

ADVANCED PROFESSIONAL TRAINING ACTIVITIES AT CISM (UDINE-ITALY) IN GEODESY AND PHOTOGRAMMETRY

F. Crosilla*, D. Visintini*, E. Cum**

*Dipartimento di Georisorse e Territorio, Università di Udine

**Centro Internazionale di Scienze Meccaniche, Udine

ISPRS Commission VI, Working Group 3

Keywords: education, GPS, digital photogrammetry, GIS

Summary

The aim of the lecture was to present the first ten years advanced professional training activities in Geodesy and Photogrammetry carried out at CISM, Udine (Italy), since 1988.

The activities, showing the scientific and technological state of the art evolution had in the field of survey in the last decade, were in general:

- ◆ a chance offered to italian scientists, technicians, professionals to acquire the most significant innovations had in this field;
- ◆ a good opportunity to learn different approaches to problems solution poposed by different european school leaders.

The courses organized at CISM are listed in the following:

- ◆ 1988 "Design and optimization of topographic and photogrammetric control survey " (coordinators F. Crosilla L. Mussio : 10 lecturers from italian and other european universities)
- ◆ 1989 "From analytical to digital : new developments of applied photogrammetry to engineering (coordinators F. Crosilla L. Mussio : 9 lecturers from italian and other european universities)
- ◆ 1990 " GPS system: methodologies and engineering applications (coordinators F. Crosilla L. Mussio : 10 lecturers from italian and other european universities)
- ◆ 1991 " Geographic Information Systems : Basic theory and applications to the control and management of the territory (coordinators F. Crosilla L. Mussio : 9 lecturers from italian and other european universities)
- ◆ 1993 " Advanced methods and procedures of modeling and processing GPS data (coordinators F. Crosilla L. Mussio : 10 lecturers from italian and other european universities)
- ◆ 1993 " Theory and algorithms for digital photogrammetric systems (ISPRS WG III/4 turorial, coordinators F. Crosilla G. Melikuti : 7 lecturers from 6 european universities)
- ◆ 1995 "Spatial data analysis : Theory and algorithms (ISPRS WG III/4 tutorial, coordinators F. Crosilla L. Mussio : 4 lecturers from 4 european universities)
- ◆ 1997 "Topographic measures with GPS for cadastral and numerical cartogrtaphy (coordinator F. Crosilla : 7 lecturers from italian universities)
- ◆ 1997 "Robotics and other techniques for dynamic positioning and surveying (coordinators F. Crosilla L. Mussio : 9 lecturers from italian and other european universities)

For future activities at CISM the authors identify the following possible items:

- ◆ Dynamic survey techniques
- ◆ Dynamic GIS
- ◆ Integration of different sensor systems
- ◆ Analytical models for the real time estimation and prediction of dynamic variables.

This means that a stronger interaction with information theory, electronic imaging and navigation shall be required.