

Wallace & Tiernan Corporation Incorporated Corporate Materials
Stored in RIT Archives

In 1913, nearly 30,000 Americans were dying each year from typhoid fever - most as a consequence of drinking contaminated water. Within a decade, the death rate from typhoid was only 2,000 a year - a 93 percent reduction. The hundreds of thousands who, in that short time span, avoided contracting the disease owed their lives to Charles F. Wallace, the inventor of an automatic chlorinating device used by municipal utilities to purify water.

Charles Frederick Wallace was born in Kansas City, Missouri, on July 1, 1885. He spent his boyhood and adolescent years on various Army posts and in towns or cities near military installations where his father was assigned. He attended the public schools nearest his area of residence and demonstrated early in life the all-important curiosity, mechanical ability and love of the experiment which later determined his success in life. Wallace went to college at both Wooster College in Ohio and the University of Michigan in Ann Arbor but did not graduate from either.

In 1908, Wallace moved to New York where he obtained employment with the Gerard Ozone Process Company. Martin F. Tiernan, a fellow employee, and Wallace shared a room at the local YMCA. Mr. Tiernan attended the University of Rochester and then studied sanitary engineering at MIT. As assistant bacteriologist for the Pittsburgh Typhoid Fever Commission he had learned that water sterilization was the key to control of water-borne typhoid. After a few years, Wallace and Tiernan joined a second company interested in ozone treatment of water. Soon after, a change in management left the two without work.

At Tiernan's suggestion, they founded Wallace and Tiernan Incorporated in 1911. The two young engineers - not yet thirty years old - used their combined savings of \$1,800 to set up a machine shop in which Wallace constructed equipment that Tiernan would sell. In 1913, Wallace developed a machine that would automatically pipe chlorine gas into a Boonton, New Jersey stream that was polluting the Jersey City water supply. They named this device the "chlorinator". Wallace's invention was so successful that within a few years the chlorinator was being used to purify half the world's drinking water supply.

In 1914 Wallace and Tiernan Inc. installed the first successful solution-feed chlorinator at Hagerstown, MD. Over the next several years the Company grew rapidly, due mainly to Wallace's inventiveness and Tiernan's sharp business sense.

Company growth continued as new products were added to their inventory: most were equipment developed to apply chlorine gas for such purpose as controlling slime in paper mills, bleaching in laundries and textile mills. Additional products were designed for feeding both dry and liquid chemicals into the water treating process. Other products were as diverse as one of the first battery clocks for homes and offices, marine lanterns, precision pressure measurement equipment and an automatic system for bakeries which produced bread dough at a rate of 6,000 loaves per hour. In all, Charles F. Wallace was granted more than 80 patents during his career.

After forty years of working together, Tiernan reflected on their friendship and experience as business partners in a letter written to Wallace in 1952:

"Just think, you and I with so little money, no business experience, complete ignorance of the pitfalls that any business can have, to say nothing of the hazards that a new venture can meet, yet we have not only succeeded in a financial way but have built a business of worldwide honorable reputation and have done and are doing a real service for the good of our fellow man."

"It would seem that God himself was watching over us at all times and I do really believe He has rewarded us for the way we live and our love of truth and honesty and our attitude to our employees and our families."

Charles F. Wallace and Martin F. Tiernan received national recognition with the joint award of the Edward Longstreth Medal of the Franklin Institute in 1922. Wallace also received the Modern Pioneer Award of the National Association of Manufacturers in 1940 and an honorary degree of Doctor of Science from the Monmouth College in 1960. He was also a Republican and a member of the Congregational Church.

In 1914, Charles F. Wallace married Florence Murray. The two lived together in Westfield, New Jersey, for 50 years raising a family of three daughters, Jane Wallace Thorne, Barbara Wallace Cornwall and Elizabeth Wallace Sharts. Charles F. Wallace died on June 3, 1964 in Summit, New Jersey.

Charles Frederick Wallace and Florence Murray Wallace are the namesake benefactors for the Wallace Memorial Library at Rochester Institute of Technology. A graduate of the Institute's Domestic Science Department in 1907, Mrs. Wallace was also named RIT's Outstanding Alumnus of the Year in 1960. In 1954, Mr. Wallace established the Florence Murray Scholarship Fund at RIT in honor of his wife.

