

Strategies on geochemical studies in "Core-Mantle Evolution"

Faculty of Science, Niigata University

October 16 – October 17, 2015

Program

October 16, 2015

13:00 : Welcome address: M. Satish-Kumar (Niigata University)

13:05 : Taku Tsuchiya (Ehime University)

Some expectations toward the geochemistry groups in the Core-Mantle Evolution project

13:15 : Ryuichi Nomura (TIT)

Core formation and metal-silicate partitioning

13:45 : Gen Shimoda (AIST)

The HIMU-FOZO-PREMA connection: variable amount of dehydration water and compositional diversity of recycled oceanic crust

14:15 : Nozomi Kondo (Kyoto University)

Formation of the geochemical missing reservoir and core-mantle differentiation

14:45 : Tetsu Kogiso (Kyoto University)

マンツルの PGE 学で明らかにすべきことは何か

Coffee Break

15:15 : Kenji Mibe (Tokyo University)

Fluids and melts in the shallow upper mantle

15:45 : Hiroyuki Kagi (Tokyo University)

マンツル鉍物と窒素流体との反応を探る

16:15 : Seiji Kamada (Tohoku University)

Light elements partitioning between mantle minerals and core materials

16:45 Shigehiko Tateno (ISEI, Okayama University)

Metal-silicate isotope fractionation of Si at high PT conditions

17:00 Furukawa Sano Asami (J-Parc)

Experimental study of isotope fractionation at high-P

17:30 M. Satish-Kumar (Niigata University)

Light element isotope fractionation in deep Earth

18:00 Miki Tasaka (Niigata University)

含水かんらん石多結晶体の変形における鉄の効果

19:00 : Conference Dinner



MEXT Grant-in-Aid for Scientific Research on Innovative Areas

Interaction and Coevolution of the Core and Mantle Toward Integrated Deep Earth Science

October 17, 2015

9:00 : Yuji Sano (Tokyo University)

[Radiogenic and stable isotope measurements by NanoSIMS"](#)

9:30 : Tsuyoshi Iizuka (Tokyo University)

[What tungsten isotopes tell us about core-mantle evolution](#)

10:00 : Shoichi Itoh (Kyoto University)

[What limitation do you need with SIMS analyses in the current technique? Introduction to the new SIMS facility at Kyoto University.](#)

10:30 : Ishikawa Akira (Tokyo University)

[Highly siderophile element constraints on core-mantle interaction: evidence from terrestrial samples](#)

11:00 : Hirochika Sumino (Tokyo University)

[TBA](#)

11:30 : Katzhiko Suzuki (JAMSTEC)

[TBA](#)

12:00 : Discussion and concluding remarks