

第7回極限物質科学研究会
The 7th Workshop for Extreme Materials Science
“Silicate Melts and Glasses”

Date: 13:30-17:00 Feb. 4 (Mon), 2019.

2019年2月4日(月) 13:30-17:10

Place: Small Meeting Room 1(west), Welfare and Conference Bldg. (C61), Riken, Wako.

理研和光 統合支援施設 2階小会議室1(西) 建物番号 C61

http://www.riken.jp/en/access/wako-map/#campus_map

Organizers: Le The Anh (anh.le@riken.jp), Toshiaki Iitaka (tiitaka@riken.jp)

Participation: Free

Sponsor: **Post-K Computer Challenging Problems, “Challenge of Basic Science”**,

Subproject C “Structure and Properties of Materials in deep Earth and Planets”

ポスト「京」萌芽的課題「基礎科学の挑戦」

サブ課題C「地球惑星深部物質の構造と物性」

<http://www.iitaka.org/~xmat/en/>

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Scope

Silicate melt and glass are one of the most important materials for understanding the formation and dynamics of the Earth and earth-like planets and also for industrial applications. In this meeting distinguished researchers in this field will talk about their recent experimental and theoretical studies on silicate melt and glass.

Tentative Program

13:30-13:50 Le The Anh (RIKEN)

The magma ocean in the early Earth

14:00-15:00 Yoshio KONO (河野義生) (Ehime Univ.) 【INVITED】

<http://www.grc.ehime-u.ac.jp/archives/member/yoshio-kono>

https://scholar.google.com/citations?user=t_cyB6AAAAAJ&hl=en

Experimental study of structure of oxide glasses under ultrahigh pressure conditions of >100 GPa, and discovery of ultrahigh pressure polyamorphism in GeO₂ and SiO₂ glasses with coordination number >6

<https://doi.org/10.1073/pnas.1524304113>

15:00-16:00 Tomoko SATO (佐藤友子) (Hiroshima Univ.) 【INVITED】

<http://seeds.office.hiroshima-u.ac.jp/profile/ja.333f9b81991948d1520e17560c007669.html>

https://www.researchgate.net/profile/Tomoko_Sato

Intermediate state of SiO₂ glass during pressure-induced phase transformation

<https://doi.org/10.1103/PhysRevB.98.144111>

16:00-17:00 Nguyen Van Hong (HUST) 【INVITED】

<https://sites.google.com/site/nguyenvanhongdnhk/nguyenvanhong>

Structural transformation under densification and polyamorphism of silica

<https://doi.org/10.1063/1.4807134>

17:00-17:10 Miyuki ARAI (新井幸) (Ochanomizu W. Univ.)

The relation between bond distance of MgSiO₃ and pressure

Closing

Get-together with foods and drinks