

The Latest Sensor Technology and Expectation for Biomagnetic Field Measurement

May 22, 2017 / Sendai International Center 2F “Tachibana(橘)”

Hosting Organization : Biomagnetic Sendai 2017

In Cooperation with : Japan Science and Technology Agency,

The Japan Society of Applied Physics Tohoku Chapter,

The Magnetics Society of Japan

Tutorial Lecture

Chair : Yasuo Ando (Tohoku univ.)

13:00–13:30 “Tutorial of Biomagnetic Measurement” Akitake Kanno (Tohoku univ.)

The Latest Technology for Room Temperature Biomagnetic Measurement

Chair : Gen Uehara (Kanazawa Inst. of Tech.)

13:30 “Opening Remark : Purpose of Symposium” Yasuo Ando (Tohoku univ.)

13:35 “Development of Magnetocardiograph based on Anisotropic
Magnetoresistance Sensor” Akihiko Kandori (Hitach)

13:50 “Magneto-Impedance Sensor” Tsuyoshi Uchiyama (Nagoya univ.)

14:05 “High-Frequency Carrier-Type Thin Film Sensor”
Shin Yabukami (Tohoku Gakuin univ.)

14:20 “Optically Pumped Atomic Magnetometer” Tetsuo Kobayashi (Kyoto univ.)

14:35 “Actual Measurement of Magnetocardiogram – from SQUID to MI –”
Koichiro Kobayashi (Iwate univ.)

14:50 “Development of Zero Emission SQUID System”
Yoshiaki Adachi (Kanazawa Inst. of Tech.)

15:05 “Tunnel Magnetoresistance Sensor” Mikihiro Oogane (Tohoku univ.)

15:20 “Closing Remark : Possibility of Spintronics Magnetic Sensor”
Hitoshi Kubota (AIST)

Break

Panel Discussion

Moderator : Nobukazu Nakasato, Yasuo Ando

15:45–16:45 Panels ; All Speakers

Poster Session

16:45–17:45 (Exhibition until 20:00)