



Meeting of Serbian Surveyors

Kladovo, Đerdap upon Danube, Serbia, 24-26 june 2011.



INTERNATIONAL SCIENTIFIC CONFERENCE & XXIV MEETING OF SERBIAN SURVEYORS

PROFESSIONAL PRACTICE AND EDUCATION
IN GEODESY AND RELATED FIELDS



PROGRAMME of the conference



UNIVERSITY OF BELGRADE
FACULTY OF CIVIL ENGINEERING



Serbian Union of Surveyors



UNIVERSITY OF NOVI SAD
FACULTY OF TECHNICAL SCIENCES

June 25 th, 2011 (Saturday)

- **Registration 8.00-9.00**

- **Hall No 2, 1st Floor – Congress Center** **9.15 - 9.45**
Opening Ceremony

- **Hall No 2, 1st Floor – Congress Center** **10.00 - 12.00**
XXIV Meeting of Serbian Surveyors

- **Hall No 1, House of Culture** **10.00-12.00**
Opening of International Scientific Conference
Plenary Session
Invitation Papers

P - 1. Marinko Bosiljevac, Željko Bačić and Marijan Marjanović (Croatia)
USAGE AND UPGRADE OF THE CROATIAN POSITIONING SYSTEM - CROPOS

P - 2. Branislav Bajat, Nikola Krunic and Milan Kilibarda (Serbia)
DASYMETRIC MAPPING OF SPATIAL DISTRIBUTION OF POPULATION IN TIMOK REGION

P - 3. Boško Pribičević and Almin Đapo (Croatia)
GEODETIC AND GEOLOGIC RESEARCH ON THE GEODYNAMIC NETWORK OF THE CITY OF ZAGREB

P - 4. Aleksandra Ristić, Miro Govedarica, Đorđe Pržulj and Dubravka Sladić (Serbia)
EUROPEAN CADASTRE IN SERBIA – DOMAIN MODEL

P - 5. Željko Cvijetinović, Dragan Mihajlović, Miloš Vojinović and Momir Mitrović (Serbia)
TERRAIN SURFACE MODELING USING TRIANGULAR SPLINE PATCHES

P - 6. Rajica Mihajlović, Manojlo Miladinović and Mladen Šoškić (Serbia)
OPTIMIZATION OF LAND DISTRIBUTION IN URBAN LAND CONSOLIDATION



Hall No 1, House of Culture 12.30- 14.00 and 15.00 – 17.15
Lunch break 14.00 -15.00

SESSION A

NEW TECHNOLOGIES AND THEIR APPLICATION

A - 1. Žiga Hrib and Milivoj Vulić (Slovenia)

CREATING 3D MODEL IN MINING USING LOW - COST PHOTOGRAMMETRY

A - 2. Ela Vela-Bagić, Damir Medak and V. Miljković (Croatia)

APPLICATION OF TERRESTRIAL LASER SCANNER IN MONITORING OF FOREST

A - 3. Vanja Miljković, Dubravko Gajski (Croatia)

MULTISPECTRAL CLOSE-RANGE FACILITIES SURVEYS

A - 4. Karel Sukup and Jan Sukup (Czech Republic)

OPTIONS FOR USING IP - S2 TOPCON MOBILE MAPPING SYSTEM

A - 5. Zoran Sušić, Toša Ninkov, Vladimir Bulatović³, Dejan Vasić (Serbia)

USE OF IR CAMERAS IN INDUSTRIAL APPLICATIONS

A - 6. Marko Pejić, Mileta Bojović, Branko Božić, Zagorka Gospavić, Branko Milovanović, Milutin Pejović (Serbia)

DETERMINATION OF HYDRO POTENTIAL AND STATISTICAL ESTIMATION OF ACCUMULATIONS
SEDIMENTATION ON THE BASIS OF MODERN SURVEING METHODS

A - 7. Cedomir Cvijović, Jasmina Nedeljković-Ostojić, Branko Bosković (Serbia)

