

# XX

## INTERNATIONAL SYMPOSIUM

MODERN TECHNOLOGIES,  
EDUCATION AND  
PROFESSIONAL PRACTICE  
IN GEODESY AND RELATED FIELDS



23 - 24 SEPTEMBER 2010  
ALBENA RESORT, BULGARIA

UNION OF SURVEYORS AND LAND MANAGERS IN BULGARIA



## INVITATION

*Dear ladies and gentlemen,  
Dear colleagues,*

*On behalf of the Organizing Committee and myself I am honored to invite you to participate in the XX International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields (with a special session for young scientists and students), together with the General Assembly of Council of European Geodetic Surveyors (CLGE), which will take place from 23 to 25 September 2010 in Albena Resort.*

*Albena Resort is one of the most beautiful Bulgarian sea resorts, situated 30 km north of Varna, the biggest Bulgarian port. Albena Resort is found at the very beach amidst the picturesque hills of Balata National Reserve.*

*The coming Symposium with an exhibition is the twentieth event in succession organized annually by the Union of Surveyors and Land Managers in Bulgaria in close cooperation with international geodetic and others organizations and National Authority and Organizations, as the Chamber of Graduated Surveyors.*

*The Symposium carries on the established tradition of contacts' exchange and experience in the filed of geodesy, photogrammetry, cadastre and cartography, GNSS and GIS and related fields.*

*This year the Symposium will be held in closer regional cooperation with the European countries. It will be held before the General Assembly of CLGE.*

*The attractive blend of scientific presentations, exhibition, and other events, as well as the picturesque sea view and unforgettable sightseeing tour of Varna with wine tasting, will surely encourage you to come to Albena Resort.*

*We look forward to welcome you!*

*Prof. Dr. Eng. Georgy Milev, President of the Union of Surveyors and Land Managers in Bulgaria.  
Chairman of the Organizing Committee  
Corresponding Member of Bulgarian Academy of Sciences*

## ORGANIZING COMMITTEE

Union of Surveyors and Land Managers  
in Bulgaria  
House of Science and Technics  
108 Rakovski St., 1000 Sofia, Bulgaria  
[www.geodesy.fnts-bg.org](http://www.geodesy.fnts-bg.org)  
E-mail: [geodesy\\_union@fnts-bg.org](mailto:geodesy_union@fnts-bg.org)

*Chairman of the Organizing Committee:*

Prof. Dr. Eng. G. Milev  
E-mail: [milev@bas.bg](mailto:milev@bas.bg)  
Fax: 003592 9879 360

## SCIENTIFIC COMMITTEE

Orhan Altan, ISPRS, Turkey  
Hans Hauolt, UNOV-OOSA/ICG, Austria  
Matt Higgins, FIG, Australia  
Heribert Kahmen, TUV, Austria  
Basil Psarianos, EGoS, Greece  
Jean-Yves Pirlot, CLGE, Belgium  
Bengt Rystedt, ICA, Sweden  
Nikola Sabotinov, BAS, Bulgaria

Janusz Sledzinski, CEI, Poland

Zdravko Rusev, EUROARCH-EAA, Czech Republic

## SECRETARIAT

Company for International Meetings - CIM Ltd.  
18, Christo Belchev Str., Sofia 1000, Bulgaria  
<http://www.cim.bg>  
tel. + 356 2 987 74 22; fax: + 359 2 980 60 74  
e-mail: [cim@cim.bg](mailto:cim@cim.bg); [denitza@cim.bg](mailto:denitza@cim.bg)  
Contact: Denitza Yonkova

Participants are requested to contact CIM Ltd. directly for services included in the Registration Form enclosed.

## MEETING VENUE

The Symposium will take place on 23 and 24 September 2010 in Ara Hall of Flamingo Grand Hotel of Albena Resort.

[www.albena.bg](http://www.albena.bg)

## HOW TO REACH VARNA

By air. Bulgarian and foreign airline companies directly link Varna to major European cities. Regular flights operate between Sofia and Varna several times daily. Direct flights from major European cities to Varna are available, too.

By train. Varna is linked to almost all capitals and big cities in Europe by train.

By bus/car. Varna is accessible from the main border checkpoints via national and international roads.

## MAIN TOPICS

### 1. MODERN TECHNOLOGIES

#### 1.1. GEODESY

- Methods and technologies in geodesy
- National, engineering, geodynamic and other applied aspects
- Processing of geodetic measurements and data bases

#### 1.2. PHOTOGRAMMETRY

- Digital photogrammetry
- Surface reconstruction
- 3D reconstruction of historic buildings and monuments
- Multi-media visualization (Visualization and Animation of Landscape)

#### 1.3. CARTOGRAPHY

- Innovative technologies for design and production of maps
- Web Cartography
- Thematic cartography

#### 1.4. SATELLITE TECHNOLOGIES

- GNSS (Global Navigation Satellite Systems)
- Remote Sensing
- SAR technologies

#### 1.5. PHYSICAL (URBAN AND RURAL) PLANNING

- Planning of territories
- Rural planning
- Modelling
- Territories' protection - Natural disasters and catastrophes

#### 1.6. CADASTRE

- Cadastral basis and cadastral systems
- 3D cadastre
- Application of cadastre

### 1.7. GIS

- GIS requirements - concepts, modeling and structuring of data
- GIS applications

### 2. EDUCATION

- Models of geodetic education. New solutions
- Trends in the development of geodetic education

### 3. PROFESSIONAL PRACTICE

- Professional realization and effectiveness
- Development of cooperation in the Balkan region.

