

PROGRAM

Precambrian World 2017

March 3-10, 2017, Fukuoka, Japan

3 March 2017 (Friday)

ICE BREAKER with POSTER SESSION

Nishijin Plaza, Fukuoka City, Fukuoka

16:30-19:00

4 March 2017 (Saturday)

SCIENTIFIC SESSION 1

Nishijin Plaza, Fukuoka City, Fukuoka

9:00 to 17:30

9:00-9:03 **Welcoming Address**

Shoichi Kiyokawa

9:03-9:10 **Complimentary Address**

Koichiro Watanabe

9:10-9:50 Keynote Paper

O01: Early Earth Surface Processes 3.5 to 3.0 Ga ago

Axel Hofmann

9:50-10:10

**O02: Archean-Proterozoic Deeper Oceanic Environment: Pilbara (DXCL),
Barberton (Komati Section) Ghana(GHB) Results.**

*Shoichi Kiyokawa, Takashi Ito, Minoru Ikehara, Kosei E. Yamaguchi, Tetsuji
Onoue, Kosuke Goto, Tsubasa Miki, Satoshi Yoshimaru, Shiono Sakai, George
M. Tetteh and Frank K. Nyame*

10:10-10:20 Refreshment

10:20-10:40

**O03: Archean Cherts from the Dixon Island Fm., Pilbara: Characterization of a
Life-Bearing Hydrothermal System**

*Morgane Ledevin, Ryoji Tanaka, Tsutomu Ota, Eizo Nakamura, Yuhei Aihara,
and Shoichi Kiyokawa*

10:40-11:00 Invited Paper

O04: Using Zircons to Declare Some Mineralogical, Petrological and Geological Processes: Two Cases from the Basement Rocks of Egypt

Maher Dawoud

11:00-11:40 Keynote Paper

O05: Silicon Isotopes as Markers for the Onset of Surface Products Recycling in the Archean

Luc André, Kathrin Abraham, Stephen F. Foley and Axel Hofmann

11:40-12:30 **Poster short talks (Student) 2min x 25**

12:30-13:50 Lunch and Poster Session 1

13:50-14:35 Keynote Paper

O06: Constraints on the Archean and Early Proterozoic Paleoenvironment: A Paleomagnetic and Biomagnetic Perspective

Joseph L. Kirschvink

14:35-14:55

O07: Occurrence, Age, and Geochemistry of the Nulliak Supracrustal Rocks, Labrador, Canada: The Oldest Evidence for Plate Tectonics, Seawater Composition and Life

Tsuyoshi Komiya, Shogo Aoki, Takayuki Tashiro and Satoshi Yoshida

14:55-15:10 Refreshment

15:10-15:35

O08: Nitrogen/Carbon Isotope Ratios from Early to Middle Proterozoic Sedimentary Rocks, McArthur Basin, Northern Australia

Kazumi Yoshiya, Yusuke Sawaki, Yohei Matsui, Manabu Nishizawa, Tsuyoshi Komiya and Shigenori Maruyama

15:35-16:15 Keynote Paper

O09: Exploration of the Limits of Life in the Deep Subseafloor Biosphere

Fumio Inagaki

16:15-16:30 Refreshment

16:30-16:50 Invited Paper

O10: Strontium and Hydrogen Isotopes of Apatite Inclusion in Archaean Zircon

Yuji Sano, Akizumi Ishida, Naoto Takahata, Jean David, and Daniele L. Pinti

16:50-17:10 Invited Paper

O11: Palaeo-Climatic Indicators during Deposition of Host Rocks of Nsuta Manganese Deposit in the Birimian of Ghana

George M. Tetteh

17:10-17:30

O12: A New Constraint for Matuyama-Brunhes Geomagnetic Boundary Age Based on U-Pb Zircon Dating and a Oxygen Isotope Stratigraphy of Highly Resolved Marine Sediments (Chiba Composite Section) in Japan

Yusuke Saganuma, Makoto Okada, Yuki Haneda and Kenji Horie

17:50-18:50 Drive to Restaurant passing through Kyushu Univ.

19:00-21:00 **OFFICIAL DINNER**

Bakery Restaurant “CURRENT” in Itoshima

5 March 2017 (Sunday)

SCIENTIFIC SESSION 2

Nishijin Plaza, Fukuoka City, Fukuoka

9:00-9:30 Keynote Paper

O13: Multiple Hypogene Iron mineralization in the Sao Francisco Craton: Structural Control and Processes

Carlos Rosière, Ana-Sophie Hensler, Vassily Rolim, Joao O. Schneider Santos and Steffen Hagemann

9:30-9:50

O14: Does Morphological Variation of Early Archean Lenticular Microfossils Represent Speciation of Early Life?

