



CONFERENCE FINAL PROGRAMME



www.utc.edu.vn
University of Transport and Communications

ICSCE
<http://icsce2016.utc.edu.vn/>

November 26-27, 2016, Hanoi, Vietnam

Program of ICSCE 2016
Saturday 26 November, 2016

	Start	End	Detailed Programme	
	8:30	8:40	Opening speech and introduce attendance guests	
	8:40	8:45	LOC Chairman Welcome speech	
	8:45	8:55	UTC’ Rector speech	
	8:55	9:00	ISC Chairman welcome speech	
Keynote lecture Chairman: Prof. Dr. Nguyen Viet Trung Prof. Dr. Zheng Jinhai	Conference hall, 4th floor, A8 Building			
	9:00	9:20	<i>Jinhai Zheng</i> , Chi Zhang, Kefeng Chen, Yi Pan	Research and application of beach nourishment in China
	9:20	9:40	<i>Kuniei Nogami</i>	Current state and problems related to maintenance of steel structures in Japan
	9:40	10:00	<i>Abdelhafid Khelidj</i>	Transport properties in concrete: coupling between mechanical and environmental solicitations. Some experimental and numerical results
	10:00	10:15	Coffee break	
	Session 1 Chairman: Assoc. Prof. Dr. Tran Hoai Nam Dr. Nguyen Quang Tuan	Room: 401A8		Sustainability on Resources and Materials
10:15		10:30	<i>Nguyen Quang Tuan</i> , Nguyen Mai Lan, Hoang Thi Thanh Nhan	The relationship between the 3D linear viscoelastic behavior of binders and asphalt mixes: experiment and modeling
10:30		10:45	Xiaobin Zhou, <i>Chaohua Jiang</i> , Shanshan Huang, Zhongyang Shao, Zhiyong Luan	Mechanical investigation of mortar reinforced by polypropylene and basalt fiber for repairing application
10:45		11:00	Hiroki Imai, Nguyen Quang Phuc, Hiromitsu Nakanishi, <i>Tomohiro Ando</i>	Anti-stripping agent for hot mix asphalt pavement

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Session 1 Chairman: Prof. Dr. Tran Hoai Nam Dr. Nguyen Quang Tuan	Room: 401A8		Sustainability on Resources and Materials	
	11:00	11:15	Nguyen Xuan Tung, Kuniei Nogami, Jun Murakosh, Teruhiko Yoda, Hideyuki Kasano	Corrosion measurement method and its application on connections of steel truss bridge
	11:15	11:30	Tran Danh Hoi, Nguyen Quang Tuan	Analyzing the results of complex modulus tests on bitumens using dynamic shear rheometer
	11:30	11:45	Nguyen Tien Dung, Nguyen Duy Tien, Nguyen Hoang Quan	Experimental and modeling study of the effect of initial temperature of fresh concrete on the concrete temperature
	11:45	12:00	Nguyen Duy Tien, Hoang Viet Hai, Le Ba Anh	Survey for application of high performance concrete in precast concrete bridges in Vietnam
	12:00	13:30	Lunch	
Session 2 Chairman: Prof. Dr. Pham Huy Giao Dr. Nguyen Phuong Duy	Room: 402A8		Sustainability on Geotechnical Engineering	
	10:15	10:30	Zhang Yu, Tang Qiang, Nguyen Chau Lan, Inui Toru, Katsumi Takeshi	Hydraulic conductivity of compacted soil treated with microorganism
	10:30	10:45	Anh Tuan Vu, Tatsunori Matsumoto	A study on the interaction behavior of pile foundations through model load tests
	10:45	11:00	Nguyen Thach Bich, Nguyen Phuong Duy	Numerical analysis of ground surface settlement due to volume loss during the tunnel construction by TBM
	11:00	11:15	Nguyen Lan, Chau Ngoc Bao	Design a system for monitoring ground wave propagation due to construction activities base on the arduino microprocessor and labview

Program of ICSCE 2016

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	Start	End	Detailed Programme	
Session 2 Chairman: Assoc. Prof. Dr. Pham Huy Giao Dr. Nguyen Phuong Duy	Room: 402A8		Sustainability on Geotechnical Engineering	
	11:15	11:30	Weiwei Zhang, Chaohua Jiang, Xiaoyu Li, Chongyang Liu, Xing Cheng	Effects of HERB Roots on characteristics of the unsaturated soil in yellow river old riverway
	11:30	11:45	Dao Sy Dan	Prediction of building damage induced by deep excavations in Hanoi, Vietnam
	11:45	12:00	Ngo Huy Dong, Nguyen Chau Lan	Deep mixing method to support road embankment: a case study in central Mekong delta region in Vietnam
	12:00	13:30	Lunch	
Session 3 Chairman: Dr. Dang Minh Tan Dr. Tran Quang Dung	Room: 403A8		Sustainability on Infrastructure Development & Planning	
	10:15	10:30	Thanh Dang Van, Thinh Cao Duc	Green roof model and application proposal in Viet Nam
	10:30	10:45	Chu Tien Dung	Commuting mode choices in developing countries: an evidence from Ho Chi Minh city
	10:45	11:00	Tran Viet Yen, Le Minh Kieu	Urban traffic management utilizing Intelligent Transport System (ITS) in Vietnam: an overview of opportunities and challenges
	11:00	11:15	Tran Quang Dung, Doan Thanh Ky	Construction project outcomes in Vietnam: overcoming challenges toward environmental sustainability
	11:15	11:30	Chu Tien Dung	Estimation of annual vehicle kilometer travelled for CO2 emission analysis

