

41/20/23
Student Affairs
Student Scrapbooks
William F. Schaller Papers, 1909-12, 1967

Box 1:

Programs, Publications and Correspondence, 1906-15, 1921

Box 2:

Tape-recorded recollection, Oct. 6, 1967

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| 1-10 | Identification |
| 11-24 | Enrollment at University of Illinois in Electrical Engineering. 31 students. 1909-10, Major improvement in electrical engineering courses. |
| 25-35 | Dr. Ernst J. Berg taught the Steinmetz type of electrical engineering. Upgraded quality of theses. Interested in graduate training and placement. |
| 36-70 | Schaller's work as a testing engineer at General Electric in Schenectady, N.Y. Berg's connection with Charles P. Steinmetz. Steinmetz lectured to 12 Illinois students. Smoked cigars. Skilled mathematician. Interest in students. Civic figure. |
| 71-82 | Steinmetz started Schaller on his master's thesis. Steinmetz initiated into Eta Kappa Nu. He sent a 2,000 cycle rotary converter to Illinois. |
| 83-89 | Schaller's thesis. Graduate work. |
| 90-99 | Prof. Trygvie Yensen. |
| 100-111 | Securing services of E.J. Berg. Berg's interest in students. |
| 112-121 | Prof. Morgan Brooks, technical engineer, inventor of the circle diagram for designing induction motors. |
| 122-126 | Profs. Waldo, Bryant and Paine |
| 127-161 | Berg's appearance and characteristics. Smoked dollar cigars. Returned to New York in 1913. Advised on Schaller's senior thesis. Faculty came right up to Berg's standards and carried on after 1913. |
| 162-169 | Schaller's 1911-12 College of Engineering scholarship for \$250 (see letter). |
| 170-176 | Consulting at Urbana light plant. Berg advised on billing. |
| 177-195 | Schaller's work at Brooklyn Edison; New York, New Haven and Hartford Railroad; H.L. Gantt; efficiency engineering; cut costs of New Haven's power generation. |
| 196-210 | Engineering career as an army officer in World War I. Military experience. |

- 211-225 Post-war career at Moline. Built front drive automobiles. 1922- retirement power switch gear business.
- 226-240 Prof. Trygvie Yensen- Dedicated worker. Iron development.
- 241-242 Prof. Arthur Crathorne.
- 243-265 Graduate work at Illinois. Steinmetz's electrical engineering books. Helped proof read them at Schenectady.
- 266-314 Steinmetz's versatility. Consel to Schaller on graduate work. Thesis work at Schenectady. Steinmetz's contributions, lightning experiments. Transmission lines. Robinson, Peak.
- 315-329 Measurements. Study of transients and shape of peaks. Data used in equipment design.
- 330-342 Berg sent students to Schenectady. Good representation from University of Illinois. Chandler Prince became a General Electric Co. vice president.
- 343-353 W.L. Abbott and Peter Junkersfeld. Commonwealth Edison used G.E. turbines. Steam path through the turbine was worked out mathematically by Berg and Steinmetz.
- 354-364 History of science and technology.

Course Notes, 1909-1912

Physics 4. Electrical and Magnetic Measurements, ca. 1909

Box 3:

Course Notes, 1909-1912

Mechanical Engineering 23. Steam Engineering, ca. 1909

Alternating Current Laboratory Notes inc. lists of A.C. and D.C. Laboratory Experiments, 1909

Testing Engineering 14. Elementary Alternating Currents- Bryant, 1909

Testing Engineering 15. Transmission and Distribution, 1909

Electrical Engineering 33. Design- Prof. Waldo, 1909

Electrical Engineering 17. Advanced Alternating Currents- Dr. Ernst Berg, 2/1910

Mechanical Engineering 13. Laboratory, 1-2/1912

Testing Engineer, General Electric Co. Charles P. Steinmetz, 1909

Mathematics- Dr. Crathorne, 9/1911

Mechanical Engineering 114. Dynamics of Machinery- Prof. Goodenough, 9/1911

Instruments- Prof. Brooks, 10/1911

Electrical Engineering 101. Alternating Currents. Berg and Brooks, 1911

Electrical Engineering 108. Power Plant. Central Station Economics. Berg, 1911-12

Electrical Engineering 107. Thermodynamics- Prof. Goodenough, 9/1911-5/1912