KITTITEP FUENKAJORN

Current Professor, Geotechnology, Suranaree

University of Technology

Positions: Chair, Geomechanics Research Unit,

Head, Geotechnology Department, Suranaree University of Technology

Education: Postdoctoral Fellow, University of Arizona (1988-1990)

Ph.D. Geological Engineering, University of Arizona (1988)

Civil Engineering (Minor)

M.S. Geological Engineering, University of Arizona (1985)

B.S. Geology, Chulalongkorn University, Bangkok (1979)

Registrations: Registered Professional Engineer (P.E.) with proficiency in

Mining Engineering, State of Arizona (Reg. No. 30662) Geological Engineering, State of Arizona (Reg. No. 27163)

Employment Records & Accomplishments:

November 13 Professor: SURANAREE UNIVERSITY OF TECHNOLOGY

- Present Teaching Courses

Rock Mechanics

• Rock Slope Engineering

• Mining Geology

• Geological Engineering

• Mining Engineering

• Flow Through Fractures

Advanced Rock Mechanics

Underground Excavations in Rock

Rock Salt Mechanics

Numerical Methods in Geomechanics

Design Methodology in Geomechanics

• Foundations on Rock

March 98- Associate Professor: SURANAREE UNIVERSITY OF TECHNOLOGY October 13

July 94-March 98

Principal: ROCK ENGINEERING INTERNATIONAL, ARIZONA

Direct and conduct research and consulting projects in rock and soil mechanics with a main emphasis on design and analysis of slopes and openings in rock.

- Design of tunnels and slope stabilization system in rock.
- Conducted technical review of DOE design reports on underground repository facility, including site characterization, TBM excavation, blast design, shaft, ramp and drift design, tunnel supports, and ventilation.
- Developed Compliance Determination Methods for the designs of the underground facility for the US Nuclear Regulatory Commission.
- Designed operating pressures for gas storage caverns.
- Investigated ground failure and subsidence of salt mine in Michigan basin.

Jan. 91- **Project Manager:** SERATA GEOMECHANICS, INC., CALIFORNIA Directed and conducted research and consulting projects in geomechanic

Directed and conducted research and consulting projects in geomechanics, hydrology, and geotechnical engineering, including numerical modeling, laboratory testing, and site investigation.

- Measured *in situ* stresses and mechanical properties in underground coal, salt and potash mines using borehole stress-meter and penetrometer.
- Designed operating pressures for storage caverns in salt.
- Designed pressure cells and stress-meter probes for in-situ measurements.



- Developed computer model to determine the mechanical and hydraulic behavior of openings and caverns in rock salt.
- Computer modeling of mine roof stability and ground subsidence.
- Laboratory rock characterization tests.

June 88- Adjunct Professor: UNIVERSITY OF ARIZONA

Jan. 91 Conducted lab. and field investigations to assess mechanical and hydrological performance of nuclear waste repository tuff and backfill materials, i.e. mechanical characterization tests, *in situ* flow tests, fracture grouting tests, and borehole permeability tests under triaxial and dynamic loading. Project manager of borehole sealing research funded by the US Nuclear Regulatory Commission (NRC).

- Performed site investigation, in situ drilling, core and video logging.
- Derived empirical strength criterion for heterogeneous tuff.
- Applied FEM & BEM to analyze stresses and fluid flow in rock, borehole seals, and their interface under waste repository environments.
- Developed and implemented Quality Assurance program.

May 86- Research Assistant II: UNIVERSITY OF ARIZONA

May 88 Conducted laboratory research on salt mechanics for nuclear waste disposal.

- Performed creep and rate-controlled uniaxial & triaxial tests and borehole closure test under triaxial and polyaxial stresses.
- Measured brine flow through rock salt under triaxial loading.
- Derived mechanical constitutive models for salt.

Aug. 82- Teaching/Research Assistant I: UNIVERSITY OF ARIZONA

Dec. 86

- Derived analytical solutions to determine stability of rock slope subject to bolt force, water pressure and static acceleration.
- Assisted in teaching GEN626 Rock Slope Design.
- Conducted laboratory experiments to assess the effect of borehole wall drilling damage on nuclear waste repository sealing in basaltic rock, i.e. ring tension tests, fracture flow tests, and petrographic analyses.

