

## First Circular

### The Univ. of Tokyo- Tongji Univ. Joint Workshop on Geoscience

### Collaborative Study of Interdisciplinary Geoscience Among Graduate Student

Venue: Room 336 in Science Building #1, Hongo campus, the University of Tokyo

28<sup>th</sup> -29<sup>th</sup> September 2019

#### Conveners:

Hodaka Kawahata, The University of Tokyo

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#### Coordinators:

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**Sponsor:** Tongji University

This workshop provides a great opportunity for geology, marine geology, environmental science, and geophysics graduate students to collaborate on established research while learning about the interconnections between geology and geophysics. We hope students gain research experience, broaden their intellectual horizons, enhances peer-based and collaborative learning, builds communication skills, as well as fosters a long-term curiosity about the earth science.

Program: presenters and tentative titles

28th Sept. (Sat)10:00	10:15		Opening ceremony	Prof. Kawahata
			Chair: Hiroto Kajita	Session 1
10:15	10:30	TJ	Senyan Nie (D4)	Mid-Late Holocene climate variabilities forced by ENSO and insolation in Bransfield Strait, Antarctic Peninsula: evidence from diatom assemblages
10:30	10:45	TJ	Ying Yang (M3)	Herbaceous vegetation expansion on the north equatorial Sundaland during the last glacial period
10:45	11:00	TJ	Ruigang Ma (D2)	Eocene-Oligocene calcareous nannofossil assemblage and paleoenvironmental changes in the northern South China Sea
11:00	11:15	UT	Aki Sakuma (D1)	The sedimentary environment of limestone deposited during late Eocene in the southeastern Tibetan Plateau
11:15	11:30	TJ	Yuchi Cui (D2)	Drainage control of Eocene to Miocene sedimentary records in the southeastern margin of Eurasian Plate
11:30	11:45	UT	Jumpei Yoshioka (M1)	Biogenic silica fluctuations in the middle-to-late Miocene Onnagawa formation in Akita prefecture,
11:45	13:00			Lunch
			Chair: Aki Sakuma	Session 2
13:00	13:15	TJ	Ruoyu Zhang (D4)	Relationship between sedimentary basin and Moho undulation in the South Yellow Sea, East China
13:15	13:30	UT	So Ozawa (D1)	Dynamic rupture simulations of earthquakes with complex fault geometry
13:30	13:45	TJ	Yizhi Fang (M2)	The Analysis on the Split of Double-frequency Microseisms
13:45	14:00	TJ	Yuan Liu (M2)	Seismic anisotropy within the Nankai subducting

				slab, SW Japan, using DONET seafloor observation network
14:00	14:15	UT	Tawei Chang (D2)	Towards a Comparable Mainshock Slip and Aftershock Relative Locations
14:15	14:30	TJ	Xiaoli Wan (D2)	Seismic velocity structure of the magnetic quiet zone and continent-ocean boundary in the northeastern South China Sea
14:30	15:00			Coffee Break
			Chair: Xiaoli Wan	Session 3
15:00	15:15	TJ	Han Song (M2)	Using magnetic analytic signals and curvatures in multi upward-continued heights to invert the boundary depth and structural index
15:15	15:30	TJ	Pengyan Du (D4)	A TGA/DTA-MS investigation on the difference between organic-rich and organic-free mudstone in pyrolysis process
15:30	15:45	UT	Naoto Fukuyo (D2)	Magnetic characterization of a speleothem from the South pacific with a scanning SQUID microscopy
15:45	16:00	UT	Hirochika Ueda (D1)	The evolution of the respiratory system in Archosauria
16:00	16:15	TJ	Xiaodong Zhang (D2)	From the surface to the seafloor: A review of microplastic transport process in oceans
16:15	16:30	TJ	Dongyu Chen (M3)	Oxygen isotope in seawater and its hydrological implication in the Southern Taiwan Strait
16:30	16:45	UT	Yoshihiro Fukuda (M1)	Effects of coupling of seasonal cycle and ENSO
16:45	17:30			Discussion
29th Sept. (Sun)			Chair: Yuchi Cui	Session 4
10:00	10:15	TJ	Rui Wang (M3)	Stable Isotope Evidence for Recent Global Warming Hiatus
10:15	10:30	TJ	NICHOLAS NG CHIA WEI (D2)	The disequilibrium of ( $^{234}\text{U}/^{238}\text{U}$ ) activity ratio of global bedrocks and its impact on Comminution

				age application
10:30	10:45	UT	Ayumi Maeda (D2)	Temperature dependence on stable isotope ratios and element concentration in high-Mg calcite precipitated by large benthic foraminifers
10:45	11:00	UT	Yuchen Sun (M2)	Determination of compound-specific carbon isotopic compositions of individual amino acids: A potential tool for environmental study
11:00	11:15	TJ	Yun Zhao (D5)	Stable Silicon Isotopes Indicate Chemical Weathering and Typhoon Event Impact in a Small Mountainous Catchment
11:15	11:30	UT	Hiroto Kajita (D2)	Chemical weathering and CO <sub>2</sub> consumption in the Himalayan river basin -Mekong river sea to submit-
11:30	12:00			Summary
13:00	16:00			Discussion

**Accommodation of Chinese guests:**

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