THE APPLICATION OF TERRESTRIAL LASER SCANNING IN COMPLEX GEOMETRIC STRUCTURES SURVEYING

A - 8. Ivan Nestorov, Dragutin Protić and Milan Kilibarda (Serbia)

TOWARDS ENERGY - EFFICIENT SOCIETY: AN EXAMPLE OF "SMART CITY SERVICE"

A - 9. Ljiljana Aleksić, Vesna Kosorić and Sanja Vavan Vučeljić (Switzerland-Serbia)

HEALTHY CITIES: A HOLISTIC APPROACH TO HEALTH IN URBAN PLANNING

A - 10. Amin Đapo, Boško Pribičević and B. Kordić (Croatia)

3D SCANNING AND 3D DOCUMENTATION OF RAILROAD TUNNELS IN CROATIA

A - 11. Miroslav Kuburić, Vladimir Jovanović, Aleksandar Bogunović and Miroslav Sićević (Serbia)

GEODETTIC APPLICATION OF MODERN TECHNOLOGY IN THE PLANNING OF URBAN SETTLEMENTS

A - 12. Vladimir Bulatović, Toša Ninkov, Zoran Sušić and Dejan Vasić (Serbia)

INERTIAL NAVIGATION SYSTEM IN SURVEY

A - 13. Dejan Vasić, Vladimir Bulatović, Toša Ninkov and Zoran Sušić (Serbia)

DEVELOPMENT OF 3D TOPOGRAPHIC LAYOUTS FOR THE DESIGN OF RAIN SEWERAGE FOR THE CITY
OF DAMATUR IN NIGERIA

A - 14. Miloš Vojinović, Željko Cvijetinović, Dragan Mihajlović and Nikola Kovačević (Serbia)

LBS FOR FLEET MANAGEMENT - STATUS AND PROSPECTS IN SERBIA

A - 15. Sanja Vavan Vučeljić and Liljana Aleksić (Serbia)

PHOTOVOLTAIC SYSTEMS AS ONE OF THE MAIN CONDITIONS FOR ENERGY EFFICIENCY IN BUILDING SECTOR

A - 16. Sanja Vavan Vučeljić and Liljana Aleksić (Serbia)

CLADDING BUILDING FACADE BY PHOTOADHESIVE MATERIALS COULD PREVENT AIR POLLUTION

A - 17. Biljana Despotović (Serbia)

GEOMETRIC PRECISION OF LASER LEVELS



Hall No 2, Congress Center

12.30 - 14.00

Lunch break

14.00 - 15.00

SESSION B

GEODETTIC INFRASTRUCTURE

B - 1. Oleg Odalović, Jovan Popović, Sanja Grekulović, Miljana Todorović and Ivan Aleksić (Serbia)

GEODETTIC INFRASTRUCTURE OF SERBIA

B - 2. Dragan Blagojević and Violeta Vasilić (Serbia)

STABILITY OF GEODETTIC REFERENCE FRAME OF REPUBLIC OF SERBIA

B - 3. Sašo Dimeski, Mile Varošlieski and Oleg Odalović (Macedonia and Serbia)

A NEW LEVELLING AND GRAVIMETRIC NETWORK OF MACEDONIA

B - 4. Milan Kilibarda and Milutin Pejović (Serbia)

APPLICATION OF OPEN SOURCE/FREE SOFTWARE (R + GOOGLE EARTH) IN DESIGNING 2D GEODETTIC CONTROL NETWORK

B - 5. Zoran Milosavljević and Siniša Delčev (Serbia)

CALIBRATION OF THE RECEIVER TO APPLY GLOBAL POSITIONING SYSTEM TECHNOLOGY - METROLOGICAL INFRASTRUCTURE

B - 6. Gligorije Perović and Zorica Cvetković (Serbia)

PURE - ERROR AND TESTING PROBLEM IN ORBIT DETERMINATION FOR A BINARY STAR



Hall No 2, Congress Center

15.00 - 17.15

SESSION C

GEOINFORMATION

C - 1. Ljerka Rašić and Željko Bačić (Croatia)