July 79- Engineering Geologist: ITALIAN-THAI DEV. CO, BANGKOK

Dec. 79

- Supervised drilling of 140 observation and pressure-relief wells.
- Designed blasting program for emergency spillway construction.
- Site investigation for diversion tunnels and dam abutment.

Professional Contributions:

- Conference Chairman, 4th Thailand Rock Mechanics Symposium (2013).
- Conference Chairman, 3rd Thailand Rock Mechanics Symposium (2011).
- Conference Chairman, 2nd Thailand Rock Mechanics Symposium (2009).
- Conference Chairman, 1st Thailand Rock Mechanics Symposium (2007).
- Reviewer of research proposals for the U.S. National Science Foundation.
- Reviewer of internal proposals for the Idaho Board of Education, USA.
- Session Chair of the 1995 US Rock Mechanics Symp., Reno, Nevada.
- Technical editor of Chapman & Hall publisher, London.
- Reviewer of Elsevier Geoscience Journals, Amsterdam.
- Reviewer for the Department of Energy Development and Promotion on Hydrological Modeling in Northeastern Thailand.
- Reviewer for the Thailand Research Funds.
- Reviewer for the National Research Council of Thailand.
- Advisor for the Soil Mechanics Sub-Committee, Engineering Institute of Thailand

Professional Members:

- Engineering Institute of Thailand
- American Society of Civil Engineers
- American Geophysical Union
- International Society for Rock Mechanics
- Society of Mining Engineers
- American Rock Mechanics Association (founder).

Past Member: Society of Petroleum Engineers; Association of Engineering Geologists; American Society for Testing and Materials.

Honor & Awards:

- Cash Award (2002) from Thailand Research Fund, for Excellent Research Project and Project Management.
- Postdoctoral Fellowship (1988-1990) from the U.S. Nuclear Regulatory Commission, Washington D.C.
- Honor (1980) Center for English as a Second Language, University of Arizona.
- Cash Prizes (1976-1979) 1st rank of class, Chulalongkorn U., Bangkok

Sponsored Research and Consulting Projects:

1) "Study of Nuclear Waste Disposal into Deep Boreholes in Granite"

Principal Investigator: Kittitep Fuenkajorn

October 2012– September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

2) "Long-Term Storage of Industrial Wastes in Rock Salt"

Principal Investigator: Kittitep Fuenkajorn

October 2011– September 2012

Funded by: Suranaree University of Technology, Nakhon Ratchasima

3) "Time-dependent behavior of rock salt under cycles of Mechanical and thermal loadings"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

4) "Simulation of Surface Subsidence in 3-Dimensions Using Scaled-down Physical Model"

Principal Investigator: Kittitep Fuenkajorn

October 2011– September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

5) "Brazilian Tensile Strength Testing under Axial Compression"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

6) "Assessment of Mechanical Performance of Rock Salt Formation for Natural Gas Storage in

Northeastern Thailand"

Principal Investigator: Kittitep Fuenkajorn

October 2010– September 2012

Funded by: Suranaree University of Technology, Nakhon Ratchasima

7) "Three-ring compaction and direct shear testing mold"

Principal Investigator: Kittitep Fuenkajorn

May 2011 – October 2011

Funded by: Royal Highness Princess Maha Chakri Sirindhorn's Innovation Fund,

Suranaree University of Technology, Nakhon Ratchasima

8) "Performance Assessment of Rock Salt Formation in the Northeast of Thailand for CO2

Storage"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

9) "Effects of Cyclic Loading on Rock Joint Shear Strength"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

10) "Design and Invention of Biaxial Loading Device for Rock Specimens"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

11) "Brazilian Tensile Strength Testing under Axial Compression"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2012

Funded by: Suranaree University of Technology, Nakhon Ratchasima

12) "Simulation of Surface Subsidence in 3-Dimensions using Scaled-Down Physical Model"

Principal Investigator: Kittitep Fuenkajorn

October 2011 – September 2013

Funded by: Suranaree University of Technology, Nakhon Ratchasima

13) "Time-dependent behavior of rock salt under cycles of Mechanical and thermal loadings"

Principal Investigator: Kittitep Fuenkajorn

October 2012 – September 2014

Funded by: Suranaree University of Technology, Nakhon Ratchasima

14) "Industrial Wastes Storage in Rock Salt"