Program of ICSCE 2016
Saturday 26 November, 2016

	12:00	13:30	Lunch	
	Start	End	Detailed Programme	
Session 4 Chairman: Prof. Dr. Kuniei Nogami Dr. Ho Xuan Nam	Conference hall		Sustainability on Transportation Planning, Design and Management	
	10:15	10:30	Taki Naoya, Matsuno Kenji, Kawashima Hideyuki	Construction of the Nhat Tan bridge superstructure
	10:30	10:45	Le Ba Danh, Ho Xuan Nam	Modeling damages and cracks growth in concrete beam using a 3D discrete element method
	10:45	11:00	Ngoc Linh Vu, Kimitaka Uji	Application of CFRP grid for repairing and strengthening concrete structures
	11:00	11:15	Nguyen Dinh Thao, Hong Do Phong, Luong Xuan Ngoc, Chikakuni Maeda	Accuracy Verification and Calibration of Pavement Condition Survey System in Vietnam
	11:15	11:30	Nguyen Phuong Duy, Tran Minh Phuong	Real time monitoring of stay cable tensiles forces for existing bridges by mean an indirect method of vibrating wire theory
	11:30	11:45	Tran The Truyen, Hoang Viet Hai, Le Ba Anh, Nguyen Nam, Pham Van Hung	Design of light weight concrete deck for replacing of wooden ties on steel girder railway bridges
	11:45	12:00	Tran Ngoc Hoa, Ho Xuan Nam, Tran The Truyen	Evaluation of creep effects on span deflection of prestressed continuous cantilever bridge based on ACI and CEB-FIB creep models
	12:00	13:30	Lunch	

Program of ICSCE 2016

Saturday 26 November, 2016

	Start	End	Detailed Programme	
Session 5 Chairman: Prof. Dr. Jinhai Zheng Dr. Nguyen Viet Thanh	Room: 404A8		Sustainability on River, Estuary and Coastal Engineering	
	10:15	10:30	<i>Jisheng Zhang,</i> Lijia Song, Ya Wang	Hydrodynamics around multiple horizontal-axis tidal stream turbines
	10:30	10:45	<i>Sooyoul Kim,</i> Yoshiharu Matsumi, Hajime Mase	Overview of a real time storm surge forecast system on the sanin coast, Japan
	10:45	11:00	<i>Dawei Guan,</i> Jinhai Zheng, Jisheng Zhang	Temporal Development of Scour Hole downstream of Submerged Weirs
	11:00	11:15	<i>Yasuyuki Nakagawa</i>	Characteristics of vertical structure of muddy sediment and their field monitoring
	11:15	11:30	<i>Nguyen The Hung</i>	Dual approach for model construction of solute transport
	11:30	11:45	<i>Le Xuan Roanh</i> Pham Van Lap, Hoang Duc Thao Le Tuan Hai	Toe dike- Traditional Structure and needed improvement requirements
	11:45	12:00	<i>Nguyen Viet Thanh</i>	Study of the improvement regulation schemes for Phan Thiet fishing port, Binh Thuan, Vietnam
	12:00	13:30	Lunch	

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Keynote lecture Chairman: Prof. Dr. Abdelhafid Khelidj Prof. Dr. Nguyen Viet Trung	Conference hall, 4th floor, A8 Building			
	13:30	13:50	<i>Nam Tran,</i> Zhaoxing Xie	Evaluation of warm mix asphalt and high rap mix on NCAT pavement test track
	13:50	14:10	<i>Pham Huy Giao</i>	Analysis of Land Subsidence Effect on Long Linear Structures in Transportation Geotechnics with Some Case Studies in the SE Asia
	14:10	14:30	<i>Thieu Quang Tuan</i> Nguyen Viet Tien Henk Jan Verhagen	Wave transmission at smooth and impermeable submerged dikes on a shallow foreshore
	14:30	14:50	Coffee break	
Session 1 Chairman: Assoc. Prof. Dr. Tran Thi Kim Dang Assoc. Prof. Dr. Luong Xuan Binh	Room: 401A8		Sustainability on Resources and Materials	
	14:50	15:05	<i>Le Vinh An</i>	Influence of temperature on the SCC properties mixed in hot weather conditions
	15:05	15:20	<i>Dao Van Dong,</i> Trinh Hoang Son, Bui Thi Quynh Anh	Study on total replacement of natural aggregate by steel slag aggregate in fly ASH-based geopolymer concrete
	15:20	15:35	<i>Nguyen Dinh Thao</i>	Challenge for forecasting crack progression of asphalt pavement on national road
	15:35	15:50	<i>Dang Thuy Chi,</i> Pham Duy Huu	Efficiency of type and content of lightweight aggregates on strength of concretes
	15:50	16:05	<i>Do Anh Tu</i>	Evaluation of temperature development in bridge pier footing using varying concrete mix designs

