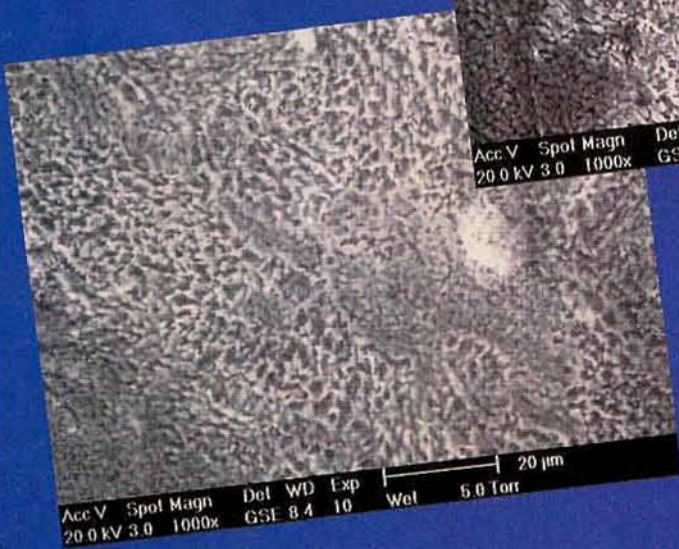
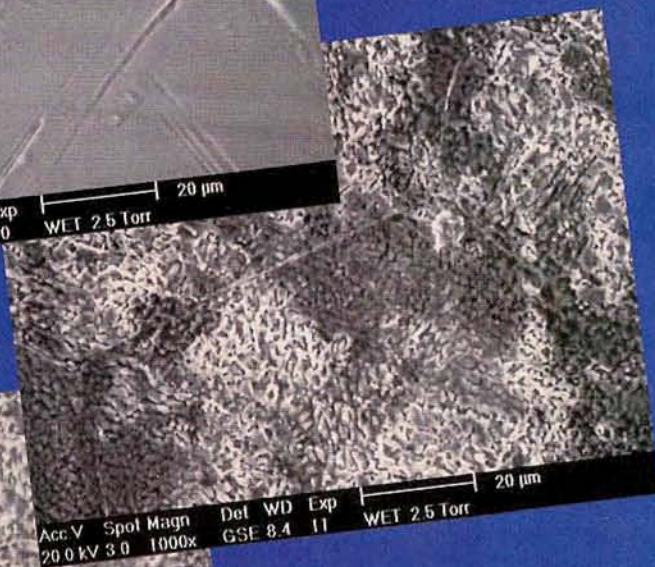
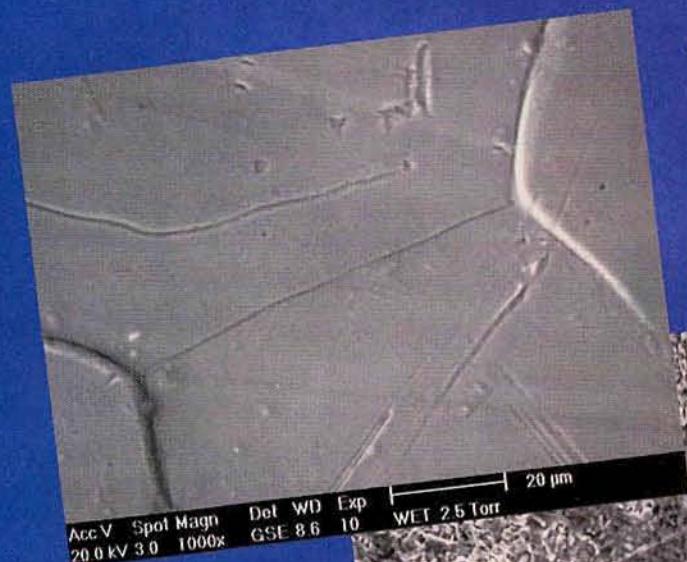


# Dynamic points of interest



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>

*Let's make things better.*

Circle Reader Inquiry #3



**PHILIPS**

# Twice As Precise

JSM-5800 Scanning Microscope Features  
Two Options for Optimum Control.



**JSM-5800**  
Dual  
versatility –  
Scanning  
Microscopy  
via mouse or  
knobset.

- Large Specimen Stage
- High/low vacuum capability
- Super Conical Objective Lens for high resolution

Suitable for a wide range of applications, the JSM-5800 from JEOL represents a new era in scanning microscopy. Now you have the option to choose either mouse or knobset control, while taking advantage of the super conical objective lens designed for the highest resolution (3.5nm) and large sample tilting.

- ▶ Easy-to-use unit has a wide range of built-in automatic functions.
- ▶ Large specimen stage allows room for up to an 8-inch sample.
- ▶ Archiving enables temporary or permanent storage and retrieval in standard TIF format.
- ▶ Five axis stage automation makes the JSM-5800 fast and easy-to-use.

Discover the twice as precise alternative that is as unique as your work itself.

To arrange for a demonstration of the innovative JSM-5800 call JEOL today.



JEOL USA, Inc., 11 Dearborn Road, Peabody, MA 01960 Tel: 508-535-5900 Fax: 508-536-2205 e-mail: eod@jeol.com

Circle Reader Inquiry #4