Ken-ichiro Sugitani, Kohama Takashi, Ryoko Senda, Natsuko Takagi and Hiroshi Morimoto

9:50-10:10

O15: Biogeochemical Cycling of Fe, S, C, N, and Mo Recorded in DXCL Black Shales Suggests Existence of Oxygenated Ocean 3.2 Billion Years Ago

Kosei E. Yamaguchi, Hiroshi Naraoka, Minoru Ikehara, Takashi Ito and Shoichi Kiyokawa

10:10-10:20 Refreshment

10:20-10:40

O16: Molybdenum Isotopes in Modern Marine Hydrothermal Fe- and Mn-Oxide Deposits: Implications for Archean and Paleoproterozoic Mo Cycles

Kosuke T. Goto, James R. Hein and Gen Shimoda

10:40-11:20 Keynote Paper

O17: Supercraton Superia: A Synthesis of Knowledge from Some of the Best Known Archean Cratons and Their Paleoproterozoic Cover Successions

Wouter Bleeker

11:20-11:40 Invited Paper

O18: The Os Isotope and PGE Abundance of Sedimentary Rocks as a Tool to Elucidate Linkage between Massive Volcanism/Bolide Impact and Environmental Change

Katz Suzuki

11:40-12:10 Poster short talks (Non-student) 3min x 8

12:10-13:30 Lunch and Poster Session2

13:30-14:00 Keynote Paper

O19: Similarities and Paleogeography of Proterozoic Terrestrial Sandstone Deposits on the Canadian Shield: Products of Supercontinent Assembly

Alessandro Ielpi and Robert Rainbird

14:00-14:20

O20: Millennial-Scale Oscillation in Sea Surface Temperature of the Kuroshio during the Holocene

Minoru Ikehara

14:20-14:40

O21: Modeling of Rock Evolution Process: Insight from Digital Rock Physics

Takeshi Tsuji

14:40-14:50 Refreshment

14:50-15:10 Invited Paper

O22: Dark Energy Ecosystem in the Modern and Ancient Deep Ocean and Even

in the Extraterrestrial Ocean

Ken Takai

15:10-15:30 Invited Paper

O23: Manganese Bearing Rocks in the Southern Kibi-Winneba Belt, Ghana: Typical or Atypical Mn Formation in the Palaeoproterozoic Birimian of West Africa?

Frank K. Nyame, Kwabina Ibrahim and Armah, T. E. K

15:30-15:50

O24: Processes and Patterns of Daily Lamination in Geothermal Carbonate Sediments: Analog for Stromatolites?

Akihiro Kano, Chiduru Takashima and Tomoyo Okumura

15:50-16:10 Refreshment

16:10-16:30

O25: The Mesoarchaeon Dominion Group and the Onset of Intracontinental Volcanism on the Kaapvaal Craton

Andrea Agangi, Axel Hofmann, Ernst Hegner and Claudia Teschner

16:30-16:50

O26: Clues to Extraterrestrial Mass Flux in the Past: A Case Study on Fullerene with Helium-3 from the Permian–Triassic Boundary

Tetsuji Onoue, Mitsutaka Miura, Naoto Takahata and Yuji Sano

16:50-17:10 Invited Paper

O27: Pan-African Metacarbonate from the Eastern Desert, Egypt: Implications for the Paleo-Climatology and Paleo-Environment

Mohamed M. Abu El-Hasan, Shoichi Kiyokawa, Maher Dawoud, Hanaa A. Al-Dokouny and Taishi Suzuki

17:10-17:30

O28: History of Connection between Mediterranean and Atlantic Basins during the Last 20 My

Jun-ichiro Kuroda, Francisco J. Jimenez-Espejo and Nao Ohkouchi

17:30-17:33 Farewell Address

Shoichi Kiyokawa

19:00-21:00 **FAREWELL PARTY(OPTIONAL)**

Mizutaki (Light-Broth-based Chicken Hot Pot) Restaurant “HAKATA HANAMIDORI” in Nakasu

POSTER SESSION

Nishijin Plaza, Fukuoka City, Fukuoka

P01: The Lithostratigraphy and Geological Structure of Goto Group in the Narujima Island, Goto Islands, Japan

