The School of Chemistry

The Chemistry Library

The main portion of the building occupied by the School of Chemistry was built in 1913. It is of fireproof construction 200 by 180 feet in size, and has six floors including the basements. An addition constructed in 1921 completed the building. Well equipped laboratories provide instruction for the undergraduate, while advanced work and research are carried on in private laboratories or rooms specially equipped to accommodate graduate students. In addition to stockrooms on each floor of the building the chemical storehouse for the University is located in the sub-basement of the Chemistry Building. This simplifies the matter of supplies.

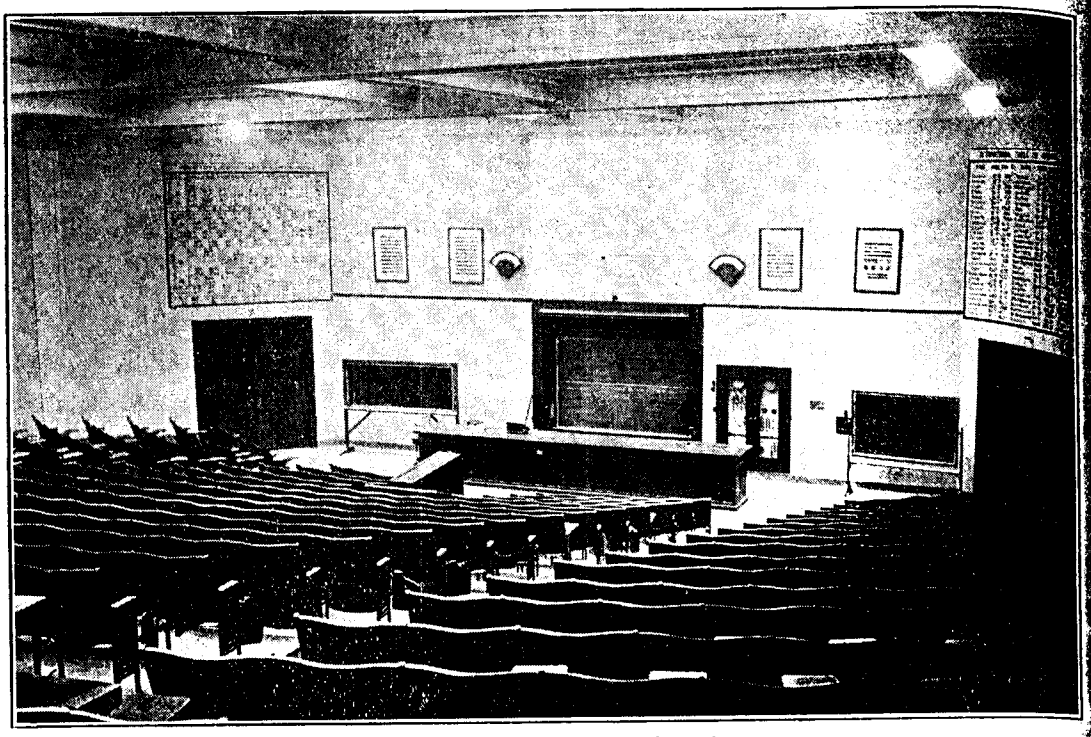
The library of the School of Chemistry embraces about 7,000 volumes, including eighty-six complete files of chemical journals. A subscription list of sixty-two periodicals is maintained. These periodical files place this library among the three or four leading libraries of chemistry in the country. A competent librarian is in charge, altho the book stacks are directly accessible to students. The reading rooms have a seating capacity of seventy-five.

General Laboratory for Graduate Students

GRADUATE WORK

Graduate work is offered during the summer of 1926 by all the divisions in the School of Chemistry. Courses numbered 100 and above carry graduate credit. It is possible through work in the Summer Session to fulfill the requirements for the Master's degree and to earn considerable credit towards the degree of doctor of philosophy. Graduate students from acceptable colleges may expect to meet the residence and course requirements for the Master's degree in four summer sessions of six weeks each or three full summer quarters. In the former case additional work on the thesis will be required in order to make up the equivalent of three quarters. A full statement of the requirements for advanced degrees may be found in the bulletin of the Graduate School. Graduate students should register for the Summer Session in the Graduate School.