Principal Investigator: Kittitep Fuenkajorn

October 2010 – September 2011

Funded by: Suranaree University of Technology, Nakhon Ratchasima

15) "การศึกษาและออกแบบการบำบัดความเป็นกรดของน้ำในบ่อเหมืองลี้ จ.ลำพูน"

Principal Investigator: Kittitep Fuenkajorn

July – August 2011

Funded by: Siam Cement Group (SCG) Siam Cement Road, Bangkok 10800

16) "การศึกษาเสถียรภาพตามแนวการเว้นขอบบ่อเหมืองเป็นระยะ 5 เมตรของเหมืองแร่ยิปซัม ต.ทุ่งทอง อ.หนองบัว จ.นครสวรรค์บริษัท ปนซีเมนต์นครหลวง จำกัด (มหาชน) เพื่อประกอบคำขอประทานบัตร เลขที่ 2/2546

(16802/14862) และคำขอที่ 1/2548 (29543/15476)"

Principal Investigator: Kittitep Fuenkajorn

June 2011

Funded by: Siam City Cement PCL., Saraburi

17) "การศึกษาเสถียรภาพโดยรวมของเขื่อนคันดินบ่อกักเก็บกากแร่ เหมืองแร่ทองคำภูทับฟ้า ต.เขาหลวง อ.วังสะพุง จ.เลย"

Principal Investigator: Kittitep Fuenkajorn

September 2011

Funded by: Tongkah Harbour Public Company Limited

18) "Finite Element Analysis on 34/44 LPG Gallery, Gallery 10 and Caverns 33 and 43 of Finger

Lakes LPG Storage, LLC"

Principal Investigator: Kittitep Fuenkajorn

March 2010 – May 2010

Funded by: International Gas Consulting, Houston, Texas

19) "Design and Study of Mae Tan Lignite Mine, Lampang Province"

Principal Investigator: Kittitep Fuenkajorn

April 2010 – June 2010

Funded by: Siam Cement Group (SCG) Siam Cement Road, Bangkok 10800

20) "Invention of Salt Core Leaching Device"

Principal Investigator: Kittitep Fuenkajorn

February 2010 – July 2010

Funded by: Royal Highness Princess Maha Chakri Sirindhorn's Innovation Fund,

Suranaree University of Technology, Nakhon Ratchasima

21) "Invention of Compression-to-Tension Load Converter"

Principal Investigator: Kittitep Fuenkajorn

October 2009 – March2010

Funded by: Royal Highness Princess Maha Chakri Sirindhorn's Innovation Fund,

Suranaree University of Technology, Nakhon Ratchasima

22) "Polyaxial Creep Test of Rock Salt"

Principal Investigator: Kittitep Fuenkajorn

October 2009 – September 2011

Funded by: Suranaree University of Technology, Nakhon Ratchasima

23) "Large-Scaled Slake Durability Testing"

Principal Investigator: Kittitep Fuenkajorn

October 2009 – September 2011

Funded by: Suranaree University of Technology, Nakhon Ratchasima

24) "Finite Element Analysis on Arcadia Gas Storage Caverns E-5, E-6, E-7 and E-8"

Principal Investigator: Kittitep Fuenkajorn

July 2009 – October 2009

Funded by: International Gas Consulting, Houston, Texas

25) "Finite Element Analysis on Kinder Morgan Storage Caverns C-2, C-4 and C-5, North

Dayton Salt Dome, North Texas"

Principal Investigator: Kittitep Fuenkajorn

September 2009 – February 2010

Funded by: Kinder Morgan, Houston, Texas

26) "Finite Element Analysis for Gas Storage Caverns "Joy Station Storage Project" Kiowa

County, Kansas"

Principal Investigator: Kittitep Fuenkajorn

May 2008 – August 2008

Funded by: Golden Gas Services Company, Tulsa, Oklahoma

27) "Inergy Savona LPG Storage Facility: Finite Element Analysis"

Principal Investigator: Kittitep Fuenkajorn

March 2008 – March 2009

Funded by: International Gas Consulting, Houston, Texas

28) "Design of Pit Walls (Mine-O) of SCG Limestone Quarry"

Principal Investigator: Kittitep Fuenkajorn

September 2008 – November 2009

Funded by: Siam Cement Group – Taluang, Saraburi

29) "Design and Analysis of Final Pit Walls of SCCC Limestone Quarry"

