

国際ワークショップ
「持続的代謝システムを理解するための低温地球化学」
我々は天然プロセスから何を学べるか? -

International workshop on
“Low-temperature geochemistry for understanding of sustainable metabolic system
-Lessons Learned from Natural Processes-”

主催:

北海道大学 21 世紀 COE プログラム「流域圏の持続可能な水・廃棄物代謝システム」
北海道大学大学院工学研究科環境循環システム専攻環境地質学研究室

後援:

資源・素材学会北海道支部

sponsored by:

-Hokkaido University Graduate School of Engineering, 21st Century COE program
“Sustainable Metabolic System on Water for Area-based Society”

- Hokkaido University Graduate School of Engineering, Lab. of Environmental Geology

supported by:

-MMIJ Hokkaido branch division

期日: 2006年7月20日(13:00~)、21日(9:00~16:00)

会場: 北海道大学百年記念会館大会議室 (札幌市北区北8条西6丁目)

参加費: 無料(ただし懇親会費は別途)

Date: July 20 13:00-, July 21 9:00-16:00

Venue: Hokkaido University, Centennial Hall (N8W6, kita-ward, Sapporo)

Fee: Free (but for the banquet)

ポスター発表募集中 (締め切り 7月7日(金))

presenters of the poster session opportunities available until July 7

懇親会参加受付中 (締め切り 7月14日(金))

Attendees of the banquet opportunities available until July 14

申し込み先: いずれも環境地質学研究室佐藤亜美あてにメールしてください !!

Application: Please contact Secretary Ami Sato!

(e-mail: ami@eng.hokudai.ac.jp)

プログラム program:

20th July (Thu)

13:00- 13:10 Opening address (Prof. Yoneda)

13:10- 13:40 David J. Vaughan, Univ. of Manchester, UK
Minerals, metals and molecules: environmental mineralogy and sustainability

13:40- 14:10 Takashi Murakami, Univ. of Tokyo, Japan
Long-term U transport in field: An example in Koongarra, Australia

14:10- 14:40 Andy Gault, Univ. of Manchester, UK
Processes controlling arsenic release to groundwaters in SE Asia

14:40- 15:20 Coffee break & Poster Presentation

15:30- 16:00 Michelle Warren, Univ. of Manchester, UK
Linking experiment and simulation to understand growth islands on barite

16:00- 16:30 Peter Morris, Univ. of Manchester, UK
Conditioning film formation: Bonding environment, crystallographic and chemical controls

17:00- 17:30 Jordi Cama, CSIC, Spain
The role of sulphide dissolution in the management of mine wastes

18:30- Banquet

21st July (Fri)

9:00- 9:30 Masami, Fukushima, Hokkaido Univ., Japan
Function of humic substances for enhancing oxidation of chlorinated organic compounds via biomimetic catalytic system

9:30- 10:00 Keiko Sasaki, Kyusyu Univ., Japan
Importance of microbial manganese deposition in aquatic environments

10:00- 10:30 Jon Lloyd, Univ. of Manchester, UK
Microbial metal reduction; from natural biogeochemical cycles to biotechnological applications.

10:30- 11:10 Coffee break & Poster Presentation

11:10- 11:40 Mihaly Posfai, Univ. of Veszprem, Hungary
Bacterial nanomagnets: physical and chemical properties, biological function and possible applications

11:40- 12:10 Toshifumi Igarashi, Hokkaido Univ., Japan
Arsenic leaching from crushed rock in Hokkaido

12:10- 13:30 Lunch & Poster Presentation

13:30- 14:00 Jarmo Lehtikoinen, VTT, Finland
Consistency in the description of diffusion in compacted bentonite

14:00- 14:30 Manjanna Jayappa, Hokkaido Univ., Japan
Application of Fe(II)-Montmorillonite for the environmental remediation of hexavalent chromium

14:30- 15:00 Tetsuro Yoneda, Hokkaido Univ., Japan
Near-infrared spectroscopy and X-ray CT observation of compacted bentonite-soil mixtures

15:00- 15:30 Tsutomu Sato, Hokkaido Univ., Japan
Management of hazardous anions in various waste disposals -natural processes teach us how to behave better in a similar situation in the future-

15:30- 15:50 Discussions

15:50- 16:00 Closing address