



**International Commission on the
History of Geological Sciences (INHIGEO)
Annual Conference in Toyohashi, Japan
2-10 August, 2011**

(Scientific sessions: 2-5 August, 2011)

“Visual Images and Geological Concepts“



JAHIGEO

Scientific Sessions (Tuesday, 2 August-Friday, 5 August, 2011):

Tuesday 2 August:

- 09 : 00 Reception at **Aichi University**
10:00-10:30 Welcome and **Opening Ceremony**
11:00-12:00 Keynote Address : David Oldroyd : **The Early Development of Geological Maps:
Comparisons between Chinese and Western Cultures**
12:00 Lunch
14:00-18:00 **Session 1: “History of Geological Maps and Related Geological Images in the World”**
Oral communications Poster Session
Accompanying program: Toyokawa-Inari (Temple and Shrine Complex)
18:30-20:30 **Reception party at Aichi University**

Wednesday 3 August:

- 9:00-12:00 . **Session 2: “History of Seismology, Volcanology and Geotectonics”**
Oral communications
Poster Sessions (morning/afternoon)
12:00 Lunch
14:00-15:30 Oral Communications Accompanying program: Nagoya Castle
16:00-18:00 **INHIGEO BusinessMeeting**

Thursday 4 August: Mid-conference Excursion to the Shitara area

One day field trip by coach to the outcrop of the Median Tectonic Line, the largest fault in Japan, Shitara-gahara and the Nagashino Castle (Fort) (ancient battle field of the 16th century), Horai-ji Museum of Natural History and the Horai-ji Temple.

- 18:00 **Symposium dinner at Honjin (Japanese Restaurant) in Nagashino**

Friday 5 August:

- 9:00-12:00 **Session 3: General Contributions to “History of Earth Sciences”.**

- Oral Communications, Poster Session(morning).
- 12:00 Lunch
- 13:00 A half day trip in Toyohashi City.
Public Lecture : Prof. Philippe Taquet at the Toyohashi Museum of Natural History
(<http://www.toyohaku.gr.jp/sizensi/03event/h23/kouza/index.html>)
- 19:00 **Farewell beer Party.**

Saturday 6 - Wednesday 10 August, 2011 Post-Meeting Trip:

A five-day post-symposium excursion is scheduled from 6 to 10 August, visiting the Kii Peninsula.

Oral Oral communications

August 2 morning

- 11:00-12:00 Chairman: Simon Nathan/Michiko Yajima
- O-001 The Early Development of Geological Maps: Comparisons between Chinese and Western Cultures**
- David Oldroyd*** **History and Philosophy of Science, University of New South Wales, NSW 2052*

August 2 afternoon

Session 1: "History of Geological Maps and Related Geological Images in the World"

Chairman: Victor R. Baker / Toshihiro Yamada

- 14:00-14:30 O-111 History of Small-scaled Geological Maps in Japan
- Hirokazu Kato*** *Geological Survey of Japan, AIST, Central 7,1-1-1,Higashi Tsukuba,Ibaraki, 305-8567Japan*
- 14:30-14:45 O-112 Grigory Helmersen and his 'General map of geological formations of the European Russia' (1841)
- Zoya A. Bessudnova*** **Vernadsky State Geological Museum of Russian Academy of Sciences 125009, Mokhovaya str., 11, bld. 11, Moscow, Russia*
- 14:45-15:00 O-113 Geological Mapping in Russia in the XIX Century
- L.R. Kolbantsev^a, S.A. Toporets^b** *^aF.N. Cshernyshev Central Research Geological Prospecting Museum, St Petersburg, Russia, ^bA.P. Karpinsky Russian Geological Research Institute (VSEGEI), St Petersburg, Russia:*
- 15:00-15:15 O-114 James Hector and the first geological maps of New Zealand
- Simon Nathan** *GNS Science, 1 Fairway Drive, Lower Hutt 5010, New Zealand*
- 15:15-15:30 O-115 Images of mountains in the 18th century: Geology in the landscape and historical insight
- Ezio Vaccari*** **Dipartimento di Informatica e Comunicazione, Università dell'Insubria,*

