

Foreword

This issue of *Microscopy, Microanalysis, Microstructures* contains part 3 of the proceedings of the Second International Workshop on Electron Energy Loss Spectroscopy and Imaging (EELSI) held in Leukerbad, Switzerland from July 24 to 28, 1994. Part 3 covers new EELSI applications. Part 1 and 2 of the proceedings, which cover new EELSI techniques and instruments, respectively, are being published separately in the journal *Ultramicroscopy*.

The Leukerbad workshop followed the format established by the Lake Tahoe EELS workshop held in California in 1990. It was held the week after the Paris International Congress on Electron Microscopy (ICEM). Its timetable was similar to a Gordon conference, with mornings and early evenings devoted to talks and formal discussion, and afternoons and evenings free for informal discussion and recreation. Just like Lake Tahoe, Leukerbad proved to be an ideal location for recovery from a busy week in a major metropolis. There was no lake but plenty of water, since Leukerbad is the premier Alpine hot springs resort. Many EELSI specialists can testify that there is nothing quite as relaxing as a hike in the Alps followed by a bubbly soak in natural hot springs water.

There were 78 papers presented at the workshop, a major increase from Tahoe's 33. The oral program opened with a recollection of early EELSI days in Professor Castaing's laboratory amusingly presented by Christian Colliex, and finished with an account by Gilles Hug of how far the EXELFS technique has recently progressed. 32 contributions were presented as posters, and there was much lively discussion centered around the poster displays. The workshop closed with an enlightening discussion session and a memorable workshop dinner at the top of the Thorenton cable way. The dinner featured a traditional Swiss music band, Colin Humphreys as an entertaining master of ceremonies, and the award of prizes including ones for the best contributed paper (David Muller), best contributed student paper (Odile Stephan) and the best posters in materials and biological sciences (Christina Scheu et al. and Marco Diociaiuti et al.).

About one half of the presented papers were followed by a contribution to the proceedings, and roughly one third of these papers are reproduced in this volume. They testify to the rapid development of EELSI since the Tahoe workshop and to the exciting future for the technique.

The workshop was organized by Ondrej Krivanek and Pierre Stadelmann, and was jointly sponsored by Gatan, Zeiss and the Centre Interdépartemental de Microscopie Electronique de l'Ecole Polytechnique Fédérale de Lausanne (CIME-EPFL). The scientific program was guided by a committee comprising Christian Colliex, Joachim Mayer, John

IV

Spence, Pierre Stadelmann and Ondrej Krivanek. The local arrangements were expertly handled by Pierre Stadelmann and Mesdames R. Rouquier and B. Meichtry. Professional organizational assistance was given by the Leukerbad tourist office and by the staff of the Leukerbad Municipal School in whose Theatersaal the scientific program was held.

An event as memorable as the Leukerbad EELSI workshop deserves a follow-up. We look forward to an exciting EELSI 98 workshop held the week after the 1998 Cancun ICEM.

Ondrej Krivanek
Pierre Stadelmann