Daisaku Kaneko and Shoichi Kiyokawa

P02: Magneto-Biostratigraphy of the Upper Triassic to Lower Jurassic Bedded Chert Sequences from Inuyama Area, Central Japan

Daisuke Yamashita, Koji Uno and Tetsuji Onoue

P03: Geochemical Characteristics of Chromitites and Peridotites from the Kabul Block, Afghanistan

Esmaeel Shah Rezaei, Yasuhito Osanai, Nobuhiko Nakano and Tatsuro Adachi

P04: Chronological Paleostress Analysis of the Yamada Sub-Deposit, Hishikari Epithermal Gold Deposit, Southern Kyushu, Japan

Guillaume D. Faye, Atsushi Yamaji, Kotaro Yonezu, Thomas D. Tindell and Koichiro Watanabe

P05: Geology, Petrography and Geochemistry of the BIFs-Bearing Greenstones from Um Nar and Um Anab, Eastern Desert, Egypt

Hanaa A. Al-Dokouny, Shoichi Kiyokawa, Maher Dawoud, Mohamed M. Abu El-Hasan and Taishi Suzuki

P06: Short Life of Continental Crusts on the Early Earth: Production and Destruction Pattern from Detrital Zircon Age Spectra

Hikaru Sawada, Yukio Isozaki, Shuhei Sakata, Takafumi Hirata and Shigenori Maruyama

P07: Occurrence of the Archean Orthogneisses and Mafic Rocks, and U-Pb Dating and REE Compositions of Zircons in Anshan, North China Craton

Hiroki Uehara, Shinji Yamamoto, Yoshiaki Kon, Yibing Li, Wei Jin and Tsuyoshi Komiya

P08: Microorganisms Involved in the Formation of Iron-Dominated Flocculent

Mats in Deep-Sea Hydrothermal Environments

Hiroko Makita, Sakiko Kikuchi, Mitsunobu Satoshi, Emiko Tanaka, Yoshihiro Takaki, Toshiro Yamanaka, Tomohiro Toki, Takuroh Noguchi, Kentaro Nakamura, Mariko Abe, Miho Hirai, Masahiro Yamamoto, Katsuyuki Uematsu, Junichi Miyazaki, Takuro Nunoura, Yoshio Takahashi and Ken Takai

P09: Deep Sea Environment about 2.2 Billion Years Ago: Constraints from Iron Speciation Analyses of the Black Shales Recovered by the Ghana Beach Drilling Project (GBDP)

Hiromasa Hayama, Kosei E. Yamaguchi, Shoichi Kiyokawa and Asuka Yamaguchi

P10: Growth Rates and Stratigraphy of the Western Pacific Ferromanganese Crusts

Hironori Takahashi and Takashi Ito

P11: Milankovitch Cycle Driven Biogeochemical Cycles Recorded in the Triassic Bedded Chert Sequence from Central Japan

Katsuhito Soda and Tetsuji Onoue

P12: Optimization of Ion Exchange Chromatography for Molybdenum Separation Toward Isotope Analysis

Kenta Ishihata, Goh Abe, and Kosei E. Yamaguchi

P13: About Early Proterozoic Ocean Environment Information from TS07-01 Core

Kento Motomura, Shoich Kiyokawa and Minoru Ikehara

P14: Petrography and Geochemistry of Manganese-Bearing and Host Rocks from the Southern Kibi-Winneba Belt, Ghana: Implications for Genesis of Mn Formations in the Palaeoproterozoic Birimian of West Africa

Kwabina Ibrahim, Frank K. Nyame and Armah T. E. K.

P15: Influence of Surface Condition on Data Quality of U-Pb Zircon Geochronology

Mami Takehara, Kenji Horie, Tomokazu Hokada and Shoichi Kiyokawa

P16: Synchrotron Radiation-Based Fourier Transform Infrared Microspectroscopy of the Neoproterozoic Prokaryotic Fossils