via Mazzini 5, 21100 Varese, Italy

- 15:30-15:45 O-116 Visualizing Concepts in Context in Goethe's Geology
Ernie Hamm* **York University, Toronto, Ontario M3J 1P3, Canada*
- 16:00-16:30 Coffee Break
Chairman: Masaru Yoshida / CAO Xiping
- 16:30-16:45 O-117 Art and science in Brazilian hinterlands: Geological landscapes from the Province of Ceará (1859-1861).
Silvia F. de M. Figueirôa*, Heitor de Assis Júnior** **Department of Geosciences Education, Institute of Geosciences, University of Campinas – Brazil, **PhD Candidate, Institute of Geosciences, University of Campinas – Brazil*
- 16:45-17:00 O-118 Sketching rocks and landscape: Drawing as a female accomplishment in the service of geology
Martina Kölbl-Ebert* **Jura-Museum Eichstätt, Willibaldsburg, 85072 Eichstätt, Germany*
- 17:00-17:15 O-119 Historical geological images from Tasmania
Carol Bacon* **Mineral Resources Tasmania, PO Box 56, Rosny Park, Tasmania, Australia 7018*
- 17:15-17:30 O-120 Early History of the National Geological Survey of China Museum
ZHANG Erping *National Geological Library of China, P.O.Box 8324, Beijing 100083, China*, CAO Xiping *Geological Museum of China, Xisi, Beijing 100034, China*
- 17:30-17:45 **O-121 History of Geological Mapping in India**
K.S. Murty* *101/28 Hindustan n Colony, Amaravati Road, Nagpur 440033, INDIA*

August 3 morning

Session 2: "History of Seismology, Volcanology and Geotectonics"

Chairman: Ezio Vaccari/ Hirokazu Kato

- 09:00-09:30 O-201 History of Volcanology in Japan
Kanenori Suwa* **1-1020 Umemorizaka, Meito-ku, Nagoya 465-0065, Japan*
- 09:30-09:45 O-202 Australia and the great Kanto Earthquake of 1923
David Branagan* **School of Geosciences, University of Sydney, New South Wales, Australia, 2006*
- 09:45-10:00 O-203 Alexander Petrovitch Orlov – the first Russian seismologist
Tatiana Ivanova* **Lomonosov Moscow State University, Earth Science Museum, Moscow, 119992, Russia*

- 10:00-10:15 O-204 Images of Earthquakes and Tsunamis in Japan, 1880-1921
Boumsoung Kim* **Hiroshima Institute of Technology, Hiroshima, 731-5193 Japan*
- 10:15-10:30 O-205 History on the study of deep earthquakes in the Japanese islands and surrounding areas
Yo Akamatsu, Hisao Adachi and the Research Group of Deep Structure of Island Arcs.
- 10:30-11:00 Coffee Break
 Chairman: Masanori Kaji/ Gerardo J. Soto
- 11:00-11:15 O-206 History on the study of fault plane accompanied by earthquakes in Japan
Yasumoto Suzuki* and the Research Group of Deep Structure of Island Arcs *4-4-15, Sugano, Ichikawa, 272-0824 Japan
- 11:15-11:30 O-207 Brief History of the Geodetic Study of the Crustal Movement of the Japanese islands after World War II
Kensho Iikawa* *2-186 Imai Nagaoka Niigata Prf. 940-1166 Japan
- 11:30-11:45 O-208 Geographical Speculative Images?: Mochizuki's Idea on the Geotectonics of the Pacific in the Age of 'Geopolitics'
Toshihiro Yamada* * *Natural History Museum and Institute, Chiba, 260-8682 Japan,*
- August 3 afternoon**
 Chairman: Toshio Kutsukake/ Mike Johnston
- 14:00-14:15 O-209 Paradigm shifts in Earth Science after the World War II: A case study of the field of geodynamics
Maruyama, S. and Kumazawa, M.* **Department of Earth and Planetary Sciences, Tokyo Institute of Technology, O-okayama, Tokyo 152-8551, Japan*
- 14:15-14:30 O-210 Some facets of the emergence of earth and planetary science in Japan: A research proposal
Shigeyuki Aoki* **University of Aizu, Aizu-Wakamatsu, 965-8580 Japan*
- 14:30-14:45 O-211 *Carl Schenk*, the first professor of Mineralogy in Japan
Takeshi Ozawa* **NAA Retailig co., Narita International Aitport 282-0011 Japan*
- 14:45-15:00 O-212 Curt Adolph Netto's Sketches archived in Japan
Kim Kwang-Nam* **Natural Ecology-Geology Laboratory (GEL), Shin-machi 1-20-4 Hino-City Tokyo, Japan*
- 15:00-15:15 O-213 *Jun-ichi Takahashi*: A Forgotten Geologist in Japanese Scientific History
Masanori Kaji *Tokyo Institute of Technology, Tokyo, 152-8552 Japan*
- 15:15-15:30 O-214 Early women earth scientists in Japan

