



# 1st WHEEL Seminar (5th IGS “Precambrian World 2023” )

March 5-6 Symposium in Kochi Core center

## March 5th

- 9:20** Welcome talk Yuji Sano
- 9:30** O-1 SECULAR CHANGE OF ATMOSPHERIC OXYGEN CONTENT THROUGH THE PROTEROZOIC AND CRISIS EVOLUTION HYPOTHESIS Tsuyoshi Komiya  
*The Univ. of Tokyo*
- 10:00** O-2 IN-SITU ANALYSIS OF CARBONATE-ASSOCIATED PHOSPHATE: IMPLICATIONS FOR SECULAR CHANGE OF SEAWATER PHOSPHATE THROUGH THE PRECAMBRIAN Nagao Ryosuke  
*The Univ. of Tokyo*  
*Coffee break*
- 10:30** O-3 MICRO-TEXTURAL AND COMPOSITIONAL FEATURES IN A MESOTHERMAL GOLD MINERALIZATION AT AKOASE, NORTHEASTERN AXIM-KONONGO (ASHANTI) BELT, GHANA: IMPLICATIONS FOR MINING AND ENVIRONMENTAL MANAGEMENT Nyame Frank  
*Univ. of Ghana*  
  
RELATIONSHIP BETWEEN ALTERATION AND MINERALIZATION IN A MESOTHERMAL GOLD PROSPECT AT AKOASE, NORTHEASTERN AXIM-KONONGO (ASHANTI) BELT IN THE BIRIMIAN OF GHAN
- 10:50** O-4 STRATIGRAPHY AND AGE RELATIONS IN THE PALEO-PROTEROZOIC BIRIMIAN ROCKS OF THE CAPE THREE POINTS AREA, SOUTHERN ASHANTI GREENSTONE BELT, GHANA Satoshi Yoshimura  
*Kyushu Univ.*
- 11:20** O-5 EMERGENCE OF THE AEROBIC ATMOSPHERE-OCEAN SYSTEM: ROLES OF LIFE AND EARTH'S INTERIOR Andrey Bekker  
*Univ. of California*
- 12:00** *Lunchi*
- 13:20** O-6 FLUGIAL-LACUSTRINE SEDIMENTS PROVENANCE STUDY OF MALAWI Stewart Ngalonde  
*Kyushu Univ.*
- 13:40** O-7 RECONSTRUCTING OF ANTARCTIC BOTTOM WATER FORMATION IN THE CAPE DARNLEY OVER THE PAST 500,000 YEARS Keiko Takehara  
*Kochi Univ.*
- 14:00** O-8 ENHANCED MAGMATISM TRIGGERED THE MIDDLE MIOCENE CLIMATIC OPTIMUM Kosuke T. Goto  
*Geological Survey of Japan, AIST*  
*Coffee break*
- 14:30** O-9 NITROGEN BIOAVAILABILITY IN THE LATE PALEOPROTEROZOIC OCEAN Kento Motomura  
*Univ. of California*
- 14:50** O-10 SILICATE SPHERULES OF POSSIBLE IMPACT ORIGIN FROM THE PALEOARCHEAN STRELLEY POOL FORMATION, WESTERN AUSTRALIA Kenichiro Sugitani  
*Nagoya Univ.*
- 15:30** O-11 THE BELINGWE GREENSTONE BELT, ZIMBABWE – SOME NEW AGE CONSTRAINTS AND IMPLICATIONS FOR GREENSTONE BELT EVOLUTION Axel Hofmann  
*Univ. of Johannesburg*  
*Zoom*  
*Coffee break*
- 16:20** O-12 REMOTE SENSING AND GIS FOR MONITORING COASTAL CHANGES IN EL-ALAMEIN AREA, MATROUH, EGYPT M.M. Abu El-Hassan  
*Menofia Univ.*



