

CURRICULUM VITAE



PERSONAL INFORMATION

Full Name: Dinh Van HIEP

Date of Birth: September 27th, 1976 **Gender:** Male

Nationality: Vietnamese

Place of Birth: Nam Chinh commune, Nam Sach district, Hai Duong province, Vietnam.

Office in Vietnam: Dept. of Highway and Traffic Engineering, Hanoi University of Civil Engineering, No.55, Giaiphong str., Hanoi, Vietnam.

Address Correspondence: Dept. of Civil & Environmental Engineering, Saitama University, 255 Shimo-Okubo, Sakura-ku, Saitama 338-8570, Japan.

Membership in Professional Societies: Japan Society of Civil Engineering_JSCE (2004), Transportation Research Board_USA (2005), and Eastern Asia Society for Transportation Studies_EASTS (regular). Co-founder & Admin of Transport Infrastructure Development Forum in Vietnam: www.cauduong.net

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CURRENT RESEARCH

- Optimization of maintenance and management strategies of infrastructure assets
- Application of the Highway Development and Management System (HDM-4) incorporated with the HDM-4 Information Management System (HIMS) and the ROad Measurement Data Acquisition System (ROMDAS) in pavement management systems.
- Planning and Management of Urban Transportation, and
- Sustainable Financing Sources for Transport Infrastructure Development and Management

EDUCATION AND PROFESSIONAL TRAINING

- **Doctor of Philosophy** (*expecting up to 2009*), *Transportation Infrastructure Development & Management*, Saitama University, Japan, Academic Advisor: Prof. Koji TSUNOKAWA
- **Master of Science**, *Infrastructure Development & Management*, Saitama University, Japan 2003-2005. Academic Advisor: Prof. Koji TSUNOKAWA
- Certificate, *Training Program on Transport Environment Course in Hanoi*, Univ. of Leeds, Apr. 2002.
- Certificate, *Training Program on Road Sector Professionals in Highway Management and Construction Technology in Hanoi*, Univ. of Nottingham, TRL, Scott Wilson, Nov. 2001.

- Certificate, *Training Program on Assessment of Impact on the Environment Due to Transportation Construction in Hanoi*, D'Experco International – Canada, Nov. 1999.
- **Bachelor of Science**, *Civil Engineering*, National University of Civil Engineering, Vietnam, 1994 – 1999. Academic Advisor: Prof. Nguyen Xuan TRUC.

HONORS AND AWARDS

- Japanese Government Scholarship (Monbukagakusho) for Doctoral Course 2006- 2009
- Grants from International Scientific Committee (Asia) for presenting researches in USA, and Thailand (2005 and 2006)
- Asian Development Bank-Japan Scholarship (ADB-JSP) for Master Course 2003-2005
- Full Vietnamese Government Scholarship for Undergraduate Course 1994 - 1999
- Excellent Student of Competition of Material Strength Subject, 1997, Second Prize
- Compliments of Academic Years (1994 – 1999)
- First Class Honors Certificate for Academic Years (1994 – 1999)

SCIENTIFIC SKILLS

- Highway Development and Management System (HDM-4)
- HDM-4 Information Management System (HIMS)
- Road Measurement Data Acquisition System (ROMDAS)
- Road Costs Knowledge Systems (ROCKS)
- AASHTO Analysis and Design of Pavement
- Highway Geometric Design – Softdesk

ACADEMIC EXPERIENCE

- Full-time Lecturer, Department of Highway and Traffic Engineering, National University of Civil Engineering 1999 – 2003. Teaching Subjects: Pavement Analysis and Design; Pavement Monitoring and Evaluation; Pavement Management Systems; and Maintenance and Management of Pavements.
- Part-time Lecturer, Center of Highway and Traffic Technology, 1999-2003. Teaching Subjects: Application of Advanced Technology in Planning and Design of Highway.

INDUSTRIAL EXPERIENCE

- HDM-4 Analysis Specialist/Team Leader, BCEOM Societe Francaise D' Ingenierie (BCEOM, France), *Road Network Improvement Project (RNIP) – HDM-4 Analysis of National Road Network*, funded by the World Bank, 2005-2006.
- Technical Assistant (Hydrology and Environment), JICA Study Team, *Project of Improvement for Rural Bridges in Northern Mountainous Provinces of Vietnam*, granted Japanese Government, 2006.
- Design Manager, Hai Duong-PPMU, *WB-2 Rural Road Rehabilitation Project*, Haiduong Province, funded by the World Bank, Jul. 2002.
- Planning Consultant, VAA, *Planning of Hamrong Cultural Park*, Thanhhoa City, funded by Vietnamese Gov., Feb. 2002.

