

Tran Thanh Hai



Hai Thanh Tran, PhD

Professor of Geology

Biographical

Gender: Male

Date of birth: 22nd January 1965

Place of birth: Thai Nguyen, Vietnam

Nationality: Vietnam

Current Employer: Hanoi University of Mining and Geology

Address: Department of Geology, Hanoi University of Mining and Geology, Hanoi, Vietnam;

Phone: (+84) 24 3838 5093, Fax: (+84) 24 3838 9633,

E-mail: tranthanhhai.humg@gmail.com, tranthanhhai@humg.edu.vn

Education

June 1998 - Sept. 2001: University of Regina, Canada

PhD in Geology

June 1995 - Dec. 1997: University of Regina, Canada

Master of Science in Geology

Oct. 1982 - Dec.1987: Hanoi University of Mining and Geology

Engineer of Geology, Vietnam

Present position

- Professor and researcher of Structural Geology, Geology and Natural Resources of Vietnam, and Tectonics;
- Head of the Department of Geology, Hanoi University of Mining and Geology;
- Rector, Hanoi University of Mining and Geology.

Research Experience

June - Sept. 1996: Mapping and structural interpretation of Burntwood Group, Pelican Narrows area, northern Saskatchewan, Canada.

June - Sept. 1997: Mapping and structural interpretation of Wollaston Group, Burbidge Lake area, Cree Lake Zone, northern Saskatchewan, Canada.

June - Sept. 1998: Mapping and structural interpretation of Wollaston Group, Daly-Suttle Lakes area, Cree Lake Zone, northern Saskatchewan, Canada.

June - Sept. 1999: Mapping and structural interpretation of Wollaston Group, McKenzie Falls, Cup-Keller-Schmitz Lakes and Lower Foster Lake areas, Cree Lake Zone, northern Saskatchewan, Canada.

2003: Leader of ministerial project on “Study of deformational styles and tectonic regime of geological entities in Lai Chau area on the basis of plate tectonic principles”, funded by the Ministry of Education and Training, Vietnam.

2002 - 2006: Trainee and co-trainer of the INWENT (Germany) Regional program on “Integrated Coastal Zone Management” Training Program for Vietnam-Indonesia-Philippines.

2004 - 2005: Leader of ministerial basic scientific project on “Geo-structural investigation along Da River, section Lai Chau - Son La”, funded by the Ministry of Science and Technology, Vietnam.

2004 - 2007: Secretary of project on “Geology and metallogeny of northeastern Vietnam and southeastern China”, Vietnam-China intergovernmental scientific project sponsored by the governments of Vietnam and China.

2006 - 2008: Leader of ministerial basic scientific project on “The existence, nature, and role of Song Ma Suture Zone in the tectonic framework of Northwest Vietnam”, funded by the Ministry of Science and Technology, Vietnam.

2008 - 2011: Research associate for the project on “Tectonics and Metallogeny of Southeast Asia with the Centre of Excellence in Ore Deposits”, managed by the University of Tasmania, Australia.

2009 - 2013: Leader of national basic scientific project on “The nature of suture zones in Northern Vietnam”, No. 105-06-70-09, funded by National Foundation for Science and Technology Development (NAFOSTED), Vietnam.

2009 - 2013: Leader of ministerial project on “The nature and tectonic setting of pillow basalts in Cao Bang - Lang Son area and their significance in regional tectonic interpretation”, No. B2009-02-68, funded by the Ministry of Education and Training, Vietnam.

2009 - 2013: Leader of national project on “Study and evaluation of active tectonics along coastal zone of central Vietnam and its role in natural hazards for the prediction and mitigation of natural hazards in the condition of climate change”, No. BDKH-42, funded by the National Scientific and Technological Program for National Focus Program on Climate Change Response, Vietnam.

2012 - 2014: Research associate for the project on “Mineral deposits of Southeast Asia”, managed by the University of Tasmania, Australia.

2013 - 11/2018: Vice Rector, Hanoi University of Mining and Geology.

