

UK-Japan Workshop on Organic-Inorganic Framework Materials

10–11 October 2013, Kyoto University iCeMS

(as of 4 October 2013)

10 October

9:30–10:00 Opening Remarks

Susumu Kitagawa (iCeMS, Kyoto)

Tomohiro Nakayama (JST)

Ed Thomson (UK Science & Innovation Network)

Anthony K Cheetham (Cambridge)

10:00–12:00 Session Chair: Susumu Kitagawa

Anthony K Cheetham (Cambridge)

Some Aspects of the Physical Properties of Inorganic-Organic Framework Materials

Hiroshi Kageyama (Kyoto)

Topochemical Reactions in Condensed Phases toward Functional Properties

Andrew Goodwin (Oxford)

Order, Disorder, Flexibility, Function: Functional Molecular Frameworks by Design

Katsuhiko Ariga (NIMS)

Manual Nanotechnology as a New Nanotechnology Manual

12:00–13:30 Lunch

13:30–15:30 Poster Session

15:30–16:00 Coffee Break

16:00–17:30 Session Chair: Shuhei Furukawa

Sihai Yang (Nottingham)

Metal-Organic Framework Materials for Gas Storage and Separations

Shigeyoshi Sakaki (Kyoto)

Gas Absorption and Spin Transition

of the Hofmann-Type Porous Coordination Polymer: Theoretical Study

Hiroshi Kitagawa (Kyoto)

Creation of Functional Materials on the Basis of Elemental Strategy

18:00– Reception

11 October

10:00–12:00 Session Chair: Takafumi Yamamoto

Richard Catlow (University College London)

Predictive Computational Modelling of Microporous Materials

Tina Düren (Edinburgh)

Molecular Simulation of Adsorption in MOFs:

Useful Insights but Only if Used With Care

Ben Slater (University College London)

Insights into Structure and Function of MOFs

Hiroki Oshio (Tsukuba)

Metal Complexes with Multi-Bistability

12:00–13:30 Lunch

13:30–15:00 Session Chair: Franklin Kim

Satoshi Horike (Kyoto)

Design of Proton Conductive Pathways in Coordination Polymers

Richard Walton (Warwick)

OF Crystallisation: In Situ Diffraction and Multi-Component Materials

Yasuhide Inokuma (Tokyo)

Crystallographic Analysis of Trace Compounds Using Porous Complexes

15:00–15:30 Coffee Break

15:30–17:30 Session Chair: Satoshi Horike

Russell Morris (St Andrews)

Out of Weakness Comes Strength—Using the Instability of MOFs to Our Advantage

Shuhei Furukawa (iCeMS, Kyoto)

Controlled Molecular Release from Porous Coordination Polymers

Kenichiro Itami (Nagoya)

Controlled Bottom-Up Synthesis of Molecular Nanocarbons

Matthew Rosseinsky (Liverpool)

Selective Sorption and Structural Transformations

in New Metal-Organic Frameworks

17:30–17:40 Closing Remarks

Anthony K Cheetham

Hiroshi Kageyama