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MG 064 - I.W. Tweddell fonds

Dates: 1952-1975 (inclusive); 1965-1974 (predominant).

Extent: 1.22 m of textual records, graphic material, and microform.

Biography: Ian William Tweddell was born on 12 January 1917 in County Durham, England. He emigrated to Canada with his parents in 1921, settling near Lashburn, Saskatchewan. Tweddell was educated in Lashburn and Prince Albert, prior to enrolling at the University of Saskatchewan, where he received a BSc in Civil Engineering (1948). He went on to the University of Manitoba, earning an MSc in Community Planning. He served in the RCAF and RAF from 1941 to 1945, and was a prisoner of war in Germany from 1942 to 1945. Tweddell worked as a surveyor, throughout Saskatchewan, Northwest Territories and Yukon. He joined the faculty of Civil Engineering at the University of Saskatchewan in 1957 as a Lecturer, and was promoted to Assistant Professor in 1962. Tweddell remained with the College of Engineering until his sudden death on 23 June 1975.

Scope and content: This collection contains considerable material relating to aviation history, particularly in western and northern Canada, including material on: the Keng Wha Aviation School for Nationalist Chinese pilots; the RCAF; illustrations of the technology of flight; reference material; and microfilms of the Hudson Strait Expedition fonds (1927-1928) and "The Bulletin" (Western Canada Airways, 1929-1937). Additionally, there is material on Tweddell's other research interests, notably aerial mapping and surveying.

Arrangement: It has been organized into 6 series:

- A. Correspondence
- B. Lecture Notes
- C. Field Notes
- D. Class Assignments
- E. Research Files and Reports
- F. Published Material

Restrictions: There are no restrictions.

Related material: See also Alumni files, Faculty Biographies and Faculty Publications.

Prepared by S.D. Hanson January 1984. Edited for formatting by Amy Putnam, 2017.

Box 1

A. Correspondence

1. Loran, Terhart & Associates, 1971 - 73.
2. Prince Albert Collegiate Institute Reunion, 1974.
3. Miscellaneous, 1967 - 1975.

B. Lecture Notes

(includes assignments, exams, etc.)

1. CE2300 (Surveying), 1973 - 74.
2. CR332B (field astronomy), 1966.
3. CE334A (surveying), 1974.
4. CE334A, 1969.
5. CE334A, 1974.
6. CE334A, 1971
7. Community Planning 829 (a), 1964. Also as CE434B in 1968 and 1972. Includes Landing Planning (1956) and Advanced Short Course (UBC), 1957.
8. Engineering Analysis, 1960s.

Box 2

9. Engineering Analysis, 1960s - 1970s.
10. Engineering Analysis, 1960s - 1970s.
11. Engineering Analysis G 141C, 1970s.
12. Geography 101, 1965.
13. Geography 333, 1966.
14. Geography 390, 1966 - 67.
15. Geography 842, 1967 - 68.
16. Mining 307A, 1972.
17. Physics 221A, 1965 - 66.

Box 3

C. Field Notes. - 2 files.

D. Class Assignments

1. "Allan Saskatchewan a Prairie Village in Changing Economy" by Tweddell for Geography 351a, 1964.

2. "The Northern Sea Route" by Tweddell for Geography 351a, 1964.

E. Research Files and Reports.

1. "An Introduction to Field Astronomy for Civil Engineers and Land Surveyors" by Tweddell, 1966.
2. "Proposals for the Relocation & Rearrangement of Railway Lines in the City of Saskatoon, Saskatchewan", by Tweddell (1961 MSc thesis, U. of M.).
3. British Yukon Railway.
Field notes (1952) together with photocopies of articles and new stories about White Pass and the Yukon route.
4. David Thompson.
Photocopies of articles re Thompson's travels in North America.

Box 4

5. Kitimat, B. C.
Three binders containing a wide variety of information about the town site and District of Kitimat.
6. Aviation.
 - a) Keng Wha Aviation School - Correspondence and notes on this training aerodrome for Nationalist Chinese pilots in Saskatoon, c. 1920s.
 - b) University of Saskatchewan Aviation Technician's Course and Laird biplane used for instruction - Correspondence relating to the short lived course operated in the late 1930s for TCA.
 - c) Newsletter and items relating to the ex-R.C.A.F. P.O.W. Association.
 - d) Aerial Surveying - Three articles on technique.
 - e) Photographs - slides and text for a slide show on Western Canadian aviation history. Also a number of photos and postcards illustrating same and technology of flight.
 - 1) C F - AQW Junkers 33/34 (neg.)
 - 2) C F - BKN Beechcraft 18N of Prairie Airways Ltd., Moose Jaw between 9/7/38 - 1942 (2 photos)
 - 3) Dragon Rapide. 7624 at RCAF Stn. (neg. only) 2 different photos.
 - 4) Avro Anson at RCAF station. (neg. only)
 - 5) Junkers J U - 52 CF-ARM. (2 prints)
 - 6) Bellanca "City of New York" Nat'l Aviation Museum (NAM) #4350.

