

Finding Aid
and
Guide

Ensign-Bickford Collection

Archives
Simsbury Free Library

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2001

FINDING AID AND GUIDE TO THE ENSIGN-BICKFORD COLLECTION

Historical and personal papers, ledgers, and scrapbooks and bound material.

ENSIGN -BICKFORD COLLECTION

The majority of this collection was donated by the Ensign-Bickford company in the summer of 1998. Additional material was received in the spring of 2000.

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 Flood Damage to EB Plants
 Simsbury and Avon (Flood in Aug. 1955)
 Report dated 14 Oct. 1955
- BOX 253** **Report(s)**
 Production standards ca 1928-ca 1932
- BOX 254** **Report(s)**
 Spanish Top Management Seminars
 J.E. Ellsworth April 1959
- BOX 255** **Report (s)**
 Technical Conference Detonating Card & Blasting Accessories
 Simsbury 1969
- BOX 256** **Sales** 1 May 1912-29 May 1914
 Sales 1 June 1914-1 May 1916
- BOX 257** **Sales** 1 May 1916-31 Dec. 1917
 Sales 1 Jan. 1918-29 May 1920
- BOX 258** **Sales** 2 June 1920-30 Dec. 1922

***note: gap here- go to Section 6 -Scrapbooks Boxes 259-278**

- BOX 279** **Shipments**
 Fuse Book 1 Jan. 1914-31 Dec. 1914

BOX 280

Shipments

Fuse Book 1 Jan. 1915-2 Feb. 1916

BOX 281

Shipments

Fuse Book (Sales) Avon
1918-1937 (Mar. only)

BOX 282

Shipments

Fuse Book Climax Fuse Co. 15 May 1907-20 Sept. 1917

BOX 295

Traffic Department

Shipping Order Info ca 1930's-ca 1940's
(some earlier date)

BOX 296

Trial Balance

The Metallic Cap. Manufacturing Co.
1896, 1900, 1901, 1902, 1903

BOX 297

Trial Balance & Balance Sheets

The Climax Fuse Company 1 Feb. 1902-1 Jan 1904

SECTION 15

PHOTOGRAPHIC MATERIAL

BOX 207 **Photographic Material 1**

Negatives

Manufacturing Plants, Simsbury, 1955, Flood and Misc.

Envelope 1 Negatives Ensign-Bickford Company
1955 Flood, Misc. (12 negatives)

Envelope 2 Negatives Ensign-Bickford Company
1955 Flood, Misc. (12 negatives)

Envelope 3 Negatives Ensign-Bickford Company
1955 Flood, Misc. (12 negatives)

Envelope 4 Negatives Ensign-Bickford Company
1955 Flood, Misc. (12 Negatives)

BOX 208 **Photographic Material 2**

Photographs

Ceremony, University of Hartford, 29 March 1979
Ellsworth Centre

Dedication Ceremony April 12, 1979

BOX 208-PH2 1-2-12 Proof sheet (18 shots) (8X10 inches)

Photo of R.E. Darling, Stephen Joel Trachtenberg (University of Hartford), and John E. Ellsworth (5X7 inches)

- 2-2. Photo of Stephen Joel Trachtenberg, John E. Ellsworth and unknown (5X7 inches)
- 2-3. Group shot with John E. Ellsworth (5X7 inches)
- 2-4. Group shot with John E. Ellsworth (5X7 inches)
- 2-5. Ellsworth Family (5X7 inches)
- 2-6. Ellsworth Family, different pose (5X7 inches)
- 2-7. Group shot with Mr. & Mrs. Ellsworth and unknown (5X7 inches)
- 2-8. Mr. & Mrs. Ellsworth and 2 other people (5X7 inches)
- 2-9. John E. Ellsworth and Stephen Joel Trachtenberg (5X7 inches)

- 2-10. John E. Ellsworth and Stephen Joel Trachtenberg (5X7 inches)
- 2-11. Newspaper article Farmington Valley Herald, April 12, 1979 describing ceremony (8 ½ X7 inches)
- 2-12. Newspaper article Farmington Valley Herald, April 12, 1979 Describing ceremony (8 ½ X7 inches)

BOX 209 Photographic Material 3

Photographs
 Ceremony "E" Award (Army/Navy)
 28Jan.1944

BOX 209 PH3-3-1 R.E. Darling, Vice President and Secretary; Lt.R.B.Warren; J.K.Brandon, Executive Vice President; Lt. Paul Hamilton; Lt. Colonel Samuel G. Neff; Lt. Commander Raymond T. Fish; Captain L.P.LeTourneau; J.E.Ellsworth, Vice President and Treasurer (missing)

- 3-2. Band parading to tent on office lawn down Hopmeadow Street (8 1/8X10 inches)
- 3-3. Band (8 1/8X10inches)
- 3-4. Band (8 1/8X10 inches)
- 3-5. J.R.Whitehead, Superintendent; and Pauline Bonczek, Jute Mill Employee (missing)

BOX 210 Photographic Material 4

Photographs
 Manufacturing Plants
 Louviers Plant
 Louviers, Colorado
 1968 (in album)
 All 5 x 7
 *Denotes missing picture

