

**Box 14. Collection of Rev. James J. Ruddick, S.J.
Austin C(lement)McTigue, Ph. D. papers
February 1, 1898 -February 6, 1974(10 folders)**

Scope note: Austin C. McTigue, Ph.D. was a celebrated scientist who had a long history with Canisius College, Buffalo, New York. He graduated from Canisius in 1920, was head of the Physics department from 1940-1959, and taught at the college for 51 years.

His achievements include: his founding of the Western New York section of the Nondestructive Testing Society; becoming the leader of the Erie County Civil Defense organization's Radiological Service; and the development of the "direction finder for an atomic bomb cloud", a device that would help save lives in an atomic attack.

From 1941 forward, Dr. Mc Tigue consistently kept notes on his thoughts related to nuclear testing and armament. He was also called upon by the government to be an observer at the government atomic test site in Nevada in 1957. This collection contains notes, and images of his participation at that testing.

Dr. McTigue's influence and abilities were often rewarded. In 1943 he received the LaSalle Medal for outstanding alumnus, in 1955 he received the Bene Merenti Medal for teaching and in 1963 he was honored by Beta Beta Beta, a college biology honor society, for his contributions to Canisius College as well as his excellence as a teacher.

McTigue directed the Braun Seismographic Station at the college for thirty-years, Having been taught by the founder of the station, Father John Delaney, his devotion to the Jesuit Seimological Association, and specifically to the Canisius Seismograph Station, assured a continuum of its historical documentation, including original records, and preliminary data of epicenter (PDE) reporting cards. One of McTigue's accomplishments includes Canisius, and other JSA information related to use of their seismographs in identification of St. Peter's Tomb in Rome, Italy.

Folder 14/1 – Biographical file, McTigue, Austin C, Ph. D.,ca. 1916-1974
Director , Seismological Station, 1940-1970.
Chair, Physics Department, 1940-1959
Faculty member, 1920-1971

Includes photos, correspondence, newsclippings, personnel (copies), professional affiliations, etc.

Folder 14/ 1– Personal Correspondance. ca. 1945-1974

Correspondence. McTigue to Gov. Thomas E. Dewey, preservation of important geological regions in Western New York. October 18, 1945.
Correspondence. B. Arns to McTigue, January 5, 1974.
Correspondence. M. Wiedenbach , December 12, 1974.
Correspondence. U.S. Weather Bureau sending pollen slides to McTigue, June 24, 1944.
Correspondence. Advice on earthquake project, August 21, 1959.

Folder 14/ 2- Biographical, professional information ca. 1918-1974

Distinguished Service Award, Dr. Austin McTigue. Ca. [?]

Citation. Honorable discharge, United State Army, December 12, 1918.

Certification. Successful completion of Plattsburg Students' Army Training Corps Camp, July 18 -September 16, 1918.

Form (copy). Received from **Biographical Directory of American Men of Science (8th edition)**. July 19, 1949

Obituary and notice of death, Buffalo Evening News, February 4, 1974.

Article. On Austin McTigue, *Canisian*, Summer 1963.

Correspondence. To McTigue from Dr. Wiedenbeck, former student December 14, 1972

Correspondence. McTigue) to J. Clayton Murray, SJ, Canisius College, Archivist; Correspondence. from Kowalak, (4/17/44); physics archives records (12/29/72); to Murray, information from physics files 1/9/73.

Newsclipping . McTigue approval of Aleutians test, *Buffalo Evening News*, November 4, 1971.

Conference materials. *The Science Teachers Bulletin*, Spring 1951 Vol. XVI, No. 1, including New York State Science Teachers Association, Annual Summer Conference June 28-30, 1951.

Newsletter. *Technical Societies News* (Jan. 1967)

Proposal. 'Dial for Help' Plan Pushed - McTigue and Seismograph with St. Peter's Tomb[n.d.]

Annual report (2nd; with note). Calas Sanctus Preparatory School , Buffalo, New York.

Information. Society for Nondestructive Testing, Western New York Section, 1966

Newsclipping. "Dr McTigue Begins Fortieth Year at Canisius College", *The Griffin*, October 5, 1956.

