

# “Spin Energy Materials” Program

(At TFC conference room)

## 3rd December (Thursday)

---

13:00 **Opening remark**

13:10 **Roberto Myers** (Ohio State University)

"Lateral spin diffusion in Yttrium Iron Garnet"

14:00 **Oliver Klein** (SPINTEC)

"Influence of the inhomogeneous broadening on spin transfer effects"

14:50 **Break** (30 min)

15:20 **Sadamichi Maekawa** (Japan Atomic Energy Agency)

"Spin and Heat"

16:00 **Koji Usami** (University of Tokyo)

"Bidirectional conversion between microwave and light via ferromagnetic magnons"

16:40 **Gen Tatara** (RIKEN)

"Thermal vector potential theory of magnetization dynamics driven by a temperature gradient"

17:20 **Takashi Kimura** (Kyushu University)

"Geometry and material optimization for efficient thermal spin injection"

18:00 **Transfer to Conference Dinner**

19:00 **Conference Dinner**

## 4th December (Friday)

---

8:30 **Felix Casanova** (NanoGUNE)

"Spin-dependent transport in metallic/ferromagnetic insulator hybrid devices"

9:20 **Ke Xia** (Beijing Normal University)

"First principles calculations of Spin Seebeck Torques"

10:10 **Break** (30 min)

10:40 **Joseph Barker** (Tohoku University)

"The role of spin wave polarisation in the spin Seebeck effect"

11:20 **Akihiro Kirihara** (NEC)

"Thermoelectric converter based on the spin Seebeck effect"

12:00 **Lunch break**

13:30 **Rafael Ramos** (Tohoku University)

"Unexpected enhancement of the longitudinal spin-Seebeck effect in magnetic multilayers"

14:10 **Dazhi Hou** (Tohoku University)

"Observation of temperature gradient induced magnetization"

14:50 **Break** (20 min)

15:10 **Hiroshi Kohno** (Nagoya University)

"Microscopic Theory of Thermally-Induced Spin Torques"

15:50 **Takehito Yokoyama** (Tokyo Institute of Technology)

"Chiral transport and current-induced magnetization in chiral systems"

16:30 **Akira Oiwa** (Osaka University)

"Conversion from single photons to single electron spins using quantum dots"