BOX 210 PH4 4-1 -4-30

- 4-1. The Plant of the Ensign-Bickford Company at Louviers, Colorado, is located on rolling prairie land. There is an imposing hill to the South, from which pictures

- 4-2.** 1,2,and 3 were taken to show the panorama, looking from North to East. In the far
- 4-3.** Background may be seen the smokestack and some of the buildings of the dynamite factory of E.Idu Pont de Nemours & Company, and some of the trees in LouviersVillage.
- *4-4.** Pictures 4,5, and 6 show three views of the Office exterior.
- 4-6.** Number 4 shows the East view, or front of the office. Number 5 shows the North exposure, with the doors from the employee room leading outside to the patio and Number 6 shows the South wall adjacent to the parking lot.
- 4-7-11.** Interior of the office is illustrated by pictures 7 to 11 all-inclusive
- *9** Number 7 shows the Plant Manager's office, Number 8, the Western Sales Manager's office and 9, 10, and 11 show the general office and part of the fileroom.
- 4-12.** Pentaeryhritetranite used in the process is stored in barricaded
- 4-13.** Magazines. These are shown in picture 12, and the service docks near these
- 4-14.** Magazines are shown in pictures 13 and 14.
- 4-15.** The first process building is covered with earth. This is called the bottling building, and is shown by picture 15.
- *4-16** Next in the process is Core Production, shown by pictures 16 and 17.
- *4-17.**
- 4-18.** The Extruder Building is shown by picture 18.
- 4-19.** Picture Number 19 shows the exterior of the Refining Building, with the covered runway showing in the foreground. These runways connect all of the manufacturing buildings. The North and East sides are shown by picture
- 4-20.** Number 20.
- 4-21.** To prevent accumulations of large quantities of work in any one part of the plant, in-plant storage rooms are provided. One of these rooms, of magazine construction, is shown by picture number 21.
- 4-22.** The Countering and Finishing Building is situated between the parking lot and the

- 4-23. rest of the manufacturing complex. The West side of the building is shown in picture Number 22, and the East, or dockside, by picture 23. This building has
- 4-24. a high ceiling to accommodate large finishing wheels, picture 24.
- 4-25. There is a number of auxiliary buildings serving the production facilities.
Picture Number 25 shows one end of the Raw Material Warehouse, with a delivery being made by Castle Rock Transportation Company. The company van is also shown.
- 4-26. Picture Number 26 shows the truck garage, boiler house, and machine shop,
all housed in one structure.
- 4-27. The Laboratory and Explosives Testing Building are shown in Picture
Number 27. The red flag indicates that work is being done in the building that warrants caution in approaching.
- 4-28. Three finished Goods Warehouses are shown in picture Number 28.
These buildings are removed some distance from the rest of the plant, and two of
- 4-29. them were the first built (1959) in the construction of the Louviers Plant. The third warehouse, built in 1967, is shown by picture Number 29.
- 4-30. Fire protection of the plant afforded by an automatic sprinkler system.
Picture 20 shows the Pump House, housing the engine-driven fire pumps, which obtain water from an artificial pond. This building also contains the wellhead for supplying water not only to this pond, but also to an underground reservoir for use in the office and plant.

BOX 211 Photographic Material 5

Photographs

Blasting Scenes, Manufacturing scenes and sites, some used for advertising

BOX 211-PH5-5-1 Mountain strung wired for blast with three on platform
(3 ½ X 5 ¼ inches)

- 5-2. Mining scene with wagons (9 ½ X 6 ¾ inches)
5-3. Mining scene with wagons (9 ½ X 6 ¾ inches)
5-4. Blast site as happened (9 ½ X 6 ¾ inches)
5-5. Blast site aftermath (9 ½ X 6 ¾ inches)

- 5-6. Blast site
- 5-7. Blast site as happened (9 ½ X6 ¾ inches)
- 5-8. Rail tracks, blasting smoke in background, Kutztown, PA. (torn) (8X10 ¼ inches)
- 5-9. California Trojan Powder Company (on back) (8X10 inches)
- 5-10. Derrick (2 5/8X4 ¼ inches)
- 5-11. Workers (2 5/8X4 ¼ inches)
- 5-12. Plant (2 5/8X4 ¼ inches)
- 5-13. Bridge at mining site (7 ¾ X6 ¼ inches)
- 5-14. Blasting scene (5X7 inches)
- 5-15. Mining site (8X10 inches)
- 5-16. Rail car (8X10 inches)
- 5-17. Quarry scene, snow machinery (haze blasting) (8X10 inches)
- 5-18. Quarry scene, snow, blasting (8X10 inches)
- 5-19. Rail cars at quarry (3 ¼ X5 ½ inches)
- 5-20. Workers laying Cordeau in snow (8X10 inches)
- 5-21. Rail lines at quarry (8X10 inches)