2016 - 8/2020: Leader of national project on “Study the influence of neotectonics on flow variation along major river catchments in Central Vietnam for the protection of rivers, applied for Vu Gia - Thu Bon catchment”, No. BDKH.13/16-20, funded by the National Scientific and Technology in response to Climate Change, Resource and Environment Management No. BDKH 13/16-20, Vietnam.

2/2018 - present: Rector, Hanoi University of Mining and Geology.

2019 - present: Leader of Ministerial Project on “Nature of high-grade metamorphic assemblages in the eastern margin of Kon Tum Block and its significance to geological evolution of Indochina”, No. B2019-MDA-562-15DT, funded by the Ministry of Education and Training, Vietnam.

Professional Interests and Skills

Professional interests:

- Structural geology and tectonics of orogenic belts.

- Structural controls on geo-resources (metallic, industrial mineral and energy deposits, and geo-heritages).
- Structural and tectonic controls on geo-hazards and environment.
- Natural resources management and Sustainable development

Language Proficiency: Vietnamese, English.

Journal Editorial Board member: A Geoscience Letters (2015-2018); Environmental Earth Sciences (Guest editor, 2011); Mining and Earth Sciences, Vietnam Journal of Earth Sciences; Vietnam Journal of Geology; VNU Journal of Sciences; Discover Water (Springer).

Scientific Organization's Membership: Asian-Oceania Geological Society (AOGS), Vietnam General Association of Geology, Vietnam Association of Tectonics

Awards

1996: Fuzesy Award of the Saskatchewan Geological Society for best poster presentation at the Saskatchewan Open House 1996, Saskatoon, Saskatchewan, November, 1996.

2001: Best Poster Presentation on Precambrian Research of the Precambrian Division, Geological Association of Canada at the Geological Association of Canada-Mineralogical Association of Canada Annual Meeting 2001, St. John's, Newfoundland, May 2001.

2008 - 2009: Australian Leadership Awards Fellowships for 2008 - 2009 of Australian Scholarships Group, Australian Agency for International Development (AusAID).

2015: Recipient of Ta Quang Buu Award for "Best Basic Scientific Works" in 2015. Ministry of Science and Technology of Vietnam.

2017: "Golden Book of Vietnam's Creativity 2017" awarded by the Central Committee of Fatherland Front of Vietnam.

Scientific Achievements

Publication Statistics

Total Publications: 82

RG Score: 22.81

GS Hindex: 12

GS i10-index: 14

RG Reads: 11 222

GS Citations: 741

Books

Tran Thanh Hai, 2017. Active tectonic features along coastal zone of Central Vietnam and its significance to geohazards; Science and Technics Publishing House, ISBN: 978-604-67-0969-5; In Vietnamese.

Tran Thanh Hai, Geological Structure - Principles and Methods of Study; Science and Technics Publishing House, ISBN: 978-604-67-0982-4. In Vietnamese.

Tran Van Tri and Vu Khuc (co-editors), 2009. Geology and Natural Resources of Vietnam; Publishing House for Science and Technology. In Vietnamese; Co-author.

Tran Van Tri and Vu Khuc (co-editors), Geology and Natural Resources of Vietnam; Publishing House for Science and Technology, Hanoi, 2011, ISBN: 978-604-913-047-2. Co-auteur.

Awni Al-Otoom and Mohammad Al-Harashed (editors), 2015. Minerals Processing and Benification; Daya Publishing House, New Delhi, India, ISBN: 978-83-5124-352. Co-author.

Tong Duy Thanh, Mai Trong Nhuan, Tran Nghi (co-editors), Encyclopaedia of Geology; NXB Hanoi National University Publishing House, ISBN: 978- 604- 62- 6905-2. In Vietnamese; Co-author.

Selected SCIE-listed Journal Publications

Tran, H. T., Ansdell, K. M., Bethune, K. M., Watters, B. R., and Ashton, K. E., 2003. Nd isotope and geochemical constraints on the depositional setting of Paleoproterozoic metasedimentary rocks along the margin of the Archean Hearne craton, Saskatchewan, Canada; Precambrian Research, v. 123; pp. 1-28.

