

## David Hugh Trollope Archive

On his retirement in 1987, David Hugh Trollope, Professor of Civil Engineering and Deputy Vice Chancellor of James Cook University, donated these items.

**Archive Location: 80R**

### Detailed Listing:

#### **Papers by Professor D.H. Trollope**

- TC/1/1 Trollope, D. H. (n.d.) The basic law of shear strength.
- TC/1/2 Trollope, D. H. (n.d.) A note on the physical aspect of cohesion.
- TC/1/3 Trollope, D. H., & Zafar, S. M. (1956). A study of the shear strength of saturated sand and sand:clay mixtures, in triaxial compression. *Proceedings of the second Australia-New Zealand conference on soil mechanics and foundation engineering, Christchurch.*
- TC/1/4 Trollope, D. H. (1961). Effective contact stresses and friction. *Nature*, 191, 376-377.
- TC/1/5 Commonwealth Scientific and Industrial Research Organization. (1960). *Interparticle forces in clay-water-electrolyte systems: Seminar convened by CSIRO, Soil Mechanics Section and the University of Melbourne, Civil Engineering Department, February 1959.*
- TC/1/6 Trollope, D. H., & Chan, C. K. (1961). Soil structure and the step-strain phenomenon. *Transactions of the American Society of Civil Engineers*, 126(1), 1650-1698.
- TC/1/7 Trollope, D. H. (n.d.). The fabric of clays in relation to shear strength. *Third Australia-New Zealand conference on soil mechanics and foundation engineering.* 197- 202.
- TC/1/8 Trollope, D. H., & Rosengren, K. J. (n.d.). The fracture of brown coal.
- TC/1/9 Trollope, D. H., Rosengren, K. J., & Brown, E. T. (1965). The mechanics of brown coal. *Geotechnique*, 15(4), 363-386.

- TC/1/10 Trollope, D. H., & Brown, E. T. (1967). An analytical relationship between saturated soil strength and stress history. *Proceedings of the 5th A.N.Z. conference on soil mechanics and foundation engineering.*
- TC/1/11 Trollope, D. H., & Brown, E. T. (1966). Effective stress criteria of failure of rock masses. Paper presented at the 1st ISRM Congress.
- TC/1/12 Trollope, D. H. (1967). Mechanics of discontinua or clastic mechanics. *University College of Townsville Department of Engineering Research Bulletin, (2).*
- TC/1/13 Soil identification and classification: I – The origin and nature of soil.
- TC/1/14 Trollope, D. H. (1964). On the shear strength of soils. *Conference on soil stabilization, Melbourne, April 1962.*
- TC/1/15 Trollope, D. H., & Lee, I. K. (1957). The performance of a laboratory earth pressure cell. *Australian Journal of applied Science, 8(2), 84-97.*
- TC/1/16 Trollope, D. H., & Currie, D. T. (n.d.). Small embedded earth pressure cells: their design and calibration. *Third Australia-New Zealand conference on soil mechanics and foundation engineering.* 145-151.
- TC/1/17 Trollope, D. H., & Lee, I. K. (1961). The measurement of soil pressures. *Proceedings of the Fifth International conference on soil mechanics and foundation engineering, Paris, July 1961.*
- TC/1/18 Trollope, D. H., & Lee, I. K. (n.d.). Pressure measurements on Tullaroop Dam culvert. *Fourth Australia-New Zealand conference on soil mechanics and foundation engineering.* 81- 92.
- TC/1/19 Trollope, D. H. (n.d.). Limiting factors in the design of structural foundations.
- TC/1/20 Trollope, D. H. (1956). An investigation of the foundation characteristics of the Adelaide (Pleistocene) clays. *Proceedings of the C.S.I.R.O. conference on foundation problems of domestic and industrial buildings, Adelaide, November, 1956.*
- TC/1/21 Francis, A. J., Savory, N. R., Stevens, L. K., & Trollope, D. H. (1961). The behaviour of slender point-bearing piles in soft soil. *Symposium of the design of high buildings, University of Hing Kong Golden Jubilee Congress, September 11-16, 1961.*
- TC/1/22 Francis, A. J., Stevens, L. K., & Trollope, D. H. (n.d.). Flexure and load-carrying capacity of slender piles in soft soil.
- TC/1/23 Hoadley, P. J., Francis, A. J., Stevens, L. K., & Trollope, D. H. (n.d.). The buckling of slender piles under complex loading. *Australian Road Research Board, Third conference, paper No. 236.*
- TC/1/24 Trollope, D. H., Freeman, McD., & Peck, G. M. (1966). Tasman bridge foundations. *The Journal of The Institutional Engineers, Australia.*
- TC/1/25 Trollope, D. H. (1957). The systematic arching theory applied to the stability analysis of embankments. *Proceedings of the Fourth International*