BOX 212-PH6-6-1 Boxed Clover Fuse on unknown loading platform dev. 1912

- 6-2. Boxed Clover Fuse on unknown loading platform dev. 1912 (3X4 ¾ inches)
- 6-3. Boxed Clover Fuse on unknown loading platform dev. 1912 (3X4 ¾ inches)
- 6-4. Wooden shipping case w/roll of Cordeau and Cordeau along side (3X4 ¾ inches)
- 6-5. Wooden shipping case w/roll of Cordeau and Cordeau along side (3X4 ¾ inches)
- 6-6. Reels of unknown Cordeau/Clover label at 5 o'clock (3X4 ¾ inches)
- 6-7. Reels of unknown Cordeau/Clover label at 5 o'clock (3X4 ¾ inches)
- 6-8. Reels of unknown Cordeau/Clover label at 5 o'clock (3X4 ¾ inches)
- 6-9. Reels of unknown Cordeau/Clover label at 5 o'clock (3X4 ¾ inches)
- 6-10. Reels of unknown Cordeau/Clover label at 11 o'clock (3X4 ¾ inches)
- 6-11. Reels of unknown Cordeau/Clover label at 11 o'clock (3X4 ¾ inches)
- 6-12. Reels of unknown Cordeau/Clover label at 11 o'clock (3X4 ¾ inches)
- 6-13. Reels of unknown Cordeau/Clover label at 11 o'clock

- (3X4 ¾ inches)
- 6-14. Reel of Clover brand with labeled carton
 - 6-15. Reel of Clover brand not identified to above
 - 6-16. Du Pont connector (tentative ID)
 - 6-17. Du Pont concrete mold for above
 - 6-18. Bench Fuse Cutter box (tentative ID)
 - 6-19. Bench Fuse Cutter box, side view (3X4 ¾ inches)
 - 6-20. Bench Fuse Cutter box, from above shows pliers(3X4 ¾ inches)
 - 6-21. Cordeau Bickford detonating fuse (3X4 ¾ inches)
 - 6-22. Cordeau Bickford detonating fuse (3X4 ¾ inches)
 - 6-23. Cordeau Bickford detonating fuse (3X4 ¾ inches)
 - 6-24. Cordeau Bickford detonating fuse (3X4 ¾ inches)
 - 6-25. Hot wire lighter (3X4 ¾ inches)
 - 6-26. Hot wire lighter, different view (3X4 ¾ inches)
 - 6-27. Pull wire lighter (3X4 ¾ inches)
 - 6-28. Pull wire lighter, different from above (3X4 ¾ inches)
 - 6-29. Reel of Cordeau (7 ¾ X10 inches)
 - 6-30. Fuel Igniting Device (7 ¾ X10 inches)

BOX 213 **Photographic Material 7**

Photographs

Ceremonies, Long Service Awards

“E” Award (Army/Navy), 16 Oct.1946

- BOX 213-PH7-7-1.** Service Awards, 1946, Thirty five and Forty Year Service Awards
16 Oct.1946, taken in front of the shipping room. (8X10 ¼ inches)
1st Row (seated) Left to Right: H.E.Ellsworth, Lena Brown, Frank Zablocki, Mary Halagan, Max Zeidler, Annie Prowe, George Connor, Robert Brown, Charles E. Curtiss II.

2nd Row, Left to Right: Thomas Quinn, Leonard B. Miller, Charles Halagan, Leonard Edgerton, John O’Meara, Leon Edgerton, Clarence J. Monks, Charles A. Buerman, Arthur N. Tuller.

- 7-2. Luncheon for Forty and Fifty Year Service Awards
16 Oct.1946, Recipients and Guests at Joseph Toy Building, EBCO, Shown Left to Right: Mrs. Charles Fletcher, Charles Fletcher (who received his Fifty Year Award), Mrs. J. Kell Brandon, and Mr. Brandon, President of EBCO. (8X10 ¼ inches)
- 7-3. “E”Award Ceremony 16 Oct. 1946, Michael G. Bickford Smith

- 7-4. "E" Award Army-Navy "E" Plaque, view of guests gathered under tent: Pat Cleary, Lena Brown, George Soule, John Zablocki, Bryon Miller, Leonard Miller ((8X10 1/8 inches)
- 7-5. "E" Award Ceremony, some names on back: R.E.Darling, Charles Halagan, Patrick Cleary (8X10 1/8 inches)
- 7-6. Marjorie Shaw accepting "Plaque" for Simsbury employees, George Brown accepting "Plaque" for Avon employees
- 7-7. "E" Award Plaque (8 ½ X11 inches)
- 7-8. "E" Award Plaque. S.S. Ellsworth, George Kennedy (?). Seated at back: R. Darling, H.E. Ellsworth, J.E. Ellsworth, Michael Bickford-Smith (England), Marjorie Shaw, George Brown
- 7-9. 1946 Fifty-Year Service Award to Charles Fletcher from H.E.Ellsworth (banjo clock) Left to Right: J.K.Brandon, R. Darling, J.E.Ellsworth, Michael G. Bickford-Smith, S.S. Ellsworth (X10 3/8 inches)
- 7-10. View at Joseph Toy Building following presentation of Long Service Awards, Forty and Fifty Years. Unveiling of Army/Navy "E" Award, 16 Oct. 1946. (8X10 3/8 inches)

Table One at left (clockwise) Clarence Monk, John O'Meara, Robert Irving, Peter Babb, John D. Rich, Mrs. John D. Rich, Ralph E. Merritt, Frank Zablocki, John Chalmers, Mrs. George O'Connor, George O'Connor, Robert E. Darling, Hester Zeidler, Max Zeidler, Grace and John Ellsworth, Bertha Prokopec, Annie Prowe, and James Toomey.

