

The 121th Annual Meeting of the Geological Society of Japan--Poster Presentation

■ 14 Sept. (Sun) Core time 13:00-14:20 (2nd Gymnasium)

R1. Plutonic rocks, volcanic rocks and magmatic processes

R1-P-1

Petrology of the Late Cretaceous to Paleogene plutonic rocks in the Iide Mountains **Masaomi KUBO** · Shinichi KAGASHIMA

R1-P-2

Vertical physical properties of the Kumano Acidic Rocks, SW Japan **Hirohisa MATSUURA** · Hiroshi KANAYA · Shigeo OKUMA · Naoji KOIZUMI

R1-P-3

Whole-rock chemical composition and Sr isotopic composition of the eastern part of Ao granite **Hitomi OGAWA** · Motohiro TSUBOI

R1-P-4

Magma activity of granitic rocks from the Ryoike and Sanyo belts, eastern part of Yamaguchi Prefecture **Shuhei YAMASHITA** · Atsushi OGAWA · Masaaki OWADA

R1-P-5

Petrological characteristics of granitic rocks around Chitradurga area, Eastern Dharwar craton, Southern India **Hideaki FUKUSAKI** · Atsushi KAMEI · M SATISH-KUMAR · Tsuyoshi TOYOSHIMA · Tomokazu HOKADA

R1-P-6

Zircon crystal morphology from Osumi granite body in the southern part of Kagoshima prefecture **Sakiko IKEDA** · Yousuke NOUMI

R1-P-7

Implications for magma residence time using non-polished zircon LA-ICP-MS U-Pb dating **Hisatoshi ITO**

R1-P-8

The field occurrence and chemical compositions of syn-plutonic mafic rocks in the Masaki Granite, northern Kyusyu **Masaki YUHARA** · Fumiya MIZUTA · Eriko NISHI · Kairi KIYOURA · Kei TERAMOTO

R1-P-9

Sr isotope compositions of minette dyke from Rundvågshetta, Lützow Holm Complex, East Antarctica. **Tomoharu MIYAMOTO** · Katsuyuki YAMASHITA · Osamu OKANO · Toshiaki TSUNOGAE · Daniel J. DUNKLEY · Mutsumi KATO

R1-P-10

Petrological features and genesis of gabbros and ultramafic block distributed at boundary of sheeted dyke complex and upper gabbro in the northern Oman ophiolite **Ryu KANEKO** · Yoshiko ADACHI · Sumio MIYASHITA

R1-P-11

The relationship between spatial compositional distribution and field occurrence of peridotites in the southernmost part of

Salahi mantle section, the Oman ophiolite **Satoru FUJII** · Eiichi TAKAZAWA

R1-P-12

The genesis of foliated gabbros in the Oman ophiolite ~ studies on texture and SPO (shape preferred orientation) ~ **Masahiro OIKAWA** · Yoshiko ADACHI · Yutaka NOGAWA · Sumio MIYASHITA

R1-P-13

Thermal metamorphism and possible wet melting of metamorphic sole in the northern Oman ophiolite **Namiko MORI** · **Eiichi TAKAZAWA** · Rikako NOHARA · Yoshiko ADACHI · Toshiro TAKAHASHI · Sumio MIYASHITA

R1-P-14

Petrography of mafic xenolith in Transcarpathia Obsidian, Ukraine **Yoshimitsu SUDA** · Masayoshi YAMADA · Ryzhov SERGEI · Stepanchuk VADIM

R1-P-15

High Sr magmatism of Nanae Volcano in Abu Volcano Group **Susumu KAKUBUCHI** · Kenshi OHTSUYAMA

R1-P-16

Petrography and chemical compositions of andesites from the Early Cretaceous Kanmon Group, SW Japan **Hiroki YAMAGATA** · Teruyoshi IMAOKA

R1-P-17

K-Ar ages of camptonite from the Amami-Oshima **Takayuki FUJII** · Teruyoshi IMAOKA · Kazuo KIMINAMI · Koushi YAGI · Tetsumaru ITAYA

R1-P-18

Deciphering 3-D structure of young subduction zone from spatial variation of conditions of magma generation: Miocene volcanism in the SW Japan **Fumitoshi MORISATO** · Kazuhito OZAWA

