

เอกสารแนบ

องค์ประกอบที่ 1 การกำกับมาตรฐานหลักสูตรปริญญาตรี
ตัวบ่งชี้ที่ 1.1 (ข้อ 2 และ 3)

รายชื่อผลงานวิจัยย้อนหลัง 5 ปี (2014 – 2019)

ศาสตราจารย์ ดร.กิตติเทพ เฟื่องขจร

International Journals:

- 1) Thongprapha, T., Liapkrathok, P., Chanpen, S., and **Fuenkajorn, K.**, 2020, Frictional behavior of sandstone fractures under forward-backward pre-peak cyclic loading. *Journal of Structural Geology*. 138, 104106.
- 2) Naphudsa, P., Thongprapha, T., and **Fuenkajorn, K.**, 2020, Effect of stress path on shearing resistance of sandstone fractures. *Songklanakarin Journal of Science and Technology*. 42(2), 339-345.
- 3) Saoanunt, N., Chanpen, S., Khamrat, S., Thongprapha, T., and **Fuenkajorn, K.**, 2019, Prediction of shallow salt cavity geometry from surface subsidence configurations, *Arabian Journal of Geosciences*, 12. DOI: 10.1007/s12517-019-4976-x.
- 4) Sartkaew, S., Khamrat, S., and Fuenkajorn, K., 2018, Physical model simulation of surface subsidence under sub-critical condition. *International Journal of Physical Modelling in Geotechnics*, DOI 10.1680/jphmg.17.00029.
- 5) Naphudsa, P., Thongprapha, T., and Fuenkajorn, K., 2018, Effect of stress path on shearing resistance of sandstone fractures. *Songklanakarin Journal of Science and Technology*, (Accepted for publication)
- 6) Liapkrathok, P., Khamrat, S., Thongprapha, T. and Fuenkajorn, K., 2018, Shearing resistance of fractures in saturated Phra Wihan sandstone, *Research and Development Journal of the Engineering Institute of Thailand*. 29(3), 37-46.
- 7) Junthong, P., Khamrat, S., Sartkaew, S., and **Fuenkajorn, K.**, 2018, Determination of time-dependent strengths of salt pillars based on strain energy principle. *International Journal of Mining Science and Technology*, DOI 10.1016/j.ijmst.2018.04.011
- 8) Khamrat, S., Thongprapha, T., and **Fuenkajorn, K.**, 2018, Thermal effects on shearing resistance of fractures in Tak granite. *Journal of Structural Geology*, 111, 64-74.
- 9) Weingchanda, P., Khamrat, S., Thongprapa, T., and **Fuenkajorn, K.**, 2018, Shear strengths of fractures in Tak granite under orthotropic stresses. *Songklanakarin Journal of Science and Technology*, (Accepted for publication)
- 10) Artkhonghan, K., Sartkaew, S., Thongprapha, T., and **Fuenkajorn, K.**, 2018, Effects of stress path on shear strength of a rock salt. *International Journal of Rock Mechanics and Mining Sciences*, 104, 78-83.