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	Start	End	Detailed Programme	
Session 1 Chairman: Assoc. Prof. Dr. Tran Thi Kim Dang Assoc. Prof. Dr. Luong Xuan Binh	Room: 401A8		Sustainability on Resources and Materials	
	16:05	16:20	Nguyen Van Tuoi, Ho Van Quan, Pham Thai Uyet	Study on characteristics of strength and water absorbance and penetration of cement concrete using powdered limestone as cement partial replacement
	16:20	16:35	Mai Tien Chinh, Sartaï. ZM, Demontoux. F	Analytical simulation of the propagation of the radar waves in direct transmission to evaluate the effect of saturation and salinity on the parameters of the radar signal
	16:35	16:50	Hiromitsu Nakanishi, Tran Thi Kim Dang, Nguyen Quang Phuc, Akihiro Kato	Structural analysis of pavement on steel plate deck & epoxy asphalt mixture
Session 2 Chairman: Prof. Dr. Pham Huy Giao Dr. Nguyen Chau Lan	Room: 402A8		Sustainability on Geotechnical Engineering	
	14:50	15:05	Nguyen Thach Bich, Ho Xuan Nam	Analysis of factors affecting the surface subsidence due to shield tunnel construction
	15:05	15:20	Vijak Khupviwat, Pham Huy Giao	Application of Laplace transform and inversion by Gaver-Stehfest algorithm in solving consolidation equation for soft clay
	15:20	15:35	Nguyen Phuong Duy	Ground anchors bearing capacity estimation with the current practice codes of calculation and real case experience confrontation
	15:35	15:50	Nguyen Ba Dong, Pham Hoang Kien	A study of bearing capacity of steel pipe pile with wings installed in soil cement column in soft soil of Hanoi city
	15:50	16:05	Dao Duy Lam, Nguyen Thi Tuyet Trinh	LRFD method for steel rotation pile foundation design in Viet Nam

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Session 4 Chairman: Prof. Dr. Abdelhafid KHELIDJ Assoc. Prof. Dr. Tran The Truyen	Conference hall		Sustainability on Transportation Planning, Design and Management	
	14:50	15:05	<i>Tomonobu Tokuchi,</i> Shinji Kaifuku	Repair project on cable stayed bridge "Binh bridge" damaged by ship collision in Vietnam
	15:05	15:20	<i>Tran The Truyen,</i> Nguyen Thuong Anh, Rouzaud Christophe, Pham Van Hung, Le Ba Anh	Nonlinear modeling of light weight concrete slab on steel girders railway bridge
	15:20	15:35	<i>Le Ba Anh,</i> Hoang Viet Hai, Tran The Truyen	Influence of crack depth on the behavior of reinforced concrete beam
	15:35	15:50	<i>Hoang Kien Pham,</i> Hiroshi Katsuchi	Recommendation for stay cable vibration control
	15:50	16:05	<i>Tran Anh Dung</i>	Prestressed concrete sleeper used guard rail for 1000mm and 1435mm mixed-gauge (R<300m)
	16:05	16:20	<i>Nguyen Huu Thuan,</i> Do Anh Tu, Bui Tien Thanh	Damage in cable-anchorage system of the My Thuan cable-stayed bridge and proposed rehabilitation plan
	16:20	16:35	<i>Nguyen Phuong Duy</i>	Stay cable bridges monitoring in Vietnam – a state of the art and the long term assesement strategy
	16:35	16:50	<i>Nguyen Huu Hung</i>	Dynamic response of a multi-span continuous beam with cracks subjected to moving load

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	Start	End	Detailed Programme	
Session 4 Chairman: Assoc. Prof. Dr. Nguyen Thi Tuyet Trinh Dr. Bui Tien Thanh	Room: 403A8		Sustainability on Transportation Planning, Design and Management	
	14:50	15:05	Nguyen Huu Thuan, Do Anh Tu	Finite element analysis of bridge piers under barge collision load
	15:05	15:20	Bui Cong Do, Nguyen Dinh Thao	Development of pavement management and evaluation system using data collected by inspection vehicle
	15:20	15:35	Nguyen Dac Duc, Nguyen Ngoc Long	Effects of key size and prestressed compression force to the dry-joint shear key resistant in segmental box-girder bridge
	15:35	15:50	Le Dac Hien, Tran The Truyen, Nguyen Viet Trung Nguyen Ngoc Long	Nonlinear modeling behavior of anchorage zone in prestressed concrete girder bridge
	15:50	16:05	Le Ha Linh, Nguyen Thi Cam Nhung	Influence of stiff tower for railway extradosed bridge with steel corrugated webs
	16:05	16:20	Bui Thanh Tung, Nguyen Xuan Lam, Ngo Van Minh	Calculation of design tensile force in the external tendons in several extradosed bridges of Vietnam
	16:20	16:35	Nguyen Duc Thi Thu Dinh, Mac Van Ha	Affect analysis of bearing arrangement to behavior of continuous prestressed concrete horizontally curved hollow beam - slab bridge impacted of temperature, shrinkage and creep

