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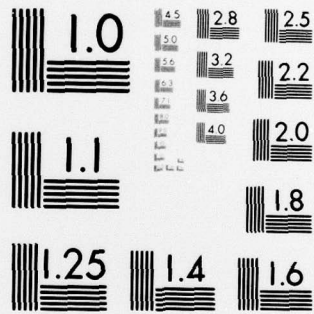
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July 27, 1979

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <b>The First Asilomar Conference on Electron- and Photon-Molecule Collisions was held August 1-4, 1978 in Pacific Grove, California. This meeting brought together forty scientists who are actively involved in theoretical studies of electron scattering by, and photoionization of, small molecules. In this volume are collected the contributions of the invited speakers, as well as the roundtable and evening discussions condensed from taped recordings of the entire proceedings. The subject matter reflects current activity in the field and describes many of the techniques that are being developed and applied to molecular collision problems.</b>		

The funds provided by this grant were to provide support for the First Asilomar Conference on Electron-Molecule and Photon-Molecule Collisions. This conference was held August 1-4, 1978 in Pacific Grove, California. The chairmen and organizers of the conference were Vincent McKoy, Thomas N. Rescigno, and Barry Schneider. The names and affiliations of the participants are shown on the attached sheets.

The purpose of this conference was to bring together forty scientists who are actively involved in theoretical studies of electron scattering by, and photoionization of, small molecules. The needs for quantitatively accurate electron- and photon-molecule scattering cross sections in various research efforts is putting stringent demands on present theoretical methods. The goal of the meeting was to assess the scope of those methods which are presently being used in the study of electron- and photon-molecule collisions, to identify the key advantages and limitations of the various methods and to see which techniques are best suited for a quantitative study of the important problems in molecular scattering. With this goal in mind, forty atomic and molecular scientists, actively studying electron-molecule collisions and photoionization processes from different theoretical approaches met for an intensive three day workshop. The titles and authors of the contributions are shown on the attached sheet. We have collected the contributions of the invited speakers, as well as the roundtable and evening discussions condensed from taped recordings of the entire proceedings in a single volume. This volume collects in a single source material which would normally be found in a variety of technical journals. Many of these techniques are still being developed and have not yet found their way into text books.

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**Attachments:**

Re: Proceedings of the First Asilomar Conference on  
Electron-Molecule and Photon-Molecule Collisions

Title page  
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**Electron-Molecule  
 and Photon-Molecule  
 Collisions** (1st) Held on 1-4  
 August 1978 at Pacific Grove, California.

Edited by

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ELECTRON- AND PHOTON-MOLECULE COLLISIONS

Proceedings of the First Asilomar Conference

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## ABSTRACT

The First Asilomar Conference on Electron- and Photon-Molecule Collisions was held August 1-4, 1978 in Pacific Grove, California. This meeting brought together forty scientists who are actively involved in theoretical studies of electron scattering by, and photoionization of, small molecules. In this volume, are collected the contributions of the invited speakers, as well as the roundtable and evening discussions condensed from taped recordings of the entire proceedings. The subject matter reflects current activity in the field and describes many of the techniques that are being developed and applied to molecular collision problems.