International Workshop of Giant Straining Process
for Advanced Materials in 2014 (GSAM2014)

GSAM2014

Simultaneous Strengthening due to Grain Refinement and Fine Precipitation: Nanoscopic Analyses for Understanding Strengthening Mechanisms

(Workshop Site: I^{2}CNER Hall, Ito Campus, Kyushu University, Japan)

Sponsored by
Japan Science and Technology Agency under Collaborative Research Based on Industrial Demand "Heterogeneous Structure Control: Towards Innovative Development of Metallic Structural Materials"

Workshop Program

September 9 (Tuesday)

12:45-13:00 **Zenji Horita (Kyushu University, Japan)**
Opening Announcement

13:00-13:40 **Shoichi Hirosawa (JST Project Leader, Yokohama National University, Japan)**
Three strategies to achieve concurrent strengthening by ultrafine-grained and precipitation hardenings for severely deformed age-hardenable aluminum alloys

13:40-14:50 **Xavier Sauvage (University of Rouen, France)**
(Keynote) Understanding solute/defects interactions during SPD to combine grain size refinement and fine precipitation in SPD materials

14:50-15:10 <Coffee Break>

15:10-16:00 **Hyoung Seop Kim (POSTECH, Korea)**
(Keynote) Finite element and experimental analyses of dynamic strain aging of a supersaturated age hardenable aluminum alloy

16:00-16:40 **Daisuke Terada (Chiba Insititute of Technology, Japan)**
Mechanical properties and microstructure of 6061 alloy after processing by ARB and subsequent aging at low temperatures

16:40-17:10 **Kaveh Edalati (Kyushu University, Japan)**
Softening by severe plastic deformation and hardening by annealing of Al-30mol%Zn alloy

17:10-17:40 **Tang Yongpeng (Yokohama National University, Japan)**
Application of spinodal decomposition to achieve concurrent strengthening by ultrafine-grained and precipitation hardenings on severely deformed age-hardenable aluminum alloys

18:30- <Banquet at Ume-No-Hana (http://www.umenohana.co.jp/n_ume_no_hana/2012/05/-1-165.html)>

September 10 (Wednesday)

9:00-9:30 **Zenji Horita (Kyushu University, Japan)**
Supersaturation and precipitation in Al-Fe alloys after processing by high-pressure torsion

9:30-10:00 **Wataru Goto (Yokohama National University, Japan）**
Concurrent strengthening of ultrafine-grained age-hardenable Al-Mg alloys by means of spinodal decomposition

10:00-10:30 **Seungwon Lee (Kyushu University, Japan)**
Strengthening of 7075 alloy by severe plastic deformation and aging

10:30-11:00 **Intan Fadhlina Mohamed (Kyushu University, Japan）**
Microstructural Control of age-hardenable Al alloys by high-pressure torsion

11:00-11:15 <Coffee Break>

11:15-12:00 **General Discussion**

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