Workshop on GPR measurements of active faults and tsunami sediments
Workshop on Subsurface Electromagnetic Measurements

http://www.ieice.org/ken/program/index.php?tgs_regid=ba3d99bc8a0d609c9f22f30754f48bd1f1da2552c8cdf74b91b70c646bbe57b8&tgid=IEICE-SANE&lang=eng

2017 October 4th, 13：00～18：20
5th 09：00～17：10

the Maison Franco-Japonaise http://www.mfj.gr.jp/index.php
3-9-25, Ebisu, Shibuya-ku, Tokyo, 150-0013 Japon

Workshop on GPR measurements of active faults and tsunami sediments
Organized by Motoyuki Sato(Tohoku Univ), Maksim Bano(IPGS/Strasbourg Univ.)

4th October （13：00～18：20）

(1) 13:00 - 13:10
Introduction

(2) 13:10 - 13:50
GPR measurements to assess the characteristics of active faults in Mongolia
○Maksim Bano（Strasbourg Univ.）

(3) 13:50 - 14:30
Fault Mapping at the Confluence of the Aga River and the Tadami River - Japan - using Ground Penetrating Radar
○Gomez Christopher（Kobe U.）・Kataoka Kyoko（Niigata U.）

(4) 14:30 - 14:55
Application for GPR survey to faults in Mogod Earthquake in central Mongolia
○Tsogtbaatar Amarsaikhan・Motoyuki Sato（Tohoku Univ）

(5) 14:55 - 15:20
Interpretation of GPR survey of subsurface layer structure of the west coast fault zone at Aomori bay
○Kazuki Fujisawa, Motoyuki Sato (Tohoku Univ.)

－－－ Break （20 min） －－－

(6) 15:40 - 16:20
GPR survey for paleotsunami research
○Kazuhisa Goto・Hiraku Takeda（Tohoku Univ.）・James Goff（UNSW）・Hideaki Matsumoto（Tohoku Gakuin Univ.）・Daisuke Sugawara（Museum of Natural and Environmental History, Shizuoka）

(7) 16:20 - 17:00
Distribution of paleo-tsunami deposits in the eastern Taiwan using Ground Penetrating Radar
○Mamoru Nakamura, Masaya Sokei (Univ. Ryukyus) How-Wei Chen(NCU)

(8) 17:00 - 17:40
Eroded Coastal Dune and Deposits in North Sumatra (Indonesia) following the 2004 Boxing Day Tsunami - a Geophysical Approach
○Gomez Christopher（Kobe U.）・Lavigne Franck（Sorbonne U.）・Wassmer Patrick（U. Strasbourg）

(9) 17:40 - 18:20
Delineation of Tsunami Deposites by an Array GPR System "Yakumo"
○Hai Liu（Xiamen Univ.）・Honghua Wang（Guilin Univ. of Technology）・Motoyuki Sato（Tohoku Univ.）

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5th October

GPR system （09：00～10：40）

(10) 09:00 - 09:25
Development of Non-Destructive Inspection Sensor for Wooden Structures (7) -- Demonstration Test of 3D Imaging in Wooden House Wall Model –
○Yasunari Mori, Takayoshi Yumii, Yumi Asano, Kyoji Doi (MES), Christian Kotyama, Yasishi Iitsuka, Kazunori Takahasi and Motoyuki Sato (Tohoku Univ)

(11) 09:25 - 09:50
POLARIMETRIC IMAGING of FULL POLARIMETRIC GPR
○Xuan Feng・Qi Lu（Jilin University）

(12) 09:50 - 10:15
Acoustic wave transducers as Ground Penetrating RADAR cooperative targets for sensing applications
○Jean-Michel Friedt（FEMTO-ST/CNEAS）・David Rabus（SENSeOR SAS）・Gilles Martin（FEMTO-ST）・Gwenhael Goavec Merou（SENSeOR SAS）・Frederic Cherioux（FEMTO-ST）・Motoyuki Sato（CNEAS）

－－－ Break （ 25 min ） －－－

Quantitative Measurement （10：40～11：55）

(13) 10:40 - 11:05
Preliminary Experiment of Sea Ice Thickness Measurement by Ground Penetrating Radar
○Masayoshi Matsumoto・Mitsunori Yoshimura（PASCO）・Kazuhiro Naoki・Kohei Cho（Tokai Univ.）

(14) 11:05 - 11:30
A practical approach for high-resolution pavement inspection with multistatic array GPR YAKUMO
○Li Yi（AIST）・Lilong Zou・Motoyuki Sato（Tohoku Univ.）

(15) 11:30 - 11:55
Nondestructive inspection of pavement by MIMO GPR ”Yakumo”
○Lilong Zou・Motoyuki Sato（Tohoku Univ.）

Special Lecture （13：00～14：20）

(16) 13:00 - 13:40
Characterizing Peat Thickness Based on Common Mid Point (CMP) Ground Penetrating Radar -- A Preliminary Result --
○Djoko Nugroho・Lena Sumargana・Syaefuddin・Galih Adinata・Marina c.g. Frederik・Agu stan・Oni Bintoro（BPPT）

(17) 13:40 - 14:20
L- and S-band SAR backscatter modelling for lunar subsurface water ice detection
○Shiv Mohan・R d. Shah（MGSI）

Signal Processing and Modeling （14：20～16：20）

(18) 14:20 - 14:45
Unsupervised Adaptive PolSAR Land Classification System Using Quaternion Neural Networks
○Hyunsoo Kim・Akira Hirose（Tokyo Univ.）

(19) 14:45 - 15:10
2.5 Dimenstional EM and seismic wave modelling
○Jian-guo Zhao（CUPB）・Bin Xiong（Guilin）

－－－ Break（ 20 min ） －－－

(20) 15:30 - 15:55
Development of landmine visualization systems based on complex-valued self-organizing-map (CSOM)
○Akira Hirose（Tokyo Univ.）

(21) 15:55 - 16:20
Random noise de-noising and direct wave eliminating based on SVD method for ground penetrating radar signals
○Qi Lu・Xuan Feng・Cai Liu（Jilin University）

Case Studies（16：20～17：10）

(22) 16:20 - 16:45
Recent activities on archaeological survey by GPR
-- Case study in Inari-yama Kofun --
○Motoyuki Sato（Tohoku Univ.）

(23) 16:45 - 17:10
Diagnosing deterioration of tree trunks using GPR
○Ken Kajino, Kazunori Takahasi, Kunio Aono, Yayoi Asiba, Nobuaki Isizawa (OYO)

(24) 17:10 - 17:35
Railway Structures Inspection Method using G.P.R. -- Inspection precision improvement and improvement of the workefficiency for tunnnel lining and railroad-bed --
○Hiroyuki Morishima(JRC), Tomoki Kuboshima (JR East)