

Japanese Geomorphological Union Fall Meeting 2019 Program

General Information

Date: November 8 to 10, 2019

Venue: Uji Obaku Plaza, Kyoto University

Gokasho,Uji,Kyoto 611-0011, JAPAN

Registration fee: Normal 1,000 yen, Student: 500 yen

Dinner party attendance fee: Normal 4,000 yen, Student: 2,000 yen.

Access

Train: Please take the JR West Nara Line from Kyoto Station or the Keihan Railway Uji Line, and get off at Obaku (黄檗) Station. Please refer the following website for the detail; note that the meeting will be held at Uji Campus.

<https://www.kyoto-u.ac.jp/en/access>

Lunch

You can take lunch at Restaurant Kihada, Cafeteria or Cooperative Store in the Uji Campus. A Seven-Eleven store is also available.

Contact

Yuki MATSUSHI

Disaster Prevention Research Institute, Kyoto University

e-mail: matsushi@slope.dpri.kyoto-u.ac.jp

Schedule: November 8 (Fri.) Uji Obaku Plaza, Kihada Hall

International symposium on hydro-geomorphology: advances and future tasks.

11:00–12:30 Session 1 (Keynote lectures)

Chair: Yuichi ONDA (Univ. Tsukuba)

S01. 11:00–11:45 William E. DIETRICH (Univ. California, Berkeley) Towards mechanistic models for predicting shallow landslides across landscapes

S02. 11:45–12:30 Mike J. KIRKBY (Leeds Univ.) Controls on sediment transport rates in landscape evolution models

12:30–13:45 Lunch / Poster presentation

International symposium on hydro-geomorphology: advances and future tasks

13:45–16:05 Session 2

Chair: Takashi GOMI (Tokyo Univ. Agr. and Tech.)

S03. 13:45–14:10 Roy C. SIDLE (Univ. Central Asia) New observations, approaches, and understanding of hydrogeomorphic processes: examples from Japan, Australia, and Central Asia

S04. 14:10–14:35 Lee H. MACDONALD (Colorado State Univ.) Natural and management-related erosion rates in two highly-productive Redwood Watersheds, Northwestern California

S05. 14:35–15:00 Ken'ichiro KOSUGI (Kyoto Univ.) Interaction between bedrock groundwater and surface-hydrological processes in headwater catchments

Coffee break

Chair: Yuki MATSUSHI (Kyoto Univ.)

S06. 15:15–15:40 Kristin BUNTE (Colorado State Univ.) Estimates of Gravel Transport Rates in Mountain Streams (Temperate Climate) for Normal ($Q_{1.5}$) High-Flow Events

S07. 15:40–16:05 Yuichi ONDA (Univ. Tsukuba) Transport and redistribution of radiocaesium in Fukushima fallout through rivers

Discussion

16:30–17:30 Ceremony for the 40th anniversary of Japanese Geomorphological Union

18:00–20:00 Dinner party at Restaurant Kihada

Schedule: November 9 (Sat.)

International symposium on hydro-geomorphology: advances and future tasks.

09:00–10:15 Session 3 (Oral presentations)

Chair: Tsuyoshi HATTANJI (Univ. Tsukuba), Taro UCHIDA (Univ. Tsukuba)

S08. 09:00–09:25 Dan R. MOORE (Univ. British Columbia) Use of structure-from-motion and salt dilution to quantify the hydraulic geometry of a steep pro-glacial stream

S09. 09:25–09:50 Khamarrul RAZAK (Univ. Tech. Malaysia) 2015 Sabah Earthquake and its cascading geohazards in the Mount Kinabalu and its vicinity: lesson learned and ways forward for integrated research

S10. 09:50–10:15 Yuki MATSUSHI (Kyoto Univ.) Dynamic hazard mapping for mitigation of rainfall-induced landslides: a hydro-geomorphological approach

Coffee break

10:30–11:30 Session 4 (Panel Discussion & Wrap up)

Chair: Tsuyoshi HATTANJI (Univ. Tsukuba), Taro UCHIDA (Univ. Tsukuba)

11:30–12:15 Lunch

12:15–13:30 Poster session: core time

13:30–14:45 General Oral Session (1)

Chair: Junko IWAHASHI (GSI)

- O01. 13:30–13:45 Takaaki UDA (Public Works Research Center), Takuya YOKOTA, Yasuhito NOSHI (Nihon Univ.) Field observation of sand spit and sandbar formed on north shore of Lake Yamanaka
- O02. 13:45–14:00 Kenji KASHIWAYA (Kanazawa Univ.) Present earth surface processes and long-term environmental changes inferred from lake-catchment systems
- O03. 14:00–14:15 Naoya TAKAHASHI (Tohoku Univ.) Transient process of channel adjustment to active tectonics
- O04. 14:15–14:30 Hiroshi YAMAMOTO (National Agriculture and Food Research Organization), Eiji TOKUNAGA (Chuo Univ.) Scaling for hydraulic-geometric variables of ephemeral flow in a small basin: Using scales of the drainage area, the catchment area to sustain an amount of stream channel flow, and the discharge
- O05. 14:30–14:45 Yoshinori KODAMA (Tottori Univ.), Ryoya IKEDA (Kasai City) Landslide impacts on formation process of a higher river terrace in the Hattou River, Tottori, Western Japan

Coffee break

15:05–16:05 General Oral Session (2)

Chair: Masayuki SETO (Fukushima Univ.)

