 1945 and 78 in 1944. This marked increase is accounted for by the release for publication of the results of certain scientific accomplishments carried out in the war program.

At the present time the Chemistry Department has limited its acceptance of Government contracts to a very small number. Great caution has been exercised not to expand such activities to the extent that they will interfere with the regular research activities of the Department. In fact, the contracts accepted involve fundamental work in which the staff members are interested and in which

they would have carried on their investigations with or without Government subsidy. The Rubber Reserve has agreed to a budget of \$80,000 to be handled by Dr. C. S. Marvel for basic research in rubber. All of the past activities of this laboratory which were not concerned entirely with fundamental problems, will henceforth be eliminated.

Many of the fellowships and research assistantships sponsored by industry and other agencies have been renewed for this year and additional gifts have come to the Department. Below is the current list of organizations sponsoring one or more fellowships or research assistantships in the Chemistry Department:

Monsanto Chemical Company ✓
Allied Chemical and Dye ✓
Standard Oil Company ✓
E. I. duPont ✓
Upjohn Company ✓
Rockefeller Foundation ✓
Texas Gulf Sulphur Company ✓
Western Cartridge Company ✓
Rohm and Haas Company ✓
Eastman Kodak Company ✓
Cincinnati Chemical Works ✓
Eli Lilly Company ✓
Smith, Kline and French ✓
Victor Chemical Works ✓
Corn Products Refining ✓
General Aniline and Film ✓
Magnavox Company ✓
Norton Company ✓
Pan American Refining Company ✓
Nutrition Foundation ✓
Graham, Crowley and Associates, Inc. ✓
Wm S. Merrell Company ✓
National Institute of Health ✓

Roger Adams
Head - Chemistry Department

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