## March 5th

### *Poster presentation*

- 16:40** P-1 OCCURRENCE AND GEOLOGICAL SETTING OF A NEOPROTEROZOIC IRONSTONE IN THE BUEM STRUCTURAL UNIT (BSU), GHANA  
David Y. Ku  
*Ghana Geological Survey Authority*
- P-2 CHAOTIC BEDS IN THE PALEOGENE MUROTO FORMATION AT MUROTO PENINSULA, KOCHI PREFECTURE, JAPAN  
Hinako Matsumoto  
*Univ. of Kochi*
- P-3 THE RESTORATION OF SEDIMENTARY ENVIRONMENT OF MUDSTONE SEQUENCES IN GOTO GROUP, NAGASAKI PREFECTURE, JAPAN  
Hiroaki Takahashi  
*Kyushu Univ.*
- P-4 EVIDENCE FOR EARLY ECOSYSTEM PRESERVED IN BANDED IRON FORMATION OF THE ISUA SUPRACRUSTAL BELT  
Hikaru Tanabe  
*The Univ. of Tokyo*
- P-5 GEOCHEMISTRY AND TECTONIC SETTING OF METAVOLCANIC ROCKS FROM THE CAPETHREE POINTS AREA IN THE SOUTHERN ASHANTI PALEOPROTEROZOIC BIRIMIAN GREENSTONE BELT, GHANA  
Kwabina Ibrahim  
*Univ. of Ghana*
- P-6 THE GEOLOGY OF GOLD MINERALIZATION IN THE NANGODI GREENSTONE BELT, GHANA  
Kwame Fynn  
*Univ. of Johannesburg*
- P-7 ARE THE DIAMICTITES FROM THE EASTERN DESERT OF EGYPT REPRESENT GLACIAL DEPOSITS??? THE REGIONAL AND THE GLOBAL DISTRIBUTION AND THE PALEOCLIMATIC SIGNIFICANCE DURING THE PAN-AFRICAN TIME  
Mai El-Lithy  
*Menouifa Univ.*
- P-8 U-PB GEOCHRONOLOGY AND GEOCHEMISTRY IN ZIRCON OF THE UTSUBO GRANITIC PLUTON, HIDA BELT, CENTRAL JAPAN  
Mami Takehara  
*National Institute of Polar Research*
- P-9 FLUVIAL-LACUSTRINE SEDIMENTS PROVENANCE STUDY OF MALAWI  
Stewart Ngalonde  
*Kyushu Univ.*
- P-10 FLUVIAL-LACUSTRINE SEDIMENTS PROVENANCE STUDY OF MALAWI  
Stewart Ngalonde  
*Kyushu Univ.*
- P-11 DEFORMATION PATTERNS OF AN ACCRETIONARY PRISM REVEALED BY SANDBOX EXPERIMENT  
Satoshi Tonai  
*Kochi Univ.*
- P-12 IN SITU SULFUR ISOTOPE ANALYSIS OF SULFIDE IN >3.95 GA METASEDIMENTARY ROCKS: SULFUR CYCLING AND MICROBIAL ACTIVITY IN THE EOARCHEAN  
Ryota Mihori  
*The Univ. of Tokyo*
- P-13 IN-SITU ANALYSIS OF CARBONATE-ASSOCIATED PHOSPHATE: IMPLICATIONS FOR SECULAR CHANGE OF SEAWATER PHOSPHATE THROUGH THE PRECAMBRIAN  
Takeshi Ohno  
*Gakushuin Univ.*
- P-14 BEHAVIOR OF PHOSPHOROUS DURING THE 2.7 GA SUBMARINE HYDROTHERMAL ACTIVITIES AT ABITIBI GREENSTONE BELT, CANADA  
Yuki Takashina  
*Univ. of Tohoku*

**17:10** *Poster session*

**18:30** *Party at “Sea orchard” (海の果樹園)*



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**March 6th**

- 9:30** O-13 MODERN IRON FORMATION AT SATSUMA IWO-JIMA ISLAND, KAGOSHIMA, JAPAN- HYDROTHERMAL CHIMNEY MOUND, IRON SEDIMENTS AND IRON OOLITE. Shoichi Kiyokawa  
*Kyushu Univ.*
- 10:00** O-14 PALEOCLIMATE AND PALEOENVIRONMENTAL CONDITIONS DURING THE PAN-AFRICAN OROGENY IN THE ARABIAN-NUBIAN SHIELD: IMPLICATIONS FROM IRON FORMATIONS AND ITS RELATION TO SNOWBALL EARTH HYPNOSIS IN THE EASTERN DESERT, EGYPT Hanaa El Dokouny  
*Univ. of Menoufia*
- 10:20** O-15 Re-Os ISOTOPE RECORD IN THE PALEOCENE LIMESTONE OF THE CHICXULUB IMPACT BASIN Honami Sato  
*Kyushu Univ.*
- Coffee break*
- 10:50** O-16 RARE EARTH ELEMENT ENRICHMENT OF THE LATE EDIACARAN KALYUS BEDS (SOUTHWESTERN BALTICA) THROUGH DIAGENETIC UPTAKE Francovschi Ion  
*Univ. of Bucharest*
- 11:20** O-17 UNDERSTANDING MULTISTAGE SYNTECTONIC IRON ORE HYPOGENE MINERALIZATION IN THE SÃO FRANCISCO CRATON – A TEXTURAL APPROACH Rosière Carlos Alberto  
*Universidade Federal de Minas Gerais (UFMG)*
- 12:00** *Lunchi*
- 12:50** *Core Center Toure*
- 13:40** O-18 PHOSPHOROUS CYCLE ON THE ARCHEAN EARTH: GEOLOGICAL CONSTRAINTS Takeshi Kakegawa  
*Univ. of Tohoku*
- \* **14:20** O-19 WERE MICROAEROPHILIC IRON-OXIDIZING BACTERIA RESPONSIBLE FOR THE DEPOSITION OF CA. 1.88 GA GRANULAR IRON FORMATIONS? Kovalick Francis  
*Univ. of California*
- 14:50** O-20 HF-W DATING OF ANCIENT ZIRCON USING A NANOSI Yuji Sano  
*Kochi Univ.*
- 15:30** O-21 ARCHAEOAN GEOLOGY OF THE SINGHUBHUM CRATON, INDIA: INSIGHTS FROM GREENSTONE BELTS AND CRATONIC COVER SEQUENCES Jodder Jaganmoy  
*Univ. of the Witwatersrand*
- Zoom*
- Coffee break*
- 16:00** O-22 TRACE ELEMENT AND S-ISOTOPE COMPOSITION OF P YRITE FROM THE WITWATERSRAND BASIN, SOUTH AFRICA Agangi Andrea  
*Akita Univ.*
- \* **16:30** O-23 \*\*\*\*\* Kosei Yamaguchi  
*Toho Univ.*
- 17:00** Final talk Shoichi Kiyokawa  
*KyushuUniv.*