- O06. 15:05–15:20 Yohei ARATA, Takashi GOMI (Tokyo Univ. Agr. and Tech.), Roy C. SIDLE (Univ. Central Asia), Chen-Wei CHIU (Tokyo Univ. Agr. and Tech.) Investigating soil-water responses of hillslope having earthquake-induced fissures
- O07. 15:20–15:35 Kenta KOYANAGI (Univ. Freiburg), Roy C. SIDLE (Univ. Central Asia), Takashi GOMI (Tokyo Univ. Agr. and Tech.) The effects of land cover types on the distribution of coseismic landslides and post-earthquake sediment storage: a case study of the 2016 Kumamoto earthquake
- O08. 15:35–15:50 Atsushi IKEDA, Norikazu MATSUOKA (Univ. Tsukuba) Interannual fluctuation in surface velocity of a small rock glacier with thinning permafrost over two decades (1998-2019)
- O09. 15:50–16:05 Takaya KIZUKI (Univ. Tsukuba), Yuki MATSUSHI (Kyoto Univ.), Norikazu MATSUOKA (Univ. Tsukuba) Timing and rate of rockglacier advances since lateglacial period in Mattertal, Swiss alps, reconstructed by the TCN dating

16:25–17:55 General Oral Session (3) (this session will be held in Japanese)

Chair: Tetsuya KOGURE (Shimane Univ.)

- O10. 16:25–16:40 遠藤徳孝 (金沢大)・今村明弘 (金沢大・院) ストリームパワーモデルにおけるベキ指数の定常性について：モデル実験による考察
- O11. 16:40–16:55 土志田正二・新井場公德・佐伯一夢・清水幸平 (消防研究センター) 地形情報を用いた北海道胆振東部地震における救助活動の安全管理について
- O12. 16:55–17:10 柳井清治 (石川県大)・古市剛久 (北海道大) 2018年北海道胆振東部地震により発生した斜面崩壊の形態と分布テフラとの関係

- O13. 17:10–17:25 高谷精二 天神山大規模崩壊の原因について
- O14. 17:25–17:40 園田美恵子 (同志社大)・倉茂好匡 (滋賀県立大) ストレインプローブ法による表層土クリープ観測の精度の検討
- O15. 17:40–17:55 吉村辰朗 (第一復建) 断裂起因の崩壊モデルによる崩壊場所の予測

