NATIONAL TECHNICAL UNIVERSITY OF ATHENS SCHOOL OF RURAL AND SURVEYING ENGINEERING DEPARTMENT OF TOPOGRAPHY LABORATORY OF GENERAL GEODESY	
ACCURATE ORIENTATION OF THE GYROSCOPE'S CALIBRATION SYSTEM	
TECHNICAL CHAMBER OF GREECE	E. Lambrou, G. Pantazis
CONTRACTOR OF CONTRACTOR CONTRACT	FIG Working Week Ashens, Greece May 22–27 2004

GYROTHEODOLITE GYROTHEODOLITE Gyroup of the second second

CALLIBRATION • Check and calibration by using a collimator • The astronomical azimuth of the collimator's line of sight must be determined $A_{SC} = A_{OS} + b + 180^{\circ} - 360^{\circ}$ A_{OS}













CONCLUSIONS

¹⁵ The determination of the astronomical azimuth of a collimator's axis or any other arbitrary direction may be done by an accuracy of about $\pm 1''$ by using the above described system, the total station and the GPS receiver, by the hour angle method and by sightings to Polaris.

21

Special attention is needed to the marking of any points, which determine the directions, and also attention is needed to the measurement of the corresponding angles.

Whe total duration of the application of the above methodology is about 1 hour.

This methodology appears as convenient, fast, accurate and low cost, as the accurate periodical check of the gyroscope thodolite is necessary.