The principal fields represented in advanced courses and research this summer are: complex salts, rare earths, fundamental organic chemistry, conductivity of electrolytes, surface tension, and catalysis and colloids, fuels and lubricating oils, and various lines of chemical engineering.



The Chemistry Auditorium

INORGANIC CHEMISTRY

FIRST TERM

1su.[1] GENERAL INORGANIC CHEMISTRY. A study of the general laws of chemistry and of the non-metals and their compounds. (4 cred.; no prereq.; lect., MTWThFS II; 325C; lab., MTWTh VI-VII; 210C.) MR. REYERSON.

4su.[1] GENERAL INORGANIC CHEMISTRY. A study of the general laws of chemistry and of non-metals and their compounds. (4 cred.; prereq., high school chemistry; lect., MTWThFS II; 225C; lab., MTWTh VI-VII; 210C.) MR. STEPHENS.

6su.[1] GENERAL INORGANIC CHEMISTRY. Includes a study of general laws of chemistry and of non-metals and their compounds. (5 cred.; no prereq.; lect., MTWThFS II; 325C; lab., MTWThF VI-VII; and TTh VIII; 210C.) MR. REYERSON.

9su.[1] GENERAL INORGANIC CHEMISTRY. A study of the general laws of chemistry and of non-metals and their compounds. (5 cred.; prereq., high school chemistry; lect., MTWThFS II; 225C; lab., MTWThF VI-VII; TTh VIII; 210C.) MR. STEPHENS.

11su.[1] QUALITATIVE CHEMICAL ANALYSIS. Laboratory work in systematic qualitative analysis with lectures on solutions, ionizations, chemical and physical equilibrium, oxidation, and reduction, etc. (4 cred.; prereq., 3 or 5; lect., MTWThFS II; 111C; lab., MTWTh VI-VII; 290C.) MR. SNEED.

12su.[1] QUALITATIVE CHEMICAL ANALYSIS. Laboratory work in systematic qualitative analysis with lectures on solutions, ionization, chemical and physical equilibrium, oxidation, and reduction, etc. (5 cred.; prereq., 8 or 10; lect., MTWThFS II; 111C; lab., MTWThF VI-VII; TTh VIII; 290C.) MR. SNEED.

[1] A laboratory fee of $1.50 is charged for this course.

Qualitative Laboratory

17su.[1] GLASS BLOWING. Exercises in the more important operations in building chemical apparatus. (1 cred.; jr., sr., grad.; no prereq.; MWF VIII-IX.) MR. STEPHENS.

19su. TEACHERS' COURSE. Consideration of the fundamental principles of chemistry with particular reference to the teaching of chemistry in high school. Discussion of such topics as training of the teacher, laboratory equipment, etc. (3 cred.; prereq., 13; lect., MTWThFS IV; 315C.) MR. GEIGER.

102su.[1] ADVANCED QUALITATIVE ANALYSIS. This course includes an analysis of minerals, alloys, paints, and the methods of detecting some of the rarer elements. (2 or 3 cred.; prereq., 21; hrs. to be ar.) MR. SNEED.

304su. RESEARCH IN GENERAL INORGANIC CHEMISTRY. (Cred. and hrs. to be ar.) MR. SNEED.

(See also Courses 126su and 226su under the head of Analytical Chemistry.)

SECOND TERM

2su.[1] GENERAL INORGANIC CHEMISTRY. A continuation of 1su. (4 cred.; prereq., 1; lect., MTWThFS II; 325C; lab., MTWTh VI-VII; 210C.) MR. HEISIG.

5su.[1] GENERAL INORGANIC CHEMISTRY. A continuation of 4su. (4 cred.; prereq., 4; lect., MTWThFS II; 225C; lab., MTWTh VI-VII; 210C.) MR. MAYNARD.

