

MICROSCOPY TODAY PO Box 620122 Middleton, WI 53562



## Dynamic points of interest

2.5 Torr

Spot Magn

In-situ recrystallisation experiment performed in the ESEM-FEG using the optional heating stage. A titanium stabilised interstitial free steel galvanised with 0.15 wt% Al-Zn coating was heated to 500° C. Recrystallisation of the coating occurred, destroying the previously visible grain boundary structure. If the study of in-situ dynamic processes interests you most, you'll find our range of Esem® microscopes most interesting.

A Philips-ElectroScan Esem® employs gaseous secondary electron detection to completely eliminate the need for sample preparation, the need for conductive coatings in particular. This opens a whole new realm of investigative possibilities in dynamic processes, tension, compression, deformation, adhesion, hydration, dehydration and sublimation being but a few examples.

Adding an optional heating stage allows samples to be heated, crystallized or melted, or the process reversed, while in the microscope chamber. This permits continuous observation and recording of in-situ experiments with an unprecedented resolution.

Other points of interest include automatic stabilization of chamber pressure and sample observation in ambient light conditions. In fact, a Philips-ElectroScan Esem® is essentially a microscopic experimental chamber – a lab within a lab – that extends experimentation and research to previously out of reach areas.

Interested? Contact us.



Philips Electron Optics, Inc. 85, McKee Drive Mahwah, NJ 07430 Tel. 201 529 6165 Fax 201 529 2252 Email: marcom@eo.ie.philips.nl Internet: http://www.peo.philips.com



Acc V Spot Magn 20.0 kV 3.0 1000x WD

Det

GSE

Spot Magn

20.0 KV 3.0 1000x

Exp 11 WET 2.5 Tor



