

52
A16

MAO-2004
July 15-17, 2004, Kiev, Ukraine

ABSTRACT BOOK



Astronomy in Ukraine – Past, Present and Future

The Conference devoted to the 60th anniversary
of the Main Astronomical Observatory
of the National Academy of Sciences of Ukraine

About Scientific Schools in the Nikolaev Astronomical Observatory in the Fields of Positional Astronomy and Astronomical Instrumentation

GRYGORIJ PETROV*, G. I. PINIGIN, A. V. SHULGA

* *Nikolaev Astronomical Observatory*
1 Observatorna Str., 54030 Mykolaiiv, Ukraine
zhanna@mao.nikolaev.ua

The Nikolaev Astronomical Observatory (NAO) was founded in 1821. During last decades two main directions of scientific activity such as position determination of celestial bodies and astronomical instrumentation were formed. Considerable experience and achievements were gained at this fields in the NAO. They prove the existence of corresponding scientific schools. Especially and productively in second half of 20th century differential observations were developed for determination of star and Solar System bodies coordinates. All observations by absolute methods served as a base for refinement of international fundamental catalogues FK3, FK4 and FK5. On the whole, at the activity period of the NAO nearly 35 differential position catalogs including modern one by the use of CCD methods were compiled. For last decades in the glass library of the NAO more than nine thousands of astroplates were collected. In the scientific school on astronomical instrumentation the most efficiency was achieved in the end of 20th century. In 1995 in the NAO the new telescope – the Axial meridian circle (AMC) of the original horizontal design and equipped with modern CCD registration receivers under computer control was put into operation. In 1999 the AMC was included in the list of objects representing the National Property of Ukraine. In 2000 creation of a Fast Robotic Telescope with mirror optics, CCD receivers and computer control has been started. Development of the NAO on new units of the telescopes, recording CCD devices, program control take root at other observatories of Ukraine and the Former SU.