In 1997, Wallace and Tiernan Inc. relocated to a new custom-built, state-of-the-art facility in Vineland, NJ employing more than 150 people. Wallace and Tiernan Inc. is truly international in its operation with more than 500 employees outside of the U. S. with operating and manufacturing/business centers in Australia, Canada, England, France, Mexico, and Germany. Wallace and Tiernan Products became part of the worldwide Chemfeed and Disinfection Group of Siemens Water Technologies in August 2006. Today, Wallace and Tiernan Inc. is a world leader in chemical feed and disinfection equipment for virtually any water or wastewater treatment application.

*Biography information compiled from

- <http://www.fundfornj.org/history.html>

- <http://www.wallace-tiernan.com/>

- http://www.water.siemens.com/en/product_lines/wallace_and_tiernan_products/history/pages/default.aspx

- *A Full Life...Charles Frederick Wallace, July 1, 1885-June 3, 1964*

BOX 1

Folder 1 – Index of Board of Directors Meetings 1953-1968

-Simple bound index of board meetings held from 1953-1968

Folder 2 – Business Overview by M.D. Watson in 1946 with 1953 addend. by Jos. C. Cornwall

-Wallace and Tiernan company history

Folder 3 – Novadel-Agene Merger Information, 1953 & 1958

-Wallace and Tiernan merged with Novadel-Agene Corporation in 1953.

-Proposal of the merger to Novadel-Agene stockholders

-Merger information sent to stockholders regarding upcoming meetings

-*Agreement of Merger*

-*Certificate of Amendment of Certificate of Incorporation*

Folder 4 – Novadel-Agene Corporation Annual Reports & Notices of Meetings 1930-1953

-Auditor's reports, 1930-1936

-Annual reports and consolidated balance sheets, various years from 1930-1953

-Meeting notices

Folder 5 – Novadel-Agene Corp. and Associated Companies Survey of Properties and Businesses, September 3, 1953

-Survey overview titled *Letter Report*

-*Report (Draft)* including historical company financial information

Folder 6 – Board of Directors Meetings, Wallace and Tiernan 1928-1959

-Only the resolutions of the meetings are included, not the complete minutes

BOX 2

Folder 1 - Wallace and Tiernan Incorporated By-Laws

-By-Laws booklets for 1959 and 1968

Folder 2 - Proxy Statements: 1953, 1960-1969

-Annual Stockholders' Meeting Notices

-Booklets issued to shareholders regarding annual meetings and company mergers.

Folder 3 - Acquisition of Hills-McCanna, 1967

-*Agreement and Plan of Reorganization between Wallace & Tiernan Inc. and Hills-McCanna Company*

Folder 4 - Prospectuses for Savings and Stock Option Plans, 1966-1968

-Savings plan prospectus booklets

-Common stock prospectus booklets

Folder 5 - Strassenburgh Merger, 1960

-*Agreement between Wallace & Tiernan Inc and R.J. Strassenburgh Company*

- Merger notice to stockholders

Folder 6 - Secondary Offering of 256,000 Shares of Common Stock, 1963
-1963 prospectus for common stock

Folder 7 - Baker Process Company acquired by Wallace & Tiernan, 1957
-Memorandum about the company history
-Notice to stockholders regarding acquisition

Folder 8 - Listing Application for the New York Stock Exchange, 1959
-NYSE listing application booklet

Folder 9 - Wallace & Tiernan Annual Reports, 1953-1958
-File includes one copy of each report from that year

Folder 10 - Financial House Releases on Wallace and Tiernan
-Various reports of appreciation and long term growth for the company, 1956-1964

Folder 11 - Analysts Write-ups on Wallace and Tiernan 1956-1961
-Financial reports to investors, press clippings and various public relations information.

BOX 3

Folder 1 - Descriptive booklets about Wallace and Tiernan company, products and inventions.
-Various booklets produced in the 1950's and 1960's

Folder 2 - Publicity releases by Wallace and Tiernan from 1964-1969
-Copy of press releases sent out to shareholders and the general public.