Miscellaneous correspondence. January 28, 1944-June 16, 1969.

Newsclippings. Related to McTigue at Canisius, *The Griffin*, 12/6/40, 1/14/41; 11/19/41, 12/5/41; 12/18/42.

Newsclippings. "Seismologists Praise New Canisius Setup" *Courier Express*, 6/19/47. "Scratches on Chart Tell Take of Earth's Jitters" 8/18/40

NYS driver's license. 1929.

Questionnaire. Completed by McTigue, Fortune's questionnaire for scientists. [n.d.] .

Folder 14/3 - Speaking engagements and lectures, ca. 1945-1956

Newsletter. Geological Section of the Buffalo Society of Natural Sciences, McTigue to speak on earthquakes. Vol. 4, No. 2, October, 1954; meeting minutes include McTigue lecture, Vol. 4, No. 3 , November, 1954

Newsletter. Geological Section of the Buffalo Society of Natural Sciences, McTigue on "Radioactivity of Minerals and Allied Substances" Vol. 6,

No. 3 , Nov. 1956.

Correspondence. WNY Weather Society. First meeting. McTigue to be main speaker on Canisius College Seismological Station, September 24, 1950.

Correspondence. To McTigue, invitation to speak on the "Dangers of Fallout" Holy Name Society of St. Amelia's Church, Tonawanda, NY, November 14, 1961.

Lecture program. Beta Beta Beta , Canisius Chapter, McTigue on "Theories of the Evolution of the Solar System, March 8, 1950.

Correspondence. To McTigue from NYS Science Teachers Association, invitation to address group on earthquakes. July 25, 1951.

Correspondence. Buffalo-Niagara Chapter of American Statistical Association to McTigue on "discussion of how statistics will be used in planning Buffalo" June 8, 1955.

Correspondence. (11/19/45) from NYS Section of the American Physical Society re: talk on "Properties of a Sensitive Point Counter"

Correspondence. (12/15/45) from Appollonia Guild re: talk

Correspondence. (12/22/42) from Buffalo-Niagara Section of the Institute of Radio Engineers on "The Seismograph and Its Applications"

Monthly Bulletin. Canisius Alumni Sodality on McTigue lecture, "Atomic Energy December 12, 1949.

Correspondence. (4/2/47) re: talk to Boy Scouts at South Park District meeting

Correspondence. St. Vincent's Holy Name Society invitation to address on nuclear energy(1/15/59)

Notes. University at Buffalo Physics Department Colloquium on Seismographs & Seismography, November 17, [19??]

Folder 14/4 - Charitable donations, Canisius College (personal)

Cross-reference. Invitations and correspondence sent to alumni for Loyalty Fund, Century Club. 1960.

Correspondence. McTigue attendance at Loyalty Fund as Chairman of Century Club Division of the Drive. [n.d.]

Article. "Alumni Give Canisius \$50,000". *Courier Express*, June 9, 1961

Article. "Loyalty Fund check presented at Canisius College". *Buffalo Evening News*. June 9, 1961.

Invitation. Membership in the Century Club, [1957?]

Correspondence. From the Century Club in support of Loyalty Fund. February, 26, 1960.

Correspondence. Solicitation from the Century Club for donations. 1960.

Correspondence. Gratitude to McTigue for donation to Century Club, March 24, 1961

Weekly report. Canisius College Alumni Loyalty Fund 4/12 - 6/30/61)

Weekly Report. Canisius College Alumni Loyalty Fund, February 18- April 11, 1961.

Correspondence. Donation to Canisius Building Fund, August 7, 1948
Correspondence. Donation to Canisius College, July 27, 1948.

Folder 14/5 – Civil Defense

Correspondence. McTigue. resignation as Director of the Radiological Division, Consolidated Erie County Office of Civil Defense. October 7, 1954.

Correspondence (draft). Resignation. October 5, 1954.

Correspondence. Recommendation of McTigue for promotion in Civil Defense, September 3, 1959.