Principal Investigator: Kittitep Fuenkajorn

July – August 2008

Funded by: Siam City Cement PCL., Saraburi

30) "Experimental Assessment of Rock Fracture Permeability under Confining Pressure"

Principal Investigator: Kittitep Fuenkajorn

October 2007 – September 2009

Funded by: Suranaree University of Technology, Nakhon Ratchasima

31) "Development of Computer Program to Determine Size, Shape and Depth of Salt Caverns

Using Surface Subsidence as Data Input"

Principal Investigator: Kittitep Fuenkajorn

October 2007 – September 2009

Funded by: Suranaree University of Technology, Nakhon Ratchasima

32) "Invention of True Triaxial Compression Apparatus for Rock Testing"

Principal Investigator: Kittitep Fuenkajorn

October 2007 – September 2009

Funded by: Suranaree University of Technology, Nakhon Ratchasima

33) "Study of Mechanical Stability of Rock Slope and Tunnel as Affected by Earthquake

Vibration and Joint Characteristics by using Physical Modeling"

Principal Investigator: Kittitep Fuenkajorn

October 2006 – September 2008

Funded by: Suranaree University of Technology, Nakhon Ratchasima

34) "Mississippi Hub, LLC Gas Storage Caverns: Finite Element Analysis"

Principal Investigator: Kittitep Fuenkajorn

March 2007 – August 2007

Funded by: International Gas Consulting, Inc., Houston, Texas

35) "Design Evaluation of Canatxx Presall Gas Storage Facility"

Principal Investigator: Kittitep Fuenkajorn

January 2006 - July 2006

Funded by: Canatxx Inc., Houston, USA

36) "Study of Surface Subsidence of Potash Mine at Bamnet Narong District, Chaiyaphum Province"

Principal Investigator: Kittitep Fuenkajorn

August 2005 – October 2005

Funded by: ASEAN Potash Mining Public Company Limited, Bangkok

37) "TuzGolu Underground Gas Storage Facility in Turkey: Finite Element Analysis"

Principal Investigator: Kittitep Fuenkajorn

April 2005 – June 2005

Funded by: World Bank, USA

38) "Design of Mine Panels at Udon South Potash Project"

Principal Investigator: Kittitep Fuenkajorn

December 2002 – December 2003

Funded by: Asia Pacific Potash Corp., Udon Thani

39) "Design of Rock Slope in Thailand for Long Term Stability by Incorporating Rock Mass

Degradation"

Principal Investigator: Kittitep Fuenkajorn

October 2005 – September 2007

Funded by: Suranaree University of Technology, Nakhon Ratchasima

40) "Design of Salt Solution Mining for Siam Submanee Co., Ltd., Nakhon Ratchasima"

Principal Investigator: Kittitep Fuenkajorn

April 2004 – May 2004

Funded by: Siam Submanee Co., Ltd., Nakhon Ratchasima

41) "Solar Thermal Energy Storage in Rock Fills"

Principal Investigator: Kittitep Fuenkajorn

October 2004 – September 2006

Funded by: Suranaree University of Technology, Nakhon Ratchasima

42) "Development of a Shear Strength Criterion for Rock Joints Using Field-Determined

Parameters"

Principal Investigator: Kittitep Fuenkajorn

October 2003 – September 2005

Funded by: Suranaree University of Technology, Nakhon Ratchasima

43) "Prediction of Mechanical Properties of Rock Salt from Petrographic Features Using Neural

Network"

Principal Investigator: Kittitep Fuenkajorn

October 2003 – September 2005

Funded by: Suranaree University of Technology, Nakhon Ratchasima

44) "Experimental Assessment of Rock Salt Mechanics for Compressed-Air Energy Storage in Northeastern Thailand"

Principal Investigator: Kittitep Fuenkajorn

May 2003 – November 2004

Funded by: Department of Alternative Energy and Development of Efficiency

45) "Development of Expert System for Design of Borehole Seals in Rocks"

Principal Investigator: Kittitep Fuenkajorn

October 2002 – September 2003

Funded by: Suranaree University of Technology, Nakhon Ratchasima

46) "Determination of Elastic Modulus of Intact Rock by Modified Point Load Testing"