GEODETTIC PROFESSION – MOVER OF THE NATIONAL SPATIAL DATA INFRASTRUCTURE DEVELOPMENT

C - 2. Mileva Samardžić Petrović, Marina Nikolić, D. Petrović, Nikola Čakširaš (Serbia)

VOLUME DETERMINATION BY 3D LASER SCANNING METHOD

C - 3. Ivan Landek (Croatia)

DEVELOPMENT OF TOPOGRAPHIC MAP PRODUCTION IN THE SCALE OF 1:25 000 IN CROATIA IN THE PERIOD BETWEEN 1990 AND 2010

C - 4. Dušan Jovanović, Miro Govedarica, Ivan Alargić and Vladimir Pajić (Serbia)

DATA MODELING OF ROAD TRAFFIC IN ACCORDANCE WITH THE INSPIRE DIRECTIVE

C - 5. Jordanka Belić, Maja Aleksić and Miloš Simić (Serbia)

USE OF MICROSTATION IN THE DIGITAL DATA PROCESSING

C - 6. Ivana Djordjević, Dušan Jovanović, Miro Govedarica, Milan Vrtunski (Serbia)

TECHNOLOGY OF ACQUISITION, PROCESSING AND PRESENTATION OF SPATIAL DATA

C - 7. Milivoje Avramović, Željko Cvijetinović, Dragan Mihajlović (Serbia)

DIGITAL CADASTRAL MAP UPDATING STATUS ANALYSIS IN SERBIA

C - 8. Milivoje Avramović, Željko Cvijetinović and Dragan Mihajlović (Serbia)

COMPARISON OF DIGITAL CADASTRAL MAP AREAS IN GAUSS-KRUGER AND UTM PROJECTION

C - 9. Željko Cvijetinović, Dragan Mihajlović, Momir Mitrović and Dragan Smiljanić (Serbia)

THE DEVELOPMENT OF MODERN GIS-BASED DIGITAL PHOTOGRAMMETRIC WORKSTATION

Hall No 3, Congress Center 12.30-14.00 and 15.00 – 16.30
Lunch break 14.00 -15.00

SESSION D

LANDMANAGEMENT AND CADASTRAL SYSTEMS

D - 1. Zdravko Cesarec, Jelena Unger, Željko Bačić (Croatia)

THE ROLE OF CADASTRE IN DEVELOPMENT OF SPATIAL PLANNING SYSTEM IN CROATIA

D - 2. Vanco Gjorgjiev, Gjorgji Gjorgjiev (Macedonia)

LEGALIZATION OF ILLEGAL BUILDINGS, NEED OR MOTIVE

D - 3. Radovan Đurović (Montenegro)

PROCEDURE IMPROVEMENT OF MAINTAINING STATE LAND SURVEY OF REAL ESTATE IN MONTENEGRO

D - 4. Mladen Šoškić, Željko Cvijetinović, Dragan Mihajlović and Momir Mitrović (Serbia)

IMPACT OF NEW TECHNOLOGIES FOR SPATIAL DATA ACQUISITION AND MANAGEMENT ON LAND CONSOLIDATIONS IN SERBIA

D - 5. Miroslav Kuburić (Serbia)

TERRITORIAL UNITS VALUATION AS A BASIS FOR MASS APPRAISAL OF REAL ESTATE MARKET VALUE

D - 6. Pavel Benka (Serbia)

EFFECTS OF RESTRUCTURING OF LAND TERRITORY BY CONSOLIDATION ON THE PLOT SUITABILITY FOR AGRICULTURAL PRODUCTION

D - 7. Vesna Zlatanović-Tomašević (Serbia)

LAND AND ITS ROLE IN SOCIETY

D - 8. Milivoje Avramović, Željko Cvijetinić and Dragan Mihajlović (Serbia)

ANALYSIS OF LEGISLATING INFORMATION LETTERS AND RESOLUTIONS IN DIGITAL CADASTRAL MAP PRODUCTION PROCEDURE IN SERBIA

D - 9. Manojlo Miladinović and Stojanka Branković (Serbia)