*Conference on soil mechanics and foundation engineering, London, August 1957.*

- TC/1/26 Trollope, D. H., & Morgan, J. R. (1959). Stress systems within simple slopes of granular materials. *The Civil Engineering Transactions of the Institution of Engineers, Australia.*
- TC/1/27 Trollope, D. H. (n.d.). Mechanics of rock slopes.
- TC/1/28 Trollope, D. H. (1962). Discussion on Selsset Reservoir: Design and performance of the embankment. *Proceedings of the Institution of Civil Engineers.*
- TC/1/29 Trollope, D. H., & parkin, A. K. (n.d.). Pore pressures in a foundation clay. *Journal of the Soil Mechanics and Foundation Division.*
- TC/1/30 Trollope, D. H., & Brown, E. T. (1965). Pressure distribution in some discontinua. *Water Power*, (August), 310-313.
- TC/1/31 Trollope, D. H. (1966). The stability of trapezoidal openings in rock masses.
- TC/1/32 Trollope, D. H. (1966). The reasons for site investigation: Opening lecture to be delivered at the Symposium on Site Investigate, Sydney, September, 1966.
- TC/1/33 Lawson, J. D., Trollope, D. H., & Parkin, A. K. (1963). Some hydraulic aspects of unconventional rockfill dams. *Proceedings of the 1st Australasian conference on hydraulics and fluid mechanics, 1962.*
- TC/1/34 Parkin, A. K., Trollope, D. H., & Lawson, J. D. (1966). Rockfill structures subject to water flow. *Journal of the Soil Mechanics and Foundations Division*, 92(SM6), 135-151.
- TC/1/35 Trollope, D. H. (1965). The state of stress in the Earth's crust.
- TC/1/36 Trollope, D. H., Lee, I. k., Morris, J. (1962). Stresses and deformation in two layer pavement structures under slow repeated loading. *Proceedings of the first conference of the Australian Road Research Board*, 1, 693-721.
- TC/1/37 Trollope, D. H., & Wallance, K. B. (1962). The nature of skid resistance. *Proceedings of the first conference of the Australian Road Research Board*, 1, 779-792.
- TC/1/38 Wallace, K. B., & Trollope, D. H. (1964). Skidding on wet pavements: The drainage characteristics of various surfaces. *Proceedings of the second conference of the Australian Road Research Board*, 2, 463-477.
- TC/1/39 *Proceedings of the Fifth International Conference on Soil Mechanics and Foundation Engineering, Paris 1961: General reports.*
- TC/1/40 Trollope, D. H. (1966). General report of theme 7: Underground excavations and deep borings. *Proceedings First International Congress on Rock Mechanics, Lisbon, Portugal, 1966.*

TC/1/41 Brown, E. T., & Trollope, D. H. (n.d.). The failure of linear brittle materials under effective tensile stress.

**Correspondence and Papers pertaining to the Workshop Mechanics of Tropical Cyclones held at James Cook University, 27 February to 2 March, 1979.**