Hai Thanh Tran, Ansdell, K., Bethune, K., Ashton, K., Hamilton, M., 2008. Provenance and tectonic setting of Paleoproterozoic metasedimentary rocks along the eastern margin of Hearn Craton: constrain from SHRIMP geochronology, Wollaston Group, Saskatchewan, Canada. Precambrian Research, v. 167, pp. 171-185.

Hai Thanh Tran, Bat Van Dang, Chi Kim Ngo, Que Dinh Hoang, Quyen Minh Nguyen, 2011. Structural controls on the occurrence and morphology of karstified assemblages in Northeastern Vietnam: a regional perspective. Journal of Environmental Earth Sciences, Special Issue, v. 70 (2), 511-520.

Hai Thanh Tran, Khin Zaw, Jacqueline A. Halpin, Takayuki Manaka, Sebastien Meffre, Youjin Lee, Le Van Hai, Chun Kit Lai, Sang Dinh, 2014. The Tam Ky-Phuoc Son Shear Zone in Central Vietnam: Tectonic and metallogenic implications. Gondwana Research, v. 26, 144-164.

Halpin, J.A., **Tran, H.T.**, Lai, C.K., Meffre, S. Crawford, A.J., Zaw, K., 2015. U-Pb zircon geochronology and geochemistry from NE Vietnam: A 'tectonically disputed' territory between the Indochina and South China blocks. *Gondwana Research*, v. 34, 254-273.

Ngo Xuan Thanh, **Tran Thanh Hai**, Nguyen Hoang, Vu Quang Lan, Sanghoon Kwon, Tetsumaru Itaya, Santosh, M., 2014. Backarc mafic-ultramafic magmatism in Northeastern Vietnam and its regional tectonic significance. *Journal of Asian Earth Sciences*, v. 90, pp. 45-60.

Thanh Xuan Ngo, Santosh, M., **Hai Thanh Tran**, Hieu Trung Pham, 2015. Subduction initiation of Indochina and South China blocks: Insight from the forearc ophiolitic peridotites of the Song Ma Suture Zone in Vietnam, *Geological Journal*, DOI: 10.1002/gj.2640.

Nguyen, Thuy Bich Thi, Pham Trung Hieu, **Tran Thanh Hai**, Bui The Anh, Nguyen Thi Xuan, Dang My Cung, 2014. Petrogenesis and zircon U-Pb ages of the Thien Ke granitic pluton in the Tam Dao region: Implications for early Paleozoic tectonic evolution in NE Vietnam, *Journal of Mineralogical and Petrological Sciences*, vol. 109, issue 5, pp. 209-221.

Ngo, Xuan Dac, Xin-Fu Zhao, Thanh Hai Tran, Xiao-Dong Deng, Jian-Wei Lia, 2020. Two episodes of REEs mineralization at the Sin Quyen IOCG deposit, NW Vietnam, *Ore Geology Reviews*, 125, DOI: 10.1016/j.oregeorev.2020.103676.

Bui V. Hau, Yoonsup Kim, Ngo X. Thanh, **Tran T. Hai**, and Keewook Yi, 2018. Neoproterozoic deposition and Triassic metamorphism of metasedimentary rocks in the Nam Co Complex, Song Ma Suture Zone, NW Vietnam. *Geosciences Journal*, v. 22 (4), pp. 549-568.

Junlai Liu, My-Dung Tran, Yuan Tang, Quang-Luat Nguyen, **Thanh-Hai Tran**, Wenbin Wu, Jiafu Chen, Zhaochong Zhang, Zhidan Zhao, 2011. Permo-Triassic granitoids in the northern part of the Truong Son belt, NW Vietnam: Geochronology, Geochemistry and tectonic implications. *Gondwana Research*, DOI: 10.1016/j.gr.2011.10.011.