Folder 3 - Interim reports for Wallace and Tiernan 1957-1968
-Copies of the quarterly reports sent to company shareholders

Folder 4 - Annual Reports for Wallace and Tiernan 1959-1967
-File includes copies of annual report booklets from 1959-67

Folder 5 - Information Regarding Pennwalt Corporation, 1969-1976
-Copies of company profile, prospectus, annual reports and annual meeting statements

Folder 6 - Wallace and Tiernan merger into Pennsalt Chemicals
-File includes notices sent to stockholders, copy of the bound agreement and the 1968 annual report

BOX 4 - Wallace and Tiernan Court Cases

- 1.) **United States District Court**-District of New Jersey
Herman E. Schulse and Novadel-Agene Corporation (Plaintiffs) v. Harr Kegtap System Inc., Norman Krivant, United Brewing Company, Herman H. Harr and Abner Zwillman (Defendants)
Brief for Plaintiffs, 1937

- 2.) 2 copies of **United States District Court**-For the District of New Jersey
Electro Bleaching Gas Company and Wallace & Tiernan Co., Inc. (Plaintiffs) v. Paradon Manufacturing Company, a Corporation, Richard V. Donnelly and Francis Kane (Defendants)
Plaintiff's Reply Brief, 1929-1930

- 3.) **United States District Court**-District of New Jersey
Baker Process Company (Plaintiff) v. American Machine & Foundry Company and Fischer Baking Company (Defendants)
Plaintiff's Trial Memorandum, 1962

- 4.) **United States District Court**-District of New Jersey
Baker Process Company (Plaintiff) v. American Machine & Foundry Company and Fischer Baking Company (Defendants)
Plaintiff's Proposed Supplement to Pre-trial Transcript, 1962

- 5.) **United States Circuit Court of Appeals**-For the Second Circuit
Electro Bleaching Gas Co. and Wallace & Tiernan Co., Inc. (Plaintiffs) v. Paradon Engineering Co., Inc. (Defendant)
Brief for Defendant-Appellant, 1925

- 6.) **United States Circuit Court of Appeals**-For the Second Circuit
Electro Bleaching Gas Co. and Wallace & Tiernan Co., Inc. (Plaintiffs) v. Paradon Engineering Co., Inc. (Defendant)
Brief for Plaintiffs-Appellees, 1925

- 7.) **United States Circuit Court of Appeals**-For the Second Circuit
Wallace and Tiernan Co., Inc. (Plaintiff) v. Village of Le Roy (Defendant)
Brief for Plaintiff-Appellee, 1927

- 8.) **United States District Court**-Eastern District of New York
Electro Bleaching Gas Company and Wallace & Tiernan Company, Inc. (Plaintiffs) v. Paradon Engineering Company, Inc. (Defendant)
Brief for Defendant, 1925

- 9.) 3 copies of **District Court of the United States**-District of Rhode Island
United States of America (Plaintiff) v. Wallace & Tiernan Company, Inc., et al. (Defendant)
Statement Making Against Jurisdiction of The Supreme Court of the United States, and Motion by Defendants (Appellees) to Dismiss Attempted Appeal, 1948

BOX 5 - Wallace and Tiernan Court Cases

1.) United States Circuit Court of Appeals-For the Second Circuit

Wallace & Tiernan Co., Inc. (Plaintiff) v. City of Syracuse and Electro Bleaching Gas Company (Defendants)

Transcript of Record, 1929

2.) United States Circuit Court of Appeals-For the Second Circuit

Wallace & Tiernan, Inc., (Plaintiff) v. Village of Le Roy (Defendant)

Transcript of Record, 1927

3.) New Jersey Court of Errors and Appeals

Wallace & Tiernan Co. Inc., a corporation (Complainant-Respondent) v. United States Cutlery Company, a corporation (Defendant-Appellant)

State of Case, 1925-1926

BOX 6 - Wallace and Tiernan Court Cases

1.) Superior Court of New Jersey-Appellate Division

Edward B. Shiddell (Plaintiff) v. Electro Rust-Proofing Corporation, New Jersey (Defendant)

Brief of Plaintiff-Appellant, 1953

2.) 2 copies of Superior Court of New Jersey-Appellate Division

Edward B. Shiddell (Plaintiff) v. Electro Rust-Proofing Corporation, New Jersey (Defendant)