R2. Petrology, mineralogy and economic geology

R2-P-2

Mode of occurrence, geochemical features and origin of the greenstones from the Mino belt in the Tanigumi area, Gifu Prefecture, SW Japan **Sho KUBOTA** · Akira ISHIWATARI

R2-P-3

Titanium substitution model in Ca- and Ti-poor garnet of ultrahigh-temperature granulites **Toshisuke KAWASAKI** · Yoichi MOTOYOSHI

R2-P-4

Annealing and radiation-induced effects on cathodoluminescence of zircon **Yuta TSUCHIYA** · Hirotsugu NISHIDO · Masahiro KAYAMA · Yousuke NOUMI

R2-P-5

Diffusion characteristics of hornblende during laser step heating and closure temperature **Hironobu HYODO**

R2-P-6

Use of Fluid Inclusions to infer Formation Conditions of Cerro Colorado Copper Deposit, Northern Chile **Debbie Pui Wai TSANG** · Brian TATTITCH · Simon WALLIS

R2-P-7

Characteristics of Cretaceous igneous rocks in around the Akiyoshi Plateau, and their bearing on mineralization **Yuka SASAKI** · Teruyoshi IMAOKA · Kazuo NAKASHIMA · Koshi YAGI · Tetsumaru ITAYA

R2-P-8

Quartz c-axis orientations of the silicified rock from the Kasuga gold deposit in the southern Satsuma Peninsula, Southwest Japan **Hiroshi YAMAMOTO** · Tayyaba MATEEN · Hafiz Ur REHMAN

R4. Metamorphic rocks and tectonics

R4-P-1

Re-evaluation of thermal structure of the low-grade Sanbagawa metamorphic belt along the Asemi-gawa, central Shikoku, Japan **Hayato UMEDA** · **Masaki ENAMI** · Tomoki TAGUCHI

R4-P-2

Interactions between the shallow wedge mantle and subducted slab ~the Shiraga ultramafic body, Kochi prefecture~ **Hirokazu KAWAHARA** · Takayoshi NAGAYA · Hiroshi MORI · Simon WALLIS

R4-P-3

Finding of metamorphosed diorite in Cretaceous high-grade metamorphic terrane, Uki-dake area, western part of Fukuoka Prefecture: tectonic setting of diorite magma **Ryohei URASHIMA** · Masaaki OWADA

R4-P-4

U-Pb dating of detrital zircons from Sanbagawa schist clasts from Eocene and Miocene conglomerates in Shikoku and Kanto **Ryota IIZUKA** · Hideo TAKAGI · Hideki IWANO · Akizumi ISHIDA · Yuji SANO

R4-P-5

Partial melting of mafic gneiss in the Rundvågshetta, Lützow-Holm Complex, East Antarctica **Shin-ichi KAGASHIMA** · Rie UCHIUMI · Toshisuke KAWASAKI

R4-P-6

Behavior of trivalent cations in the antigorite serpentinization **Yusuke SODA** · Hironori YOKOYAMA · Tomoaki MORISHITA

R4-P-7

Metamorphic texture of forsterite-spinel rock, from the Brattnipene region, Sør Rondane Mountains, East Antarctica **Maho ISHIKAWA** · Toshiaki SHIMURA · Masaaki OWADA · Atsushi KAMEI · Kazuhiro TSUKADA · Masaki YUHARA

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R4-P-8

Saline fluids recorded in jadeitites in serpentinite mélanges of southwest Japan **Miki SHIGENO** · Yasushi MORI · Tatsuhiko KAWAMOTO · Tadao NISHIYAMA

R4-P-9

P-T path of the metagabbros in the Poroshiri ophiolite; evolutionary processes of the amphibole and chlorite **Shinji TANAKA** · Sumio MIYASHITA

R4-P-10

Relationship between peak metamorphic condition and geological structure in the upper sequence of Hidaka Metamorphic Belt **Yoshihiro NAKAMURA** · Tsuyoshi TOYOSHIMA · Satish-Kumar MADHUSOODHAN