- TC/2/1 Letter from Professor J. Oliver to Professor E. Scott re: a letter sent from the Prime Minister to Professor Trollope, 26 Sept. 1979.
- TC/2/2 Letter from the Prime Minister Malcolm Fraser to Professor D. H. Trollope re: the use of jet aircraft at high altitudes to gather data on tropical cyclones, 21 Sept. 1979.
- TC/2/3 Letter from Darcy Tronson to Professor Trollope thanking him for sending a paper by William M. Gray, 10 Aug. 1979.
- TC/2/4 Paper entitled "Tropical cyclone intensity determination through upper tropospheric aircraft reconnaissance" and written by William M. Gray, January 1979.
- TC/2/5 Letter from J. W. Zillman (Directory of Meteorology), to Professor D. H. Trollope thanking for the copy of the report on the TC workshop, 27 June 1979.
- TC/2/6 Letter from Darcy Tronson to Professor Trollope thanking him for a copy of a report on the Workshop on the Mechanics of Tropical Cyclones, 6.6.1979.
- TC/2/7 Letter from Gordon Dean to Professor D. H. Trollope thanking him for the report on the Workshop on the Mechanics of Tropical Cyclones, 5 June 1979.
- TC/2/8 Letter from the Secretary to the Chief Minister, Darwin, Mrs. M. L. Bell to Professor D. H. Trollope, 29 May 1979.
- TC/2/9 Letter from Bruce Morton to Professor Hugh Trollope thanking him for Tropical Cyclone Workshop abstract, 28 May 1979.
- TC/2/10 Letter from J. J. Webster to Professor Trollope thanking him for the report of the Workshop on the Mechanics of Tropical Cyclones, 28 May 1979.
- TC/2/11 Letter from Premier's Department to Professor Trollope thanking him for the report of the Workshop on the Mechanics of Tropical Cyclones, 24 May 1979.
- TC/2/12 Letter from Professor D. H. Trollope to Mr. R.A. Hamilton re: Centre for Disaster Studies, 2 May 1979.
- TC/2/13 Letter from the Prime Minister Malcolm Fraser to Professor Trollope re: aircraft reconnaissance of tropical cyclones.
- TC/2/14 Letter from R. A. Hamilton to Professor D. H. Trollope re: aircraft reconnaissance of tropical cyclones.

- TC/2/15 Letter from J. J. Webster to Professor Trollope re: aerial reconnaissance facilities, 11 Apr. 1979.
- TC/2/16 Letter from Malcolm Fraser to Gordon Dean re: aircraft reconnaissance of tropical cyclones, 29 March 1979.
- TC/2/17 Letter from Darcy Tronson to Professor Trollope acknowledging a letter on aircraft reconnaissance, 21 Mar. 1979.
- TC/2/18 Letter from J. W. Zillman to Professor D. H. Trollope re: tropical cyclone study group, 16 March 1979.
- TC/2/19 Letter from Gordon Dean to Malcolm Fraser re: aircraft reconnaissance of tropical cyclone, 16 March 1979.
- TC/2/20 Letter from Greg Holland to Professor Trollope re: thanking him for providing the funds to attend the Mechanics of Cyclones Workshop.
- TC/2/21 Letter from R. R. Brook to Professor Trollope re: appreciation of Cyclone Workshop.
- TC/2/22 Letter from the Premier J. B. Peterson to Professor Trollope re: aircraft reconnaissance of tropical cyclones, 16 March 1979.
- TC/2/23 Letter from Wilmot N. Hess to Professor Trollope re: Tropical Cyclone Workshop, March 13, 1979.
- TC/2/24 Letter from Professor D. H. Trollope to Professor G. N. Richards re: appreciation of assistance given for the Tropical Cyclone Workshop, 9 March 1979.
- TC/2/25 Letter from Professor Trollope to Dr. M. E. Dixon re: thanking him for the assistance given for the Tropical Cyclone Workshop, 9 March 1979.
- TC/2/26 Letter from Professor Trollope to Professor J. Oliver re: thanking him for the assistance given for the Tropical Cyclone Workshop, 9 March 1979.
- TC/2/27 Workshop dinner invitations.
- TC/2/28 Letter from professor Trollope to Professor J. F. Ward re: thanking him for the assistance given for the Cyclone Workshop, 9 March 1979.
- TC/2/29 Letter from D. H. Trollope to the Prime Minister Mr. J.M. Fraser re: aircraft reconnaissance of tropical cyclones, 4 March 1979.
- TC/2/30 List of participants of the Tropical Cyclones Workshop, J.C.U., 27 February-2 March 1979.
- TC/2/31 Letter from Professor D. H. Trollope to a colleague re: Tropical Cyclones workshop.
- TC/2/32 Program of the Tropical Cyclone workshop and abstracts of papers presented.
- TC/2/33 List of participants from different institutions.
- TC/2/34 Letter from M. S. Kirkpatrick to Professor D. H. Trollope re: nomination of a participant to Tropical Cyclone Workshop, 20 Feb. 1979.

