

## Symposium Summary Symposium in Memory of Patrick Veyssière: Understanding the Mechanisms Controlling Plastic Flow

Organizers: Georges Saada (LEM CNRS ONERA); Dennis M Dimiduk, (Air Force Research Laboratory); Hael Mughrabi (University Erlangen-Nuernberg); Haruyuki Inui (Kyoto University)

The Symposium was very successful. The audience was always dense and the communications resulted in interesting debates and scientific exchanges. There was also an important contribution from students. Due to the volume of papers proposed, the program was organized into six half day sessions : Dislocations Organization, Plastic Flow, Screw Dislocations, Intermetallic Alloys, Nanograined Materials, and Deformation Mechanisms

The Symposium provided opportunities to nucleate interactions between scientists working on the same subject, using different techniques, such as the problem of the plasticity of pillars. It also served to highlight new, fruitful experimental techniques, such as the investigation of transmission electron microscopy deformation maps.

This Symposium was also the occasion to promote the publication of results that had been initiated by Patrick Veyssière. Among various examples, we quoted the works on the motion of dislocations in Al-rich TiAl single crystals, the analysis of low cycle fatigue of copper single crystals, the atomistic simulations of the breaking and reaction of dipolar dislocations, a dislocation dynamics study of the temperature dependence of the flow stress of Ni<sub>3</sub>Al that enabled understanding of the mechanical behavior of these alloys under non-monotonous straining.

We, the colleagues of Patrick Veyssière, appreciated this opportunity to pay tribute to his personal involvement in research and his influence on our society.

--Submitted by Georges Saada

