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
- 16:00-18:00 INHIGEO Business Meeting

**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.

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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, 305-8567, Japan

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,

**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 (1859-1961).

**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**  *I-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  *
_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 Airport 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 I-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


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 Yoshida**1 and **Okitugu Watanabe**2 1 Gondwana Institute for Geology and Environment, Hashimoto 648-0091, Japan ; 2 National 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


**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.


Junji Itoigawa*  *5125-4, Hiyoshi-cho, Mizunami , 509-6251 Japan

2011-p06 Illustrations attached to Sansō-Hiroka (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 Umemori-zaka, 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  1Gondwana Institute for Geology and Environment, Hashimoto 648-0091, Japan , 2National 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