Principal Investigator: Kittitep Fuenkajorn

October 2002 – September 2004

Funded by: Suranaree University of Technology, Nakhon Ratchasima

47) "Experimental Assessment of Rock Salt Mechanics for Compressed-Air Energy Storage in Northeastern Thailand"

Principal Investigator: Kittitep Fuenkajorn

October 2001 – September 2002

Funded by: Suranaree University of Technology, Nakhon Ratchasima

48) "Development of Computer Software for Analysis and Design of Rock Slopes Based on Expert's Knowledge and Experience"

Principal Investigator: Kittitep Fuenkajorn

October 2001 – October 2003

Funded by: Suranaree University of Technology, Nakhon Ratchasima

49) "Mechanical Performance of Rock Salt Formations for Nuclear Waste Disposal in Northeastern Thailand"

Principal Investigator: Kittitep Fuenkajorn

June 2001 – June 2003

Funded by: Thailand Research Fund (สกว), Bangkok

50) "Theoretical and Experimental Studies to Determine Compressive and Tensile Strengths of Rocks Using Modified Point Load Testing"

Principal Investigator: Kittitep Fuenkajorn

September 2000 – December 2001

Funded by: Thailand Research Fund (สกว), Bangkok

51) "Theoretical and Experimental Assessment to Determine the Relationships between Point

Load Index and Elasticity, Compressive and Tensile Strengths of Rock"

Principal Investigator: Kittitep Fuenkajorn

October 2000 – September 2001

Funded by: Suranaree University of Technology, Nakhon Ratchasima

52) "Design and Analysis of the Keystone Gas Storage Project, Salado Salt Formation Texas"

Principal Investigator: Kittitep Fuenkajorn

June 2000 – December 2000

Funded by: Unocal Corporation, Sugar Land, Texas, USA

53) "Derivation of Design Guidelines for Salt Solution Mining for Small and Medium Sized Enterprises in Northeastern Thailand"

Principal Investigator: Kittitep Fuenkajorn

June 2000 – January 2001

Funded by: Suranaree University of Technology, Nakhon Ratchasima

54) "Design Optimization and Analysis of Solution Cavern Field in Salt Formations in the Northeastern Part of Thailand Using Time-Dependent Finite Element Methods"

Principal Investigator: Kittitep Fuenkajorn

October 1999 – September 2000

Funded by: Suranaree University of Technology, Nakhon Ratchasima

55) "Analytical and Numerical Assessment of the Potential Waste Repository in Rock Salt Formations in Northeastern Thailand"

Principal Investigator: Kittitep Fuenkajorn

July 1999 – July 2000

Funded by: Suranaree University of Technology, Nakhon Ratchasima

56) "Design and Analysis of Liquefied Petroleum Gas Storage Caverns of Amoco Wells"

Principal Investigator: Kittitep Fuenkajorn

May 2000 – July 2000

Funded by: International Gas Consulting, Inc., Houston, Texas

57) "Feasibility Design of Gas Storage Caverns of UNOCAL in Hutchinson Salt Formations"

Principal Investigator: Kittitep Fuenkajorn

August 1999 – December 1999

Funded by: International Gas Consulting, Inc., Houston, Texas

58) "Feasibility Design of Pit Slope and Underground Supports for Don Mario Mine, Bolivia"

Principal Investigator: Kittitep Fuenkajorn

June 1999 – December 1999

Funded by: Orvana Empresa Minera Paititi S.A., Santa Cruz, Bolivia

59) "Feasibility Design of the Underground Supports and Layout for Pegasus Gold Mine"

Principal Investigator: Kittitep Fuenkajorn

February 1997 – March 1997

Funded by: Diamond Hill Mining, Inc., Townsend, Montana

60) "Development of the Quality Assurance Program for the Nuclear Waste Repository Seals at

Yucca Mountain, Nevada"

Principal Investigator: Kittitep Fuenkajorn

January 1995 – January 1996

Funded by: Southwest Research Institute, San Antonio, TX

61) "Analysis and Design of the Supports for Rock Slope at Morenci Copper Mine"

Principal Investigator: Kittitep Fuenkajorn

May 1995 – June 1995

Funded by: The Winters Company, Tucson, Arizona

62) "Design of Fracture Grouting in Anhydrite Bed"

Principal Investigator: Jaak J.K. Daemen Co-Principal Investigator: Kittitep Fuenkajorn

