

## P R E F A C E

This volume contains the Proceedings of the Conference on Physics of Irradiation Effects in Metals held in Siofok (Hungary) on May 20-24, 1991. The conference was attended by 90 participants, among them 33 from the Soviet Union and 44 from western countries.

The main ideas of this conference were

(i) to emphasize the importance of fundamental research in radiation materials science and

(ii) to assist establishing direct contacts between "eastern" and "western" scientists in this field.

The conference was dedicated to the discussion of basic physical processes in irradiated metals. A broad spectrum of fundamental studies was presented to the conference. The main fields of interest were

- interaction of radiation defects,
- high-energy heavy-ion irradiation effects,
- phase stability under irradiation,
- helium effects,
- mechanical property changes,
- surface effects.

During this conference 17 invited papers and 15 others were presented orally in plenary sessions and 53 were presented in poster sessions. The reader will find all the 32 plenary talks and 48 contributed papers in these Proceedings. Five discussion sessions (two of them plenary) were organized. A short summary of each but one is also given.

The papers were reviewed before including them in the Proceedings, which might have caused some delay in publication. However, the quality of the papers, in general, has improved as a result. I would like to thank all the participants at the conference for their cooperation in the preparation of this volume.

I would like to take the opportunity to thank Dr. I. Kovács and Dr. T. Kovács and the whole conference secretariat for their excellent organizing work.

We are very grateful to the organizations and institutes, listed separately, for offering sponsorship to the conference.

It is hoped that these Proceedings will be of value to all the participants at the conference and may also be useful to a broader scientific community interested in radiation materials research.

Budapest, January 1992.

Professor G. Szenes  
Conference Chairman

