



Abstracts of the

2nd International Symposium on

Earth History of **Asia**

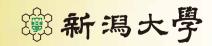
October 31 - November 3, 2014

Niigata, Japan









Niigata University (Ikarashi Campus), Niigata, Japan Editorial Board: Atsushi MATSUOKA

Eiichi TAKAZAWA

Toshiyuki KURIHARA

Madhusoodhan SATISH KUMAR

All communications relating to this report should be addressed to:

The editor of

"Science Reports of Niigata University (Geology)"

Department of Geology, Faculty of Science, Niigata University

Niigata 950-2181, Japan

Abstracts of the 2nd International Symposium on

Earth History of **Asia**

October 31 - November 3, 2014 Niigata, Japan



The 2nd International Symposium on Earth History of Asia 31 October – 3 November, Niigata, Japan

Message

The International Symposium on Earth History of Asia was held in October, 2009 at Niigata University, Japan. The symposium was a milestone for initiating collaboration in research and education between Niigata University and partner institutions. Since then our collaboration has been increasing continuously. The International Symposium on Earth History of Asia-II aims at having an opportunity to exchange idea for understanding the evolutionary history of geo-sphere and bio-sphere of the earth, especially in the Asian regions. Another objective of this symposium is to enhance partnerships among cooperative organizations, especially the Double Degree Program. Participating institutions include China University of Geosciences (Beijing), China University of Geosciences (Wuhan), Nanjing Institute of Geology and Palaeontology, Chinese Academy of Science, National Cheng Kung University (Taiwan), Pukyong National University (Korea), and Indian Institute of Science. During the symposium, we visit the Itoigawa Global Geopark and have an outreach session on geopark activities. We hope the symposium will provide a platform for exchange of ideas, give opportunity to students to interact with researchers across several Asian countries and pursue research in partnership institutions.

MATSUOKA Atsushi Chairperson of the organizing committee

Date and Venue

October 31 (Friday)

Opening session, keynote lectures, and poster presentations

Niigata University Library, Ikarashi Campus, Niigata University

November 1 (Saturday)

Invited talks, oral and poster presentations

Graduate School of Science and Technology, Ikarashi Campus, Niigata University

November 2 (Sunday) – 3 (Monday)

Field Excursion and Geopark session

Geosites of Itoigawa Global Geopark and Itoigawa City Hall

Organizing Committee

Prof. Atsushi MATSUOKA, Niigata University (Chairperson)

Prof. Eiichi TAKAZAWA, Niigata University

Prof. M. SATISH-KUMAR, Niigata University

Prof. Toshiyuki KURIHARA, Niigata University

Program Committee

Prof. M. SATISH-KUMAR, Niigata University

Prof. Xiaoqiao WAN, China University of Geosciences, Beijing

Prof. Qinglai FENG, China University of Geosciences, Wuhan

Prof. Yongdong WANG, Nanjing Institute of Geology and Palaentology, Chinese Academy of

Science

Prof. Huai-Jen YANG, National Cheng Kung University

Prof. Tae-Seob KANG, Pukyong National University

Advisory Committee

Prof. Hisaaki KUDO, Niigata University

Prof. Shouting ZHANG, China University of Geosciences, Beijing

Prof. Changqian MA, China University of Geosciences, Wuhan

Prof. Qun YANG, Nanjing Institute of Geology and Palaentology, Chinese Academy of Science

Prof. Gwo Giun LEE, National Cheng Kung University

Prof. Heon-Tae KIM, Pukyong National University

Co-Organizing Agency

Graduate School of Science and Technology, Niigata University

Faculty of Science, Niigata University

Research Center for Earth Environment and Earth Material Science, Niigata University