- 11) Artkhonghan, P., Sartkaew, S., Khamrat, S., and **Fuenkajorn, K.**, 2018. Compressive strengths of Maha Sarakham salt under constant σ_m and constant σ_3 stress paths. *Songklanakarin Journal of Science and Technology*, 40(6), 1291-1299.
- 12) Khamrat, S., Tepnarong, P., Artkhonghan, K., and **Fuenkajorn, K.**, 2018, Crushed Salt consolidation for borehole sealing in potash Mines. *Geotechnical and Geological Engineering*, 36(1), 49-62.
- 13) Khamrat, S., and **Fuenkajorn, K.**, 2018, Mechanical performance of consolidated crushed salt as backfill in boreholes and shafts. *Songklanakarin Journal of Science & Technology*, 40(2), 430-438.
- 14) Phatthaisong, K., Sartkaew, S., and **Fuenkajorn, K.**, 2018, Effects of loading rate and temperature on strength and deformability of Maha Sarakham salt. *Songklanakarin Journal of Science & Technology*, 40(2), 359-366.
- 15) Khamrat, S., Tepnarong, P., Artkhonghan, K. and **Fuenkajorn, K.**, 2017, Crushed salt consolidation for borehole sealing in potash mines. *Geotechnical and Geological Engineering*. DOI 10.1007/s10706-017-0301-1.
- 16) Luangthip, A., Wilalak, N., Thongprapha, T. and **Fuenkajorn, K.**, 2017, Effects of carnallite content on mechanical properties of Maha Sarakham rock salt. *Arabian Journal of Geosciences*. Vol. 10, No. 149, pp. 1-14.
- 17) Khamrat, S. and **Fuenkajorn, K.**, 2017, Mechanical performance of consolidated crushed salt as backfill in boreholes and shafts. *Songklanakarin Journal of Science and Technology*. (Accepted for publication).
- 18) Phatthaisong, k., Sartkaew, S. and **Fuenkajorn, K.**, 2016, Effects of loading rate and temperature on strength and deformability of Maha Sarakham salt. *Songklanakarin Journal of Science and Technology*. (Accepted for publication).
- 19) Kleepmek, M., Khamrat, S., Thongprapha, T. and **Fuenkajorn, K.**, 2016, Displacement Velocity Effects on Rock Fracture Shear Strengths. *Journal of Structural Geology*. Vol. 90, pp. 48-60.
- 20) Thaweeboon, S., Dasri, R., Sartkaewand, S. and **Fuenkajorn, K.**, 2016, Strength and Deformability of Small-scale Rock Mass Models under Large Confinements. *Bulletin of Engineering Geology and the Environment*. DOI 10.1007/s10064-016-0871-9.
- 21) Khamrat, S., Archeeploha, S. and **Fuenkajorn K.**, 2016, Pore Pressure Effects on Strength and Elasticity of Ornamental Stones. *ScienceAsia*. Vol. 42, pp. 121-135.
- 22) Archeeploha, S., Khamrat, S. and **Fuenkajorn, K.**, 2016, Effects of Intermediate Principal Stress on Creep Closure of Storage Caverns in Maha Sarakham salt. *Songklanakarin Journal of Science and Technology*. (Accepted for publication)

- 23) Kamonphet, T., Khamrat, S. and **Fuenkajorn, K.**, 2015, Effects of Cyclic Shear Loads on Strength, Stiffness and Dilation of Rock Fractures. Songklanakarin Journal of Science and Technology. Vol. 37, No. 6, pp. 683-690.
- 24) Thongprapha, T., **Fuenkajorn K.** and Daemen, J.J.K., 2015, Study of Surface Subsidence above an Underground Opening using a Trap Door Apparatus. Tunnelling and Underground Space Technology. Vol. 46, pp. 94-103.
- 25) Wisetsaen, S., Walsri, C. and **Fuenkajorn, K.**, 2015, Effects of Loading Rate and Temperature on Tensile Strength and Deformation of Rock Salt. International Journal of Rock Mechanics and Mining Sciences, Vol. 73, pp. 10-14.
- 26) Wetchasat, K. and **Fuenkajorn, K.**, 2014, Mechanical and Hydraulic Performance of Sludge-Mixed Cement Grout in Rock Fractures. Songklanakarin Journal of Science and Technology. Vol. 36, No. 4, pp. 477-482.

National Journals:

