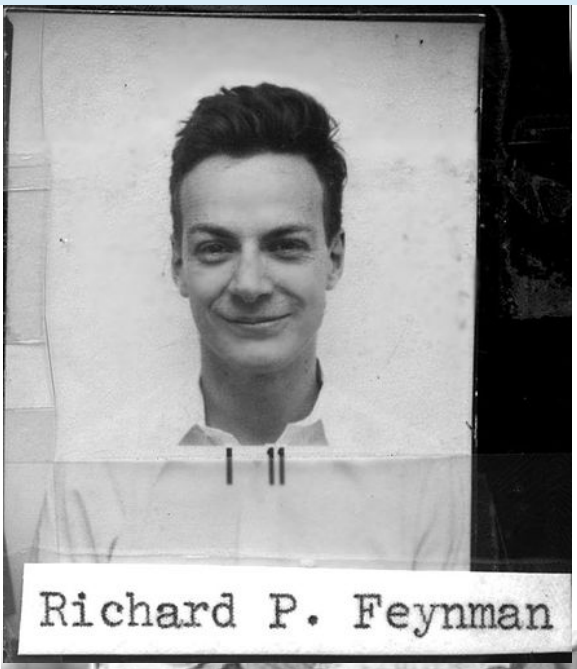
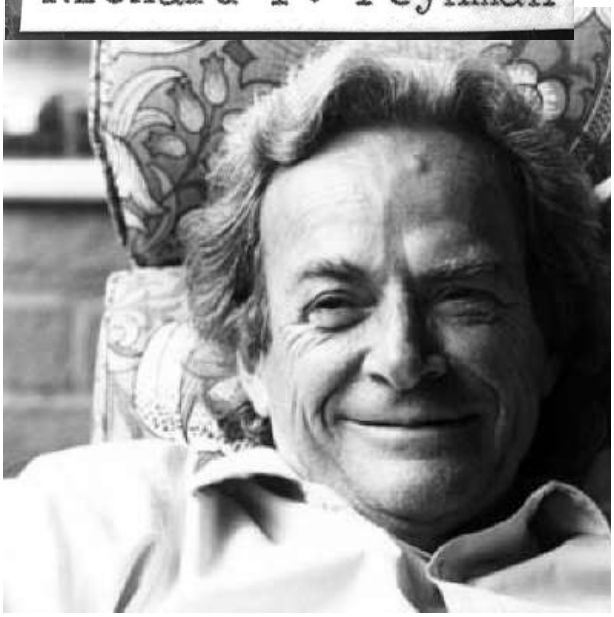
Great Scientists Take Lab Courses at MIT





ELECTRICAL ENGINEERING DEPARTMENT

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

ELECTRICAL ENGINEERING LABORATORY

MEASUREMENTS Division

Report on Experiment No. II-C

STUDY OF D.C. POTENTIOMETER & ITS USES (Title)

Apparatus

L&N TYPE K D.C. POTENTIOMETER & WESTON MILLIAMETER 7312 Lab. No.

Performed by

R. FEYNMAN AND T.A. WELTON

RECEIVED	RETURNED FOR CORRECTIONS	SEE PAGES	PLEASE CONSULT

Time spent in Laboratory on this Experiment 5 Hours

Time spent in the Preparation of Preliminary and Final Reports 12 Hours

Time spent in Correction of this Report ..... Hours

Signature R. P. Feynman

Course VIII, Subject 6.75

Date Performed MAY 6, 1937

Examined by JB Hadley

Grades Preliminary ..... Final 85

Date Accepted MAY 27 1937

8.S10 *Techniques in Experimental Physics*

- Foundational techniques and practices
- Key instrumentation
- Basic data and analysis techniques
- Best safety practices
- Real lab visits and UROP opportunities
- Be prepared to enjoy and ace Junior Lab
- First year students welcome!

8.S10: Techniques of Experimental Physics

Prereq: 8.01, 18.01
U (Spring)
3-3-3 units.
Introduces foundational techniques and practices for experimental physics. Material and mechanics; heat; vacuum; cryogenics; magnetic systems; high voltage; charged particle beam manipulation; detectors; electronics; data acquisition; signal-to-noise. There are weekly laboratories where student groups learn how to use basic experimental equipment. Best safety practices in the laboratory are taught. Key instrumentation, e.g. oscilloscope, laser, lock-in amplifier, analog-to-digital converter, are introduced. Use of computation in experimental design is introduced. Late in the semester students visit campus laboratories providing summer research opportunities. Freshmen in good standing welcome.
R. Milner, C. Paus