

present conceptions, and point out the road of progress. In this way he not only learns, but is educated. There rests, therefore, a heavy responsibility upon the instructor, for the lecturer presents not the parts, but what he considers the *qualities* of a science or subject. A lecture is not a simple recital of sequential facts and theories, but a personal view and interpretation of a matter taken as a whole from a uniform standpoint and as the lecturer has formulated it in his own mind after years of careful thought and research.

Now, as to the relation of the student to the lecture. It is erroneous to argue that the student is necessarily passive in the lecture. He should not be any more so than that his taking notes should be a mechanical record of the teacher's words. Lecturing should never be degraded to dictation. The student should be active and alert, follow and enter into the spirit of the teacher and retain and formulate not the words but the thoughts and reasoning of the lecturer. He must follow the lecture as a musician will the performance of a symphony. His notes should emphasize the teacher's arrangement, his principal points, and his ideas in abbreviated form, just sufficient to help him later, when he sits at his desk alone and in his mind once more passes through the whole lecture, to enlarge upon it and to elaborate carefully in distinct clear language what he has only indicated in his notes. He will then not only pass the lecture through his mind in review, but he will think of problems and questions which did not occur to him at the time the lecture was delivered. The lecture then, is something different from a book, or reading, or dictation. The book is finished, fixed, a reference. The lecture is a living moving organism, incomplete, but conveying before the eyes and ears of the hearer, the growth of, and the manner of attack upon the subject.

There is one other point connected with the lecture that has great educational value. It should stimulate the hearer to look up originals, to fill up the necessary gaps by his energy and research and to sup-