Program of ICSCE 2016

Saturday 26 November, 2016

	Start	End	Detailed Programme	
Session 5 Chairman: Assoc. Prof. Dr. Tran Dinh Nghien Assoc. Prof. Dr. Yasuyuki Nakagawa	Room: 404A8		Sustainability on River, Estuary and Coastal Engineering	
	14:50	15:05	Hiroshi Matsushita, <i>Naozumi Yoshizuka</i> , Tomihiko Iiboshi, Manabu Hamada, Hirokazu Nishimura, Phan Thanh Hai	Application example of armor blocks including new flat-type block to the Tsunami seawall
	15:05	15:20	Nguyen Van Dung, Thieu Quang Tuan, <i>Le Xuan Roanh</i> , Nguyen Van Thin	Research effects of crown-walls having nose to wave overtopping discharges through sea-dikes
	15:20	15:35	<i>Tran Dinh Nghien</i>	Urban Inundation in Ha Noi City due to Impacts of Rapid Urbanisation on Urban Hydrological Processes and Local Climate Changes
	15:35	15:50	<i>Fang Xu</i> , Hong-yan Yue, Li-hua Gu, Jie Zhang, Zhe-hua Zhou	The study on the key points in flood control of Wuhan rail transit line 6
	15:50	16:05	<i>Mai Quang Huy</i>	Culvert design for fish passage using Hec-26 method
	16:05	16:20	<i>Nguyen Binh Minh</i>	Approaches to sustainable river in Ho Chi Minh city: lessons from Yokohama city's experience
	16:20	16:35	<i>Yue Hong-yan</i> , Xu Fang, Qu Geng	Study on Reason and Control Measures of the Deposition at the Intake of Local River of Wuhan Petrochemical Engineering

NOTICE:

1. The registration for ICSCE 2016's participants will be started from 15:00 to 17:00, November 25th, 2016 at the Conference Hall, 4th floor, A8 Building, UTC.

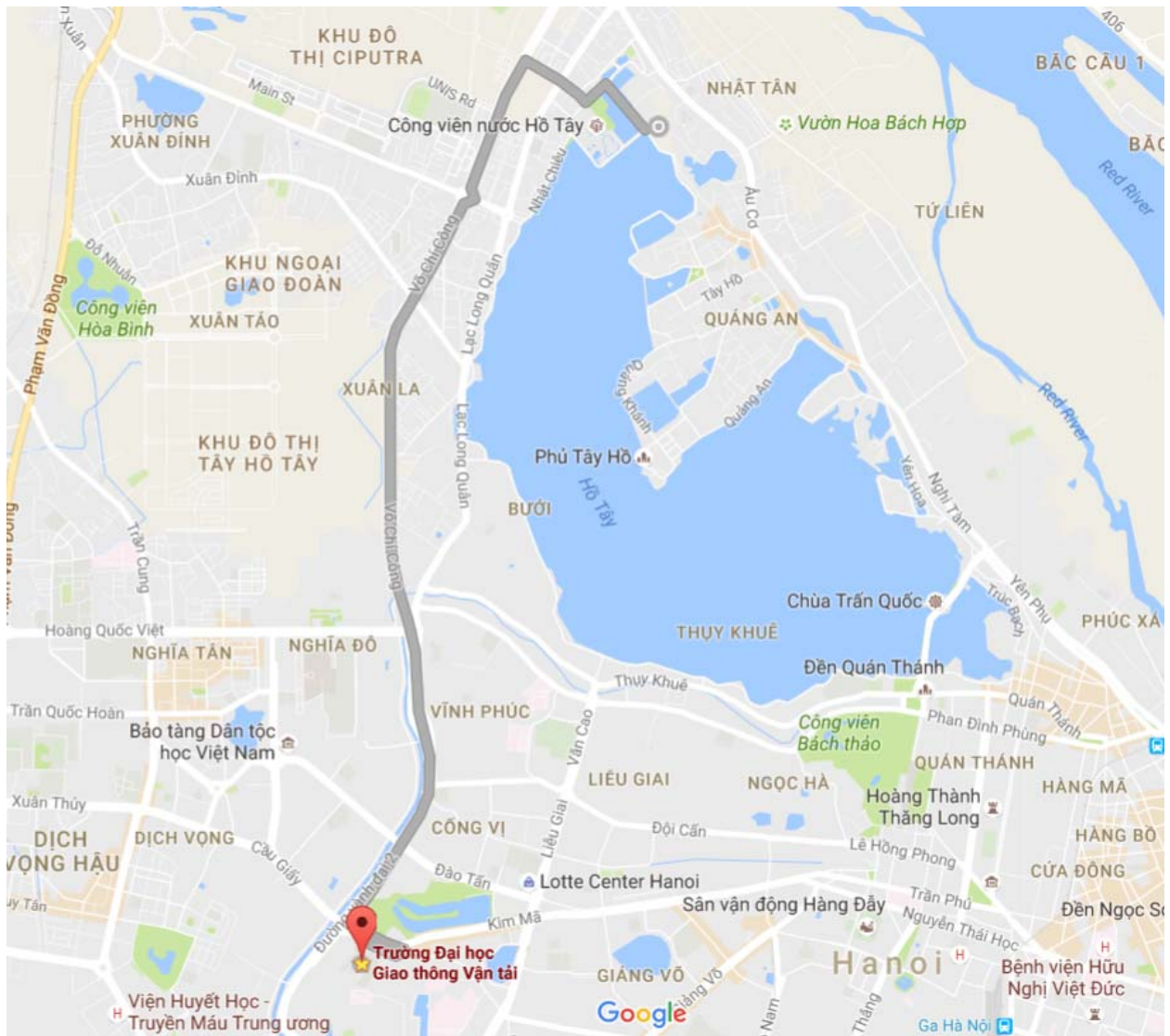
GALA DINNER

GALA DINNER will be organized at Thung Lung Hoa Ho Tay at 18:00, Nov 26th, 2016.

