

1955

# American institute of steel construction. Program, Summer Course

Fritz Lab

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**Lehigh University**  
**American Institute of Steel Construction**  
**PROGRAM**

**SUMMER COURSE:**

**Plastic Design in Structural Steel**

**FRITZ ENGINEERING LABORATORY**  
**CIVIL ENGINEERING DEPARTMENT**  
**LEHIGH UNIVERSITY**  
**Bethlehem, Pennsylvania**

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**WEDNESDAY, SEPTEMBER 7, 1955**

- \*9:00 A.M.**—Opening Remarks  
 President Martin D. Whitaker, Lehigh University  
 Mr. H. Buckley Dietrich, Vice President, A.I.S.C.
- 9:15 A.M.**—“Fundamental Concepts”—Bruno Thurlimann
- 10:30 A.M.**—“Flexure of Beams”—Lynn S. Eedle
- \*\*1:15 P.M.**—Demonstrations:  
 Testing Apparatus  
 Coupon Test  
 Control Beam—Plastic Hinge
- 4:30 P.M.**—Clambake (Buses leave Fritz Laboratory at 4:30 and return at 10:00 P.M.)

**THURSDAY, SEPTEMBER 8, 1955**

- 9:15 A.M.**—“Upper, Lower Bound Theorems”—Bruno Thurlimann
- 10:30 A.M.**—“Equilibrium Method of Analysis”—Robert L. Ketter
- 1:00 P.M.**—Tour of Lehigh Structural Steel Company  
 (Buses leave Fritz Laboratory at 1:00; tour completed at 5:30 P.M.)

**FRIDAY, SEPTEMBER 9, 1955**

- 9:15 A.M.**—“Method of Virtual Displacement”—Bruno Thurlimann
- 10:30 A.M.**—“Application of Virtual Displacement Method”—Robert L. Ketter
- 1:15 P.M.**—Demonstrations:  
 Continuous Beam Test  
 Beam-Column Test

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\*All morning sessions are to be held in the Auditorium of Packard Laboratory.

\*\*All afternoon demonstrations are to be held in the Fritz Engineering Laboratory.

## **SATURDAY, SEPTEMBER 10, 1955**

(Open for informal discussion, etc.)

## **MONDAY, SEPTEMBER 12, 1955**

- 9:15 A.M.—“Application of Virtual Displacement Method” (Cont'd.) Bruno Thurlimann
- 10:30 A.M.—“Calculation of Deflections”—Lynn S. Beedle
- 1:30 P.M.—Tour of Bethlehem Steel Company  
(Buses leave Fritz Laboratory at 1:30; tour completed at 7:00 P.M.)

## **TUESDAY, SEPTEMBER 13, 1955**

- 9:15 A.M.—“Modifications to Simple Plastic Theory”—Robert L. Ketter
- 10:30 A.M.—“Connections, Design Details”—Lynn S. Beedle
- 1:15 P.M.—Demonstrations:  
Beam Test to Show Lateral Buckling  
High Shear in Beams (display)  
Beam - Column Connections (display)  
Use of Models

## **WEDNESDAY, SEPTEMBER 14, 1955**

- 9:15 A.M.—“Problem of Structural Safety”—Robert L. Ketter
- 10:30 A.M.—“Rules of Design”—Lynn S. Beedle
- 1:15 P.M.—Demonstrations:  
Beam Test with Center Concentrated Load (Effect on Buckling)  
Corner Connection Test

## **THURSDAY, SEPTEMBER 15, 1955**

- 9:15 A.M.—“Analysis and Design Examples”—Bruno Thurlimann
- 10:30 A.M.—“Analysis and Design Examples” (Cont'd.) Lynn S. Beedle
- 1:15 P.M.—Demonstration:  
Gabled Portal Frame
- 4:30 P.M.—Adjournment