- Technical Assistant (Hydrology and Environment), JICA Study Team, *Projects in Reconstruction of Bridges in the central area of Vietnam*, granted Japanese Government, Oct. 2001.
- Highway Consultant, APECO-PCI, *Ring Road No. 3 Project in Hanoi*, BOT scheme, Jun 2001.
- Highway Consultant, TEDI, *Ho Chi Minh National Highway Construction Project*, funded by Vietnamese Gov. Mar. 2001.
- Highway Consultant, TEDI-PCI, *Highway No.18 Rehabilitation Project: Hongai - Cuaong Sections in the Northeast of Vietnam*, funded by JBIC, Japan, Feb. 2001.
- Highway Consultant, SMEC-ROUGHTON, *Highway No. 1 Rehabilitation Project*, funded by the World Bank, Sept. 2000.
- Road Network Planner, HADECO, *Rural Road Network Planning Project at Hatay-Ninhbinh-Vinhphuc Provinces*, funded by the World Bank, Aug. 1999.

LANGUAGE ABILITY

- Vietnamese: Mother Tongue
- English: Fluent at Writing, Reading, Speaking, and Listening
- Japanese: Basic

PUBLICATIONS

Journal papers

- 1) Hiep V.D. and K. Tsunokawa. Optimal Strategies for Maintenance and Rehabilitation of Bituminous Pavements in Vietnam: An Investigation using HDM-4 with Gradient Methods. *Journal of Transportation* (Vietnamese), Vol.9&10/2006.
- 2) Hiep V.D. Prioritization Methods used in HDM-4 for Strategy and Program Analyses of Road Network. *Journal of Highways and Bridges* (Vietnamese), Vol.8/2006, pp 16-22.
- 3) Hiep V.D. HDM-4 Applications for Management and Maintenance of Road Networks in Vietnam: Pitfalls & Future Directions. *Journal of Highways and Bridges* (Vietnamese), Vol.7/2006, pp 23-29.
- 4) Hiep V.D. and K. Tsunokawa. Suitable Maintenance Strategies: A Case Study for Bituminous Pavements in Vietnam Using HDM-4 with Gradient Methods. *Journal of the Eastern Asia Society for Transportation Studies*, Vol.6, 2005, pp.1123-1136.
- 5) Tsunokawa K., D.V. Hiep, and R. Ul-Islam. True Optimization of Pavement Maintenance Options Using HDM-4, A What-If Model, *Journal of Computer-Aided Civil and Infrastructure Engineering*, USA, 21, 2006, pp. 193-204.

Conference papers

- 1) Hiep V.D. and K. Tsunokawa. Identification of Rolling Multiyear Work Programs for Road Network: A Strategy Analysis with Dynamic Sectioning. *12th International Seminar on Transport Research (ISSOT)*, Bangkok, Thailand, Nov. 2006.
- 2) Hiep V.D. and K. Tsunokawa. Suitable Maintenance Strategies: A Case Study for Bituminous Pavements in Vietnam Using HDM-4 with Gradient Methods. *The Eastern Asia Society for Transportation Studies Conference*, Bangkok, Thailand, Sept. 2005.
- 3) Tsunokawa K., D.V. Hiep, and R. Ul-Islam. True Optimization of Pavement Maintenance Options Using What-If Models: An Application of Gradient Search Methods with HDM-4, *Proceedings of the 84th Transportation Research Board Annual Meeting*, Washington, D.C, USA, Jan., 2005.
- 4) Hiep V.D. and K. Tsunokawa. Future Directions for Using HDM-4 Effectively in Pavement Management System of Vietnam. *Proceedings of the 1st Vietnamese-Japanese Students' Scientific Exchange Meeting*, Osaka, Japan, Nov., 2004.
- 6) Tsunokawa K., R. Ul-Islam, & D.V. Hiep. Preliminary Studies for Using HDM-4 Effectively in Strategy Analysis of Road Network. *Proceedings of the 59th Japan Society of Civil Engineers Annual Meeting*, Nagoya, Japan, Sep., 2004.
- 7) Hiep V.D. and R. Ul-Islam. Suitable Intervention Criteria of Periodic Maintenance Standard Works for Bituminous Pavement: A Case Study in Vietnam Using HDM-4. *Proceedings of the 6th Summer International Symposium of Japan Society of Civil Engineers*, Saitama, Japan, Jul., 2004.
- 8) Hiep V.D. and Hai H.D. Initial studying on the application of HDM-4 in Development and Management of road network, *Proceeding of the Fourteenth Scientific and Technology Conference*, 2002, Hanoi University of Civil Engineering.
- 9) Hiep V.D. and Hai H. D. Research on Parameters of Cement Concrete Pavement Design and Determination of Optimal Rigid Pavement Structure, *Proceeding of the Thirteenth Scientific and Technology Conference*, 2001, Hanoi University of Civil Engineering.
- 10) Hiep V.D. and Truc X.. N. Application of AASHTO Guide for Design of Pavement Structures to Vietnamese Condition. *Proceeding of the Twelfth Scientific and Technology Conference*, 2000, Hanoi University of Civil Engineering.