7su.[1] GENERAL INORGANIC CHEMISTRY. A continuation of 6su. (5 cred.; prereq., 6; lect., MTWThFS II; 325C; lab., MTWThF VI-VII; TTh VIII; 210C.) MR. HEISIG.

10su.[1] GENERAL INORGANIC CHEMISTRY. A continuation of 9su. (5 cred.; prereq., 9; lect., MTWThFS II; 225C; lab., MTWThF VI-VII; TTh VIII; 210C.) MR. MAYNARD.

[1] A laboratory fee of $1.50 is charged for this course.

Rare Elements Research Laboratory

ANALYTICAL CHEMISTRY

FIRST TERM

20su.[1] QUANTITATIVE ANALYSIS (Gravimetric). Introductory course covering the general principles and methods of quantitative analysis. Typical problems are assigned and attention given to proper laboratory practice. (5 cred.; prereq., 13; lect. or rec., TW V, VI; 215C; lab., MThF V-VIII; TW VII-VIII; 310C.) MR. GEIGER. 31su

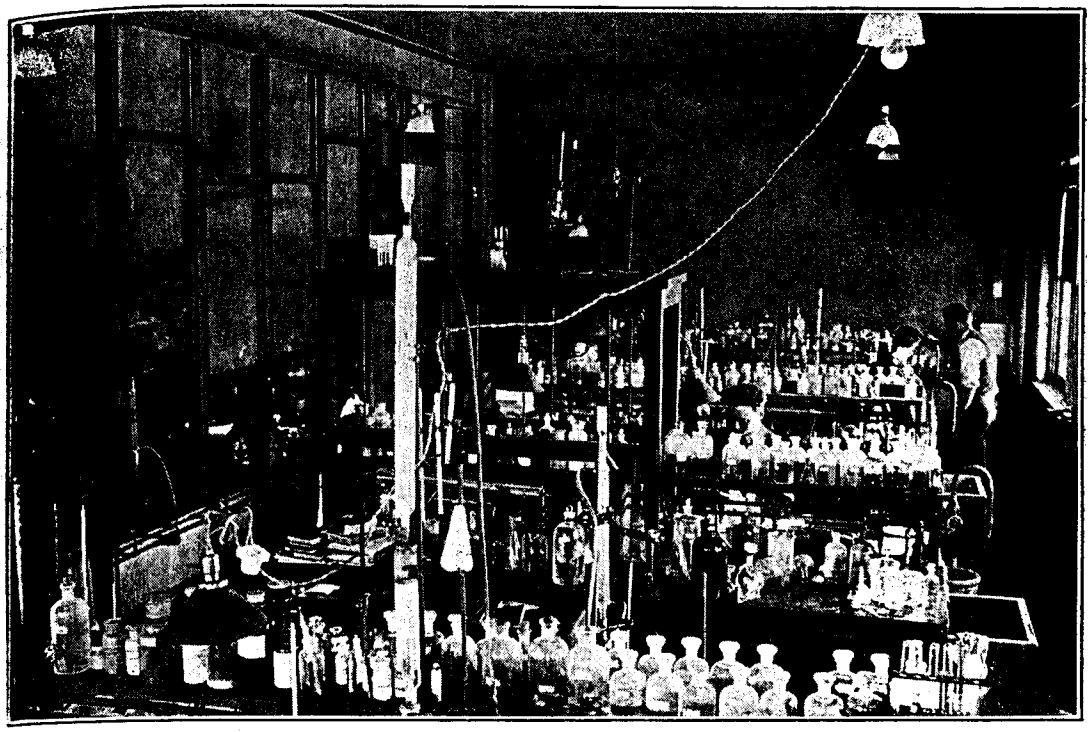
27su.[1] QUANTITATIVE ANALYSIS. (Primarily for pre-medical students and teachers.) An introductory course covering the general principles and methods of quantitative analysis, both gravimetric and volumetric. Typical problems will be assigned and attention given to proper laboratory practice. (4 cred.; prereq., qual. anal.; lect. or rec., TW V, VI; 315C; lab., MThF V-VIII; TW VII-VIII; 310C.) MR. GEIGER. 133s

