



MAX-PLANCK-INSTITUT FÜR EISENFORSCHUNG

MPIE Workshop on Dual-Phase Steel

24.11.2011

Program

- 09:30-09:50 **Welcome**
Coffee and Cookies
- 09:50-10:00 **Opening**
Prof. Dr. Dierk Raabe (MPIE)
- 10:00-10:20 ***DP development driven by the relation between microstructure and mechanical properties***
Dr. Andreas Pichler (Voestalpine)
- 10:20-10:40 ***Modelling microstructure evolution in DP steel***
Prof. Dr. Jilt Sietsma (TU Delft)
- 10:40-11:00 **Fine control of the microstructures in Dual-Phase grades**
Dr. Frederic Bonnet & Dr. Jossee Drillet (ArcelorMittal)
- 11:00-11:20 **Discussion & Coffee Break**
- 11:20-11:40 ***Micro-mechanical characterization of ductile damage in DP steel***
Dr. Johan Hoefnagels (TU Eindhoven)
- 11:40-12:00 ***Deformation induced evolution of dislocation structures in DP steel***
Dr. Cem Tasan (MPIE)
- 12:00-13:00 **Lunch**
- 13:00-13:20 ***DP-Steel development—coping with the conflict between metal physics & industrial production***
Dr. Dorothea Mattissen & Dr. Frank Friedel (ThyssenKrupp)
- 13:20-13:40 ***Evaluation of GND density near phase boundaries in DP steels by means of EBSD***
Jaap Moerman (Tata)
- 13:40-14:00 **Discussion & Coffee Break**
- 14:00-14:20 ***From annealing to properties: Integrative modeling of cold rolled DP steel***
Dr. Ulrich Prahl (RWTH Aachen)
- 14:20-14:40 ***The role of bainitic transformation in processing DP steels***
Dr. Ingwer Denks (Salzgitter)
- 14:40-16:30 *DP Lab Session 1* *DP Lab Session 2* *DP Lab Session 3* *DP Lab Session 4*
Carbon partitioning measurements using Atom Probe Tomography ***Carbon distribution measurements using EDS analysis*** ***Imaging of dislocations using SEM-based cECCI technique*** ***In-situ testing of miniaturized samples in SEM***
- 16:30-18:00 **Beer & Pretzels**

Address: Max-Planck-Institut für Eisenforschung Max-Planck-Straße 1, 40237 Düsseldorf
(for arrival instructions please refer to www.mpie.de)

Registration: Please send an email to dpworkshop@mpie.de **before 24 October 2011**