Fundamental Processes in Atomic Collision Physics
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Fundamental Processes in Atomic Collision Physics

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Sir Harrie Massey at the NATO ASI on Fundamental Processes in Energetic Atomic Collisions, held September 20–October 1, 1982, in Maratea, Italy
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The Proceedings of the Advanced Study Institute on Fundamental Processes in Atomic Collision Physics (Santa Flavia, Italy, September 10-21, 1984) are dedicated to the memory of Sir Harrie Massey, whose scientific achievements and life are reviewed herein by Sir David Bates.

At the first School on the above topic (Maratea, September 1983, Volume 103 in this series), Harrie Massey presented the introductory lectures, summarized the entire lecture program, and presented an outlook on future developments in atomic collision physics. In an after-dinner speech, Massey recalled personal reminiscences and historical events with regard to atomic collision physics, to which he had contributed by initiating pioneering work and by stimulating and surveying this branch of physics over a period of almost six decades. Participants in the Maratea School will always remember Harrie Massey as a charming and wonderful person who was most pleased to discuss with everyone--students, postdoctorals, and senior scientists--any topic in atomic collision physics.

Harrie Massey was a member of the Scientific Advisory Committee of the 1984 Santa Flavia School. Before his death he expressed his interest in attending this second School devoted to the presentation of recent developments and highlights in atomic collision physics. It is the desire of all authors to honor Harrie Massey with their contributions in these Proceedings.

As one of the highlights of the meeting, a very enjoyable and stimulating symposium on New Trends in Atomic Collisions was organized by Honorary Chairman Ugo Fano. The manuscripts of the lectures presented on this occasion, as well as short papers resulting from a poster session, are included in this volume.

The fact that the two Schools at Santa Flavia and Maratea attracted so many distinguished lecturers, junior and senior scientists, was very gratifying and evidence for the importance of atomic collision physics as a fundamental branch of physics. The success of the present School was the result of considerable efforts
and cooperation from members of the Scientific Advisory Committee, the Local Committees of the Universities of Palermo and Stirling, the lecturers, invited speakers, and authors of contributed papers. The stimulating atmosphere of the meeting created by fruitful discussion between lecturers and participants was perhaps the most valuable asset of the School.

The Scientific Secretary, Dr. H.J. Beyer, deserves our deepest gratitude for all the work he carried out patiently and effectively during the meeting. We gratefully acknowledge the efforts of our secretary, Mrs. K. Murray, who carried the burden of organization through all stages of preparation of the School. We are most thankful for the generous support of the following sponsors:

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These sponsors enabled many scientists to attend the School.

H. Kleinpoppen
J.S. Briggs
H.O. Lutz
(Directors of the School)

Stirling, December 1984
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