- 1) Patitung, N., **Thongprapha, T.** and Fuenkajorn, K., 2020, Frictional behavior of sandstone fractures under pre-peak cyclic loading conditions, Research and Development Journal of the Engineering Institute of Thailand, 31(1), 23-32.
- 2) Sittimongkol, L., **Thongprapha, T.** and Fuenkajorn, K., 2020, Properties of compacted bentonite-aggregate mixtures as backfill in salt and potash mines, Research and Development Journal of the Engineering Institute of Thailand, 31(1), 45-53.
- 3) Suwannabut, W., **Thongprapha, T.** and Fuenkajorn, K., 2020, Mechanical performance of consolidated crushed salt mixed with $MgCl_2$ brine for carnalite mine backfill, Research and Development Journal of the Engineering Institute of Thailand, 31(1), 33-43.
- 4) Worawat, S., Thongprapha, T. and Fuenkajorn, K., 2019, Mechanical performance of consolidated crushed salt mixed with $MgCl_2$ brine for carnalite mine backfill, Research and Development Journal of the Engineering Institute of Thailand. (Accepted for publication).
- 5) Champanoi. S., Khamrat, S., Thongprapha, T. and Fuenkajorn, K., 2019, Permeability of Phu Phan and Sao Khua sandstones under high confining pressures (10- 50 MPa), Research and Development Journal of the
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- 7) Torsangtham, P., Khamrat, S., Thongprapha, T. and Fuenkajorn, K., 2018, Laboratory assessment of long-term durability of some decorating and construction rocks, Research and Development Journal of the Engineering Institute of Thailand. (Accepted for publication).
- 8) Lahib, S., Khamrat, S., Thongprapha, T. and Fuenkajorn, K., 2018, Mechanical integrity of cement seals in exploratory boreholes and its stability due to mine subsidence, Research and Development Journal of the Engineering Institute of Thailand. 29(4), 101-110.
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- 10) Plangklang, J., Artkhonghan, K., Tepnarong, P. and Fuenkajorn, K., 2017, Time-Dependent Tensile Strength of Maha Sarakham Salt, Research and Research and Development Journal of the Engineering Institute of Thailand. (Accepted for publication).
- 11) Theerapun, C., Khamrat, S., Sartkeaw, S. and Fuenkajorn, K., 2017, Effects of Backfill Compositions on Integrity of Underground Salt and Potash Mines, Research and Development Journal of the Engineering Institute of Thailand. 28(2), 15-22.
- 12) Junthong, P., Tepnarong, P., Artkhonghan, K. and **Fuenkajorn, K.**, 2016, "Prediction of time-dependent strengths of salt pillars using strain energy principle", Research and Development Journal of the Engineering Institute of Thailand. 27(4), 29-37.
- 13) Luangthip, A., Khamrat, S. and **Fuenkajorn, K.**, 2016, "effects of carnallite content on extraction ratio and borehole stability of potash mines", Suranaree Journal of Science and Technology. (Accepted for publication).
- 14) Sartkaew, S. and **Fuenkajorn, K.**, 2016, "Verifications of empirical method and numerical simulation using physical model for subsidence prediction of Maha Sarakham formation", Research and Development Journal of the Engineering Institute of Thailand. 26(2), 7-14.
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- 19) Komenthammasopon, S. and **Fuenkajorn, K.**, 2014, "Effects of Stress Path on Biaxial Strengths of Sandstones", Research and Development Journal of the Engineering Institute of Thailand, Vol. 26, No. 2, pp. 49-58.
- 20) Sartkaew, S. and **Fuenkajorn, K.**, 2014, "Determination of Safe Withdrawal Rates of Compressed-air Energy Storage in Salt Caverns", Research and Development Journal of the Engineering Institute of Thailand, Vol. 26, No. 2, pp. 7-14.
- 21) Somtong, S., Khamrat, S. and **Fuenkajorn, K.**, 2014, "Laboratory Performance Assessment of Consolidated Crushed Salt for Backfill Material in Potash Mine Openings", Research and Development Journal of the Engineering Institute of Thailand, Vol. 26, No. 1, pp. 15-22.
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- 23) กิตติเทพ เฟื่องขจร และ ภาควิชา วิศวกรรมโยธา, 2014, "ผลกระทบของอุณหภูมิต่อการเปลี่ยนแปลงในหินแกรนิต", วารสารวิชาการพระจอมเกล้าพระนครเหนือ, ปีที่ 24, ฉบับที่ 2, หน้า 298-307.
- 24) คมกริช เวชสัสถ์ และ กิตติเทพ เฟื่องขจร, 2014, "ศักยภาพเชิงกลศาสตร์และเชิงกลศาสตร์ของส่วนผสมตะกอนดินกับซีเมนต์อัดในรอยแตกของหิน", วิศวกรรมสารฉบับวิจัยและพัฒนา, ปีที่ 25, ฉบับที่ 2, หน้า 39-51.
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Conference Papers:

- 1) Pongpeng, K., Tepnarong, P., Artkhonghan, K. and **Fuenkajorn, K.**, 2017, Performance assessment of three-ring compaction and direct shear mold for testing granular and

