

## DEPARTMENT OF PHYSICS

The subject matter of physics has become so comprehensive in recent years that a one year course hardly seems adequate today in an engineering curriculum. It is necessary now to select those topics which relate the fundamental principles in the most useful way for the engineer.

During the past year in our general courses we have adopted the plan of instruction in small class groups. This plan allows a close contact with the instructor and continuity in developing the subject. In one demonstration lecture a week the leading class-room experiments are shown; discussion of the experiments and development of the theory are carried out in lectures and class groups.

A number of inspection trips have been instituted this year including visits to the physics museum and the lighting institute.

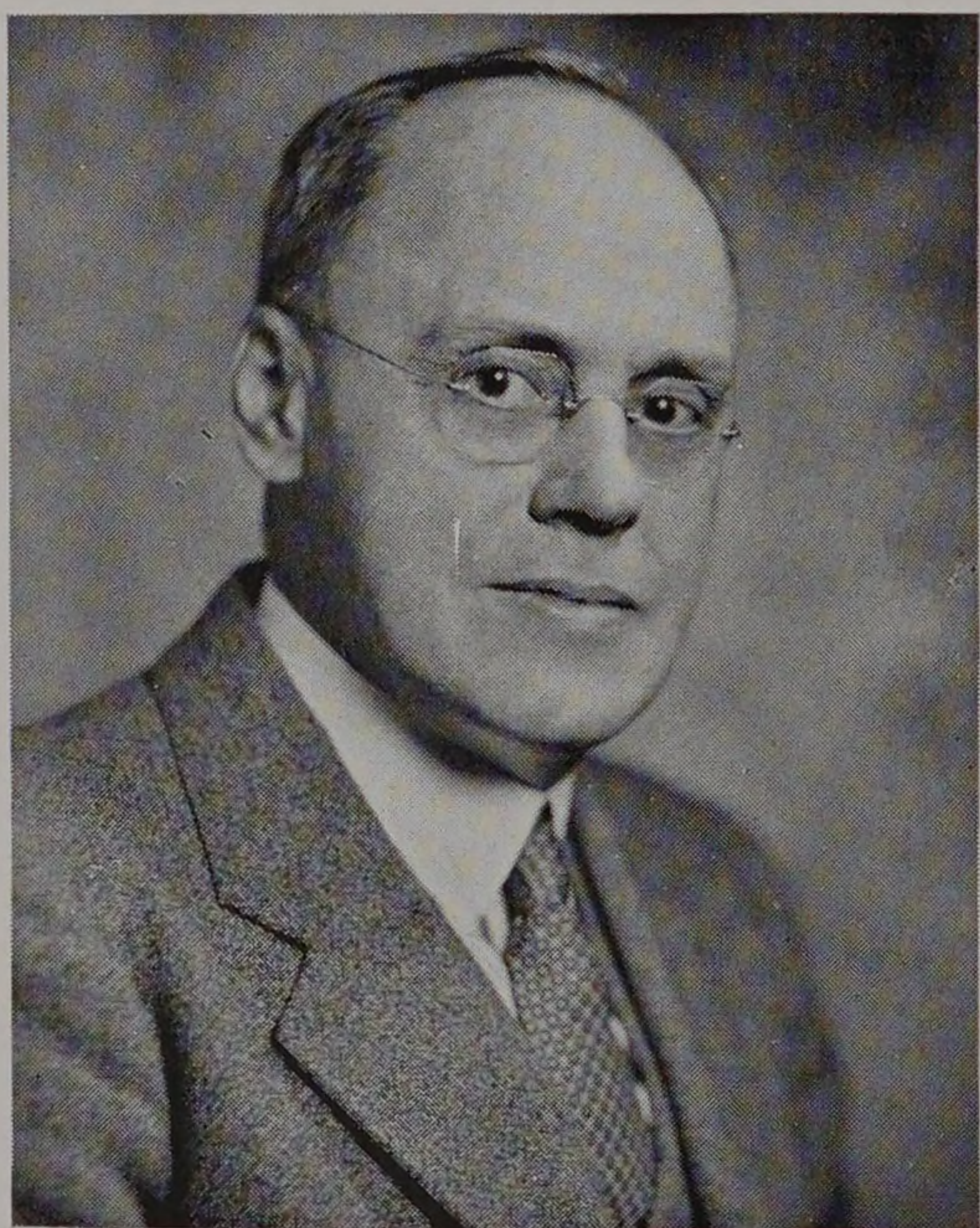
There is a tendency toward a physics in-



*James S. Thompson*

structor becoming a sort of jack-of-all-trades. To avoid this each member of our department has his specialty which is offered in the form of an advanced course. These courses—Electronics, X-rays, Radio, and Optics are constantly being developed.

## DEPARTMENT OF MATHEMATICS



*William C. Krathwohl*

The members of the department of mathematics extend their greetings to the alumni, students and friends of the Institute. Many of you have worked hard and conscientiously trying to gain a knowledge of mathematics,

to think clearly and to reason logically. We trust that you have been rewarded, that you have found in mathematics a mode of thought and a form of expression both precise and universally applicable.

We have always felt that there is more to teaching than the mere transference of subject matter. We have tried to transmit to you some of the enthusiasm we have for our own subject, to broaden your horizon and to kindle whatever spark of genius you possess. We have tried to make you see how the interlacing framework of science must include not one subject but many, and to show you that engineering is a many sided structure of which mathematics is one phase.

If we have accomplished any of these things, our efforts will not have been in vain, and you will be that much better prepared to face life and its problems.