Table Two: Arthur Tuller, Mrs. Arthur Tuller, Mrs. Charles E. Curtiss, Charles E. Curtiss, unknown, unknown, Michael Bickford-Smith, Mrs. Charles Fletcher, Charles Fletcher, Mrs. J.K. Brandon, Arthur Hill, Elwyn Jones, Charles Halagan, Mary Halagan, Stoughton S. Ellsworth, Mrs. Henry E. Ellsworth, Henry E. Ellsworth.

Table Three starting at head of table at rear: J.Kell Brandon, Leonard Edgerton, Leon Edgerton, James Finlayson, Chester D. Thompson, Robert Brown, Schuyler Wardwell, Bryon Miller, Leonard Miller, Mrs. W.F. Hamilton, W.F. Hamilton.

- 7-11. J.K.Brandon on platform (8X10 1/8 inches)
- 7-12. Group of Fifteen Year Award Recipients, 1946. (7 ½ X9 ½ inches)

First Row, Left to Right: Leonard Plude, Sr., Michael Zacchera, Ernest Hall, Sr., Lawrence C. Stanley, Joseph Hanley, Ernest Waters, Thomas Crowley, George Soule, George Kubic, James R.

Toomey, John E. Ellsworth, Louis Trocchi, Peter Semal, Robert Darling.

Second Row, Left to Right: Susan Barnett, Anna Holcombe, Katherine Curtiss (Grosso), Alta C. Cifford, Leona R. Weir, Marjorie L. Shaw, Eva Patenaude, Annie Miller, Rose Zigas, Anna Smith (Boyarchuck), Mary Nazarsky, Margaret K. Novitsky, Jennie Trocchi, Pasqualina (Lena) Parenti.

Third Row, Left to Right: John Zaugg, W. Floyd Hamilton, John (Jack) Johnson, Peter Puchka, Victor Slavis, Walter Kurmaski, Norman Nicholson, Thomas F. Stenhouse, John G. Barney, Edward Goddard, Oland Peters, J.Frank Bryne, William Minahan, Joseph Boyarchuck, Everett Allshouse, Angelo Salvatore, Rudolph Honerlah, Carmela Kucera, Ernest Plude, Sr., Theresa J. Campagnari, Thomas G. Stenhouse, Louise Vedovelli, Charles Ames, Sr., Speranza Tarca (Bogino), Harold Quick, Mary Cafro, Ruth Temperelli, George R. Smith, Perina Salvatore (Kohan), Caroline Cylkowski, Joseph A. Bay, Sr., George Yitznisky, William Peloubet

BOX 214

PHOTOGRAPIC MATERIAL 8

PH8 8-1 - 8-18

Photographs of Employees, Management, Office, Factory

- PH8**
- 8-1.** George J. Smith
 - 8-2** Huntington Club
 - 8-3.** Simsbury Club Basketball Team 1911-12
 - 8-4.** Basketball N.D. S. Club 1911
 - 8-5.** Worker Guys. T. Quinn 1911
 - 8-6.** Charles Graven (Mrs. Max Zeidler's father), Charles Fletcher, Richard Curtiss, Leonard Miller, Edwin Jones, Edward Quinn ca. 1916
 - 8-7.** Charles Graves, Richard Curtiss, Edwin Jones, Edward Quinn, Charles Fletcher
 - 8-8.** See 8-6
 - 8-9.** Walter James Morris, Nat'l Fuse & Powder, Co. Pres. 1936
 - 8-10.** Group photo
 - 8-11.** Supervisor's Group 1936
 - 8-12.** Office Group
J.D. Rich, S.S. Ellsworth, Charles W.F. Hamilton, R.E. Darling, J.E. Ellsworth, Fritz Nelson, A.L. Hill, F.D. Houghton, C.D. Thompson, John Chalmers, Leona Weir, Robert Darling, D.E. Pearsol, H.E. Ellsworth, Bob Irving, P.A. Bobb, Alta Clifford
 - 8-13.** AMA Clinic
 - 8-14.** Pablo Basalduá, Sales Manager, Altos
 - 8-15.** Altos Hornos de Vizcaya, J.E.E. Alberto bañez (Technical Director)

Union Quimica del Norte de España, SA, Gabriel Chávarri Director of Industries. Quimicasda, Luchana.