Brief for Defendant-Respondent, 1953

3.) 2 copies of Superior Court of New Jersey-Appellate Division

Edward B. Shiddell (Plaintiff) v. Electro Rust-Proofing Corporation, New Jersey (Defendant)

Reply Brief for Plaintiff-Appellant, 1953

4.) Superior Court of New Jersey-Appellate Division

Edward B. Shiddell (Plaintiff) v. Electro Rust-Proofing Corporation, New Jersey (Defendant)

Appendix for Plaintiff-Appellant, 1953

5.) Supreme Court of New Jersey

Edward B. Shiddell (Plaintiff) v. Electro Rust-Proofing Corporation, New Jersey (Defendant)

Petition for Certification, 1953-1954

6.) Supreme Court of Missouri

Electrolytic Chlorine Co., a corporation (Plaintiff) v. Wallace & Tiernan, a corporation, Electro Bleaching Gas Company, a corporation, John A. Strang and Roger W. Pratt (Defendant)

Appellant's Abstract of the Record, 1930

7.) Supreme Court of Missouri

Electrolytic Chlorine Co., a corporation (Plaintiff) v. Wallace & Tiernan, a corporation, Electro Bleaching Gas Company, a corporation, John A. Strang and Roger W. Pratt (Defendant)

Supplement Abstract of the Record of Respondents Wallace & Tiernan Company, John A. Strang and Roger W. Pratt, c.1926

BOX 7- Wallace and Tiernan Court Cases

1.) 2 copies of **Supreme Court of the United States**

United States of America (Appellant) v. Wallace & Tiernan Company, Inc., et al. (Appellees)
Transcript of Record, Appeal from the United States District Court for the District of Rhode Island, 1946-1948

2.) 2 copies of **Supreme Court of the United States**

United States of America (Appellant) v. Wallace & Tiernan Company, Inc., et al. (Appellees)
Reply Memorandum for Appellees, 1948

3.) 2 copies of **Supreme Court of the United States**

United States of America (Appellant) v. Wallace & Tiernan Company, Inc., et al. (Appellees)
Brief for Appellees, 1948

4.) **Supreme Court of the United States**

Electro Bleaching Gas Company and Wallace & Tiernan Co., Inc. (Plaintiffs) v. Paradon Engineering Company, Inc. (Defendant)
Respondents' Reply to the Petition for Writ of Certiorari, 1926

5.) **Supreme Court of the United States**

United States of America (Appellant) v. Wallace & Tiernan Co., Inc., et al.
Appellant's Brief in Opposition to the Motion to Dismiss, 1948

6.) **Supreme Court of the United States**

United States of America (Appellant) v. Wallace & Tiernan Co., Inc., et al.
Brief for the United States, 1948

ITEMS ON SHELF, NOT LOCATED IN BOXES

3 Copies of *A Full Life...Charles Frederick Wallace, July 1, 1885-June 3, 1964*

Book material was prepared for inclusion in a volume published by the American Historical Company, Inc. in its series entitled *Encyclopedia of American Biography* to appear in 1965.

-We have 1 brown leather hardcover copy with damaged front cover and 2 hardbound copies with light blue covers.

Chlorine Control Apparatus for Water and Sewage Purification, Copyright 1919

Hardbound book discussing the chlorination process and the uses of the chlorine control apparatus invented by Charles Frederick Wallace.

Edward Longstreth Medal of Merit

-Awarded by the Franklin Institute to Charles F. Wallace for Invention in 1919

Florence Murray Wallace – On Her Seventieth Birthday

-This is a set of two large red handmade albums given to Florence by her daughters (Jane Wallace Keebler, Barbara Wallace Cornwall and Elizabeth Wallace Sharts) on April 2, 1956, Florence's seventieth birthday. They contain a collection of notes, poetry, photographs and music from close friends expressing their sentiments for Florence.

Monmouth College Doctor of Science Diploma

-Awarded to Charles Frederick Wallace in 1960 by Monmouth College, Monmouth, IL. Charles Wallace's grandfather, Reverend David Wallace, was the first president of Monmouth College.

