Growth, Evolution and Properties of Surfaces, Thin Films and Self-Organized Structures
Growth, Evolution and Properties of Surfaces, Thin Films and Self-Organized Structures

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PREFACE

Symposium P, "Growth, Evolution, and Properties of Surfaces, Thin Films and Self-Organized Structures," was held on November 27-December 1 at the 2000 MRS Fall Meeting in Boston, Massachusetts. 243 papers were presented in twelve sessions including three poster sessions. The sessions were well attended and the discussions were lively.

The presentations during this five-day symposium emphasize the broad scientific and technological interest in surfaces, thin films, and self-organized structures. A significant portion of the symposium addressed materials and devices at the nano-scale, including work on self-organized structures as well as nano-patterned thin-film structures. Materials research in three-dimensional (layer growth), two-dimensional (surfaces, interfaces), one-dimensional (quantum wires, point contacts), and zero-dimensional (quantum dots) objects were addressed. Attendees heard discussions of nucleation, island and pattern formation, interfacial properties, formation of quantum dots and quantum wires, defect kinetics, atomic migration, effects of stress and strain, electromigration, pulsed laser deposition, vapor phase epitaxy, CVD, MOCVD, PECVD, LPCVD, molecular beam epitaxy, alloy formation, Monte Carlo simulation, molecular dynamics studies, atomistic simulation, atomically-flat surfaces, surface and interfacial roughening, and faceting. Materials discussed included metals, semiconductors, oxides and other insulators, organics, and bio-materials.


Symposium support was provided by ELMITEC Elektronenmikroskopie GmbH; Epion Corporation; k-Space Associates, Inc.; Oak Ridge National Laboratory; Omicron Associates; RHK Technology, Inc.; SPECS GmbH; Surface Preparation Labs; SVT Associates, Inc.; Thermionics Vacuum Products; and Varian Associates, Inc. The symposium organizers, symposium editors, and the Materials Research Society gratefully acknowledge their support.

The symposium organizers, for personal reasons, chose not to participate in preparation of the proceedings volume. Symposium editors, Steven C. Moss, David B. Poker, and Daryush Ilia were recruited to perform the editorial function. The symposium editors and the MRS gratefully acknowledge the hard work of the symposium organizers in developing and running an excellent symposium.

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David B. Poker
Daryush Ilia

Symposium Organizers:

John F. Wendelken
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