Address, No. 3 Nhat Chieu, Nhat Tan, Tay Ho, Ha Noi, Vietnam.

LOC of ICSCE 2016 will be organized a bus pickup all participants of the ICSCE 2016 in the main gate of the UTC at 17:30.

Detail please sees the map below:



TECHNICAL TOUR

TECHNICAL TOUR will be organized at Ha Long Bay, Quang Ninh Province, Vietnam. We will depart from the main gate of UTC at 7:30AM on Nov. 27th, 2016 to Ha Long bay at 11:00, and then visit Halong bay. The technical tour will be finished at 20:00, Nov. 27, 2016.

Participants need to register at the conference registration desk in the afternoon of Nov. 25th and in the morning of Nov. 26th 2016. You can register by email send direct to LOC of ICSCE2016 by email: icsce2016@utc.edu.vn via vietthanh@utc.edu.vn





HUNG VIET CONSTRUCTION INVESTMENT PRODUCTION JOIN STOCK COMPANY

Office: 25B2-CT4 Building- Van Khe- Ha Dong-Ha Noi

Tel: (+84-4) 6688.8855; Fax: (+84-4)3640.1824 Hotline: 091.272.1850

Email: info@hungvietgroup.vn Website: www.geotech.com.vn

CONSTRUCTION - GEOSYNTHETICS - ENVIRONMENT



GEOTUBE & GEOBAG

Project : Cua Dai Beach, Hoi An city, Quang Nam province

Material : Geotube GT550MC & Geobag GB450MC

Application:

- Protect coast line
- Core of breakwater

- To protect exposed soil slope from erosion
- Dykes and Groynes



GEOGRID

Project : Ha Long Ocean Park, Quang Ninh Province

Item : Retaining wall

Material: Geogrid HV300

Application:

- Retaining wall
- Subgrade stabilization
- Base reinforcement
- Slope stabilization.

GEOCELL

Project : Starlake- West lake Urban Center Area

Item : Open canal & Retention Lake

Material : Geocell GCHV

Application:

- Erosion control and slope protection
- Load support and ground stabilization.
- Chanel protection



TAIYU KENSETSU CO., LTD

<http://www.taiyu.jp/>

Taiyu kensetsu co., Ltd. was established in 1928. We have developed the state of the art and environmentally friendly technologies and materials for over 80 years in Japan.

We are proud that our technologies and materials have gained international recognition. Based on an experience, we will expand our business into new field; energy , agriculture, environment and overseas. As a first step, we will promote strong business partnerships with ASEAN countries.

❖ **Head Office**

5-14-2, Kanayama, Naka-ku, Nagoya, Japan.

❖ **Established:** 1928

❖ **Paid-in Capital:**

660Millions JPY (US \$ 7.827Millions)

❖ **Number of Employees:** 470

❖ **Sales in June 2015:**

22,700Millions JPY (US\$ 218Millions)

❖ **President & CEO:** Yoshio Kawanaka

Principal Business

Construction Business

-Pavement Construction (Highway, Airport, Urban road, Colored pavements for parks, schools, etc.)

-Civil engineering and Construction (Residential Land Development) , Conduit Construction for waterworks, sewage, gas and electricity)

-Building Constructions

Product Sales Business

- Manufacture and sales of Asphalt mixture, Ready mixed concrete, Precast concrete, Asphalt modifier etc.

Environmental Business

- Design & Construction of plant systems, Maintenance of plant systems, Soil survey and remediation

Overseas Business

- Sales of Technically-advanced materials for pavement with technical guidance

Engineering Research Laboratory

-Research and Development of materials for pavements, Investigation and Analysis of new materials for pavements

Overseas:

Taiyu (Shanghai) Trading Co., Ltd. (China)

Taiyu Kensetsu Co., Ltd - Ha Noi Office.

Toan Phat Industry Construction JSC (Vietnam)



大有建設株式会社



EQUIPMENT AND TECHNOLOGY TRANSFER CO., LTD

Head Office:

10th Floor, The Building No. 169 Nguyen Ngoc Vu, Trung Hoa Ward, Cau Giay District, Hanoi
Tel: 04 37830636 Fax: 04 37830634 Email: info@cett.com.vn

Ho Chi Minh Office:

No 42 Le Tuan Mau, Ward 13, District 6, Ho Chi Minh City, Vietnam
Tel: 08 37513736 Fax: 08 62930882 Email: cett-hcm@hcm.fpt.vn

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❖ CETT company established since 2001, with 15 years of experience in providing scientific instruments, laboratory equipment and transfer of technology in the fields of measurement, testing, research, training for assessing quality works of construction, transport, irrigation, ...

❖ CETT is agent and distribute products of world's leading manufacturers as: Olson-USA, InfraTest-Germany, RheoTest- Germany, IPC-Australia, Orton Ceramic-USA, VJ-UK, DT&T-Korea, ...



