**The 1st ISIJ International Symposium on**

**Advanced Material Modeling and Processing of Steel Sheets**

The establishment of trial-and-error-free manufacturing enhanced by forming simulations has been strongly desired in industry. In order to realize this, it is essential to establish material models that are capable of reproducing elasto-plastic deformation behavior of materials with high accuracy, and at the same time, to develop more advanced material testing methods, in particular, for multiaxial stress states. Moreover, it is of great importance to increase knowledge on the mechanics of forming defects, such as fracture, springback, and wrinkling. In this international seminar, we invite researchers who are world-renowned in these research fields to present the latest research results on steel materials, as well as prospects for future research issues.

Date: September 10, 2019

Venue: Okayama Convention Center, 14-1, Ekimotomachi, Kitaku, Okayama 700-0024, Japan

<http://www.mamakari.net/en/>

<Program>

**12:50-13:00**

**Opening remarks**

*Toshihiko Kuwabara, Tokyo University of Agriculture and Technology*

**13:00-13:40**

**Tension/compression hardening behavior of AHSS at intermediate strain rates**

*Hoon Huh, Korea Advanced Institute of Science and Technology*

**13:40-14:20**

**State-of-art in forming limit curves determination**

*Dorel Banabic, Technical University of Cluj Napoca*

**14:20-15:00**

**Advanced constitutive modeling and application in steel sheet forming**

*Frederic Barlat, Pohang University of Science and Technology*

15:00-15:20 Coffee Break

**15:20-16:00**

**The engineering of steel microstructures for enhanced performance**

*Peter Hodgson, Deakin University*

**16:00-16:30**

**Characterization and prediction of rupture in bending of DP980 sheets**

*Sandrine Thuillier, Université Bretagne Sud*

**16:30-17:00**

**Virtual identification of mechanical properties of low carbon steel using coupled crystal plasticity and phase field model**

*Myoung-Gyu Lee, Seoul National University*

17:00-17:20 Coffee Break

**17:20-17:50**

**Mixed experimental-numerical techniques for identifying large strain work hardening of steels**

*Sam Coppieters, KU Leuven*

**17:50-18:20**

**Plasticity of commercially-pure titanium: experiments and modeling**

*Yannis P. Korkolis, The Ohio State University*

**19:00-21:00**

Banquet　@Tower(Tenshukaku) of Okayama Castle