

**Bethlehem Steel - Martin F. Schaffer Collection**

**Accession Number: 2002.109**

**Box 1**

**Folder:**

1. Miscellaneous papers including: "Electrical Engineering Pocket Handbook," Westinghouse notes and data, Methods-Systems and Procedures notepad, Bethlehem Steel club yearbook, notice of entitlement, constitution and by-laws of B.S co. certificate, correspondence, pamphlets, newspaper clippings of obituaries, 1946-1994 (2002.109.001)
2. Prints, negatives, correspondence, newspaper clippings, and monthly publication: "Ideas on Liberty," 1920's-2001 (2002.109.002)
3. Bethlehem Steel co. retirement, history, and medical plan, 1972-1984 (2002.109.003)
4. Basic electricity test, complete safety production certificate, "Morning Call" newspaper story, memos, grant application form, newspaper clippings, obituaries pamphlet on life insurance, newsletter-"Steel Scene", photo-steel management in action, "The Bethlehem Star," 1968-1996 (2002.109.004)
5. Wire rope-books, pamphlets, and guides, 1968-1975 (2002.109.005)
6. Wire rope-books, pamphlets, and guides, 1968-1975 (2002.109.006)
7. Instruction booklet, high strength bolting, hand tools information, c. 1950-1974 (2002.109.007)
8. Security systems & equipment, c. 1980 (2002.109.008)
9. Dumb waiter problem & solution, time delay-low voltage protection solution, 1971-1978 (2002.109.009)
10. Bethlehem steel company sheets for reserve, 1974 (2002.109.010)
11. "Transistors Programmed: The Bureau of Naval Personnel", (book) June 1, 1964 (2002.109.011)
12. School training correspondence, 1966-1970 (2002.109.012)

**National Canal Museum Archives**  
**Delaware & Lehigh National Heritage Corridor**  
**2750 Hugh Moore Park Road, Easton PA 18042**  
**610-923-3548 x237 – [archives@delawareandlehigh.org](mailto:archives@delawareandlehigh.org)**

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13. "Electrical Fundamentals Direct Current" (book), June 1951 (2002.109.013)
14. Direct current motor control theory the shunt motor (training aid in the electrical trainee program), June 1970 (2002.109.014)
15. "Measurements and Control" newsletter, c. 1978 (2002.109.015)
16. Technical manual-300kw DC/AC AC/DC "Motor-Generator & Associated Control Equipment" (book), May 1958 (2002.109.016)
17. Magnetic amplifier theory fundamentals, #1, 2, & 3 (2002.109.017)
18. Industrial Control Relays and Magnetic Contractors (book), The Amplidyne Characteristics & Technical Data (book), Bethlehem Plant Electronic Repairman Apprentice Program (book), GE Instruction Manuals on D-C Magnetic Crane Controllers, How to Interpret & Construct Electrical Schematic Diagrams (book), service bulletin and maintenance instructions, 1962-1974 (2002.109.018)
19. Cutler-hammer magnetic shoe brake springs, 1971 (2002.109.019)
20. Clark brake pins and springs, 1966-1971 (2002.109.020)
21. Wadkin DWG for carpenter shop milling machine, 1978 (2002.109.021)
22. List of repair parts, revisions, 20/10 ton boat and aircraft crane, LPD 15 USS Ponce, January 24, 1972 (2002.109.022)
23. EC&M brake pins and springs, 1971 (2002.109.023)
24. Correspondence, notes, & meetings related to B.S. company, 1979-1980 (2002.109.024)
25. Floor plans, diagrams, correspondence, notes related to B.S. company c. 1979 (2002.109.025)
26. Correspondence, 1978 (2002.109.026)
27. Correspondence, 1976-1977. (2002.109.027)
28. Photos of A.B. Homer who served on submarine during WWI on the AA-1, April