- clayey mixtures, The 11th SEATUC Symposium, 13- 14 March 2017, Ho Chi Minh City University of Technology (HCMUT), Vietnam.
- 2) Chanpen, S., Artkhonghan, K., Chitnarin, A. and **Fuenkajorn, K.**, 2017, Effect of roof strata on tunnel stability in sandstone, The 11th SEATUC Symposium, 13- 14 March 2017, Ho Chi Minh City University of Technology (HCMUT), Vietnam.
 - 3) Plangklang, J., Artkhonghan, K., Tepnarong, P. and **Fuenkajorn, K.**, 2017, Time-dependent tensile strength and deformation of rock salt, The 11th SEATUC Symposium, 13-14 March 2017, Ho Chi Minh City University of Technology (HCMUT), Vietnam.
 - 4) Theerapun, C., Chitnarin, A., Artkhonghan, K. and **Fuenkajorn, K.**, 2017, Effect of mine tailing backfill on pillar stability in salt and potash mines, The 11th SEATUC Symposium, 13-14 March 2017, Ho Chi Minh City University of Technology (HCMUT), Vietnam.
 - 5) Luangthip, A., Khamrat, S. and **Fuenkajorn, K.**, 2016, Effects of Carnallite Contents on Stability and Extraction Ratio of Potash Mine. In Proceedings of the 9th Asian Rock Mechanics Symposium, 18-20 October, 2016, Bali, Indonesia.
 - 6) Wilalak, N. and **Fuenkajorn, K.**, 2016, Constitutive Equation for Creep Closure of Shaft and Borehole in Potash Layers with Varying Carnallite Contents. In Proceedings of the 9th Asian Rock Mechanics Symposium, 18-20 October, 2016, Bali, Indonesia.
 - 7) Chobsranoi, M. and **Fuenkajorn, K.**, 2016, Maximum Unsupported Span and Standup Time of Potash Mine Roof as affected by Carnallite Contents. In Proceedings of the 9th Asian Rock Mechanics Symposium, 18-20 October, 2016, Bali, Indonesia.
 - 8) Junthong, P. and **Fuenkajorn, K.**, 2016, Determination of Time-Dependent Strengths of Salt Pillars using Strain Energy Density Criterion. In proceedings of the 9th Asian Rock Mechanics Symposium, 18-20 October, 2016, Bali, Indonesia.
 - 9) Thongprapha, T., Khamrat, S. and **Fuenkajorn, K.**, 2016, Determination of Safe Withdrawal Rates of Compressed-air Energy Storage Caverns in Maha Sarakham Salt. In Proceedings of the 9th Asian Rock Mechanics Symposium, 18-20 October, 2016, Bali, Indonesia.
 - 10) Thongprapha, T., **Fuenkajorn, K.**, and Daemen, J.J.K., 2015, Physical and Numerical Simulations of Super-critical Subsidence as affected by Opening Geometries and Depths. In Proceedings of the ISRM Regional Symposium EUROCK 2015 and 64th Geomechanics Colloquium. 7-10 October, 2015, Salzburg, Austria, pp. 1107-1112.
 - 11) Khamrat, S. and **Fuenkajorn, K.**, 2015, Mechanical and Hydraulic Properties of Consolidated Crushed Salt for Use as Backfill in Salt and Potash Mines. In proceedings of the 5th GEOINDO 2015 International Conference on Geology, Geotechnology, and Mineral Resources of INDOCHINA, 23-24 November, 2015, Khon Kaen, Thailand.

- 12) Sattrra, P. and **Fuenkajorn, K.**, 2015, Compaction Tests of Sludge-crushed Salt Mixture for Sealing of Salt and Potash Mines. In proceedings of the 5th GEOINDO 2015 International Conference on Geology, Geotechnology, and Mineral Resources of INDOCHINA, 23-24 November, 2015, Khon Kaen, Thailand.
- 13) Kleepmek, M., and Fuenkajorn, K., 2015, Experimental Assessment of Rock Fracture Shear Strength under Shear Velocity and Confinement. In proceedings of the 5th GEOINDO 2015 International Conference on Geology, Geotechnology, and Mineral Resources of INDOCHINA, 23-24 November, 2015, Khon Kaen, Thailand.
- 14) Charoenpiew, P., **Fuenkajorn, K.** and Phueakphum, D., 2015, Laboratory Assessment of Healing of Fractures in Rock Salt under Stresses and Elevated Temperatures. In Proceedings of the 9th Seatuc Symposium, 27-30 July, 2015, Suranaree University of Technology, Nakorn Ratchasima, Thailand, pp. 18-21.
- 15) Bumrungsuk, A. and **Fuenkajorn, K.**, 2015, Mechanical and hydraulic properties of sludgecrushed salt mixture as applied for backfill material in salt and potash mines. In Proceedings of the 9th Seatuc Symposium, 27-30 July, 2015, Suranaree University of Technology, Nakorn Ratchasima, Thailand, pp. 318-321.
- 16) Saoanunt, N. and **Fuenkajorn, K.**, 2015, Physical model simulations of super-critical subsidence as affected by mining sequence and excavation rate. In Proceedings of the 9th Seatuc Symposium, 27-30 July, 2015, Suranaree University of Technology, Nakorn Ratchasima, Thailand, pp. 22-25.
- 17) Sattrra, P. and **Fuenkajorn, K.**, 2015, Shear strength of compacted sludge-crushed salt mixtures. In Proceedings of the 9th Seatuc Symposium, 27-30 July, 2015, Suranaree University of Technology, Nakorn Ratchasima, Thailand, pp. 322-325.
- 18) Niewphueng, U. and **Fuenkajorn, K.**, 2015, Compacted bentonite-crushed salt mixtures as sealents in rock salt and potash openings. In Proceedings of the 9th Seatuc Symposium, 27-30 July, 2015, Suranaree University of Technology, Nakorn Ratchasima, Thailand, pp. 326-329.
- 19) Khamrat, S., and **Fuenkajorn, K.**, 2015, Consolidation of Crushed Salt Backfill for Salt and Potash Mines. VEITROCK 215 international Symposium on Rock Mechanics for Sustainable Development, 12-13 March, 2015, Hanoi, Vietnam, Published by International Society for Rock Mechanics Vietnamese Society for Rock Mechanics - Vietnam NG of ISRM, pp. 105-111.
- 20) Meemun, P., and **Fuenkajorn, K.**, 2015, Shear Strength Testing under Constant Normal Load and Constant Normal Stiffness as Affected by Displacement Rates. VEITROCK 215

