



Toshiyuki KURIHARA, Ph.D.

Associate Professor

Program: Environmental Science and Technology

Area: Earth Science

Undergraduate: Dept. of Geology

Professional Expertise

Paleozoic-Mesozoic tectonic evolution of East Asia: Field geology and radiolarian biostratigraphy.

Research Fields of Interest

- Stratigraphy and tectonic history of the Middle Paleozoic in Japan.
- Devonian-Carboniferous accretionary complex in Mongolia.
- Ordovician-Silurian accretionary complex (Southern Uplands terrane) of Scotland.
- Jurassic accretionary complexes (Japan and Far Eastern Russia).
- Living radiolarians of the Japan Sea.

Education

2002: Doctor of Science in Geology, Doctoral Program in Geoscience, University of Tsukuba, Japan

1999: Master of Science in Geology, Doctoral Program in Geoscience, University of Tsukuba, Japan

1997: Bachelor of Science in Earth Science, University of Tsukuba, Japan

Professional Societies and Activities

1. The Geological Society of Japan
2. The Palaeontological Society of Japan
3. Society for Science on Form, Japan

Awards

1. The Geological Society of Japan, Bunjiro Koto Medal, 2011
2. The Geological Society of Japan, Bunjiro Koto Medal, 2006
3. The Geological Society of Japan, Young Researchers Medal, 2004



Radiolarian chert in Mongolia.

Major Publications

Papers

- [1] Nakae, S., [Kurihara, T.](#), Direct age determination for Upper Permian accretionary complex (Kirinai Formation), Kitakami Mountains, Northeast Japan. *Palaeoworld*, 20, 146-157, 2011.
- [2] Ogane, K., Tuji, A., Suzuki, N., Matsuoka, A., [Kurihara, T.](#) and Hori, S., R., Direct observation of the skeletal growth patterns of polycystine radiolarians using a fluorescent marker. *Marine Micropaleontology*, 77, 137-144, 2010.
- [3] Hara, H., [Kurihara, T.](#), Kuroda, J., Adachi, Y., Kurita, H., Wakita, K., Hisada, K., Charusiri, P., Charoentitiratand, T. and Chaodumrong, P., Geological and geochemical aspects of a Devonian siliceous sequence in northern Thailand: Implications for the opening of the Paleo-Tethys. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 297, 452-464, 2010.
- [4] Hara, H. and [Kurihara, T.](#), Tectonic evolution of low-grade metamorphosed rocks of the Cretaceous Shimanto accretionary complex, Central Japan. *Tectonophysics*, 485, 52-61, 2010.
- [5] Tazawa, J., Anso, J., Umeda, M. and [Kurihara, T.](#), Late Carboniferous brachiopod *Plicatiferina* from Nishiamada, Fukui Prefecture, central Japan, and its tectonic implication. *The Journal of the Geological Society of Japan*, 116, 51-54, 2010.
- [6] Yoshino, T., Kimoto, K., Kishimoto, N., Matsuoka, A., [Kurihara, T.](#), Ishida, N. and Matsuura, S., A simple mathematical model for chamber arrangement of planktic foraminifera. *Forma*, 24, 87-92, 2009.
- [7] Suzuki, N., [Kurihara, T.](#) and Matsuoka, A., Sporogenesis of an extracellular cell chain from the spheroidal radiolarian host *Haliomilla capillaceum* (Haeckel), Polycystina, Protista. *Marine Micropaleontology*, 72, 157-164, 2009.
- [8] Ogane, K., Tuji, A., Suzuki, N., [Kurihara, T.](#) and Matsuoka, A., First application of PDMPO to examine silicification in polycystine radiolaria. *Plankton and Benthos Research*, 4, 89-94, 2009.
- [9] [Kurihara, T.](#), Tsukada, K., Otoh, S., Kashiwagi, K., Minjin, Ch., Dorjsuren, B., Bujinlkhamb, B., Sersmaa, G., Manchuk, N., Niwa, M., Tokiwa, T., Hikichi, G. and Kozuka, T., Upper Silurian and Devonian pelagic deep-water radiolarian chert from the Khangai–Khentei belt of Central Mongolia: evidence for Middle Paleozoic subduction–accretion activity in the Central Asian Orogenic Belt. *Journal of Asian Earth Sciences*, 34, 209-225, 2009.
- [10] [Kurihara, T.](#) and Kametaka, M., Radiolaria-dated Lower Permian clastic-rock sequence in the Fukuji area of the Hida-gaien terrane, central Japan, and its inter-terrane correlation across Southwest Japan. *Island Arc*, 17, 531-545, 2008.
- [11] [Kurihara, T.](#), Uppermost Silurian to Lower Devonian radiolarians from the Hitoegane area of the Hida-gaien terrane, central Japan. *Micropaleontology*, 53, 221-237, 2007.



Plankton sampling in Okinawa.