

62nd Fujihara Seminar

“Frontier and Perspectives in Molecule-Based Quantum Magnets”

7th ~10th May, 2012

Koyo Grand Hotel

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Address: Honcho 2-3-1, Aoba-Ku, Sendai 980-0014, Miyagi, Japan

Home Page: <http://www.koyogh.jp/index.php>

Program

7th May

17:00~ Registration

19:00~21:00 Welcome Party

8th May

9:00~9:15

“Opening Ceremony”

Noboru Hasegawa (The Fujihara Foundation of Science, Japan)

9:15~9:30

“Introduction and History of Single-Molecule Magnets and Single-Chain Magnets”

Masahiro Yamashita (Tohoku University, Japan)

Chairman: Masaaki Ohba (Kyushu University, Japan)

9:30~10:00

“Supramolecular Aggregates of Single-Molecule Magnets”

George Christou (University of Florida, USA)

10:00~10:30

“Heterospin Single-Molecule Magnets”

Noboru Koga (Kyushu University, Japan)

10:30~10:50 Coffee Break

Chairman: Hiroyuki Nishikawa (Ibaraki University, Japan)

10:50~11:20

“Exploring Unquenched Orbital Angular Momentum of Transition Metal Ions”

Kim Dunbar (Texas A&M University, USA)

11:20~11:50

“From High Spin Molecules and Single-Chain Magnets Based on Cyanide to Salicylamidoxime-Based Hexanuclear Manganese(III) Single-Molecule Magnets”

Michel Verdaguer (Universite Pierre et Marie Curie, France)

11:50~12:20

“Hetero-Spin 4f-3d and 4f-2p Magnets”

Takayuki Ishida (The University of Electro-Communications, Japan)

12:20~13:10 Lunch

Chairman: Takayoshi Nakamura (Hokkaido University, Japan)

13:10~13:40

“Heterotrimetallics and Nano-Magnets”

Marius Andruh (University of Bucharest, Romania)

13:40~14:10

“Applications of Coordination Chemistry in the Synthesis of Single-Molecule Magnets”

Jeffrey Long (University of California, Berkeley, USA)

14:10~14:40

“Incorporating Anisotropy into Nanomagnets”

Annie Powell (Karlsruhe Institute of Technology, Germany)

14:40~15:10

“In Search for 3d/4f-Metal Single-Molecule Magnets”

Spyros Perlepes (University of Patras, Greece)

15:10~15:30 Coffee Break

Chairman: Shinya Hayami (Kumamoto University, Japan)

15:30~16:00

“New Avenues in Lanthanide SMMs; from Coordination to Organometallic Chemistry”

Muralee Murugesu (University of Ottawa, Canada)

16:00~16:30

“Structural Designing of the Magnetic Anisotropy of Lanthanide-Based SMMs”

Takashi Kajiwara (Nara Women’s University, Japan)

16:30~17:00

“f-Element Centers for Single Molecule Magnet Behavior: from Lanthanides to Uranium”

Manuel Almeida (Instituto Tecnológico e Nuclear, Portugal)

17:00~17:20 Coffee Break

Chairman: Motohiro Nakano (Osaka University)

17:20~17:50

“Quantum Relaxation of a Diamagnetic Crystal Lattice Doped with Single-Molecule Magnets”

Andrea Cornia (University of Modena and Reggio Emilia, Italy)

17:50~18:20

“Spin Crossover Transition with Multifunctional Materials”

Hiroyuki Nojiri (Tohoku University, Japan)

18:20~18:50

“Exploring the No Man’s Land between Molecular Nanomagnets and Magnetic Nanoparticles”

Dante Gatteschi (University of Florence, Italy)

19:00~ Supper

9th May

Chairman: Toru Sakai (Japan Atomic Energy Agency, Japan)

9:00~9:30

“Molecule-Based Magnets: the View from EPR”

Stephen Hill (National High Magnetic Field Laboratory, USA)

9:30~10:00

“Control of the Total Spin –Nagaoka Ferromagnetism and Spin Crossover–”

Seiji Miyashita (University of Tokyo, Japan)

10:00~10:30

“Single-Ion Magnets”

Song Gao (Peking University, China)

10:30~10:50 Coffee Break

Chairman: Jun-ichiro Kishine (Open University of Japan, Japan)

10:50~11:20

“Multifunctional Single-Molecule Magnets and Single Chain Magnets”

Jing-Lin Zuo (Nanjing University, China)

11:20~11:50

“Magnetic Properties of Redox Controlled SMMs and Antiferromagnetic Rings”

Hiroki Oshio (University of Tsukuba, Japan)

11:50~12:20

“Dynamic Magnetic Coordination Polymers”

Xiao-Ming Chen (Sun Yat-Sen University, China)

12:20~13:30 Lunch

Chairman: Takayoshi Kuroda (Kinki University, Japan)

13:30~14:00

“Rational Design of Magnetic Materials Based on “Single-Molecule Magnet” Building-Blocks”

Rodolphe Clerac (CNRS, University of Bordeaux, France)

14:00~14:30

“Single-Chain Magnets Based on Mn^{III} Salen-Type Complexes: Unpublished Materials and Their Interests (Problems ?)”

Hitoshi Miyasaka (Kanazawa University, Japan)

14:30~15:00

“Photo-Tunable Single-Chain Magnets”

Osamu Sato (Kyushu University, Japan)

15:00~15:30 Coffee Break

Chairman: Masayuki Nihei (University of Tsukuba, Japan)

15:30~16:00

“Development of Molecular Cluster Batteries: Super-Reduced Species of Transition Metal Cluster Complexes in Solid State Electrochemistry”

Kunio Awaga (Nagoya University, Japan)

16:00~16:30

“Rational Design of Lanthanide Qubits and SIMs”

Alejandro Gaita-Arino (University of Valencia, Spain)

16:30~17:00 Coffee Break

Chairman: Tomohiko Ishii (Kagawa University, Japan)

17:00~17:30

“Supramolecular Spintronic Devices”

Mario Ruben (Karlsruhe Institute of Technology, Germany)

17:30~18:00

“Single-Molecule Magnets Based on Double-Decker Phthalocyanine Lanthanide Complexes: New Organization and Properties”

Jaume Veciana (Institut de Ciencia de Materials de Barcelona
(CSIC)-CIBER-BBN, Spain)

18:00~18:30

“Quantum Molecular Spintronics Based on Single-Molecule Magnets”

Masahiro Yamashita (Tohoku University, Japan)

18:40~18:50 Group Photo

19:00~ Supper

10th May

9:00~ Excursion to Hiraizumi (World Heritage) and River Cruising
or Informal Discussion at Hotel

19:00~ Banquet (at Shozankan)

11th May

Departure

Accompany Person's Program

8th May

Free time in the morning

13:00~18:00 Sendai City Tour (Free)

9th May

Free time in the morning

13:00~18:00 Matsushima Island Cruising (Free)