Research Center of Science on Form, Niigata University

Itoigawa Geopark Council

Japanese Geoparks Network

EARTH HISTORY OF ASIA-II: PROGRAM

31st Octo	ober, 2014	
Opening s	session	University Library Hall
13:30	Welcome speech Prof. KUDO Hisaaki Dean, Graduate School of Science and	Technology
13:40	Opening address Prof. MATSUOKA Atsushi Vice Dean, Graduate School of Science	e and Technology
14:10~1	4:30 Group photo	
Keynote I	ectures	University Library Hall
14:30	WAN Xiaoqiao, MATSUOKA Atsushi, Z Songliao basin: the largest lacustrine oil field	
15:00	WANG Yongdong, HUANG Chengmin, Jingyu and LIN Zhicheng Palaeo-CO ₂ variation trends and the Cretace	
15:30	KANG Tae-Seob Seismic interferometry and ambient noise to	
16:00~1	6:30 Coffee break and poster viewing	
16:30	LAI Steven Yueh Jen and CAPART He Evolution of river deltas and submarine ca sandbox experiment	nyons driven by hyperpycnal flows: a
17:00	FUKUOKA Hiroshi Landslides, GeoParks, and World Heritages	
19:00~2	1:00 Conference Banquet at Hotel Ni	kko Niigata
	mber, 2014	
Invited ta	Iks Science of Matter and Industrial	Science University Institute Center
9:00	SAJEEV K., ISHWAR-KUMAR C. RAKUMAR M. Geological correlations between India perspective	and Madagascar in a Gondwanan
9:20	YANG Huai-Jen and LIU Yung-Hsin An evaluation on using the Nd-Hf isotopi protolith characteristics of eclogites	
9:40	ZHANG Yiyi Mid-Cretaceous Charophyta Stratigraphy fro	

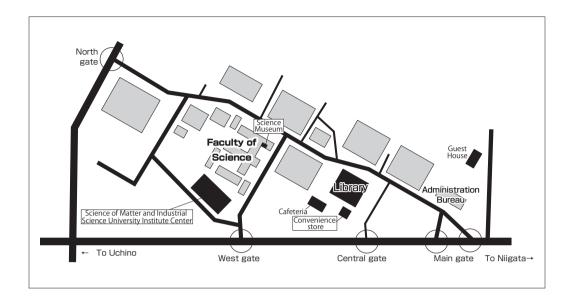
10:00	ANDO H., HASEGAWA H.,OHTA T., HASEGAWA T., YAMAMOTO M., HASEBE N., MURATA T., SHINYA H., LI G., ICHINNOROV N., ERDENETSOGT B. and HEIMHOFER U.	
	Terrestrial paleoenvironments during the mid-Cretaceous reconstructed from the continuous lacustrine strata in Southeast Mongolia ————————————————————————————————————	
10:20~10	0:30 Coffee break	
10:30	SHIINO Yuta Middle Permian tectono-sedimentary history with biotic reaction of the Southern Kitakami Terrane, northeast Japan ———————————————————————————————————	
10:50	LI Gang Late Mesozoic clam shrimp palaeobiogeography of China	
11:10	IBA Yasuhiro, SANO Shin-ichi, FUCHS Dirk, SHA Jingeng, LIU Jian and MUTTERLOSE Joerg Early evolutionary history of belemnites (Cephalopoda), revisited: Importance of East Asian fossil records ————————————————————————————————————	
11:30	KASHIWAGI Kenji, ANDO Hisao and HIRAYAMA Ren Radiolarians and diatoms from the Hiraiso Formation of the Nakaminato Group (late Campanian to early Maastrichtian) in the northern Kanto Region of Japan 22	
11:50	JING Xiuchun, ZHOU Hongrui and WANG Xunlian The Ordovician (Middle Darriwilian-Earlist Sandbian) conodont biostratigraphy and biofacies of the Wuhai area in Inner Mongolia, North China ————————————————————————————————————	
12:10~14	1:00 Lunch break and poster viewing core time	
Oral Prese	entations Science of Matter and Industrial Science University Institute Center	
14:00	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint	
14:00	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint on the third order eustatic sequences during the end of the LPIA ————————————————————————————————————	
	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint	
14:00	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint on the third order eustatic sequences during the end of the LPIA ————————————————————————————————————	
14:00 14:15	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint on the third order eustatic sequences during the end of the LPIA ————————————————————————————————————	
14:00 14:15 14:30	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint on the third order eustatic sequences during the end of the LPIA ————————————————————————————————————	
14:00 14:15 14:30 14:45	FANG Qiang, WU Huaichun, HINNOV Linda, JING Xiuchun, WANG Xunlian and JIANG Qingchun The geologic evidence for the chaotic behavior of solar planets and its constraint on the third order eustatic sequences during the end of the LPIA ————————————————————————————————————	

