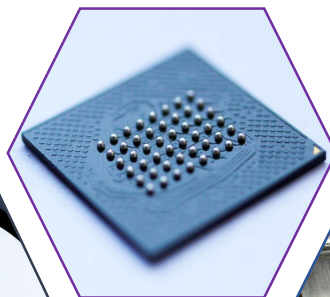


Magnetic Materials Innovation

-Materials that enabled EV, HDD and MRAM -

Day1

Academic
Symposium



2018 NIMS Award Ceremony and Award Lecture

Dr. Masato Sagawa (Adviser, Daido Steel)

Developments of R-Fe-X Permanent Magnets (X=B,C,N)

Prof. Terunobu Miyazaki (Professor Emeritus, Tohoku Univ.)

Development of Spintronics -my contribution-

Symposium Lectures

Frontiers of Permanent Magnets

Oliver Gutfleisch, TU Darmstadt

Kazuhiro Hono, NIMS

Frontiers of Data Storage

Jimmy Zhu, Carnegie Mellon University

Jan-Ulrich Thiele, Seagate Technology

Yuya Sakuraba, NIMS

Frontiers of MRAM

Shinji Yuasa, AIST

Daniel Worledge, IBM Almaden Research Center

Seiji Mitani, NIMS

Poster Session "Magnetic and Spintronic Materials"

Oct. 15 (Mon.) 10:00 - 18:00

Tokyo International Forum Hall B5

http://www.nims.go.jp/nimsweek/day1/e_index.html



Invention and practical application of neodymium magnets

Dr. Masato Sagawa *Adviser, Daido Steel Co., Ltd.*



Finding of room temperature giant tunnel magnetoresistance and contribution to spintronics

Prof. Terunobu Miyazaki *Professor Emeritus, Tohoku Univ.*

Oct. 15 (Mon.), Tokyo International Forum Hall B5 English & Japanese Simultaneous Interpretation Available

9:30 - 10:00	Registration
10:00 - 10:05	Opening Address by President Hashimoto
10:05 - 10:10	Opening Address by MEXT
10:10 - 10:25	Lecture by President Hashimoto "Strategy for promotion of basic and applied research at NIMS"
10:25 - 10:40	NIMS Award Ceremony
10:40 - 11:25	NIMS Award Lecture "Developments of R-Fe-X Permanent Magnets (X=B,C,N)" Dr. Masato Sagawa (Adviser, Daido Steel)
11:25 - 12:10	NIMS Award Lecture "Development of Spintronics -my contribution-" Prof. Terunobu Miyazaki (Professor Emeritus, Tohoku University)
12:10 - 13:30	Poster Session / Lunch time
13:30 - 14:00	"Recent advances in permanent magnet research" Dr. Kazuhiro Hono , Director of Research Center for Magnetic and Spintronic Materials, NIMS
14:00 - 14:30	"Towards deciphering the DNA of hysteresis in magnetic materials" Prof. Oliver Gutfleisch , Technical University of Darmstadt
14:30 - 15:00	"Microwave assisted magnetic recording for next generation of hard disk drives" Prof. Jimmy Zhu , Director, Data Storage Systems Center, Carnegie Mellon University
15:00 - 15:30	"Heat Assisted Magnetic Recording (HAMR) - next generation hard disk drive technology" Dr. Jan-Ulrich Thiele , Seagate Technology
15:30 - 15:45	"Development of advanced materials for high density magnetic recording" Dr. Yuya Sakuraba , Magnetic Materials Group, Group Leader, NIMS
15:45 - 16:30	Poster Session / Coffee Break
16:30 - 17:00	"Giant tunnel magnetoresistance effect in MgO-based magnetic tunnel junctions and its device applications" Dr. Shinji Yuasa , Director Spintronics Research Center, AIST
17:00 - 17:30	"Development of spin transfer torque MRAM" Dr. Daniel Worledge , Distinguished Research Staff Member, IBM Almaden Research Center
17:30 - 17:45	"Materials development for next-generation MRAM" Dr. Seiji Mitani , Spintronic Materials Group, Group Leader, NIMS
17:45 - 18:00	Poster Award Ceremony and Closing