R4-P-11

Fluid evolution history in pelitic gneiss in the Moldanubian Zone of the southern Bohemian Massif. **Tomoyuki KOBAYASHI** · Takao HIRAJIMA · Yoshikuni HIROI · Martin SVOJTKA

R4-P-12

Garnet-bearing veins in pelitic schist from the Kiso district, Ryoke metamorphic belt **Chiaki IKAWA** · Yoichi MOTOYOSHI · Tomokazu HOKADA · Kenji HORIE

R4-P-13

Metamorphic texture of Fe-rich granulites in Vesthaugen, north Sør Rondane Mountains, East Antarctica **Sotaro BABA** · Yasuhito OSANAI · Nobuhiko NAKANO · Tomokazu HOKADA · Tatsuro ADACHI · Tsuyoshi TOYOSHIMA

R4-P-14

Petrology and phase equilibria modeling of charnockite: implications for Precambrian crustal evolution **Toshiaki TSUNOGAE** · M SANTOSH

R4-P-15

Geochronological characteristics of granitic and metagabbroic rocks from the Kurosegawa Tectonic Belt **Yasuhito OSANAI** · Aya YOSHIMOTO · Nobuhiko NAKANO · Tatsuro ADACHI · Ippei KITANO · Kazuhiro YONEMURA · Jun SASAKI · Nobutaka TSUCHIYA · Hideo ISHIZUKA

R4-P-16

U-Pb and K-Ar ages of metamorphic and plutonic rocks in the area of 1:200,000 quadrangle geological map of the Oita district **Kazuhiro MIYAZAKI** · Makoto SAITO · Hideo HOSHIZUMI · Seiichi TOSHIMITSU · Kiyohide MIZUNO · Toru DANHARA · Hideki IWANO · Takeshi HIRATA

R4-P-17

Numerical modeling of shape preferred orientation of rigid particle in viscous matrix **Tarojiro MATSUMURA** · Toshiaki MASUDA

R4-P-18

Fluid-rock interactions in deep portions of the accretionary prism: The Makimine mélange in the Shimanto accretionary

complex, eastern Kyushu **Tsubasa SAITO** · Kohtaro UJIE

R4-P-19

Local diffusion of elements during charnockitization in Sri Lanka **Yukiko YAMASAKI** · Takeshi IKEDA · Yoichi MOTOYOSHI · Yoshikuni HIROI · Bernard PRAME

R4-P-20

Thermal structure of the mineral zone boundary in the Sarutagawa river in the Sambagawa metamorphic belt, Southwest Japan **Kenta KAWAGUCHI** · Takehiro HIROSE · Kenichi HOSHINO

R4-P-21

Deformation of Peninsula Gneiss Complex, Chitradurga Schist Belt and Chitradurga Granite, Western Dharwar Craton, Southwestern India **Tsuyoshi TOYOSHIMA** · M. SATISH-KUMAR · Tomokazu HOKADA · Kyoko KATAOKA · Atsushi KAMEI

R4-P-22

Cooling rate of the Lützow-Holm Complex, East Antarctica, deduced from diffusion zoning of garnet **Takeshi IKEDA**

R4-P-23

High-*P/T* metamorphism of the Mikabu and Northern Chichibu belts in central Shikoku: implications for thermal structure of the Sanbagawa subduction zone **Shunsuke ENDO**

R4-P-24

Fluid-rock interaction and reaction-enhanced permeability in an ultramafic mélange: an example from the Nomo metamorphic rocks, Kyushu, Japan **Yasushi MORI** · Miki SHIGENO · Tadao NISHIYAMA

R12. Geology and geochemistry of petroleum and coal

R12-P-1

Depositional mechanism of an Aptian petroleum source rock in the southern Arabian Gulf region: Is it related to Oceanic Anoxic Event 1a? Kazuyuki YAMAMOTO · Masatoshi ISHIBASHI · Hideko TAKAYANAGI · Yoshihiro ASAHARA · Tokiyuki SATO · Hiroshi NISHI · **Yasufumi IRYU**

R12-P-2

Hydrocarbon indications on the Joetsu Basin by fluid inclusion analysis, based on the result of METI Joetsu Kaikyu (JX), offshore Sado island, Niigata, Japan. **Satoshi KAKIZAKI** · Naoki OKAWA · Okiyuki YAMASHINA · Machiko KIDO · Seiichi IMAHORI · Daichi SATO · Kei BABA

