

## Abstracts of Poster Papers

Abstracts of poster papers relevant to this section of the Special Session are presented below.

### **The Error in Solar-Diameter Measurements Induced by Atmospheric Turbulence**

*Lyes Lakkhal et al., Observatoire d'Alger-CRAAG, BP 63 Bouzaréah 16340 Alger, Algeria*

Diameter measurements performed with the solar astrolabe are affected by atmospheric effects. In order to deduce significant astrophysical results, it is necessary to know how these effects contribute to the error of diameter measurement. For this purpose, a numerical simulation was developed leading to a law of error behaviour with observing conditions. In order to validate these results, recorded data obtained at the Calern observatory astrolabe (France) during the period 1996 - 1997 are used. A good agreement is observed with the simulation, which permit also to give access to daily atmospheric time constants. (Co-author is A. Irbah, Algeria.)

### **Astronomy Research in Bolivia**

*Dmitry D. Polojentsev et al., Pulkovo Astronomical Observatory, St Petersburg, Russia*

1. An astronomical expedition from Pulkovo observatory in Bolivia, near Tarija was organized in 1982. The first telescope was an astrograph (  $D=23$  cm,  $F=230$  cm, field =  $5 \times 5$  degrees ). Successful observations on this instrument are still being made. In all 7 astronomical instruments were installed. Now they are the National Bolivian Observatory.
2. The main results of astrophysical investigations were devoted to 4-color photometry of supernova 1987A and the creation of a Spectrophotometric Catalogue of 60 Selected Southern Stars.
3. The main results of astrometrical investigations were made on two catalogue problems: Photographical Catalogue for Southern Star (FOCAT-S) and Equatorial Catalogue (ECAT). The first was the foundation for southern part of PPM Catalogue.
4. A time service was organized in 1988 in Tarija at the National Astronomical Observatory "Santa Ana". In 1997 Pulkovo observatory assisted to reconstruct it.
5. The only Planetarium in Bolivia "Max Schreider" in La Paz was founded in 1976.
6. The Asociacion Boliviana de Astronomia (ABA) was organized in 1969 in accordance with a Government Resolution. It has branches in Potosy, Santa Cruz, Sucre, Tarija etc.
7. The development of the astronomy in Bolivia depends directly on cooperation with the astronomically developed countries.  
(Co-author is R. Zalles, Brazil.)