Quyem Minh Nguyen, Qinglai Feng, Jian-Wei Zi, Tianyu Zhao, **Hai Thanh Tran**, Thanh Xuan Ngo, Dung My Tran, Hung Quoc Nguyen, 2019. Cambrian intra-oceanic arc trondhjemite and tonalite in the Tam Ky - Phuoc Son Suture Zone, central Vietnam: Implications for the early Paleozoic assembly of the Indochina Block. *Gondwana Research*, DOI: 10.1016/j.gr.2019.01.002.

Ashton, K.E., J.F. Lewry, L.M. Heaman, R.P. Harlaub, M.R. Stauffer, and **H.T. Tran**, 2005. The Palecan Thrust Zone: basal detachment between the Archean Sask Craton and Paleoproterozoic Flin Flon - Glennie Complex, western Trans-Hudson Orogen. *Canadian Journal of Earth Sciences*, v. 42, pp. 685-706.

Conference Proceedings

Tran Thanh Hai, 2005. Structural and tectonic evolution of Northwest Vietnam. In Proceedings of the International Conference on Geology, Geotechnology and Mineral Resources of INDOCHINA, Khon Kaen, Thailand, p. 455-463.

Tran Thanh Hai, 2006. Deformational history of northwest Vietnam and its implication on the tectonic evolution of Indochina. *In* Proceeding of Second Symposium of the International Geologic Correlation Program (Project 516) 'Geological Anatomy of East and South Asia', Quezon City, Metro Malina, Philippines.

Tran, Hai Thanh, 2017. Recent Tectonic Movements Along the Coastal Zone of Tuy Hoa Area (Central Vietnam) and Its Significance for Coastal Hazards in the Case of Sea Level Rise. In Advances and Applications in Geospatial Technology and Earth Resources; Proceedings of the International Conference on Geo-Spatial Technologies and Earth Resources 2017, Springer, pp.270-292.

Tran, H. T., Lewry, J. F., Bethune, K. M., Ansdell, K. M., Ashton, K. E., and Yeo, G. M., 2000. Evolution from passive margin to foreland basin along an ancient continental margin: evidence from the Paleoproterozoic Wollaston Group, Cree Lake Zone, northern Saskatchewan, Canada; in: Summit 2000, GSA Annual Meeting, Abstracts with Programs, Reno, USA; p. A376.

Tran, H. T., Lewry, J. F., Bethune, K. M., Ashton, K. E., Yeo, G. M., and Ansdell, K. M., 2000. Crustal thrusting and tectonic imbrication in the Cree Lake Zone, northern Saskatchewan: implications for the tectonic evolution of the western foreland of the Trans-Hudson Orogen; in: Geocanada 2000, the Millennium Geoscience Summit, Calgary, Canada, CD-ROM edition.

Tran Thanh Hai, Dang Van Bat, Nguyen Linh Ngoc, Nguyen Van Can, Nguyen Van Huu, 2004. Tectonic controls on the formation of Cretaceous red-bed deposits in Son La area, northwestern Vietnam: a regional perspective, in Proceeding of the 6th Symposium of IGCP 434: Cretaceous Geology and Resources in South, East Asia and adjacent areas, Hanoi, Vietnam.

Tran, Hai Thanh, Khin Zaw, Halpin, J.A., Manaka, T., Hai, L.V., Hung, D.D., and Hung, N.B., 2009. Nature of the Phuoc Son-Tam Ky Suture in central Vietnam and implications for gold mineralisation, Proceedings of the 10th Biennial SGA Meeting: Townsville, pp. 963-965.

Tran Thanh Hai, Le Anh Tuan, Ngo Van Hung, 2010. Deformational History of Song Chay Fault Zone during Cenozoic and its role in the evolution of Song Hong Basin, Northern Vietnam. Proceedings of International Science and Technology Conference: Vietnam Oil and Gas 2010, v.1. Science and Technique Publ., pp. (in Vietnamese with English Abstract)

Tran Thanh Hai, Ngo Xuan Thanh, Khin Zaw, Jacqueline Halpin, 2011. The occurrence of ophiolite-style assemblages along Sino-Vietnam border, Northeastern Vietnam and its implication to the tectonic evolution of Northeastern Indochina. In Proceedings of the

International Conference on Geology of Indochina (GEOINDO 2011), Khon Kaen, Thailand, December 1-3, 2011, pp. 479-488.