Motoko Igisu, Tsuyoshi Komiya, Yuka Ikemoto, Yechuan Geng and Hiroki Uehara

- P17: Development of Pressure Solution Deformation within Kumage Group, Shimanto Belt in Tanegashima, Japan**
Naoya Sakamoto, Kuniyo Kawabata and Yujin Kitamura
- P18: Mineralogical Evolution of the Manganese Ore of the Kalahari Manganese Field: A Quantitative Study of the Ore-Bearing Mineral Phases**
Nicholas A. Vafeas, Lauren Bignaut and K.S. (Fanus) Viljoen
- P19: Genetic Relations between Skarn Mineralization and Petrogenesis of the Tiger Mouth Prospect, Shwe Min Bon Skarn Mineralization Area, Kalaw Township, Shan State, Myanmar**
Nyein Sint, Kotaro Yonezu and Koichiro Watanabe
- P20: Enstatite Chondrite Chondrules Explain the Oxygen Isotope Variation of Building Blocks of Inner Planetary Embryos**
Ryoji Tanaka and Eizo Nakamura
- P21: Phosphorus Geochemistry of the Central Japan Sea Sediments (IODP Exp. 346) 20~150 Kyr Ago: Implications for the Evolution of Asian Monsoon Climate System**
Saeka Masuda, Kosei E. Yamaguchi and Satoshi Takahashi
- P22: Lithology and Depositional Age of Paleoproterozoic Volcaniclastic Sequence from Ashanti Belt of Birimian Supergroup, Ghana**
Satoshi Yoshimaru, Shoichi Kiyokawa, Takashi Ito, Minoru Ikehara, Kenji Horie, Mami Takehara, Takashi Sano, Yukiyasu Tsutsumi, Frank K. Nyame and George M. Tetteh
- P23: Geochemistry of the Oldest Sedimentary Rocks (>3.92 Ga): Chemical Composition of Seawater and Vestige of Life in the Early Earth**
Satoshi Yoshida, Takayuki Tashiro, Akira Ishikawa and Tsuyoshi Komiya
- P24: Reconstruction of the Deep Sea Floor Environment of the Early Period of Proterozoic Era by Ghana Birimian (GHB) Drilling Core**
Shiono Sakai, Shoichi Kiyokawa, Takashi Ito, Minoru Ikehara, Kosei E. Yamaguchi, Tetsuji Onoue, Frank K. Nyame and George M. Tetteh
- P25: Toward Detection of Supernova Event Near the Earth Based on High-Resolution Analysis of Cosmogenic Nuclide ¹⁰Be in Marine Sediments**
Shogo Takiguchi, Yusuke Sukanuma, Ryuho Kataoka and Kosei E. Yamaguchi

P26: Spatial Distributions of Transitional Elements within the Archean and Paleoproterozoic BIFs: Implications for Change of Bioavailability in Bioessential Elements in the Proterozoic Ocean

Shogo Aoki, Shuhei Sakata, Takeshi Ohno, Yoshio Takahashi, Yasuhiro Kato and Tsuyoshi Komiya

P27: The Characteristics of Neoproterozoic Banded Iron Formation in El Dabbah, Eastern Egypt

Taishi Suzuki, Shoichi Kiyokawa, Minoru Ikehara, Takashi Sano, Maher Dawoud and Mohamed Abouelhassan

P28: Overview of Neogene Marine Manganense Deposits in Northeast Japan

Takashi Ito

P29: Development of in situ Oxygen, Silicon, and Sulfur Isotope Analysis Techniques by SIMS at Kochi Institute, JAMSTEC

Takayuki Ushikubo

P30: 3.2 Ga Sulfur Isotopic Heterogeneity of Barite and Pyrite Microcrystals in Pilbara, Western Australia

Tsubasa Miki, Shoichi Kiyokawa, Naoto Takahata, Akizumi Ishida, Takashi Ito, Minoru Ikehara, Kosei E. Yamaguchi and Yuji Sano

P31: Geological and Geochemical Characteristics of Precambrian Rock Units Hosting Gold Mineralization at Phayaung Taung in Central Myanmar

Win Phyo, Kotaro Yonezu and Koichiro Watanabe

P32: Characteristics of Ore Mineralization and Alteration of the Tumpang Pitu High Sulfidation Epithermal Gold Deposit in East Java, Indonesia

Yu Yu Myaing, Arifudin Idrus, Anastasia Dewi Titisari and Kotaro Yonezu

P33: Constraint on the Depositional Age and Environment of the Strata-Bound Manganese Deposits in the Chichibu Belt, Southwest Japan

Yuki Tomimatsu and Tetsuji Onoue

P34: Glacial—Holocene Changes in Radiocarbon Reservoir Ages in the Western North Pacific off Japan

Yusuke Okazaki

6-10 March 2017 (Monday through Friday)