16:00	SONG Yanyan, ZHANG Yuandong, GOLDMAN Daniel, WANG Zhihao, FANG Xiang and MA Xuan Preliminary report on the Graptolite Biostratigraphy from Latest Darriwilian to Early Sandbian (Ordovician) in Chengkou area, northern Chongqing, South China	
16:15	FANG Peiyue and LI Gang Foraminiferal biostratigraphy of the Jurassic/Cretaceous transition sequence of the Gucuo section in northern Nyalam, southern Tibet ————————————————————————————————————	
16:30	LI Liqin, WANG Yongdong, LIU Zhaosheng, ZHOU Ning and WANG Yan Late Triassic palaeoclimate and palaeoecosystem variations inferred by palynological record in the northeastern Sichuan Basin, China	
16 : 45	CAO WenXin, XI DangPeng, HUANG QingHua, CHENG Yi, QU HaiYing, LI Wei, GAO LianFeng and WAN XiaoQiao Seawater incursion event in the Songliao Basin: New evidence from the calcareous nannofossils of SK-1	
17:00	YAO Le, WANG Xiangdong, LIN Wei, LI Yue and QIE Wenkun Coral biostrome of the Shangsi Formation (middle Visean, Mississippian) in Yashui, Guizhou, South China Block ———————————————————————44	
17:15	ITO Tsuyoshi, FENG Qinglai and MATSUOKA Atsushi Permian radiolarian distribution: endemism of Pseudotormentus De Wever et Caridroit, 1984	
Poster pr	esentations Science of Matter and Industrial Science University Institute Center	
Poster-1	LEE Heekyoung, KIM Roungyi, JANG Bora, JEON Hyejin, JO Ahyeon, HAN Hyojeong, YANG Sujin and KANG Tae-Seob Seismic response from microtremor of Chogye basin, Korea ————————————————47	
Poster-2	TAKAZAWA Eiichi, MORI Namiko, NOHARA Rikako, TAKAHASHI Toshiro, ADACHI Yoshiko and MIYASHITA Sumio Protolith of metamorphic sole in the Oman ophiolite inferred from whole rock trace element abundances and Sr-Nd isotope ratios —————————————————————48	
Poster-3	LIN Yu-Chia, YANG Huai-Jen and TAKAZAWA Eiichi Geochemical relationships of basalts and andesites from the Kuan-Yin Mt. at NW Taiwan	
Poster-4	FUJII Satoru and TAKAZAWA Eiichi The relationship between spatial compositional distribution and field occurrence of peridotites in the southernmost part of Salahi mantle section, the Oman ophiolite 51	
Poster-5	MA Xiaofan and TAKAZAWA Eiichi Petrological study of the Salahi mantle section in the Oman ophiolite 53	
Poster-6	IZAWA Kazuki and TAKAZAWA Eiichi Origin of Kurouchiyama peridotite mass in the northern Kanto mountains	
Poster-7	SHINOHARA Ayana and TAKAZAWA Eiichi Comparative study of Upper Zone and Lower Zone of Horoman peridotite complex, Hokkaido, Japan	