126su.[1] CHEMISTRY OF THE RARE ELEMENTS. The general and analytical chemistry of those elements not considered in ordinary courses. Laboratory work may consist either of analyses of commercially important ores, or of the preparation and study of scientifically interesting compounds. Four lectures and twelve hours of laboratory per week. (2 to 4 cred.; sr., grad.; prereq., 20, 21, or equiv.; hrs. to be ar.) MR. BRINTON. 138s 334s

226su. SELECTED TOPICS IN ANALYTICAL OR INORGANIC CHEMISTRY. Analytical or general problems of an advanced nature presenting special difficulties will be selected for study and investigation in the laboratory, in the library, and by conference. (2 to 4 cred.; open only to grad. students who have a good foundation in inorganic and analytical chem.; hrs. to be ar.) MR. BRINTON. 32su

324su. RESEARCH IN ANALYTICAL CHEMISTRY. (Cred. and hrs. to be ar.) MR. BRINTON, MR. GEIGER.

[1] A laboratory fee of $1.50 is charged for this course.



An Organic Research Laboratory

ORGANIC CHEMISTRY

FIRST TERM

31su.[1] ELEMENTARY ORGANIC CHEMISTRY. Discussion of important compounds of aliphatic and aromatic series, and preparation of typical substances. This course is primarily for students in professional schools and is not equivalent to Course 35 for students registered in the School of Chemistry. (4 cred.; prereq., 11 or 12; lect., MTWThF I; 325C; rec., TTh II; 215C; lab., MWF II-IV; T III-IV; 390C.) MR. SMITH.

133su. REAGENTS IN ORGANIC CHEMISTRY. A discussion of typical reagents used in organic reactions; their limits of applicability, methods of use, and types of substances with which they react. May be accompanied by laboratory work in Chemistry 138. (3 cred.; prereq., 37; MTWThF IV; 115C.) MR. SMITH.

138su.[1] ADVANCED ORGANIC CHEMISTRY LABORATORY WORK. Difficult preparations and problems. It is intended primarily to supplement the students' knowledge of the methods of organic chemistry. Students may also register for this course who desire appropriate laboratory work for other advanced courses. (2 to 5 cred.; prereq., 37; hrs. to be ar.) MR. SMITH.

334su. RESEARCH IN ORGANIC CHEMISTRY. (4 or 5 cred.; hrs. to be ar.) Mr. SMITH.

SECOND TERM

32su.[1] ELEMENTARY ORGANIC CHEMISTRY. A continuation of 31su. (4 cred.; prereq., 11 or 12 and 31; lect., MTWThF I; 325C; rec., TTh II; 215C; lab., MWF II-IV; T III-IV; 390C.) MR. LAUER.

[1] A laboratory fee of $1.50 is charged for this course.