8-16. Views

8-17. Views

8-18. Awards Ceremony

Raymer B. Cassady, Gary French, Martin Agronsky, John E. Ellsworth, Robert D. Kilpatrick, Charles Zimmerman, John C. Regan, John G. Martin

BOX 215 **PHOTOGRAPHIC MATERIAL 9** **PH9 9-1 - 9-29**

Photographs

Manufacturing Plants

Simsbury Fuse Factory

RE: Atlanta Law Case 5112, 1956

BOX 216 **PHOTOGRAPHIC MATERIAL 10**

Photographs

Ceremonies, Long Service Awards

27th. Sept. 1961

125th. Anniversary, 7 Oct. 1961

BOX 217 **PHOTOGRAPHIC MATERIAL 11** **PH11 11 -1 -11-7**

Photographs

Manufacturing Plants

Simsbury Site

Belden Distillery & its Destruction

11-1. Old Belden Distillery

11-2. Old Belden Distillery

11-3. Old Belden Distillery

11-4. Destruction of "Old Gin Mill" Belden Estate

11-5. Destruction of "Old Gin Mill" Belden Estate

11-6. Old Grist Mill Dam at Mill Road after 1955 Flood

11-7. Destruction of "Old Gin Mill" Belden Estate

BOX 218 **PHOTOGRAPHIC MATERIAL 12** **PH12 12-1 -12-13**

Photographs

Manufacturing Plants

Avon

12-1 Climax Fuse Co., Avon-View from upper end near Route 44

12-2. Office and Power House, Ensign Bickford Co., Avon

12-3. Main Entrance, Climax Fuse Factory, Avon (1920?)

12-4. Main Entrance, Climax Fuse Factory, Avon (1920?)

- 12-5. Railroad Track and Section House Ensign Bickford Co., Avon
- 12-6. Dam and Pond, Ensign Bickford, Avon view includes Machine Shop
Boiler room, Burning House, and Asphalt Platform (1920?)
- 12-7. Aerial View. Ensign Bickford, Avon (28 Oct. 1940)
- 12-8. Aerial View, Ensign Bickford, Avon (28 Oct. 1940)
- 12-9. Dam and Pond, Boiler Room-chimney Recreation Room along
Climax Heights Road (1920)
- 12-10. Aerial View, Ensign Bickford, Avon (May 1931)
- 12-11. Aerial View, Ensign Bickford, Avon (ca 1940)
- 12-12. Aerial View, Ensign Bickford, Avon (ca 1940)
- 12-13. Aerial View, Ensign Bickford, Avon Water Tower

BOX 219

PHOTOGRAPHIC MATERIAL 13

PH13 13-1-13-48

Photographs
 Manufacturing Plants
 Simsbury and Environs
 Photograph Album

- 13-1. Jute Mill Area
- 13-2. White Room
- 13-3. Looking west from the Coiling shop
- 13-4. Examining Room looking toward Coiling shop-Bob Brown leaning on the
rail
- 13-5. Upper Fuse Room
- 13-6. Upper Fuse Room Area
- 13-7. Countering and Finishing Room, Primacord, Simsbury Frank
Calcagni
- 13-8. Unloading fuse at White Room-Claude Rotondo
- 13-9. Assembling pull wire lighters
- 13-10. Jute card room-Florence Katzen, operator
- 13-11. Lunch hour at Joseph Toy Building
- 13-12. Lunch hour at Joseph Toy Building
- 13-13. A social gathering on the lawn at Toy building
- 13-14. Bus carrying defense workers
- 13-15. Garland C. Martin, Manager of personnel
- 13-16. Foremen
- 13-17. Managers
- 13-18. Some of the members of the "Over 40 Club"
- 13-19. E.B. Hospital Leah Quinn, Anna Topa
- 13-20. Borrowed
- 13-21. Borrowed
- 13-22. E-B houses Hazelmeadow Place
- 13-23. E-B houses Hazelmeadow Place
- 13-24. Simsbury Bank & Trust building
- 13-25. Hopmeadow St. looking north-Garland Martin walking south in front of
Simsbury Bank & Trust.

- 13-26. First Church of Christ, Simsbury
- 13-27. Saint Mary's Church, Simsbury
- 13-28. The Burning House near main entrance, Avon Plant
- 13-29. The Avon office
- 13-30. Walk beside the Brook-Avon Factory Grounds
- 13-31. Main entrance Avon factory from Avon factory office
- 13-32. Technical development institute building
- 13-33. Bulletin Board-Main entrance Avon factory
- 13-34 13-45 See 13-33.
- 13-46. Herbert McIntyre-Resident superintendent in his office, Avon Plant
- 13-47. Main St. Looking east, Avon, Ct.
- 13-48. Avon Congregational Church

BOX 220 PHOTOGRAPHIC MATERIAL 14 PH14 14-1 -14-9

Photographs
 Manufacturing Plants
 Simsbury & Environs

- 14-1. Simsbury House (1961)
- 14-2. Ensign-Bickford Employee Gardens, Simsbury
- 14-3. Fuse Room Setup Display, Simsbury
- 14-4. Frank Zablooki's House, Simsbury
- 14-5. Ensign-Bickford Houses, South Hopmeadow St. Simsbury
- 14-6. Hopmeadow St.
- 14-7. Old Danforth Office Building 1938 Hurricane, Simsbury
- 14-8. Purchasing Department Simsbury 1980
- 14-9. Ensign-Bickford Building, Simsbury Historical Society, Simsbury

BOX 221 PHOTOGRAPHIC MATERIAL 15 PH15 15-1 -15-23

Photographs (Employees in Frames)

