

CSIS Symposium Day II

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Research and Development of Ultra-low Power Spintronics-based VLSIs
core researcher : Hideo Ohno

CSIS Research Review
March 14, 2014 Tokyo, Japan
Tokyo International Forum, Hall D7

<http://www.t-i-forum.co.jp/en/>

◆ **Opening Remarks**

Susumu Satomi (President of Tohoku University)

Kazuo Kyuma (Executive Members,

Council for Science and Technology Policy, Cabinet Office,
Government of Japan)

◆ **Overview**

Hideo Ohno (Tohoku University)

◆ **Research Report**

Yasuo Ando (Tohoku University)

Shoji Ikeda (Tohoku University)

Tetsuo Endoh (Tohoku University)

Warren Gross (McGill University, Canada)

Tadahiko Sugabayashi (NEC Corporation)

Takahiro Hanyu (Tohoku University)

◆ **Closing Remarks**

Hideo Ohno (Tohoku University)

[Click Here For Registration Form](#)



Registration Dates

JAN. 15. - FEB. 28,
⇒ March 6 2014.

◆ **Registration**

The conference is **free of charge**,
but registration is required.

Download [the application form](#)
and e-mail to CSIS support Office
(e-mail:csisconf@riec.tohoku.ac.jp)
by **Feb. 28, ⇒ March 6 2014.**

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Center for Spintronics Integrated Systems, Tohoku University



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CSIS Research Review

Friday 14th March, 2014

Tokyo International Forum Hall D7

Access :

<http://www.t-i-forum.co.jp/en/access/>

(Hall D7) <http://www.t-i-forum.co.jp/en/facilities/>

Program

9:20	Opening Remarks (1)	Susumu Satomi (President of Tohoku University)
9:30	Opening Remarks (2)	Kazuo Kyuma (Executive Members, Council for Science and Technology Policy, Cabinet Office, Government of Japan)
9:40	Overview	Hideo Ohno (Core Researcher, Tohoku University)
10:30	Spintronics materials and devices development I <i>Progress of perpendicular anisotropy CoFeB-MgO based magnetic tunnel junctions</i>	Shoji Ikeda (Tohoku University.)
11:05	Spintronics materials and devices development II <i>L1₀-ordered alloys, innovative materials and device technology for magnetic tunnel junctions</i>	Yasuo Ando (Tohoku University.)
11:40	Lunch Break	
14:00	Spintronics logic design and IP development I <i>Spintronics logic design and IP development Based on Nonvolatile Logic-in-Memory Architecture</i>	Takahiro Hanyu (Tohoku University)
14:35	Spintronics logic design and IP development II <i>VLSI Implementation of Associative Memories</i>	Warren Gross (Invited) (McGill University, Canada)
15:10	Spintronics logic design and IP development III <i>Fully Nonvolatile Microcontroller Utilizing Three Terminal MTJ for Standby-Power-Critical Applications</i>	Tadahiko Sugabayashi (NEC Corporation)
15:45	Spintronics logic design and IP development IV <i>MTJ-based Logic & Working Memory and Its Design Automation Tools</i>	Tetsuo Endoh (Tohoku University)
16:20	Closing Remarks	Hideo Ohno (Core Researcher, Tohoku University)

【 Contact information 】

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