One of the Laboratories of Physical Chemistry

PHYSICAL CHEMISTRY

FIRST TERM

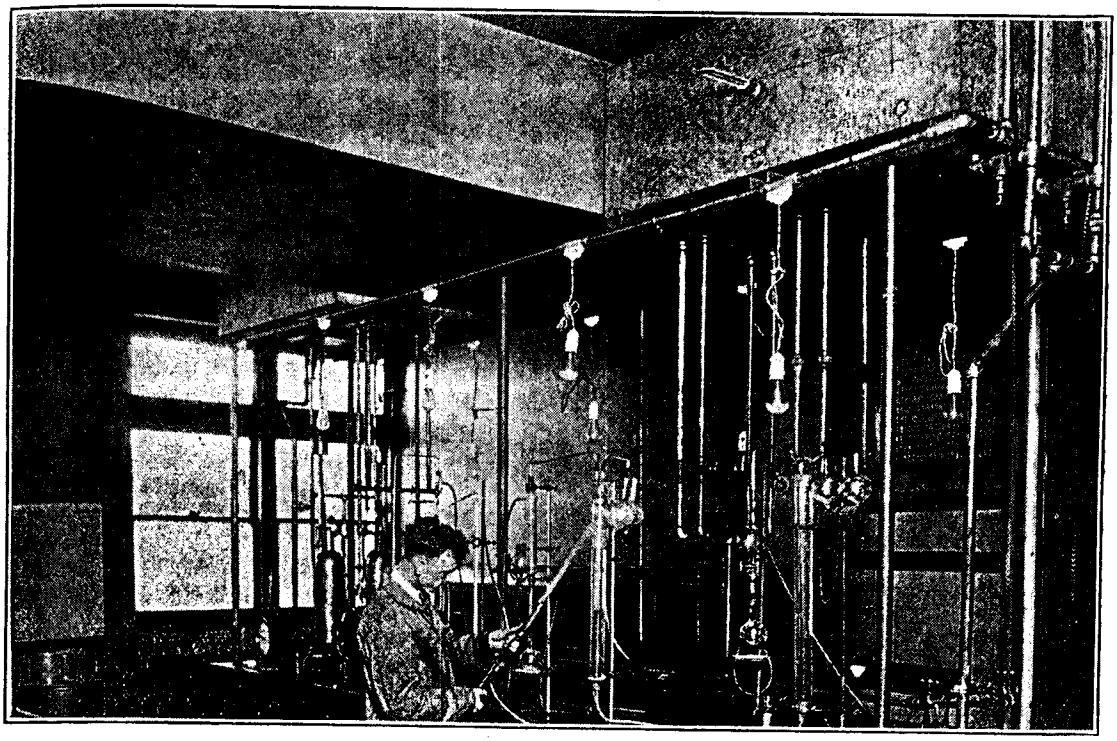
140-141su.[1] PHYSICAL CHEMISTRY.[2] A general survey of the subject. Six lectures and three recitations. Laboratory work nine or 16 hours per week. (4½, 6, or 7½ cred., depending on amount of lab.; prereq., 2 yrs. col. chem., 1 yr. col. phys.; lect., MTWThFS II; 115C; rec., MWF III; 115C; lab., MT VI-IX, or MTWTh VI-IX; 117C.) MR. MACDOUGALL.

153su.[1] PRINCIPLES OF COLLOID CHEMISTRY. Fundamental principles of the subject with special emphasis on recent advances in this line. Accompanied by six hours of work in the laboratory. (3 cred.; prereq., 8 cred. in phys. chem.; lect., MWF VII; 115C; lab., ar.) MR. REYERSON.

344su. RESEARCH IN PHYSICAL CHEMISTRY. (Cred. and hrs. to be ar.) MR. MACDOUGALL, MR. REYERSON.

[1] A laboratory fee of $1.50 is charged for this course.

[2] This course is equivalent to Courses 140f and one half of 141w, which are offered during the academic year.



A Part of the Gas, Fuel, and Oil Laboratory

TECHNOLOGICAL CHEMISTRY

FIRST TERM

167su.[1] TECHNICAL GAS AND FUEL ANALYSIS. (3 cred.; jr., sr., grad.; prereq. 20-21; lect. or rec., MW V; 115C; lab., MTWTh VI-VIII; 10C.) MR. HARDING.

168su.[1] PETROLEUM AND PETROLEUM PRODUCTS. (3 cred.; jr., sr., grad.; prereq., 20-21; lect. or rec., TTh V; 115C; lab., MTWTh VI-VIII; 10C.) MR. HARDING.

169su.[1] GENERAL TECHNICAL ANALYSIS. Analysis of various industrial products including foods and food materials. (3 cred.; jr., sr., grad.; prereq., 20-21; lect. or rec., F V, VI; 215C; lab., MTWTh VI-VIII; 10C.) MR. HARDING.

364su. Research in Technological Chemistry. (Cred. and hrs. to be ar.) MR. HARDING.

[1] A laboratory fee of $1.50 is charged for this course.