- 1. Harry R. Ardill
- 2. Peter A. Babb
- 3. Major J.S. Bickford
- 5. J.C. Bickford-Smith
- 6. William Bickford Smith
- 7. W.N. Bickford-Smith
- 8. D.I.W. Braide
- 9. Ruben Castanon
- 10. J.B. Chalmers
- 11. Phillippe Davey
- 12. Robert Davey

13. Simon Davey
14. John S. Ellsworth
15. R.G. Erskine
16. James G. Finlayson
17. E.L. Hamilton
18. Etienne Harlé
19. Jean Harlé
20. Jean Harle
21. Arthur W. Hill
22. George Hugett
23. Robert J. Hyde

BOX 222

PHOTOGRAPHIC MATERIAL 16

PH16 16-1 -16-21

Photographs (Employees in Frames)

1. Robert F. Knott
2. Alan J. MacDonald
3. Alan S. MacKinnon
4. William MacMaster
5. Albert H. Merritt
6. James A. Merritt
7. J.B. Merritt
8. Ralph E. Merritt
9. W.J. Morris
10. Philip H. Monypenny
11. T.W. Norris
12. Lucien Ottendahl
13. A.B. Purvis (killed in summer 1941 in bomber)
14. John D. Rich
15. Thomas Ross
16. George Smith
17. Sir George Smith
18. Col. G.E.S. Smith
19. Greville Smith
20. Amy M. Terry (Plant Manager starting 9-15-47)

BOX 223

PHOTOGRAPHIC MATERIAL 17

PH17 17-1 -17-29

Photographs (Employees in Frames)

1. David J. Andrew
2. J. Kell Brandon
3. J.R. Ensign
4. Ralph H. Ensign
5. J. Frank Bryne

6. Herman J. Fonteyne
7. Jacques R. Chabrier
8. Samuel S. Fuller
9. Henry E. Chapman
10. Milton H. Glover
11. Charles E. Curtiss
12. W. Floyd Hamilton
13. Robert Darling
14. Nathaniel S. Howe
15. Robert E. Darling
16. Joseph E. Lovejoy
17. Robert E. Darling, Jr.
18. Frederick H. Lovejoy
19. C. Raymond Dodd
20. Barclay Robinson
21. Henry E. Ellsworth
22. Chester R. Seymour
23. John E. Ellsworth
24. George R. Stubblebine
25. Lemuel S. Ellsworth
26. Chester D. Thompson
27. Stoughton S. Ellsworth
28. William J. Sherman
29. Frank S. Wilson

BOX 224

PHOTOGRAPHIC MATERIAL 18

PH18 18-1 -18-21

Photographs
Manufacturing Plants

- | | | | |
|---------------|---|---------------|---------------|
| 18-1. | Coast Plant, ca 1915 | Livermore, CA | |
| 18-2. | National Fuse & Powder | Denver, CO. | Sept. 1916 |
| 18-3. | Aerial shot | | |
| 18-4. | Covering letter, Canadain Safety Fuse, Quebec, | | 29Dec. 1924 |
| 18-5. | Covering letter, DuPont, Willmington, DC | | 9April 1927 |
| 18-6. | Site referred to in 18-5. | | |
| 18-7. | Portland Point, New York Cement Mill | | 29 March 1930 |
| 18-8. | Pennsylvania Dixie Cement, Richard City, TN | | 12Apr. 1930 |
| 18-9. | Hercules Cement Corp. Stockerton, Penn. | | 13 Sept. 1930 |
| 18-10. | Thermax Corp. & N. West Magnesite Co. | | 25 Oct. 1930 |
| | Chowelah, WA | | |
| 18-11. | Cristobal Las Casas | | |
| 18-12. | Cristobal Las Casas 1932 flood | | |
| 18-13. | Ciudad Las Casas Natural entrance to the subterranean drain | | |
| 18-14. | Ciudad Las Casas-another entrance to main natural drain | | |
| 18-15. | On location | | |

- 18-16. On location
- 18-17. E-B 27 December 1969
- 18-18. Canal at Garnboal (Gamboa) 12 Sept. 1913
- 18-19. Locks at Pedro Miguel emergency gate, 13 Sept. 1913
- 18-20. Locks at Pedro Miguel
- 18-21. Drilling hole without compressed air at Balboa excavation at dry dock

BOX 225 PHOTOGRAPHIC MATERIAL 19 PH19 19-1 -19-13

Photographs

Manufacturing Plants-All Aerial Shots

Dinamita, Durango, Mexico 1941-42

C.M.E.(Compania Mexicana de Explosivis)