Cross-hole Sonic Logging system



Concrete Thickness Gauge



Concrete Flexural/Compression Testing Machine



Humburg Wheel Tracker



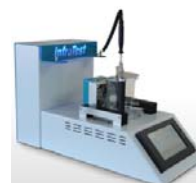
Asphalt dynamic universal testing machine, hydraulic



Fully Automatic Penetrometer of Bitumin



ASPHALTANALYSATOR



Automatic Ring & Ball Testina Apparatus



Soil triaxial testing system



Electro-mechanical Universal Testing Machine for steel



Dynamic Shear Rheometer

❖ With the support of the manufacturers and the trust of customers, turnover of CETT about \$5M-\$8M USD/year and it is on the way grow

❖ CETT commits free advice to you and supplies best products and after sales services to you

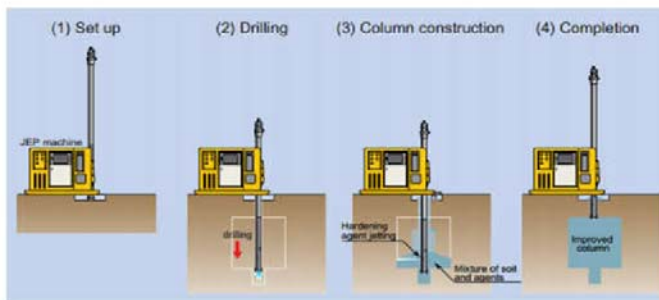
❖ Please contact us for detail above products and more information about other products and laboratory equipment for testing of construction, transport, irrigation, ...

Sales engineering: Mr. Cao Van Quy – 0917 153 886 – cvquy@cett.com.vn

RAITO – FECON INNOVATIVE GEOTECHNICAL ENGINEERING JOINT STOCK COMPANY (RFI., JSC) was established based on the combination of leading construction corporations in Vietnam and Japan, is a company specializing in handling soft ground by special technologies as Jet Grouting, Grouting.

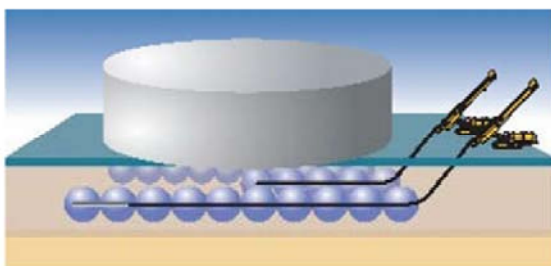
JET GROUTING

Jet Grouting is a technique of mixing in-situ soil with the energy of high-pressure jet of slurry. A small-diameter rod drills down to the improvement bottom. Then the rod, while being withdrawn, jets the cement-base slurry and air to produce an improved column. Jet Grouting enables improvement closely contacted to or, in some cases, encompassing existing underground structures without causing damage to them.



GROUTING, CHEMICAL GROUTING

Grouting is a technique to inject various types of grout into the ground at a deliberately controlled pressure and flow rate. The grout is based on cement, silicate, or other materials, selected to suit particular ground conditions and improvement objectives. The grout fills in voids and cracks of the ground and permeates into soil pores to produce a solidified soil-grout mass. The grouting is often applied to improve the ground underneath existing structures such as large oil tanks, railroad tracks and others. Directional drilling technique is often employed for drilling boreholes to circumvent underground obstructions to reach the target improvement zone.



With business guideline for providing innovative solutions for foundation works, RFI commits to providing solutions, product, and services to meet the maximum requirement of customers and investors.

RAITO – FECON INNOVATIVE GEOTECHNICAL ENGINEERING JOINT STOCK COMPANY (RFI., JSC)
19 Floor, CEO Tower, Plot HH2-1, Pham Hung Street, Me Tri Ward, Nam Tu Liem District, Hanoi City, Vietnam
TEL: +(84-4) 6256 4499/ FAX: +(84-4) 6258 4000 / Email: k-hirai@raito.co.jp – Mr. HIRAI KAZUAKI – Director

VITEC ENGINEERING „JSC was founded by a group of the professors, doctors of engineering and technical experts in diversified fields such as bridge and road, tunnel, port, coastal and offshore, traffic, new material and technology and etc. As symbolized by the name of our company **VITEC Engineering (Value Integrated Technologies for Civil Engineering)**, we are working hard to meet and exceed the expectations and diverse needs of new technology. **VITEC** has also the meaning of **Viet TECHNOlogy** that we hope to study, transfer, apply and combine the advanced technology solutions for Vietnam.

CÔNG TY CỔ PHẦN KỸ THUẬT VITEC (VITEC ENGINEERING., JSC)



Office: R. 405 - DMC Tower, 535 Kim Ma, Ba Đình, HANOI, VIETNAM
Address: No. 8, Alley 115, Nguyen Khang, Cau Giay, HANOI
Tel.: (+84)4.6674.7166
E-mail: office@vitec-eng.com ; <http://vitec-eng.com>



SERVICES SCOPE AND ACTIVITIES

➔ **Traffic demand forecasting:**

- + Traffic demand forecasting for before and after Nhat Tan bridge opening.

➔ **Survey, design and inspection of bridge and building:**

- + Inspection and loading test of Phú Xuân and Trung Thành suspension bridge, Rào Il cable stayed bridge.
- + Survey and design of Laboratory building at the research and testing stations in the sea, Đầm Báy – Nha Trang.

➔ **Survey, design of port, estuary and coastal engineering**

- + Survey and design of working to expand access boat dock and breakwater construction, Đầm Báy - Nha Trang.
- + Design of shelter area to convey at the estuary Tac river, Nha Trang Bay, Khánh Hòa.
- + Design of shelter area to convey at the Cam Ranh Bay, Khánh Hòa.

