

Preface

The idea of holding a conference on meteors and interplanetary dust emerged at the commission 22 meetings during the IAU General Assembly in Baltimore and was firmed up at the next meeting in Buenos Aires, where it was decided to hold a conference in Czechoslovakia in 1992. This was 25 years since a meeting “Physics and Dynamics of Meteors” was held at Tatranská Lomnica, Czechoslovakia.

The first Meteoroids Conference was held in Smolenice July 6-10 1992. Interestingly, by the time the proceedings were published (Meteoroids and their Parent Bodies) Czechoslovakia had divided into two independent countries and the book was published by the Slovak Academy of Sciences.

Since that beginning, meetings have been held at roughly three year intervals (Bratislava, Slovakia, 1994; Tatranská Lomica, Slovakia, 1997; Kiruna, Sweden, 2001; London, Canada, 2004; Barcelona, Spain, 2007; Breckenridge, USA, 2010) and this volume publishes papers presented at the eighth meeting held at the Adam Mickiewicz University in Poznań, Poland 26 - 30 August 2013. This meeting, as did the first meeting in Smolenice and some of the others, followed the annual meeting of the International Meteor Organization, thus allowing a continuation of the fruitful collaboration between professional and amateur astronomers that is common in meteor astronomy, by allowing participants to easily attend both meetings. A special session on outreach and relation with amateur meteor astronomers was included in the program.

There were 103 participants from 27 countries at the conference. A significant part of the conference was devoted to the results from the spectacular and large fireball that was observed over Chelyabinsk in Russia on 15th February 2013 and to meteorite falls in general as well as meteoroid interactions with the planetary atmospheres. Other areas of science covered were Observation techniques; Sporadic and shower meteoroids; Physical properties of meteoroids; Meteoroid parent bodies; interplanetary dust and interstellar meteoroids. Some coverage was also given to meteoroid data bases and historical records.

This Volume contains many of the papers that were presented at this meeting. All the papers were refereed and the help of the referees are acknowledged.

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