Poster-8	SATISH-KUMAR M., MISHIMA Kaoru, KOINUMA Kentaro, UENO Yuichiro and HOKADA Tomokazu Archaean Dharwar craton in India: An ideal terrane to understand the early Earth's surface environment and origin of life	
Poster-9		
Poster-10		
Poster-11	NAKAMURA Yoshihiro Relationship between peak metamorphic condition and geological structure in the upper sequence of Hidaka Metamorphic Belt ————60	
Poster-12	ABE Miyako, SATISH-KUMAR M., KAGI Hiroyuki and HOKADA Tomokazu Determination of crystal orientation of cordierite using Raman spectral patterns 62	
Poster-13	KOINUMA Kentaro, SATISH-KUMAR M., MISHIMA Kaoru, UENO Yuichiro and HOKADA Tomokazu Rare earth element and Nd isotope geochemistry of Archaean banded iron formations in the Chitradurga Schist Belt, Dharwar Craton, Southern India	
Poster-14	YOSHINO Kohei, MATSUOKA Atsushi and WAN Xiaoqiao Campanian-Maastrichtian (Late Cretaceous) Paleoenvironment in the East Asia: Palynological insights 66	
Poster-15	SAKAI Yusuke Early Cretaceous plant fossil assemblages from the Tetori Group in the Itoshirogawa area, Hakusan Region, central Japan ————68	
Poster-16	KUBOTA Aya, IBA Yasuhiro, HIKIDA Yoshinori and YI Keewook Micro-organisms in amber from the Aptian (Cretaceous) of Yezo Group, northern Japan	
Poster-17	LI Xin, WANG Chengshan, LI Yalin and MATSUOKA Atsushi Late Jurassic to Early Cretaceous and Late Paleocene Radiolarian from the Yarlung-Tsangpo suture zone, near Zhongba county, Southern Tibet	
Poster-18	KITAGAWA Yusuke and MATSUOKA Atsushi Redivision of the Kamiaso unit and the Nabi unit in the Mino terrane of the Mino- Hichiso area, Gifu Prefecture, central Japan ———————————————————————————————————	
Poster-19	FUKUI Taiki Facies and the Platform Type Limestones of the Ichinotani Formation in Fukuji Area,Takayama City,Gifu Prefecture ————————————————————————————————————	
Poster-20	SATO Shizuru and MATSUOKA Atsushi Geology and mollusks of the Early Cretaceous Koyamada Formation Somanakamura Group, Fukushima Prefecture, Notheast Japan77	
Poster-21	SHIKAZAWA Yusuke and MATSUOKA Atsushi Stratigraphy and molluscan fossils of the Tetori Group in the Izumi region, Ono City, Fukui Prefecture, Central Japan 79	

Poster-22	HAKOIWA Hiroaki and MATSUOKA Atsushi Geology and radiolarian fossils of the Misogawa Complex of the eastern Mino Terrane in the Kaida area, Nagano Prefecture, central Japan	
Poster-23	ICHINOHE Ryo, MAESAKI Kaede, TAKAZAWA Eiichi and RAU Ruey-Juir Geologic field trip to Central Mountain Range in Taiwan ————————————————————————————————————	
Poster-24		
Poster-25	HARA Kousuke Radiolarian biostratigraphy of the Upper Cretaceous Suhaylah Formation in the Wadi Jizzi area of the Oman ophiolite	
Poster-26	INOSE Rikako Faunal transition of Early Devonian radiolarians in the tuffaceous strata of the Konomori and Yokokurayama areas, Kurosegawa belt, Southwest Japan	
Poster-27	NAKAMURA Kagenori Radiolarians from a Permian accretionary complex in the Kitagawa area of the Kurosegawa Belt, Southwest Japan ———————————————————————————————————	
Poster-28	AGUI Yumi Stratigraphy and radiolarian age of Late Cretaceous pelagic sediments in the Wadi Hilti area of the Oman Ophiolite ————————————————————————————————————	
Poster-29	MARUYAMA Tomoyuki Tectono-stratigraphy and geologic age of Jurassic accretionary complexes (Otchizawa and Nogurizawa formations) of the Southern Chichibu belt in Uence Village, Gunma Prefecture, northwest Kanto Mountains, central Japan	
Poster-30	TAMURA Kazutoshi and MATSUOKA Atsushi Molluscan shell assemblages in neritic sediments in the Japan Sea off Nou Itoigawa City, Niigata Prefecture, Japan ———————————————————————————————————	
Poster-31	IBA Yasuhiro, SANO Shin-ichi, FUCHS Dirk, LIU Jian and MUTTERLOSE Joerg Belemnites originated in the Triassic—A new look at an old group	
18:00	Conference Reception at Niigata University Cafeteria	

November 2~November 3 Excursion to Itoigawa Global Geopark



Venue of Earth History of Asia - II

October 31 : Keynote lectures at University Library Hall

November 1: Invited talks, Oral and Poster Presentations at

Science of Matter and Industrial Science University Institute Center

Conference reception at Cafeteria

For a detailed map please refer to the Niigata University web site http://www.niigata-u.ac.jp/e/top/ikarashi_map.html