## CALL FOR PAPERS

**NB: The deadline for submission of abstracts is prolonged to 15 June.**

#### Instructions to authors:

Volume: up to 10 standard A-4 pages in English, ready for printing (Microsoft Word);

Margins: top, left and right - 2 cm, bottom - 2.5 cm. Do not number pages!

Font: Times New Roman or Courier; font size - 12 pt,

Single spacing;

Title: in bold type, capital letters, Times New Roman, font size - 16 pt.

Name of authors: font size - 14 pt (without degrees).

Affiliations: Include data for the authors at the end of the paper as follows:

\* degrees, name, family name

\* organization / company

\* address for contact

\* telephone, fax number, e-mail

The abstracts and papers should be submitted as an e-mail attachment to the Union of Surveyors and Land Managers in Bulgaria / [geodesy\\_union@fnts-bg.org](mailto:geodesy_union@fnts-bg.org) / . Abstracts send by fax will not be accepted.

#### Please, submit a copy of your paper to:

Union of Surveyors and Land Managers in Bulgaria

House of Science and Technics

108 Rakovski St., 1000 Sofia, Bulgaria

#### Example of the layout:

INTERNATIONAL SYMPOSIUM ON  
MODERN TECHNOLOGIES, EDUCATION  
AND PROFESSIONAL PRACTICE IN GEODESY AND RELATED FIELDS  
Albena, 23 - 24 September 2010

Title of Paper

Author(s)

Country

Summary

Text

## OFFICIAL LANGUAGE

The official language of the Symposium is English. All papers presentations and discussions will be in English. The program includes one session in Bulgarian. A simultaneous translation will be provided.

## EXHIBITION

A special exhibition of surveying, photogrammetric and other instruments and systems, hardware and software will be held in the framework of the Symposium. It will open on 23 September 2010 at 9 a.m. and will operate till 6 p.m. on 24 September 2010.

The conditions of participation and the prices are indicated in the enclosed Registration form.

## REGISTRATION

All participants are kindly asked to register by making the necessary payment of the Registration fee and sending the enclosed Registration form not later than 15 July 2010 to CIM by e-mail: [denitza@cim.bg](mailto:denitza@cim.bg), [cim@cim.bg](mailto:cim@cim.bg) or by fax: + 359 2 980 60 74.

The Registration desk will be located in the Lobby of Flamingo Grand Hotel and will operate from 4 p.m. on 22 September till the end of the Symposium.

All participants are requested to register upon arrival in Albena Resort.

## SOCIAL EVENTS

*Welcome Cocktail /included in the delegate's, student's and acc. person's registration fees/*

Participants and accompanying persons are kindly invited to join the Welcome Cocktail on 23 September around the outdoor swimming pool of Flamingo Grand Hotel.

*Lunches /included in the delegate's and student's registration fees/*

Buffet lunches will be organized for delegates in a restaurant of Flamingo Grand Hotel on 23 and 24 September.

*Coffee/ tea/ refreshments /included in the delegate's and student's registration fee/*

Coffee/ tea/ refreshments will be provided for delegates during the Symposium.

*Sightseeing tour of Varna with a wine tasting /incl. in acc. person's registration fee/*

Date: 24 September, 9:00 - 12:00 h

Varna, Bulgaria's Black Sea Capital, one of the cradles of European culture. The city was founded in the 6th c. BC and houses many Roman and Byzantine remains. It is a large port, cultural, commercial and tourist centre. Visit to the Archaeological Museum with the presumably oldest worked gold in the world dating back to 4000 BC. Visit to the Roman thermae. Wine tasting of intriguing Bulgarian wines with a wine expert.

*Bus transportation, professional guide, all admission fees, wine tasting included.*

## HOTEL BOOKING

Rooms at preferential prices are provided for the participants in Flamingo Grand Hotel (5 stars), Flamingo Hotel (4 stars) and Dobrudja Hotel (3 stars). */ See the rates in the Registration form enclosed/.*

Full prepayment of accommodation is required prior to 2 August 2010.

Room rates are only valid for reservations made with CIM. The application for hotel accommodation will be considered valid only if it is supported by a bank transfer document or by submission of Credit Card details.