Correspondence. Annual Western New York Safety Conference; McTigue citation for service to Conference, April 25, 1960.

Newsletter. New York State Civil Defense, November 25, 1961.

Correspondence. (1/31/62) re: possible talk at Civil Defense of Niagara Falls Pamphlet. "Basis for the Evacuation Graph and How to Use It to Determine When Evacuation is Necessary" New York Civil Defense Commission. [n.d.]

Correspondence. Radiological seminar for New York State guard. October 23, 1961

Correspondence. Presentation of radiological school at Delavan Avenue (Buffalo, New York) Armory. October 26, 1961.

Notebooks. Radiological Seminar for New York State Guard conducted by Erie County Office of Civil Defense in cooperation with Canisius College. [n.d.]

Weekly news digest. Office of Civil and Defense Mobilization, Public Affairs office, May 15, 1959.

Correspondence. Buffalo Evening News, McTigue's comment on dosimeters. May 21, 1959.

Article. McTigue and other detector, Buffalo Evening News. May 18, 1959.

Article. "Technical Arguments Again Peril Hopes of Cheap Fallout Detector" New York State Civil Defense Commission's Information Circular for Directors. April 10, 1958.

Pamphlet. Consolidated Office of Civil Defense on "Radius and Area of Bomb Burst and Casualty Percentages." [n.d.]

Correspondence. Monitoring stations from Civil Defense. February 26, 1960.

Report. New York State Civil Defense Commission, "Tentative Maximum Permissible Exposures to Gamma Radiation Following an Enemy Attack with Nuclear Weapons" (Revised). [n.d.]

Program. Civil Defense Day at Annual Western New York Safety Conference. April 12, 1960.

Folder 14/6 – Radioactive materials

Recordings(3). Figure 1.29 plot branch record. January 17, 1958.

Procedure manual. McTigue, Austin C., *Fall-Out Procedure*. Consolidated Erie County Office of Civil Defense Radiological Division, March 1955.

Memorandum. Civil Defense Farmer's Advisory, "Protective Measures Against Some Chemical Biological and Radiological War Hazards to Food" November 1957

Technical Report. *Recommended OCDM Specifications for Blast-Resistant Structural Design (Method "A")*, Federal Civil Defense Administration, January 1958.

Report. *The Family Fall Out Shelter*. Office of Civil and Defense Mobilization. [n.d.]

Correspondence. Radioactive material questions. March 25, 1960.

Correspondence. State evaluation of Operation Alert, 1959.

Surveys. Fallout shelters. Guide for Executives, Office of civil and defense mobilization, October, 1959.

Advisory bulletin. Federal civil defense administration, No.188, rev. January 24, 1958

Operation alert. Annex J; Attachment 1 Radiological. 1958.

Notes (13). McTigue thoughts on nuclear energy and the atom bomb. ca. Spring 1941.

Map. "Operation Alert, radioactive fallout" for New York State cities and incorporated villages, 1957.

Folder 14/7 – Nuclear Blast Observations

Notebooks (2). McTigue's personal observations taken on-site at nuclear test blast, Nevada. 1957.

Folder 14/8- Long Beach (California) Earthquake

Report. On Long Beach (CA.) earthquake. March 10, 1933.

Folder 14/9- Doctorial Dissertation

Dissertation. Mc Tigue, Ph.D., Austin C. An improved method for making Geiger points and the construction of a multiple point counter. St. Louis University , 1939.

Folder 14/10 - Miscellaneous

- Buffalo Evening News (1/2/64) article re: meteor shower
- Question and answer provided re: statement in MAAC media guide of physics procedure for determining the Atom Bomb Ground Zero at CC
- Cross-Reference Sheet re: McTigue's Class
- Funeral Mass card for McTigue
- Cross Reference Sheet re: radiological tests & fall-out maps, books
- CC in cooperation with US Office of Education re: free course to train technicians in theory & applications of X-ray diffraction planned for March 1944
- Operation Alert 1958 – May 6th
- Handwritten notes. Mc Tigue [n.d.]