

CHEMILUMINESCENCE

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BIOLUMINESCENCE



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## PREFACE

This volume is a collection of papers presented at the International Conference on Chemiluminescence held at the University of Georgia, October 10-13, 1972. This conference was a sequel to the first International Conference on Chemiluminescence held at Duke University in 1965. Between the two conferences considerable work had been done in all areas of chemiluminescence, and this second conference was an attempt to bring together the many workers in the field to share ideas about mutual problems.

The phenomenon of chemiluminescence covers a wide range of disciplines, and as a consequence the backgrounds and interests of scientists studying chemiluminescence are diverse. Topics ranging from the theory of atomic collisions to evolutionary biology have direct relevance to chemiluminescence, and in turn chemiluminescence offers a unique tool for their study. The objective of the symposium was to bring together workers having diverse backgrounds to discuss both the fundamental science relating to chemiluminescence as well as applications of chemiluminescence to important problems. A perusal of the table of contents will reveal the diversity of this volume. It covers chemiluminescence in the gas phase and in condensed media; chemiluminescence from radical reactions; reactions of singlet oxygen; analysis for trace elements; mechanisms in bioluminescence; mechanisms of organic chemiluminescent reactions; and lasers produced from chemiluminescent reactions.

This volume presents the invited lectures given at the conference as well as abstracts of the contributed papers. An edited version of the discussions following each invited lecture is also presented.

It is always difficult to express gratitude to all of those persons who have contributed so much to the success of a conference and a volume such as this. We believe a special note of thanks goes to our session chairmen for their willingness to undertake the difficult task of editing the remarks presented at each session. We also give a special note of thanks to our graduate students and

postdoctoral fellows who aided in the editing and recording of these comments. We also extend our thanks to those agencies listed on the following page for the financial support that made this conference possible.

Milton J. Cormier  
David M. Hercules  
John Lee

February 1, 1973

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Environmental Protection Agency

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