## TRANSFERS

Varna Airport is situated in 30 km from Albena Resort /the meeting venue/. Arrival and departure transfers will be arranged for all participants upon preliminary request at the price of 22 Euro per person in one direction. Precise travel details should be given to CIM at least two weeks prior to arrival. In case of "last minute" changes in your travel arrangements, please inform CIM by fax or e-mail. For safe and comfortable trip to Albena Resort it is advisable to use CIM transfer services. Taxis are also available at the Varna Airport.

## PAYMENT

Full prepayment of registration fee, hotel accommodation, transfers and tours should be made to CIM Ltd. in advance in Euro by one of the following methods:

- Bank transfer to the bank account of the Company for International Meetings Ltd. */ See section Payment in the enclosed Registration form/*
- Credit card by completing credit card section of the enclosed Registration Form.

If any, balance payment should be made on-site in cash in Euro or by credit card at the CIM Registration Desk. Original invoices for payments will be received on spot at the CIM Registration Desk.

### Confirmation Letter

A letter of confirmation will be sent to participants upon receipt of Registration Form and payment due.

## PRAVACY & CANCELLATION POLICY

The Company for International Meetings - CIM Ltd. will use your personal information you have submitted only to process your registration and booking. CIM Ltd. takes the privacy of your personal data very seriously.

Cancellation period	Cancellation fee
Before 02.08.2010	30 € administrative charges
Before 30.08.2010	50 % of the amount prepaid
After 30.08.2010	No refunds

## KEY ADDRESSES

*Concerning the scientific program and abstracts:*

### National Organizing Committee

Union of Surveyors and Land Managers  
in Bulgaria  
House of Science and Technics  
108 Rakovski St., 1000 Sofia, Bulgaria  
[www.geodesy.fnts-bg.org](http://www.geodesy.fnts-bg.org)  
E-mail: [geodesy\\_union@fnts-bg.org](mailto:geodesy_union@fnts-bg.org)

### Chairman of the Organizing Committee:

Prof. Dr. Eng. G. Milev  
E-mail: [milev@bas.bg](mailto:milev@bas.bg)  
Fax: 003592 9879 360

*Concerning hotel accommodation, transfers, social & tourist programs and payment:*

### Secretariat

Company for International Meetings Ltd (CIM) Ltd.  
18, Christo Belchev St., 1000 Sofia, Bulgaria  
Phone: (+359 2) 988 80 35, 980 89 61  
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Contact: Denitza Yonkova

## IMPORTANT DATES

Deadline for submission of Abstracts:	15 June 2010
Deadline for submission of papers:	15 July 2010
Deadline for payment of early registration fee:	15 July 2010
Deadline for payment of Hotel Accommodation:	02 August 2010
Symposium dates:	23-24 September 2010

*For up-to-date information please, visit:*

<http://www.geodesy.fnts-bg.org/> or <http://cim.bg/index.php/en/view/organizirane-na-xx-mezhdunaroden-simpozium-geodeziya/>



INTERNATIONAL FEDERATION OF SURVEYORS (FIG)

INTERNATIONAL SOCIETY OF PHOTOGRAMMETRY  
AND REMOTE SENSING (ISPRS)

INTERNATIONAL CARTOGRAPHIC ASSOCIATION (ICA)

COUNCIL OF EUROPEAN GEODETIC SURVEYORS (CLGE)

EUROPEAN GROUP OF SURVEYORS (EGoS)

UNITED NATIONS OFFICE AT VIENNA, OFFICE FOR  
OUTER SPACE AFFAIRS (UNOV-OOSA)

INTERNATIONAL COMMITTEE ON  
GLOBAL NAVIGATION SATELITE SYSTEMS (ICG)

INTERNATIONAL ASSOCIATION OF GEODESY (IAG)

EUROPEAN GEOSCIENCES UNION (EGU)

CENTRAL EUROPEAN INITIATIVE (CEI)

EUROPEAN ACADEMY OF ARCHITECTURE (EAA)

UNION OF SURVEYORS AND LAND MANAGERS IN BULGARIA (USLMB)

FEDERATION OF THE SCIENTIFIC ENGINEERING UNIONS (FSEU)

BULGARIAN ACADEMY OF SCIENCE (BAS)

UNIVERSITY OF ARCHITECTURE, CIVIL ENGINEERING  
AND GEODESY (UACG)

MINISTRY OF REGIONAL DEVELOPMENT  
AND PUBLIC WORKS - AGENCY OF  
GEODESY, CARTOGRAPHY AND CADASTRE  
(MRDPW-AGCC)

MINISTRY OF AGRICULTURE AND FOOD SUPPLY (MAFS)

MINISTRY OF DEFENCE-MILITARY GEOGRAPHIC SERVICE (MD-MGS)

CHAMBER OF SURVEYOR ENGINEERS (CSE)

UNION OF SCIENTISTS IN BULGARIA - SECTION OF TECHNICAL, GEOLOGICAL AND GEOGRAPHICAL  
SCIENCES (USB-STS-SGGS)

BULGARIAN AEROSPACE AGENCY (BASA)