- 7) G - CAO Vickers (?) Flying Boat NAM #1608.
- 8) G - AEB Vickers Vicking Flying Boat of Laurentide Air Services Ltd. NAM #001741.
- 9) Curtis Canuck (JN - 4) C227 of flying training school for RFC in W.W.I. NAM #A1466.
- 10) Curtis Canuck (JN - 4) C696 of RFC flying training school possibly in Texas. NAN #002892.
- 11) Fokker Universal of Western Canada Airways G-CAGO NAM #4766
- 12) Junkers JL—6 G-CADP of Imperial Oil Ltd., at Fort Simpson, N.W.T. NAM \$1706
- 13) Postcards of air base at Yellowknife, N.W.T. (3 items).
- 14) Yellowknife c. 1940 with FC-W2 Fairchild and Noorduyn Norseman IV.
- 15) Saskatoon from the air c.1920's.
- 16) Yellowknife waterfront. Noorduyn Norsemans at docks between 1945 - 1955. (2 photos).
- 17) Postcard of Junkers W-34 CF-ATF of Canadian Airways Ltd.
- 18) Curtis-Canuck (JN-4) at Saskatoon, in front of Keng Wah Aviation Hanger.
- 19) Bellanca Freighter.
- 20) Photos from Spectrum illustrating technology of flight (25 photos)
- 21) CF - CFA Avro Avian IV M between 1936 - 40 probably in P.A.

SLIDES: A set of 24 slides with accompanying text for a talk "The Extension of Aviation into the N.W.T. and the Yukon: 1919-1930" given by Prof. Ian Tweddell to the Musk-ox Circle, Jan. 21, 1969.

22) Inauguration Air Mail Service, Saskatoon - March, 1930.

- f) Aviation history notes - misc. notes covering western Canadian aviation.
- g) Index - Covers aviation events noted in the Saskatoon Star-Phoenix 1925—1935.
- h) Transcript of conversation with unidentified RCAF pilot of late 1920s and 1930s. (page 1 missing)
- i) Manuscripts of articles written by Tweddell and others:
 - (Training aircraft in Saskatchewan 1920s and 30s) 2 copies.
 - New York to Nome
 - Early Flights in the Canadian North 1919 - 1928.
 - Cherry Red Airline.
 - The MacAlpine Expedition Search and Rescue 1929.
- j) The Prairie Airmail 1928-1932 — Manuscript of an article

- k) Maps - prepared by Tweddell for his history of western Canadian Aviation.
 - United States Army Air Service Alaskan Air Expedition 1920.
 - Imperial Oil Winter Flights 1921
 - Imperial Oil Flights - Summer of 1921

Box 5

- l) Aviation History Offprints - Tweddell collected considerable amounts of xeroxed material. Titles and authors where given are noted: 5 files

- My Flight to the Cape and Back, A. Cobham
- Flights North of Point Barrow, G. Wilkins
- Notes on Arctic Flying, V. Stefansson
- Commander Byrd's Voyage 1926.
- First Flight Down North, F. Ellis
- Flying Across the Edge of the Great Unknown
- The Flying Man in Industry
- The Pessimist
- Fort Norman or Bust, T. Link
- First Flights over Hudson Strait
- Stan McClelland: His Story, R. Crone
- Search in the North, G. Blanchet
- Atlantic Air Conquest, F. Ellis
- My Zepplins, H. Eckener
- The History of Airships, B. Clarke
- Wilson, J.A. Development of Aviation in Canada, 1879 - 1978.
- "The Giant Beacon" (Wpg.) N. Roy.
- "Down North with the Governor"
- "Floats"
- "Conquering the Northern Avi." G. Blanchet.
- Arctic Pilot. (W. Gilbert) K. Shackleton.
- Geography Paper "The Development of Northern Aviation"
- Meteorology for Pilots & navigators. 1941.
- Correspondence
- Book Orders and Research Support.
- New York to Nome
- Gilbert's Flight to Magnetic Pole.

- m) Development of Commercial Air Services in Canada 1919 - 1944, by H. Cunningham, Directorate of Air Development, 1946.
- n) Microfilms from P.A.C.
 - Hudson Strait Expedition 1927 - 1928 (2 rolls)
 - The Bulletin (Newsletter of Western Canada Airways) 1929 - 1937 (2 rolls).

7. Australia
Articles and drawings.
8. Miscellaneous
Note book re urban development, speech and miscellaneous (lecture?) notes.

F. Published Materials

- 1) Miscellaneous
Articles, maps, tables, etc. re surveying practices and procedures, curriculum for surveying courses, planning act, etc. Also included is Saskatoon Bylaw 4637 re zoning (1970)
- 2) Three publications re meteorology, weather and astronomy.
- 3) Hand copied reproduction the 1871 manual of the survey system for public lands in Canadian West.
- 4) Saskatchewan Land Surveyors Handbook and manual for the Survey of Dominion Lands.
- 5) Three publications re aerial mapping by photography.
- 6) Four reports on Geodetic Operation in Canada (1927 - 1966 incomplete).
- 7) Report on Levelling Operations (1908 - 1914)
- 8) Several publications re survey practices, techniques and procedures.
- 9) G. A. Wentworth's Elements of Analytic Geometry (1891) which belonged to A. R. Greig.