Poster Presentation Uji Obaku Plaza, Hybrid Space

- P01. Wonsuh SONG (Seikei Univ.), Tetsuya WARAGAI (Nihon Univ.), Chiaki T. OGUCHI (Saitama Univ.), Tsuyoshi HATTANJI (Univ. Tsukuba) Is bioprotection effective in the conservation of Angkor Wat monument?
- P02. Sohyun AHN, Momoko OGAWA (Saitama Univ.), Yasuhiko Tamura (Y's & Architects), Chiaki T. OGUCHI (Saitama Univ.) Environmental monitoring and groundwater chemistry of Taya Cave.
- P03. Tetsuya KOGURE, Ryuya SUEYOSHI, Hiroto OHIRA, Yoshikazu SAMPEI (Shimane Univ.), Ki-Cheol SHIN (Research Institute for Humanity and Nature), Yutaka ABE (Kanagawa Prefectural Natural Environment Conservation Center) Geochemical controls on the development of tafoni and rockfalls related to salt weathering on coastal cliff surfaces of pyroclastic rocks along the Isotake coast, Shimane, Japan
- P04. Kanchana KUMARI (Saitama Univ.), Tsuyoshi WAKATSUKI (NIED), Chiaki T. OGUCHI (Saitama Univ.), Masato SATO (NIED) Estimate slope angle of landslide initiation areas using DEM and airphotogrametry; Case study of disaster areas in Hiroshima prefecture.
- P05. 福井宏和 (京都大・院)・松四雄騎 (京都大) テフラの風化によるハロイサイト高含有層の形成機構：北海道胆振東部厚真町を例に
- P06. Satoshi ISHIMARU (Hokkaido Research Organization), Kenichi SAITO (Shin Engineering Consultant) Features of landslides triggered by the Hokkaido Eastern Iburu Earthquake: Interpretation of topography from high digital DEM image map (CBZ)
- P07. 飯田智之・山田隆二・陳 麒文・佐藤昌人 (防災科研) 地形営力としての K-NET および KiK-net 地震情報の活用
- P08. Hikaru OSAWA (Univ. Tsukuba), Yuki MATSUSHI (Kyoto Univ.), Hiroyuki HIRASHIMA (NIED), Sumio MATSUURA (Kyoto Univ.), Takashi OKAMOTO (FFPRI) Spatio-temporal changes in water transport process within a slope snowpack
- P09. 瀬戸真之 (福島大)・Song-Hyun KIM (National Wetland Center)・田中幸哉 (KyungHee 大) 韓国南東部マノ山における水文環境と斜面堆積物
- P10. 吉原直志 (筑波大・院), 八反地 剛 (筑波大) 電気探査による斜面土層構造の推定－筑波山の花崗岩斜面における事例－
- P11. 河野孝俊 (筑波大・院)・八反地 剛 (筑波大)・古市剛久 (北海道大)・土志田正二 (消防研究センター)・田中 靖 (駒沢大) 山口県防府市剣川流域における 1 次谷堆積物の年代測定－埋没土壌と表層崩壊の関係について－
- P12. Tsuyoshi HATTANJI, Ryuya KODAMA, Daichi TAKAHASHI (Univ. Tsukuba), Yasushi TANAKA (Komazawa Univ.), Shoji DOSHIDA (National Research Institute of Fire and Disaster), Takahisa FURUICHI (Hokkaido Univ.) Migration of channel heads by heavy rainfall events in two granitic mountain basins,

western Japan: Implication for predicting location of landslides

- P13. 渡壁卓磨（京都大・院）・松四雄騎（京都大）土層の形成と輸送のシミュレーションに基づいた花崗岩とホルンフェルスの斜面における土層厚の時空間的变化
- P14. Ryoga OHTA, Yuki MATSUSHI (Kyoto Univ.), Hiroyuki MATSUZAKI (Univ. Tokyo) Quantifying anthropogenic acceleration of hillslope destabilization by deforestation: modeling soil development incorporating tree-root reinforcement in the Tanakami Mountains, central Japan
- P15. Masaya YAMAMOTO, Tetsuya KOGURE (Shimane Univ.) Difference in the degree of root growth of cedar between slopes composed of dacite and black shale
- P16. Ryoko NISHII (Niigata Univ.), Fumitoshi IMAIZUMI (Shizuoka Univ.) Quantification of sediment production from large landslide scars using LiDAR data
- P17. Shunpei OOTAKE (Fujiyama Inc.), Hiroshi P. SATO (Nihon Univ.) Detection of landslide surface deformation using InSAR image in Sun Koshi branch watershed, Nepal
- P18. Makoto KANEKO, Norio OYAGI (FGI) The relationship between slope sediments and slope deposits in the collapse and landslide area due to heavy rainfall in the area of northern Kyushu, Japan in 2017
- P19. 前田拓志（日本大）房総半島小溪流における河床侵食と降水特性の関係
- P20. Takahisa FURUICHI (Hokkaido Univ./ Miyagi Univ. Education/ Univ. Sunshine Coast), Satoshi ISHIMARU (Hokkaido Research Organization), Yasuhiro SHIONO (JCE-Hokkaido) Development of fluvial terraces during the Holocene along the Memuro River, western Tokachi, Hokkaido
- P21. Hiroshi SHIMAZU (Rissho Univ.) Relationships between geomorphological dynamics of the riverbed and development of *Salix* communities on the riverbed in the upper reaches of the Azusa River, central Japan.
- P22. Naoko NAGUMO, Shinji EGASHIRA (Public Works Research Institute), Sumiko KUBO (Waseda Univ.), Bunnarin BEN (Department of Geology, Cambodia) Characteristics of river morphology and bed materials influenced by lake level changes: the Stung Sen River, a tributary of the Lake Tonle Sap
- P23. Junko IWAHASHI, Takayuki NAKANO (GSI), Dai YAMAZAKI (Univ. Tokyo) Automated classification of topography from 30 m DEMs of Japan by segmentation and machine learning
- P24. Ken'ichi KOSHIMIZU, Satoshi ISHIMARU (Hokkaido Research Organization) Consideration of creating isolated district risk map for debris flow
- P25. Kazuo OKUNISHI (Japan Institute of Land and Environmental Studies) Hydrogeomorphological hazard assessment for a small valley floor
- P26. Naomi ANDO (River-basin Control Bureau Technology Office) Land-use influence by groundwater sucking and nano-bubble armouring