Funded by: Sandia National Laboratories, Waste Isolation Pilot Plant, New Mexico

63) "Salt Permeability in Relation to Stress State and Cavern Design"

Principal Investigator: Shosei Serata

Co-Principal Investigator: Kittitep Fuenkajorn

Funded by: Solution Mining Research Institute, Woodstock, Illinois

64) "Geomechanics Investigation of Compresses-Air Energy Storage in Salt Cavern"

Principal Investigator: Shosei Serata

Co-Principal Investigator: Kittitep Fuenkajorn

Funded by: Electric Power Research Institute, Generation / Storage Division, CA

65) "Laboratory and Field Studies of Tuff Sealing Performance"

Principal Investigator: Jaak J.K. Daemen Co-Principal Investigator: Kittitep Fuenkajorn

Funded by: US Nuclear Regulatory Commission, Washington, D.C.

Professional Consulting Experience:

Salt Work Co., Ltd. ASEAN Potash Mining Public Co., Ltd. (Thailand)

Siam Cement Group Asia Pacific Potash Corp. (Canada)

Siam City Cement PLC. International Gas Consultants, Inc. (Texas)
World Bank (USA) Orvana Empresa Minera Paititi (Bolivia)
Thai Kali Co., Ltd. Diamond Hill Mining, Inc. (Montana)
Canatxx Inc. (USA) Southwest Research Institute (Texas)

Siam Submanee (Thailand) AETAS Associates; AETAS Ventures, Inc.

Aggie Consultants (Thailand) Southeastern Michigan Gas Company
Akara Mining Co. Northwestern Utilities Limited (Canada)
Italian-Thai Development Co. Muramoto Construction Company (Japan)

Serata Geomechanics, Inc. Bear Coal Company

St. Clair Ethylene Storage Clinchfield Coal Company

Dow Chemical USA International Mineral & Chemical Corporation (Canada)

Dow Chemical Canada Phelp Dodge Co.

MINDECO (Japan) Sifto Canada, Incorporated

Mitsui Corporation (Japan) Genwal Coal Mine

Books:

- 1) **Fuenkajorn, K.** and Phien-Wej, N. (authors & editors). 2013, *Proceedings of the Fourth Thailand Symposium on Rock Mechanics*, January 24-25, Wang Nam Keaw, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, 355 pp.
- 2) **Fuenkajorn, K.** 2012, *Rock Mechanics*, Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, 618 pp. (in Thai)

- **Fuenkajorn, K.** and Phien-Wej, N. (authors & editors). 2011, *Proceedings of the Third Thailand Symposium on Rock Mechanics*, March, 10-11, Cha-Am, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, 285 pp.
- 4) **Fuenkajorn, K.** and Phien-Wej, N. (authors & editors). 2009, *Proceedings of the Second Thailand Symposium on Rock Mechanics*, March, 12-13, Pataya, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, 372 pp.
- 5) **Fuenkajorn, K.** and Phien-Wej, N. (authors & editors). 2007, *Proceedings of the First Thailand Symposium on Rock Mechanics*, September, 13-14, Khao Yai, Thailand, Published by Geomechanics Research Unit, Suranaree University of Technology, Nakhon Ratchasima, 323 pp.
- 6) **Fuenkajorn, K.** 2003, *Fundamentals of Rock Mechanics*, Eason Paint Product, Co., Bangkok, Thailand, 210 pp. (in Thai)
- 7) **Fuenkajorn, K**. and J.J.K. Daemen (authors & editors). 1996, *Sealing of Boreholes and Underground Excavations in Rock*, Chapman & Hall, London, 322 pp.

International Journals:

- 1) Sriapai, T., Walsri, C. and **Fuenkajorn, K.**, 2013. True-Triaxial Compressive Strength of Maha Sarakham Salt. *International Journal of Rock Mechanics and Mining Sciences*. Vol. 61, pp. 256-265.
- 2) Phueakphum, D. and **Fuenkajorn, K**. and Walsri, C., 2013, Effects of Intermediate Principal Stress on Tensile Strength of Rocks. *International Journal of Fracture*. DOI 10.1007/s10704-013-9829-0.
- 3) Kapang, P., Walsri, C., Sriapai, T. and **Fuenkajorn, K.**, 2013, Shear Strength of Sandstone Fractures under True Triaxial Stresses. *Journal of Structural Geology*. Vol. 48, pp. 57-71.
- 4) Sriapai, T., Walsri, C., Phueakphum, D. and **Fuenkajorn, K.**, 2012, Physical Model Simulation of Seawater Intrusion in Unconfined Aquifer. *Songklanakarin Journal of Science and Technology*. Vol. 34, No. 6, pp. 679-687.
- 5) Walsri, C., Sriapai, T., Phueakphum, D. and Fuenkajorn, K., 2012, Simulation of Sandstone Degradation using Large-Scale Slake Durability Index Testing Device. *Songklanakarin Journal of Science and Technology*. Vol. 34, No. 5, pp. 587-596.
- 6) Sriapai, T., Walsri, C. and **Fuenkajorn, K**., 2012, Effect of Temperature on Compressive and Tensile Strength of Salt. *Science Asia*, Vol. 38, pp. 166-174. (DOI: 10.2306/scienceasia1513-1874.2012.38.166).
- 7) **Fuenkajorn, K.,** Sriapai, T. and Samsri, P., 2012, Effects of Loading Rate on Strength and Deformability of Maha Sarakham Salt. *Engineering Geology*. Vol. 135–136, pp. 10–23.
- 8) **Fuenkajorn, K**., Walsri, C. and Phueakphum, D., 2011, Intrinsic Variability of the Mechanical properties of Maha Sarakham Salt. *Quarterly Journal of Engineering Geology and Hydrogeology*. Vol. 44, pp. 445-456 (DOI 10.1144/1470-9236/10-018).

- 9) **Fuenkajorn, K.** and Phueakphum, D., 2011, Laboratory Assessment of Healing of Fractures in Rock Salt. *Bulletin of Engineering Geology and the Environment*. Vol. 70, No. 4, pp. 665-672. (DOI 10.1007/s10064-011-0370-y).
- 10) Phueakphum, D. and **Fuenkajorn, K.**, 2010, A Rock Fills Based Solar Thermal Energy Storage System for Housing. *Science Asia*, Vol. 36, pp. 237-243 (DOI: 10.2306/scienceasia1513-1874.2010.36.237).
- 11) **Fuenkajorn, K.** and Klanphumeesri, S., 2010, Laboratory Determination of Direct Tensile Strength of Intact Rocks. *ASTM Geotechnical Testing Journal*, Volume 34, No. 1, Paper ID GTJ103134.
- 12) **Fuenkajorn, K.** and Kenkhunthod, N., 2010, Influence of Loading Rate on Deformability and Compressive Strength of Three Thai Sandstones. *Geotechnical and Geological Engineering*, Volume 28, pp. 707-715. DOI 10.1007/s10706-010-9331-7.
- 13) **Fuenkajorn, K.**, 2010, Experimental Assessment of Long-Term Durability of Some Weak Rocks. *Bulletin of Engineering Geology and the Environment*. Volume 70, Issue 2 (2011) pp. 203-211 (DOI 10.1007/s10064-010-0297-8).
- **Fuenkajorn, K.** and Archeeploha, S., 2010, Estimation of Salt Cavern Configurations from Subsidence Data. *Bulletin of Engineering Geology and the Environment*. DOI 10.1007/s10064-010-0269-z.
- 15) **Fuenkajorn, K.** and Phueakphum, D., 2010, Physical Model Simulation of Shallow Openings in Jointed Rock Mass under Static and Cyclic Loadings. *Engineering Geology*. Vol. 113, No. 1-4, pp. 81-89.
- 16) **Fuenkajorn, K.** and Phueakphum, D., 2010, Effects of Cyclic Loading on Mechanical Properties of Maha Sarakham Salt. *Engineering Geology*. 112 (1-4) 43-52.
- 17) **Fuenkajorn, K.** and Archeeploha, S., 2009, Prediction of Salt Cavern Configurations from Subsidence Data. *Engineering Geology*. Vol. 110, No. 1-2, pp. 21-29.
- 18) Horpibulsuk, S., Shibuya, S., **Fuenkajorn, K.** and Katkan, W., 2007, Assessment of Engineering Properties of Bangkok Clay, *Canadian Geotechnical Journal*, Vol. 44, No. 2, pp. 173-187.
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