&

M.P.M.(Compania Mexicana de Mecha Para M

- 19-1. C.M.E. Plant center long shot
- 19-2. C.M.E. Plant background & long shot
- 19-3. M.P.M. Plant in the foreground
C.M.E.'s Dynamite lines around the mountain to the left. Beyond
M.P.M.'s water tank shown on the hill. June 1941
- 19-4. C.M.E. Plant foreground M.P.M. Plant (background at right)
- 19-5. C.M.E. Plant (foreground) M.P.M. Plant (background, at right)
- 19-6. C.M.E. Plant (foreground) M.P.M. Plant (background)
- 19-7. C.M.E. Plant (foreground) M.P.M. Plant (far right, center)
- 19-8. C.M.E. Plant Offices 2. Hospital 3. Managers Living Quarters 4.
Bachelors quarters 5. Staff houses -including M.P.M.'s-Staff Men. -
Gardens are on the far side. 6. Store 7. Market 8. Dinamita R.R. station 9.
Laborers houses in addition to the new village shown in another picture.
1941
- 19-9. C.M.E. Plant
- 19-10. New Village built by C.M.E. Some 72 houses
shower-toilet-kitchen, etc.
2 kilometers below the Plant-served by tramway-Gasoline-motor
hailed. Larger building lower left is manual Training school; other school
left center. 1941
- 19-11. The edge of M.P.M.'s storehouse-shows in extreme lower cente
- 19-12. Beginning far right of picture area: M.P.M.'s Fuse Powder Magazine and
following on down is the Fuse Plant Proper.
Taking the water tank just above the buildings. The CO's boundary comes
down to the corner of the fence line in the foreground, opposite the main
buildings on the left.
A new fuse powder magazine has been completed (May 1942)
Directly opposite the magazine shown in the extreme left, and is separated
by the Rock Hill shown in the picture.

- 19-13.** Magazine Area of C.M.E.
Broad Gauge Ky. In foreground serving Dinomita.
It is 10 kilometers from Mexico City to El Paso Texas.
Dinamita Elevation -3,700 ft.
500 miles south of El Paso, Tx.
700 miles north of Mexico City. 1941

BOX 226 PHOTOGRAPHIC MATERIAL 20

Slides-
Manufacturing
Activities (Golf)

I. Manufacturing

A. Buildings

- IA-1 Original building before additions, 1860
- IA-2. Original building before additions, 1860
- IA-3. Back of boiler room
- IA-4. TechCenter and Carpenter Shop 1956
- IA-5. Ensign-Bickford Flood 1955
- IA-6. Another view of E-B flood 1955
- IA-7. E-B Simsbury snow scenes
- IA-8. Cupola Building
- IA-9. E-B Cupola building

B. Test Sites Louviers Colorado Detonating

- IA-1. 2 men at site
- IA-2. Site-long shot
- IA-3. Site-medium long shot
- IA-4. Site-medium long shot
- IA-5. Construction
- IA-6. Construction
- IA-7. Construction
- IA-8. Construction
- IA-9. Interior finished
- IA-10. Interior finished

C. Denver Scenes

- IC-1. Skyline
- IC-2. Capital
- IC-3. Capital
- IC-4. Towers
- IC-5. Skyline and Towers

D. Canada Material

ID-1. Jute unloading, Boston

E. Powder Magazine- Moving from Avon to Simsbury

IE-1. Charles Moore-Director of Industrial Relations & Pat Lambert-President of Union

IE-2. Fuse Powder Magazine-Simsbury to Avon

IE-3. Moving Powder Magazine, Simsbury to Avon

IE-4. Moving Powder Magazine, Simsbury to Avon

IE-5. Moving Powder Magazine, Simsbury to Avon

IE-6. Avon Powder Magazine brought into Simsbury Woods (got stuck)

F. Historic Arch

IF1-IG4.

G. Primacord Detonator Storage

IG1-IG3

H. Foundation for New Powder Magazine

J. Avon Woods Uncle Tom's Cabin named for Tom Stenhouse

K. Silo in site and moved from Avon- winter 1966

IK-1. Engineer checking papers

IK-2. Sites-medium long shot

IK-3. Sites-long shot

IK-4. Silo w/frame-long shot

IK-5. Silo w/frame-long shot

IK-6. New location, ½ built

IK-7. New location, ½ built

IK-8. New location, ½ built

IK-9. Silo-new location w/onlookers-long shot

IK-10. Silo-new location w/onlookers-long shot

IK-11. Top only

L. Silo Move Fall 1969 1-20

IL-1. Silo on truck

IL-2. Silo on truck

IL-3. Silo at gate

IL-4. Silo at gate

IL-5. Truck with crane

IL-6. Truck at gate

IL-7. Truck at gate w/silo

IL-8. Crane raised truck w/silo

IL-9. Aerial shot-crane lifting support

IL-10. Silo on truck

IL-11. Silo lifted from truck

IL-12. Silo lifted from truck

- IL-13. Silo lifted from truck
- IL-14. Silo in place-crane attached
- IL-15. Silo in place-crane attached
- IL-16. Silo in place-crane attached
- IL-17. Silo lifted again
- IL-18. Silo lifted again-repositioning
- IL-19. Silo lifted again-crane attached
- IL-10. Silo in place

M. Worker Houses & Ducks

- IM-1. Water bank-long shot
- IM-2. Water bank-long shot
- IM-3. House in snow with ducks
- IM-4. House in snow with ducks
- IM-5. House in snow with ducks
- IM-6. Ducks & pond
- IM-7. Ducks on pond