- TC/2/35 Application forms of "Request for approval to travel on official business".
- TC/2/36 Letter from D. H. Trollope to Dr. Wilmot N. Hess re: Workshop and cyclones, 27 Feb. 1979.
- TC/2/37 A paper entitled "Tropical Cyclone Eye Dynamics" by R. K. Smith.
- TC/2/38 Weather reports of tropical cyclone "Kerry".
- TC/2/39 Media release "Research project may help to reduce cyclone damage", Minister for Science and the Environment, 20 Feb. 1979.
- TC/2/40 Memos on Tropical Cyclone Workshop dinner.
- TC/2/41 Letter from P. T. Fink to Professor D. H. Trollope re: nomination of a participant Dr. Stuart Anderson for the Tropical Cyclone Workshop, 19 Feb. 1979.
- TC/2/42 University Hall accommodation for Cyclones Workshop participants.
- TC/2/43 Letter from Vice-Chancellor K.J.C. Back to Dr. Richard Manning re: tropical cyclones, 13 February 1979.
- TC/2/44 Letter from Professor D. H. Trollope to Professor B. R. Morton re: travel and accommodation, 13 February 1979.
- TC/2/45 Telex message re: accommodation.
- TC/2/46 Letter from Mr. M. E. Dixon to Mr. D. W. Slingerland re: participation of Cyclones Workshop, 12 February 1979.
- TC/2/47 Memos on workshop dinner, accommodation etc.
- TC/2/48 Telegram re: acknowledgement of a delegate for the Cyclones Workshop, 23.1 .79.
- TC/2/49 Letter from D. H. Trollope to Dr. C. B. Emmanuel re: acknowledgement of a contribution for the Cyclones Workshop.
- TC/2/50 Letter from Professor D. H. Trollope to Professor J. F. Ward re: details of Cyclones Workshop 11 January 1979.
- TC/2/51 Preliminary announcement of the Workshop on the Mechanics of Tropical Cyclones, 14 December 1978.
- TC/2/52 Application for participation of the Workshop.
- TC/2/53 Letter from Professor Trollope to Professor P. T. Fink re: Tropical Cyclones Workshop, 2 January 1979.
- TC/2/54 Letter from Professor Trollope to Dr. Wilmot N. Hess re: Tropical Cyclones Workshop, 20 Dec. 1978.
- TC/2/55 Letter from Professor D. H. Trollope to Dr. Rosenthal re: progress made on the Tropical Cyclone Workshop, 20 December 1978.
- TC/2/56 Letter J. W. Zillman to Professor D. H. Trollope re: difficulties of attending the Tropical Cyclones Workshop, 5 Dec. 1978.

- TC/2/57 Letter from Professor D. H. Trollope to Dr. J. W. Zillman re: nomination of a participant to attend the Tropical Cyclone Workshop, 22 November 1978.
- TC/2/58 Telex messages (2) to and from participants of the Tropical Cyclones Workshop, 16 December 1978.
- TC/2/59 Letter from D. J. Gauntlett to Professor D. H. Trollope re: contributions for Tropical Cyclones Workshop, 9 November 1978.
- TC/2/60 Letter from Wilmot N. Hess to Professor D. H. Trollope re: suggestions and offer of assistance for the Tropical Cyclones Workshop, 8 November, 1978.
- TC/2/61 National Aeronautics and Space Administration. Applications notice, May 13 1977.
- TC/2/62 PDP/operations plan for scientific mission of? 3D aircraft to Australia, Feb. 15 to Mar. 15, 1979; Australia, Aug. 1978.
- TC/2/63 Operations plan for scientific mission of WP.3D aircraft to Australia, Feb.15 to Mar.15, 1979, Australia, December 1978.
- TC/2/64 Williams, M.C. Trip report; Australia/New Zealand April 16 – May 6, 1977.