FIELD EXCURSION AND GEOPARK LECTURE/ PANEL DISCUSSION IN ITOIGAWA

November 2 (Sunday)		
8:00	Departure from west gate of Niigata University	
9:00	Departure from Chisun Hotel	
11:30	Arrive at Kotakigawa Jade Gorge Geosite	
12:00	Lunch	
13:30	Excursion along the Kotakigawa River	
16:30	Arrive at Hotel White Cliff	
17:30	Arrive at Omi Junior High School Seminar House (Students)	
	ar 2 (Manday)	

November 3 (Monday) 8:30 Departure from Hotel White Cliff 8:30 Departure from Omi Junior High School Seminar House (Students) 9:00 Arrive at Fossa Magna Park (Itoigawa—Shizuoka Tectonic Line) 10:30 Arrive at Omi Coast Geosite 11:30 Lunch 12:30 Itoigawa City Museum of History and Folklore 13:30 Lecture/Panel Discussion at Itoigawa City Hall 13:30 Opening address 13:35 Welcome speech 13:40 Charms of Itoigawa Global Geopark (Itoigawa Geopark Council) 14:00 Charms of Tateyama-Kurobe Geopark (Tateyama-Kurobe Geopark Council) 14:15 Group Photo 14:30 Panel Discussion 15:30 Closing address 15:40 Departure from Itoigawa City Hall 18:00 Arrive at Chisun Hotel

Arrive at west gate of Niigata University

19:00

Opening address for the 2nd International Symposium on Earth History of Asia: From collaboration in research to collaboration in education

MATSUOKA, Atsushi 1, *

¹ Department of Geology, Faculty of Science, Niigata University, Niigata 950-2181, Japan *matsuoka@geo.sc.niigata-u.ac.jp

The International Symposium on Earth History of Asia was held in October, 2009 at Niigata University, Japan. It was about 10 years after the conclusion of the agreement for cooperation with China University of Geosciences, Beijing and China University of Geosciences, Wuhan. Just before the symposium, the agreement with Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences was concluded. That symposium was a milestone for initiating collaboration in research and education between Niigata University and partner institutions. Since then agreement for cooperation and memorandum for student exchange have been established actively between Niigata University and cooperative organizations such as Chungnum National University, Islamic Azad University-North Tehran Branch, and Indian Institute of Science. In addition, scientific and educational meetings have been organized in Niigata University. They include the Niigata Graduate Research Forum in January 2013 and the 3rd International Congress on Natural Sciences in October 2013.

The Double Degree Program (DDP) is a special educational program through which participating students are matriculated at both Niigata University and the partner institution and able to obtain "the double-degree", receiving a separate degree from each university or institution. The DDP agreements were concluded with Pukyong National University and China University of Geosciences, Wuhan in 2011. Moreover, National Cheng Kung University and Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences participated in the DDP in 2012. China University of Geosciences, Beijing joined the program in 2013. To date, three graduate students in the field of earth sciences have been sent to partner institutions in China and one has been received from Taiwan.

Besides the DDP, a wide variety of exchange programs were performed between National Cheng Kung University and Niigata University. In 2011 and 2012, students and faculty members of Niigata University visited Taiwan and participated in a field

excursion by courtesy of the sisterhood institution. On the contrary, students from National Cheng Kung University joined a field excursion offered by Niigata University in 2013 and 2014.

The International Symposium on Earth History of Asia-II aims at having an opportunity to enhance partnerships among cooperative organizations, especially Double Degree Program partners. This event includes keynote speeches, educational exchange opportunities, international academic symposium, and a visit to Itoigawa Global Geopark. Participating graduate students from each institution will also have an occasion to present their research achievements either in oral or poster presentation session and to participate in further discussion sessions and various exchange opportunities with students from Niigata University and other international partner institutions. We believe that this is a great chance to foster and expand international academic networks among faculty members and students in order to make advancements in research and education.

This is the 300th memorial event of the Earth History Seminar in the Department of Geology, Faculty of Science, Niigata University. We have added 100 seminars after the 1st International Symposium on Earth History of Asia held in October 2009.







SCIENCE REPORTS OF NIIGATA UNIVERSITY (GEOLOGY)

No.29 (Supplement) 31 October 2014



© DEPARTMENT OF GEOLOGY, FACULTY OF SCIENCE, NIIGATA UNIVERSITY

8050 Ikarashi Nino-cho, Nishi-ku, Niigata 950-2181, Japan TEL +81-(0)25-262-6197 FAX +81-(0)25-262-6194