II. Activities

- Golf 1965-Slides 1-26
 - Tunxis 25 (lunch and Scotch Foursome)
- Golf 1965-Slides 1-30
- Golf 1966-Slides 1-8
- Golf 1967-Slides 1-16
- Golf 1972-Slides 1-19
- Golf 1973
 1. Arnold Palmer
 2. Bob Hope
 3. Spiro Agnew
- Golf (no date)-slides 1-9
 - Scotch Foursome

BOX 234B PHOTOGRAPHIC MATERIAL 21 PH21 21-1-21-3

- 21-1. Photographs, Framed
Avon Plant, 1927
- 21-2. Fuse Cord Spinning
- 21-3. Dinamita, Mexico Plant 1940's

FLAT FILES

FLAT FILE #1

Genealogical Tables
Descendants of Joseph Toy (3 copies)

FLAT FILE #2

Certificates
1. Presidents "E" Certificates for Experts, 1962
2. The Clipper Club, PanAmerican 1969
3. The Clipper Club Travel Routes

FLAT FILE #3

Chart of Ensign-Bickford Stock
Brands of Fuse ca 1921

FLAT FILE #4

Floor Plan
Historical Room, Avon 195 (Lower Taping Room)

FLAT FILE #5

Maps
1. Map 1-Avon 1862
2. Map 2-Simsbury 1869
3. Map 3-Simsbury (Upper) ca 1730

FLAT FILE #6

Promotional Material
1. Advertisement
2. Banker's Protection Co.
3. Tracelarm Messenger Bag
from Nation's Business Feb. 1937

FLAT FILE #7

Trojan Corporation Spanish Fork, Utah (Poster with Photos)

PHOTOGRAPHS AND OTHER FRAMED ITEMS ON DISPLAY AND IN ARTRACK

1. Fr LI -1 David J. Andrew
2. Fr LI-2J J. Kell Brandon
3. Fr LI-3 J Kell Brandon 1880-1967
4. Fr LI-4 Robert Darling
5. Fr LI-5 Robert Darling 1877-1957
6. Fr LI-6 Robert Ensign Darling 1904-1969
7. Fr LI-7 Robert E. Darling Jr. (triple portrait)
8. Fr LI-8 Lemuel Stoughton Ellsworth 1840-1917
9. Fr LI-9 Henry Edwards Ellsworth 1878-1950
10. Fr LI-10 Henry E. Ellsworth
11. Fr LI-11 John E. Ellsworth
12. Fr LI-12 Joseph Ralph Ensign
13. Fr LI-13 Joseph Ralph Ensign 1868-1941
14. Fr LI-14 Ralph Hart Ensign 1834-1917
15. Fr LI-15 Walter J. Morris Denver
16. Fr LI-16 Albert Humphrey Merritt 1870-1915
17. Fr L -17 Thomas W. Morris Denver
18. Fr LI-18 George Smith
L.L.D England 1800-1868
19. Fr LI-19 Sir George J. Smith
20. Fr LI-20 G. Percy Bickford -Smith June 25, 1897
21. Fr LI-21 William Bickford (Inventor of safety fuse)
Ralph H. Ensign
L.S. Ellsworth

Joseph R. Ensign

22. Fr LI-22 Joseph E. Lovejoy (Enlargement of Original)
23. Fr LI-23 Robert E. Darling Jr. (Enlargement of Original)
24. Fr LGT-1 Descendants of Joseph Toy (genealogical table)
25. Fr LNA-1 Melrose Plant, California
Powder Magazine Explosion, July 1898
(newspaper article)

TUBES

- TUBE # 1** **Drawings #1**
War Department
Quick Match (1 blueprint) 1917
Fuse used in Rifle Grenade (1 blueprint, 1 note) 1917
Igniter Head, assembly with fuse and detonator for combination
rifle and hand grenade, experimental (1 blueprint) 1919
- TUBE # 2** **Drawings #2**
War Department
Bouchon Assembly Mark II (1 blueprint)
Bouchon Assembly (3 blueprints) 1917-1918
- TUBE # 3** **Drawings#3**
War Department
Hand Grenade, Mark I (6 blueprints, 1 sketch)
Incendiary Hand Grenade Mark I (1 blueprint)
Offensive Hand Grenade, Mark III (1 blueprint, 1 letter)
1917-1918
- TUBE # 4** **Drawings #4**
War Department
Six-Inch Newton-Stokes Trench Mortar, Mark I
Emergency Igniter, 1918 (1 blueprint)
Six Inch Trench Mortar, Shell, Mark I, Containers for misfire
and propelling charges, 1918 (1 blueprint)
Six Inch Trench Mortar, Mark I, Misfire charge
(3 blueprints, 1 letter) 1918
- TUBE # 5** **Drawings #5**
Layout, Simsbury Plant, Feb. 1906
- TUBE # 6** **Flag #1**
Army/Navy "E" Award (no star) World War II
- TUBE # 7** **Flag #2**
Army/Navy "E" Award (1star) World War II
- TUBE # 8** **Flag #3**
Army/Navy "E" Award (2 stars) World War II
- TUBE # 9** **Flag #4**
Army/Navy "E" Award (3 stars) World War II

TUBE # 10 **Flag #5**

Army/Navy "E" Award (2 stars) World War II