- international Symposium on Rock Mechanics for Sustainable Development, 12-13 March, 2015, Hanoi, Vietnam, Published by International Society for Rock Mechanics Vietnamese Society for Rock Mechanics - Vietnam NG of ISRM, pp. 131-138.
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 - 22) Kleepmek, M., and **Fuenkajorn, K.**, 2015, Strengths of Rock Fractures as Affected by Shear Velocities and Confinements. VEITROCK 215 international Symposium on Rock Mechanics for Sustainable Development, 12-13 March, 2015, Hanoi, Vietnam, Published by International Society for Rock Mechanics Vietnamese Society for Rock Mechanics - Vietnam NG of ISRM, pp. 139-148.
 - 23) Thongprapha, T., **Fuenkajorn, K.** and Daemen, J. J. K., 2015, Physical Model Simulation of Surface Subsidence under Super Critical Condition. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 15-34.
 - 24) Khamrat, S., and **Fuenkajorn, K.**, 2015, Effects of Loading Rate and Pore Pressure on Compressive Strength of Six Rock Types. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 35-66.
 - 25) Komenthammasopon, S., and **Fuenkajorn, K.**, 2015, Effects of Stress Path on Biaxial Strengths of Three Thai Sandstones. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 67-80.
 - 26) Ponchunchoovong, M., Punyokun, K. and **Fuenkajorn, K.**, 2015, Design and Construction of Navigation Canal at Mawlamyine, Myanmar. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 163-172.
 - 27) Kleepmek, M. and **Fuenkajorn, K.**, 2015, Experimental Assessment of Shear Velocity Effect on Rock Fracture Shear Strength: Preliminaries Results. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa,

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- 28) Naphuds, P. and **Fuenkajorn, K.**, 2015, Shear Strength of Granite Fractures under Elevated Temperatures. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 199-212.
- 29) Thaweeboon, S. and **Fuenkajorn, K.**, 2015, Study of Rock Mass Strength and Deformability using Laboratory Test Models. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 213-230.
- 30) Sayasinchana, A. and **Fuenkajorn, K.**, 2015, Asean Potash Mining Project: Mine Design and Surface Subsidence. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 277-278.
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- 32) Phatthaisong, K. and **Fuenkajorn, K.**, 2015, Effects of Temperatures and Loading Rate on Salt Strength and Elasticity. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 307-326.
- 33) Sartkaew, S. and **Fuenkajorn, K.**, 2015, Stress Rate Effects on Mechanical Properties of Salt under Elevated Temperatures. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, pp. 327-344.
- 34) Somtong, S. and **Fuenkajorn, K.**, 2015, Experimental Assessment of Crushed Salt Consolidation. Proceedings of the Fifth Thailand Symposium on Rock Mechanics, January 22-23, 2015, Romantic Resort & Spa, Khao Yai, Nakhon Ratchasima, Thailand,

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- 6) Jaroenklang, J., Chitnarin, A., Pokhee, N. and **Tepnarong, P.**, 2017, Estimation of mechanical property of carbonate rocks using ultrasonic test. Proceedings of the 11th South East ASEAN Technical University Consortium Symposium, 13-14 March, Vietnam.
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อ.ดร.ธนัชฐา ทองประภา

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อาจารย์ ดร.เกียรติศักดิ์ อัจจงหาญ

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