Tran, Hai Thanh, Truong Xuan Le, Khin Zaw, Takayuki Manaka, 2015. Structural controls on gold mineralization in southeastern Truong Son fold-thrust belt and its significance in regional metallogeny. In Proceedings of the PACRIM 2015 Congress, Hong Kong, China, pp. 521-532.

Tran Thanh Hai, Le Hai An, Hoang Ngoc Dong, and Dao Viet Canh, 2015. Tectonic Features of the Cuu Long Basin, Offshore Vietnam during the Early Cenozoic and its Regional Tectonic Implication. Proceedings of the AAPG 2015 Asia Pacific Region Geoscience Technology Workshop, Kota Kinabalu, Sabah, Malaysia, May 26-27, pp.

Tran, Hai Thanh, Thao Phuong Thi Phi, Hieu Minh Le, Dao Anh Vu, Men Thi Bui, Nam Xuan Nguyen, Do Tu Ngo Hoang, 2015. The role of active tectonic movement on the coastal geological hazards: a case study of central Vietnam's coastal zone. Proceedings of the International Conference on Geology, Geotechnology, and Mineral Resources of INDOCHINA (GEOINDO2015), Khon Kaen, Thailand, November 23-24, pp. 1-12.

Khoanta Volabood, **Tran Thanh Hai**, Tran Binh Chu, 2013. Characteristics of Mo-Au and Cu Mineralization in Pha Kieng-Nam Bo area, Muang Long, Lao PDR. In Proceedings of the 3rd Academic conference on Natural Science for Master and PhD students from Asian Countries, Phnom Penh, Cambodia, Nov. 11-15, pp. 373-381.

Priestrzynski, A., **Hai Thanh Tran**, Giang Truong Nguyen, 2017. Timing of uranium mineralization from Mesozoic Nong Son Basin, Central Vietnam. In Proceedings of the 14th SGA Biennial Meetings: Mineral Resource ot Discover, Quebec City, Canada, v. 2, pp. 783-786.

Yeo, G., Delaney, G., and **Tran, H.**, 2000. Paleoproterozoic stratigraphy of the Wollaston Group, Saskatchewan; in: Geocanada 2000, GAC-MAC Annual Meeting, Calgary, Abstract Volume; CD-ROM edition.

Manaka, T., Dinh, Sang Quang, Khin Zaw, Meffre, S., Halpin, J., **Tran, Hai Thanh**, Hai, Le Van, Hung, Nguyen Ba, 2010. Geology and mineralization of the Phuoc Son gold deposits, Central Vietnam. IAGOD Meeting, Adelaide, pp. 141-142.

Reference persons

Dr. K. Bethune, Assoc. Proferssor, Department of Geology, University of Regina, Regina, Saskatchewan, S4S 0A2; Phone: (306) 585 4270, Fax: (306) 585 5433; E-mail: kathryn.bethune@uregina.ca.

Dr. K. Ansdell, Professor, Department of Geological Sciences, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 5E2, Phone: (306) 966 5698, Fax: (306) 966 8593. E-mail: kevin.ansdell@usask.ca.

Dr. Khin Zaw, Professor, Centre for Excellence in Ore Deposits, School of Earth Sciences, University of Tasmania, Australia, Private Bag 126, Hobart, Tasmania 7001; Phone: (3) 6226 2787, Fax: (3) 6226 7662, E-mail: Khin.Zaw@utas.edu.au.

Mr. Steve Dudka, Chief representative, Archipelago Resources PLC (VN), 14 Au Co street, Tay Ho district, Hanoi, Vietnam; Phone: 84 4 37193063, Fax: 84 4 37192960, E-mail: steven.dudka@arpvietnam.com.

Certification

I, the undersigned, certify that to the best knowledge and belief, this curriculum vitae correctly describes myself, my qualification and my experience.

Hanoi, December 30, 2021



Hai Thanh Tran