Michiko Yajima* **Tokyo Medical and Dental University, #901, 6-2-10, Hongo, Bunkyo-ku, Tokyo 113-0033, Japan*

15:30-16:00 Coffee Break

16:00-18:00 INHIGEO Business Meeting

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18:00 Symposium dinner at Honjin (Japanese Restaurant) in Nagashino

August 5 morning

Session 3: General Contributions to “History of Earth Sciences”.

Chairman: Masatoshi Goto/Tachiana Ivanova

09:00-09:15 O-301 The fabulous voyage of the cast of Diplodocus skeleton sent by Andrew Carnegie to Paris in June 1908

Philippe Taquet* **Muséum National d’Histoire Naturelle. Département d’Histoire de la Terre. 8 rue Buffon. 75005. Paris. France .*

09:15-09:30 O-302 A historical review of the advance of paleobiology in Japan: A contribution by the Fossil Research Society of Japan

Masatoshi Goto* and Masahiko Akiyama** **Tsurumi University, Junior College, Yokohama, 230-8501 Japan , **4-5-5 Moiwashita, Minami-ku, Sapporo, 005-0040 Japan*

09:30-09:45 O-303 Role of Student Mountaineering Clubs in the Development of Geological Sciences :An Example of the Academic Alpine Club of Hokkaido

Masaru Yoshida¹ and Okitsugu Watanabe² *¹Gondwana Institute for Geology and Environment, Hashimoto 648-0091, Japan ;²National Institute of Polar Research, Tachikawa 190-8518, Japan*

09: 45-10: 00 O-304 The Median Batholith : A fundamental structure in the Basement Rocks of New Zealand

Mike Johnston *395 Trafalgar Street, Nelson 7010, New Zealand*

10:00-10:15 O-305 Reg Sprigg and the 1947 discovery of submarine canyons in Australian waters

Barry J Cooper *School of Natural & Built Environments, University of South Australia, GPO Box 2471, Adelaide SA 5001, Australia)*

10:15-10:30 O-306 Emperor Seamounts in Japanese Bathymetric Chart 6901:A summary of the history of sea-floor spreading

Takao Nakajin* **Formerly with Institute of Civilization Research, Tokai University 95-4-504, 6 Chome, Nakazato, Kiyose-shi, Tokyo, 204-0003,Japan*

10:30-11:00 Coffee Break

11:00-11:15 O-307 Visualizing the Planetary Evolution of Mars: Percival Lowell’s Japan Travels,

Martian Canals, and Geological Critics

Victor R. Baker* *Dept. of Hydrology and Water Resources, Univ. of Arizona, Tucson, AZ 85721-0011 USA

- 11:15-11:30 O-308 The Heredia meteorite (Costa Rica, 1857), the work on meteorites by Ignacy Domeyko and 19th century meteoritics in Spanish Latin America
Gerardo J. Soto *Instituto Costarricense de Electricidad; Terra Cognita Consultores S.A.Apdo. 360-2350, San Francisco de Dos Ríos, Costa Rica*