New Jersey Inventors Congress and Hall of Fame Medal

-Awarded to Charles Wallace upon Induction into the New Jersey Inventors Hall of Fame at New Jersey Institute of Technology, 1996

"Pioneers Build America" Plaque

-Awarded to Charles Frederick Wallace, A Modern Pioneer, by the National Association of Manufacturers, c.1940?

The Life and Inventions of Charles Frederick Wallace (1885-1964)

-Two bound volumes, contents include a reprint from the *Encyclopedia of American Biography*, a copy of the program for the Nation Modern Pioneers Banquet (Feb. 27, 1940), copies of CFW extensive patents as well as an epilogue from The Fund for New Jersey. These are shelved under RIT TJ 140.W344 L5 1995.

United States District Court-Sothern District of New York

NOVADEL Process Corporation (Plaintiff) v. American Purifyne Co., Inc. (Defendant)

-This is a large hardbound book of the court case in full, c.1928

United States Circuit of Court of Appeals-Fifth Circuit

NOVADEL-Agene Corporation (Appellant) v. FREDERIC H. PENN, doing business under the name and style of SUPERLITE COMPANY (Appellee), and NOVADEL-Agene Corporation (Appellant) v. Tex-O-Kan Flour Mills Company (Appellee)

Appeals from the District Court of the United States for the Northern Districts of Texas

-This is a large hardbound book of the court cases in full, 1941

United States Circuit Court of Appeals-For the Second Circuit

Electro Bleaching Gas Company and Wallace & Tiernan Company, Inc. (Plaintiffs) v. Paradon Engineering Company, Inc. (Defendant)

-This is a large hardbound book with a worn spine containing the court case in full.

United States Circuit Court of Appeals-Eighth Circuit

William G. Miller, Minnie Miller, Administratrix of the Estate of William G. Miller, and Clarence M. Hardenbergh (Appellants) v. Electro Bleaching Gas Company (Appellee)

-This is a hardbound containing the 1929 court case appeal records and briefs.

United States Circuit Court of Appeals-For the Second Circuit

Wallace & Tiernan Co., Inc. (Plaintiff) v. Village of Le Roy (Defendant)

-Hardbound collection of the court case's briefs

United States Circuit Court of Appeals-Eighth Circuit

William G. Miller, Minnie Miller, Administratrix of the Estate of William G. Miller, and Clarence M. Hardenbergh (Appellants) v. Electro Bleaching Gas Company (Appellee)

Appeal from the District Court of the United States for the Western Division of the Western District of Missouri, Appellants' Brief, 1921

Wallace & Tiernan 40th Anniversary, 1953

This is a smaller brown photo album containing 8x10 photographs of the 40th anniversary celebration. Notable people in attendance are John C. Baker, Maude Baker, Joseph Mancuso, Florence B. Merckel, Frederick G. Merckel, Marie F. Orchard, William J. Orchard, Gerald D. Peet, Martin F. Tiernan, Pucell C. Tiernan, Florence M. Wallace, Charles Frederick Wallace, and Loren N. Wood.

Wallace & Tiernan 45th Anniversary

This is a hardbound album produced by the Wallace family to commemorate the 45th anniversary of Wallace & Tiernan. Inside are glued in photographs and loose sheets containing short biographies that document the history of the Wallace & Tiernan Company and its invaluable employees. The album ends with photographs of each Wallace & Tiernan division building and a newspaper article from 1964 regarding the company's success.

Wallace & Tiernan in World War II, November 13, 1943

This volume commemorates Wallace & Tiernan's contribution to the cause of victory of World War II. It is one of two copies (the other awarded to Tiernan) awarded to the business founders by their employees. These volumes span a time period from October 1940 to October 1943 and were kept confidential until "peace is declared".

-Included inside the back cover was a loose painting of the W & T logo surrounded by depictions of thriving science, industry, innovation and technology. Should this be catalogued separately or as a part of the WWII volume?

In front of RIT TJ 140W344 on Wallace and Tiernan is a letter noting that the following items were given to the university, however at this time they cannot be located:

Certificate of Induction of CFW into New Jersey Innovators Hall of Fame
Hall of Fame Awards Banquet Program