POST-SYMPIOSIUM FIELD TRIP

- ◆ Yahata Works of NIPPON STEEL & SUMITOMO METAL CORPORATION
- ◆ Higashitani Limestone Mine of Mitsubishi Materials Corporation
- ◆ Aso volcanoes (active volcano and modern hydrothermal system)
- ◆ Taio Gold Mine (world-famous high-grade gold mine)
- ◆ Limestone mélange bearing fossils of Megalodon (bivalve)
- ◆ Satsuma Iwo Jima Island
- ◆ Sakura Jima Island

Time Table

March 3 (Fri), 2017

16:30 - 19:00	Ice Breaker/Registration (Nishijin Plaza, Fukuoka City)
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March 4 (Sat), 2017

※Every talk needs a three minutes discussion period

8:00 -	Depart Recent Hotel and get on 8:09 train		
9:00 - 9:03	Shoichi Kiyokawa	Welcoming Address	
9:03 - 9:10	Koichiro Watanabe	Complimentary Address	
9:10 - 9:50	1 Axel Hofmann	Keynote Paper Presentation	
9:50 - 10:10	2 Shoichi Kiyokawa	Oral Presentation	
10:10 - 10:20	Refreshment		
10:20 - 10:40	3 Morgane Ledevin	Oral Presentation	
10:40 - 11:00	4 Maher Dawoud	Invited Paper Presentation	
11:00 - 11:40	5 Luc André	Keynote Paper Presentation	
11:40 - 12:35	poster talks (student) 2 x 26	Oral Presentation	
12:35 - 13:50	Lunch and Poster session 1		
13:50 - 14:35	6 Joseph L. Kirschvink	Keynote Paper Presentation	
14:35 - 14:55	7 Tsuyoshi Komiya	Oral Presentation	
14:55 - 15:10	Refreshment		
15:10 - 15:35	8 Kazumi Yoshiya	Oral Presentation	
15:35 - 16:15	9 Fumio Inagaki	Keynote Paper Presentation	
16:15 - 16:30	Refreshment		
16:30 - 16:50	10 Yuji Sano	Invited Paper Presentation	
16:50 - 17:10	11 George M. Tetteh	Invited Paper Presentation	
17:10 - 17:30	12 Yusuke Suganuma	Oral Presentation	

17:50	Depart for Itoshima peninsula		
18:25 - 18:30	Pass through Kyushu Univ. Itoshima campus		
18:50	Arrive at Restaurant		
19:00 - 21:00	Official Dinner (Bakery Restaurant "CURRENT")		
21:00	Back to Fukuoka city		

March 5 (Sun), 2017

9:00 - 9:30	13 Carlos Rosière	Keynote Paper Presentation	
9:30 - 9:50	14 Ken-ichiro Sugitani	Oral Presentation	
9:50 - 10:10	15 Kosei E. Yamaguchi	Oral Presentation	
10:10 - 10:20	Refreshment		
10:20 - 10:40	16 Kosuke T. Goto	Oral Presentation	
10:40 - 11:20	17 Wouter Bleeker	Keynote Paper Presentation	
11:20 - 11:40	18 Katz Suzuki	Invited Paper Presentation	
11:40 - 12:10	poster talks (non-student) 3 x 8	Oral Presentation	
12:10 - 13:30	Lunch and Poster Session 2		
13:30 - 14:00	19 Alessandro Ielpi	Keynote Paper Presentation	
14:00 - 14:20	20 Minoru Ikehara	Oral Presentation	
14:20 - 14:40	21 Takeshi Tsuji	Oral Presentation	
14:40 - 14:50	Refreshment		
14:50 - 15:10	22 Ken Takai	Invited Paper Presentation	
15:10 - 15:30	23 Frank K. Nyame	Invited Paper Presentation	
15:30 - 15:50	24 Akihiro Kano	Oral Presentation	
15:50 - 16:10	Refreshment		
16:10 - 16:30	25 Andrea Agangi	Oral Presentation	
16:30 - 16:50	26 Tetsuji Onoue	Oral Presentation	
16:50 - 17:10	27 Mohamed M. Abu El-Hasan	Invited Paper Presentation	
17:10 - 17:30	28 Jun-ichiro Kuroda	Oral Presentation	
17:30 - 17:33	Shoichi Kiyokawa	Farewell Address	

19:00 - 21:00	Optional Farewell Party (Chicken Hot Pot) in Nakasu		
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