

**PROCEEDINGS
OF THE SIXTH
TIHANY
SYMPOSIUM ON
RADIATION
CHEMISTRY**

Edited by

**Péter HEDVIG
Lajos NYIKOS
Róbert SCHILLER**

AKADÉMIAI KIADÓ, BUDAPEST

The 6th Tihany Symposium on Radiation Chemistry,
held at Balatonszéplak, Hungary, 21-26 September 1986,
organized by the Radiation Chemical Section of the
Hungarian Chemical Society, in co-operation with the
International Atomic Energy Agency, Vienna

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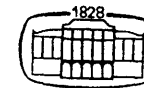
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PROCEEDINGS OF THE SIXTH TIHANY SYMPOSIUM ON RADIATION CHEMISTRY

Vol. 1

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AKADÉMIAI KIADÓ, BUDAPEST 1987

ISBN 963 05 4643 4 (Series)
ISBN 963 05 4644 2 (Vol. 1)

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Printed in Hungary

PREFACE

We are pleased to present this work - the sixth such proceedings, containing the lectures and discussions of an international meeting on radiation chemistry held in Hungary. If there is any cause for pride, it is not so much that the tradition is being kept than that this field of research is being constantly rejuvenated. The community of radiation chemists may duly take some pride in this fact. Without having abandoned classical problems and techniques, the students of radiation chemistry are becoming increasingly susceptible to exact physical thinking and at the same time attain more and more results applicable to industrial processes or biomedical problems. It is sincerely hoped that these tendencies, tangible during the meeting, will be conveyed by the present book.

Traditional aspects and techniques were discussed along with more modern problems and bordering fields such as spectroscopy, photochemistry, heterogeneous processes, theoretical reaction kinetics, etc. Particular attention was paid to applied industrial problems, irradiation methods, dosimetry and research work of radiobiological relevance.

Recent achievements, international trends and up-to-date unresolved problems of present-day radiation chemistry can be assessed through the lectures and discussions.

In order to provide as full a coverage as possible of the events, we have included the discussions that took place after most lectures. Sincere thanks are due to all concerned who wrote a summary of their arguments. For the first time we or-

ganized a poster session and some of the posters, edited by their authors, appear here as articles.

This is again a camera-ready volume with all the advantages and disadvantages of the technique. Although camera-ready manuscripts are not meant to be edited, we gratefully accepted the expert help of the technical staff of the Publisher and carried out some minor corrections. Here we tried to compromise between the authors' individual styles and the general rules of comprehensive scientific English.

The Editors

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OPENING ADDRESS

Dear Colleagues, dear Friends!

It is a great pleasure for me to welcome you in the name of the Organizing Committee at the 6th Tihany Symposium on Radiation Chemistry. It is not without grief. We won't have ever more the pleasure to have Professor Milton Burton with us. His scientific achievements are as unforgettable as his charming personality. Those who were present at the second meeting in Tihany, will surely remember that evening session where he and the late Professor Voevodsky gave such a brilliant view of the problems and perspectives of radiation chemistry.

In fact, it is now about a quarter of a century since we have held our first symposium in Tihany. Some of those sitting in this room were born at that time. We hope that a new generation of our symposia will begin as well with this one and our hope is strengthened by seeing your growing interest. I would like to thank all those who gave us valuable suggestions to reform our program and I only regret that it was not possible to put more of these suggestions into practice. The most conspicuous change is the poster session. This gave us the possibility to have as many or even more papers than earlier with a minimum of parallel sessions. Informal discussion meetings are also included in the programme. Because, as you will surely agree with me, the reason for the existence of our symposia are the discussions, the personal contacts, the listening to the opinions of others. In this spirit, let me wish you all a successful and pleasant meeting.

János Dobó