R12-P-3

Constraints on Time-scales for Graphitization of Carbonaceous Material **Hiroshi MORI** · Natsumi MORI · Simon WALLIS · Catherine ANNEN · Rob WESTAWAY · Luca

CARICCHI · Yui KOUKETSU · Takayoshi NAGAYA

R12-P-4

Pilot Study on CCS in Gundih Gas Field in Central Java, Indonesia-Reservoir evaluation from Petro-physical parameter **Keigo KITAMURA** · Shun CHIYONOBU · Yasuhiro YAMADA · Kyosuke ONISHI · Takeshi TSUJI · Benyamin SAPIIE · Alfian BAHAR · Rachmat SULE · Toshifumi MATSUOKA · Wawan GUNAWAN A. KADIR

R19. Environmental geology

R19-P-1

Forest investigation: Monitoring of surface runoff and downward movement of soil (soil loss). **Hironobu ABE** · Yasuo ISHII · Tadafumi NIIZATO · Katsuaki MITACHI · Takayoshi WATANABE · Yoshito SASAKI

R19-P-2

On behavior of radionuclides from the disaster of Fukushima Daiichi Nuclear Power Plant in soil of Kanto Region -part 2- **Arata TAKANA** · Kazuki MUNEDA · Kazuo KAMURA

R19-P-3

Education for natural science and disaster prevention through the research activities in "Study of Areal Culture" Class of Oguni Senior high School, in Yamagata Prefecture **Takayuki KAWABE** · Satoko DOI · Fumi TAKAHASHI

R19-P-4

Subsurface Geology and the Site Amplification Map of Matsumoto City, Nagano Pref., central Japan Tomoyoshi KOSAKA · Tatsuro TSUGANE · **Hitoshi TOGASHI** · Yoshinori FURUMOTO · Ground Motion Research Group SHINSYU-UNIV.

R19-P-5

Detection of tsunami deposits, utilizing benthic foraminifers of the former Hojozu Lagoon, Imizu City, Toyama Prefecture, Japan **Saori YANO** · Akira TAKEUCHI

R19-P-6

Tsunami Deposits of the Amami Islands (Primary report) **Ryusuke IMURA** · Kazuhiko GOTO · Kengo IWAMOTO · Yukari HAYASHI · Yasuhiro OGATA · Kenichi HARADA

R19-P-7

Significances and issues of creating Osaka Red List of geography and geology **Takeshi NAKAJO** · Muneki MITAMURA · Takamoto OKUDAIRA · Yoshiaki SUGAMORI

R19-P-8

Study on particle size distribution of soil samples for forensic discrimination by image analytical method **Ritsuko SUGITA**

R19-P-9

Concept of groundwater pollution measures in the inappropriate industrial waste landfill site. **Takuya WADA** · Yoshihiro KAWABATA · Masaki HAYASHI ·

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Toyohisa NAKAMURA

R19-P-10

Groundwater flow at the landfill site **Itaru OGITSU** · Takeshi YOSHIDA · Syun KAMEYAMA · Yoshiyuki TAMURA

R19-P-11

Geology and Groundwater flow in east Narashino, Chiba, Japan **Takeshi YOSHIDA** · Osamu KAZAOKA

R21. Geoscience education/History of geoscience

R21-P-1

Revised model experiment of folding in a small plastic aquarium **Kiyoshi KAWABATA**

R21-P-2

Drilling core samples of museum collections as a geological teaching material for elementary and junior high school students **Yoko ISHII**

R21-P-3

Teaching practices of rock learning using school facilities by museum-school collaboration **Jun'ichi OHKI** · Akinari SAKUMA

R21-P-4

Report of the Seminar about Earth Science and Space Science for Talented High School Students II **Norihito KAWAMURA** · Shintaro HAYASHI · Haruhiko UEDA · Ken MOTOYA

R21-P-5

Turning the topic of radioactivity into an instructive material for the First Year Seminar **Shinji TOMIYAMA** · Tomomi KATOH · Ken SAKATA · **Tsuyoshi TANAKA**

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