- 21, 1987. (2002.109.028)
29. History of Bethlehem Steel company shipbuilding and ship repairing activities, May 1963 (2002.109.029)
30. Electrical and crane repair sick club, 1957-1976. (2002.109.030)
31. DC museum submarines and correspondence, 1981-1984 (2002.109.031)
32. Bethlehem steel plant and newspaper clipping, 2001. (2002.109.032)
33. Bethlehem steel company roster, 1976-1980. (2002.109.033)
34. Summary of Bethlehem steel company material, April 20, 1997. (2002.109.034)
35. Submarines-Halstead's whale, crane inspection data, Willard Park, submarine stories, xeroxed copies of submarine photos, Washington, D.C. Navy Yard, May 14, 1981. (2002.109.035)

**Box 2:**

**Folder**

1. Direct current motor control theory, April-May 1970 (2002.109.036)
2. Power amplifier, 3 copies, May 1970 (2002.109.037)
3. Direct current motor control theory sent to Schwab Library, correspondence. "The Quick and Easy Slide Rule Instruction Book," pamphlet, "Simple Instructions for Using the Manheim Type Slide Rule," pamphlet (2002.109.038)
4. Bethlehem steel company insurance/lunches, 1989-1991(2002.109.039)
5. Euclid: Manufacturers of Engineered Industrial Control Equipment (binder), c. 1960 (2002.109.040)
6. Programmed learning cranes section IV, DC crane control, c. 1965 (2002.109.041)
7. Miscellaneous papers, photos, correspondence, 1965-1975 (2002.109.042)
8. Telephone directories-general offices of Bethlehem Steel, Dec. 1979, March

1984 (2002.109.043)

9. Supervisory safety manuals (2002.109.044)

10. Loose Materials in Box 2:

- Five programmed math texts #1 thru 5 developed by Martin Schaffer (2 copies), May 14, 1979 (2002.109.045-2002.109.054)
- “Methods Improvement Program notebook” contains phone numbers, meetings, dates, (7 copies) 1968-1981 (2002.109.055-2002.109.061)
- Programmed learning cranes sections 1, 2 & 3, 1963. (2002.109.062-2002.109.064)
- Electrical school trainers second course, July 1968-Nov. 1970 (2002.109.065)

### **Box 3**

#### **Folder**

1. Amplidyne-rough notes and one complete copy, May 1970 (2002.109.066)
2. Spare parts inventory electrical, (7 copies), 1973 (2002.109.067)
3. Drawings on graph paper, photo, 1983 (2002.109.068)
4. Magnetic Amplifier Theory Course- notes and papers, 1968 (2002.109.069)
5. Magnetic Amplifier Theory #1, 2, & 3 (2002.109.070)
6. Various telephone directories, May 1965-September 1987 (2002.109.071)
7. Promotional pictorial/historical booklet on Bethlehem Steel: “Recollections. In Celebration of 75 Years,” (4 copies), September 1979 (2002.109.072)
8. Lehigh Alumni Bulletin, Winter 1984 (2002.109.073)
9. Bethlehem Steel Annual Report, 1981 (2002.109.074)
11. D.C. Crane Hoist Control, Part I & 2 (2002.109.075)
12. Lesson Plan, March 1973 (2002.109.076)

13. D.C. Motor Control, transparencies, text (2002.109.077)
14. Bethlehem Steel letterhead (2002.109.078)
15. Dupont programmed instructions, various papers, 1968 (2002.109.079)
16. Binder: Bethlehem Steel

#### **Box 4**

##### **Artifacts:**

- Slide rule (2)
- Bethlehem Steel bookmark
- Bethlehem Steel sticker
- Section of a steel eye beam made into a book end
- Music record-The Bethlehem Steel plant, Feb. 1, 1958
- Bell-from discarded overhead light fixtures at Bethlehem Steel, 1980
- Plastic graphs (2)
- Electrical control standards
- Electrical symbols
- Blue prints/tracing paper
- Tracing paper, US Submarine Veterans drawings
- Graph paper
- Metric System poster (2 copies)
- Calendar poster, 1976
- Drafting paper

- Diagrams, notes, graphs, papers
- Diagram of #2 machine shop
- N/S Magnetic Analysis instrument

**Other: Slides**

- Bethlehem Steel Company Slides (2002.109.080-.211)

Addendum to collection, June 21, 2002