Posters

August 2 afternoon -3 morning/afternoon and 5 morning

- 2011-p01 American Contributions to the Geological Mapping of Hokkaido, Late 19th Century Japan
Kenneth R. Aalto* *Department of Geology, Humboldt State University, Arcata CA 95521 USA
- 2011-p02 Pumpelly's geological survey of Hokkaido in 1862 and Pumpelly (1867) GEOLOGIC RESEARCHES IN CHINA, MONGOLIA, AND JAPAN, DURING THE YEARS 1862 TO 1865.
Jun Aizawa* *Fukuoka University, Fukuoka 814-0180 Japan)
- 2011-p03 Benjamin Smith Lyman's Field Notes described in Japan
Kim Kwang-Nam* *Natural Ecology-Geology Laboratory, Shin-machi 1-20-4-201, Hino-City Tokyo, 191-0002, Japan
- 2011-p04 Geological Cartography in Nineteenth Century Mexico
Luz F. Azuela Bernal* and **Lucero Morelos**** * Instituto de Geografía, Universidad Nacional Autónoma de México, Circuito Exterior s/n, Ciudad Universitaria, 04510, México, D. F., ** Facultad de Filosofía y Letras, Universidad Nacional Autónoma de México, Ciudad Universitaria, 04510, México, D. F.
- 2011-p05 Illustrated Disasters in the Meiji-Taisho Era (1868-1926) of Japan: Changes of Printing Methods in Scientific Journals, Magazines and Graphs
Junji Itoigawa* *5125-4, Hiyoshi-cho, Mizunami, 509-6251 Japan
- 2011-p06 Illustrations attached to *Sansō-Hiroku* (A secret document on the appearance of mountains in the Edo Period, Japan)
Toshio Kutsukake* *Aichi University, Toyohashi, 441-8522 Japan
- 2011-p07 Namazu-E (Catfish Picture) on the Edo (Tokyo) Earthquake in 1855
Kanenori Suwa* *1-1020 Umemorizaka, Meito-ku, Nagoya 465-0065, Japan
- 2011-p08 A historical review of the Reconnaissance Geological Map of Japan, scale 1 : 400,000, published in the last two decades of the 19th century
Naotoshi Yamada* *Sakuradai 1-6-12, Ushiku, Ibaraki, 300-1217 Japan

- 2011-p09 History on the study of deep earthquakes in the Japanese islands and surrounding areas
Hisao Adachi , Yo Akamatsu and the Research Group of Deep Structure of Island Arcs
- 2011-p10 History on the geological survey of volcanoes in the Japanese Islands
Shohachi Nakamura* and Yasumoto Suzuki** *360-1, Kita-maki, Shibukawa, Gunma Pref. 377-0205, Japan , **4-4-15, Sugano, Ichikawa, Chiba Pref., 272-0824 Japan
- 2011-p11 A common knowledge of minerals in the Edo era, the 17th to the mid-19th centuries, Japan
Masumi Osawa* *Professor emeritus, Tokyo Gakugei University, Japan
- 2011-p12 KIKUCHI Yasushi, a distinguished naturalist in the late 19th century, and discovery of boninite
Keiichi Shiraki¹⁾, Hayaomi Urano²⁾, Naoshi Kuroda³⁾, Hiromi Nagai⁴⁾ and Kanenori Suwa⁵⁾
- 1) 〒498-0017, Umashinden 535, Maegasu-cho, Yatomi-shi, Aichi-ken
- 2) 〒444-3504, Saruta 231-1, Kamisobumi-cho, Okazaki-shi, Aichi-ken
- 3) 〒420-0866, Nishikusafuka-cho, 20-19, Aoi-ku, Shizuoka-shi, Shizuoka-ken
- 4) 〒465-0815, Yamate St. 1-23-1, 701, Showa-ku, Nagoya, Aichi-ken
- 5) 〒465-0065, Umemorisaka 1-1020, Meitou-ku, Nagoya, Aichi-ken
- 2011-p13 Role of Student Mountaineering Clubs in the Development of Geological Sciences :
An Example of the Academic Alpine Club of Hokkaido
Masaru Yoshida¹ and Okitsugu Watanabe² ¹ Gondwana Institute for Geology and Environment, Hashimoto 648-0091, Japan , ² National Institute of Polar Research, Tachikawa 190-8518, Japan
- 2011-p14 The 1882 Toyokichi's Harada's survey in Italian Alps:a pioneristic case of Alpine tectonic visualization
Stefano Marabini*, Gian Battista Vai** *Museo geologico "G. Capellini", Via Zamboni 63, 40127 Bologna, Italy , **Museo geologico "G. Capellini", Via Zamboni 63, 40000 Bologna, Italy
- 2011-p15 Abbreviated chronological table of modern ages related to earth science of Japan , China and Korea
Michiya Inomata* *Tokyo University of Agriculture, Setagaya, Tokyo,156-8502,Japan
- 2011-p16 I. Hayasaka's Geological Research History of Taiwan Island before World War II .
Toshiaki Osada * *Tokyo City University, Setagaya Ward, Tokyo, 158-0082 Japan