➔ **Supervision consultants :**

- + Supervision consultants of Laboratory building at the research and testing stations, Đầm Báy – Nha Trang.
- + Supervision consultants for expanding access boat dock and breakwater construction, Đầm Báy - Nha Trang.

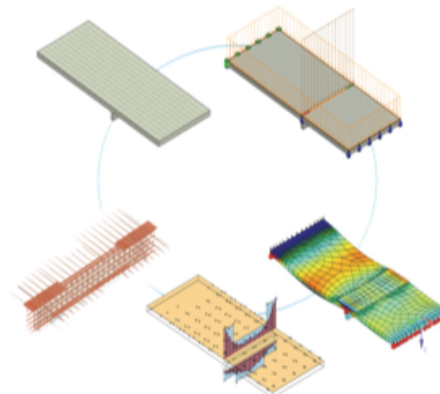
➔ **Training and Technology transfer :**

- + Joint study on anti-corrosion of steel pile under the ground and coastal environment in Vietnam.
- + Study on new technologies of construction such as SPSP, Steel rotation pipe.

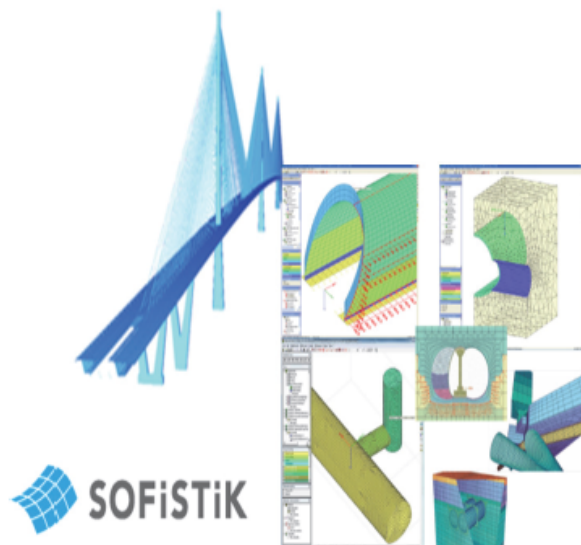


Training and Technology transfer

➔ **New solution in the design:**



BIM-Workflow in Structural Engineering





UNIVERSITY OF TRANSPORT AND COMMUNICATIONS



RESEARCH AND APPLICATION CENTER FOR TECHNOLOGY IN CIVIL ENGINEERING (RACE)

GENERAL INTRODUCTION

LEGAL BASIS: DECS ORDER NO 2007/QĐ-ĐHGTVT 13 - 10 - 2015

FUNCTION: FUNDAMENTAL - APPLIED RESEARCH, CONSULTANT, EXAMINATION, TRAINING AND TECHNOLOGY TRANSFER

MEMBER: LECTURES IN THE CONSTRUCTION ENGINEERING DEPARTMENT, THE CIVIL ENGINEERING DEPARTMENT ...

PARTNER: RESEARCHERS, TECHNOLOGY EXPERTS, PHD STUDENTS ...

STRUCTURE: TEAM RESEARCHS, ONLINE

CONTACT: 501 T1 - UNIVERSITY OF TRANSPORT AND COMMUNICATIONS
TEL 09 11 45 10 80 - RACE.UTC@GMAIL.COM - WWW.RACE.EDU.VN

HIGHLIGHT ACTIVITIES: 25 ISI PAPERS (2014 – 11/2016); 05 NAFOSTED CHAIR PROJECTS; 03 TEAM RESEARCHS; 02 TRAINING PROGRAMS; COOPERATION DEAL WITH FRENCH EXPERTS ON TECHNOLOGY TRANSFER (VINSTECH) ...

RESEARCHES AND TECHNOLOGY TRANSFER		TRAINING CONSULTANT
GROUP: STRUCTURAL ENGINEERING	GROUP: MECHANICS OF MATERIALS	INTENSIVE PROGRAM FOR INTERNATIONAL UNDERGRADUATE STUDENTS (IPUS)
RESEARCH TOPIC:	RESEARCH TOPIC:	CONTENT:
<ul style="list-style-type: none">EXPERIMENTAL INVESTIGATION ON THE SEISMIC BEHAVIOUR OF STRUCTURENUMERICAL MODELING OF THE NONLINEAR BEHAVIOUR OF STRUCTUREDEVELOPMENT OF NEW STRUCTURE TYPES, RETROFITTING EXISTING STRUCTURES	<ul style="list-style-type: none">EXPERIMENTATION AND MODELING ON THE THERMO-MECHANICAL BEHAVIOR OF CONSTRUCTION MATERIALS: ASPHALT MIXTURES, CEMENT CONCRETES...RESEARCH AND APPLICATION OF MODERN AND GREEN MATERIALS: RECYCLED MATERIALS, ADDITIVES FOR ASPHALT AND CEMENT CONCRETE, ULTRA-HIGH PERFORMANCE CONCRETEFROM MATERIALS PROPERTIES TO STRUCTURES ANALYSIS AND CALCULATIONS	<ul style="list-style-type: none">GIVE FUNDAMENTAL AND ADVANCED KNOWLEDGE FOR STUDYING ABROADPROGRAMME IN ACCORDANCE WITH THE COURSE OF OVERSEA UNIVERSITIESALL LECTURES ARE PHD, HAVE EXPERIENCE WORKING AT INTERNATIONAL UNIVERSITIESLEVES: UNIVERSITY DEGREE (IPLUS 1); MASTER (IPUS 2); DOCTOR (IPUS 3); SUPPORT PACKAGE (IPUS PLUS)
CONTACT: NGUYENXUANHUY@UTC.EDU.VN	CONTACT: QUANGTUAN.NGUYEN@UTC.EDU.VN	CONTACT: NGUYEN.TIENDUNG@UTC.EDU.VN
GROUP: MULTISCALE MODELING	TECHNOLOGY TRANSFER PROJECTS	PROFESSIONAL TRAINING PROGRAM IN CIVIL & TRANSPORT ENGINEERING
RESEARCH TOPIC:	APPROACH:	CONTENT:
<ul style="list-style-type: none">CALCULATION OF MATERIAL PROPERTIES OR SYSTEM BEHAVIOR ON ONE LEVEL USING INFORMATION OR MODELS FROM DIFFERENT LEVELSMETHOD: MULTISCALE ANALYSIS METHODS - COMPUTATIONAL MULTISCALE METHODS - EXPERIMENTAL APPROXIMATIONS	<ul style="list-style-type: none">COOPERATION IN THE FIELD OF TRANSPORTS AND CONSTRUCTION TECHNOLOGIESEXPANDING BUSINESS BY COOPERATION WITH FRENCH PARTNERSWORKING IN SOME OF THE VARIETIES OF TECHNOLOGY TRANSFER SUCH AS CONCRETE RECYCLING, FIBER REINFORCED CONCRETE, INTELLIGENT LIGHTING SYSTEM, SUSTAINABLE DRAINAGE SYSTEM	<ul style="list-style-type: none">BUILDING UP A PROFESSION COURSE ON WORKING SKILLS IN CIVIL & TRANSPORT ENGINEERINGBUILDING UP A COMMUNICATION FORUM/TOOLS BETWEEN EXPERT AND STUDENT ABOUT ACTUAL TOPIC: SOFT SKILLS, WORKING EXPERIENCES,...TRAINING COURSE: COST ESTIMATE IN CIVIL ENGINEERING, SPECIALIZED SOFTWARE FOR CIVIL ENGINEERING, TRAINING COURSES FOR CONSTRUCTOR, PROJECT MANAGEMENT,...
CONTACT: NTKIEN@UTC.EDU.VN	CONTACT: VIETTB@UTC.EDU.VN	CONTACT: MINHCUONG.LE@UTC.EDU.VN

RESEARCH AND APPLICATION CENTER FOR TECHNOLOGY IN CIVIL ENGINEERING - UNIVERSITY OF TRANSPORT AND COMMUNICATIONS
Office 501 T1 - No 3 Cau Giay Street, Lang Thuong, Dong Da, Ha Noi – www.race.edu.vn

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1. HISTORY FOUNDED

- Established under the decision No. 336/TCCB on February 23, 1999 of the Minister of Education and Training.
- Operating certificate of Science and Technology by the Minister of Science and Technology No. 103 dated 15.06.1993 and No. 1389 dated 17. 09.2015 of the Minister of Science and Technology.
- Leadership Center through periods: Prof.Dr. Le Van Hoang from 1993 to 2010 and Dr.Nguyen Lan from 2010 to now.

2. THE FIELDS OF ACTIVITY

- Scientific research and technology transfer in the fields of construction, engineering, energy, chemical technology and environmental engineering.
- Manufacturing and trading of products is the result of scientific research and technological development
- Investment consultancy, investment project planning, survey, design, planning, technical design, shop drawing design, estimate; Consultant selection of contractors, verification, supervision of construction and installation of equipment; Project management consultancy, materials testing, and structural test; Quality inspection, monitoring and assessment of the quality of construction, infrastructure, energy, industrial engineering, chemical technology and environment; Check product quality certification of goods.
- Training of professional training in supervision of construction, management of construction investment projects, valuation construction, management and operation of condominiums, management specialized laboratory, tester in construction, training on occupational safety and health, information technology applications in the building; Training and dissemination of new legislation in the field of construction.

3. SOME RESEARCH TOPICS AND A NUMBER OF CONSULTING PROJECTS IMPLEMENTATION

 <p><i>Topic "" Look at perfecting technology from the waste water treatment process rubber processing combined with collection of biogas energy source for production under the Clean Development Mechanism (CDM) "</i></p>	 <p><i>Professional consultation Hai Van Tunnel, Package IV</i></p>	 <p><i>Technology consulting iso-tension of cables and loading test of Dakke bridge at Kontum province</i></p>	 <p><i>Verification of deep foundation pit, geotechnical monitoring, supervision of construction of Dalat Trading Center.</i></p>
 <p><i>Survey and design outdoor theater in Hoi An</i></p>	 <p><i>Survey and design the road from Highway No.14E to ruins area district commissioner V</i></p>	 <p><i>Inspection of Thuan Phuoc suspension bridge, Danang city</i></p>	 <p><i>Supply and installation of equipment, for monitoring dams Alin-Hue and hydropower NamKong, Lao.</i></p>
 <p><i>Inspection Tra Bong Bridge, Quangngai.</i></p>	 <p><i>Vibration measurement by the project construction activities.</i></p>	 <p><i>Survey and design of d labor unions office, Kontum</i></p>	 <p><i>Cooperation with Kyowa provides monitoring system.</i></p>