DEVELOPMENT OF REAL ESTATE MASS VALUATION CONCEPT IN THE REPUBLIC OF SERBIA

D - 10. Stojanka Brankovic, Lily Parezanovic, Zvonko Trajanović (Serbia)

PROCEDURE OF LAND CONSOLIDATION SUPERVISION

D - 11. Dragica Čvorić (Serbia)

LAND CONSOLIDATION AS A MEASURE OF RURAL AREA ARRANGEMENT

D - 12. Stojanka Brankovic (Serbia)

MODERN ASPECTS OF LAND CONSOLIDATION IN ORGANIZATION AND SPATIAL PLANNING

●●● **Hall No 4, Lobby bar** **12.30 - 14.00 and 15.00 –16.00**
Lunch break **14.00 -15.00**

SESSION E

PERMANENT EDUCATION

E - 1. Branko Božić and Stevan Marošan (Serbia)

LAND LAW AND ECONOMY - NEW MASTER PROGRAM FOR LAND SURVEYORS IN SERBIA

E - 2. Zlatko Srbinoski, Jovan Jovanov and Zlatko Bogdanovski (Macedonia)

BOLOGNA PROCESS IN STUDIES OF GEODESY AT THE FACULTY OF CIVIL ENGINEERING - SKOPJE

E - 3. Dragan Macanović (Bosnia and Herzegovina)

EDUCATION OF HIGHLY SKILLED PERSONNEL IN GEODESY IN THE REPUBLIC OF SRPSKA

E-4. Ivan R. Aleksić, Reinfried Mansberger, Gerhard Muggenhuber, Gerhard Navratil, Toša Ninkov (Austria - Serbia)

ACADEMIC EDUCATION AND CONTINUOUS PROFESSIONAL DEVELOPMENT IN SURVEYING: A REVIEW OF THE SITUATION IN AUSTRIA AND SERBIA

E - 5. Miroljub Milivojčević, Miroslav Marčeta and Slavoljub Tomić (Serbia)

CONTEMPORARY SERBIAN APPLIED HIGHER EDUCATION IN GEODESY

E - 6. Olivera Vasović (Serbia)

EDUCATION OF SURVEYORS ON SPECIALIZED PROFESSIONAL STUDIES ON THE BELGRADE UNIVERSITY COLLEGE OF APPLIED STUDIES FOR CIVIL ENGINEERING AND GEODESY IN THE FIELD OF REAL ESTATE MARKET VALUATION

E - 7. Ljiljana Blagojević (Serbia)

MEDIATING POST-INDUSTRIAL CITY ISSUES AND REALITIES IN THE STUDY PROCESS: INNOVATING ARCHITECTURE DESIGN STUDIO CURRICULA AND TEACHING METHODOLOGY

E - 8. Katarina Jevtić-Novaković and Miloje Simanić (Serbia)

APPLICATION OF NEW DIDACTIC METHODS IN TEACHING DESCRIPTIVE GEOMETRY IN THE EDUCATION OF GEODETIC ENGINEERS

E - 9. Slobodan M. Pandžić and Slavoljub M. Tomić (Serbia)

CURRICULA INNOVATIONS IN THE FUNCTION OF QUALITY IN APPLIED EDUCATION OF SURVEYORS

E - 10. Aleksandra Kostić-Milanović and Goran Ćirović (Serbia)

EDUCATION OF APPLIED GEODESIC ENGINEERS IN THE FIELD OF PROJECT AND INVESTMENT MANAGEMENT

E - 11. Ivan Aleksić, Jelena Gučević, Jovan Popović, Miljana Todorović (Serbia)

PRACTICAL TRAINING IN SURVEYING AT THE DEPARTMENT OF GEODESY AND GEOINFORMATICS OF THE FACULTY OF CIVIL ENGINEERING IN BELGRADE

E - 12. Ljiljana Aleksić (Serbia)

EDUCATION OF STUDENTS IN THE COURSE BASED DESIGN OF HOUSES ON FACULTY OF CIVIL ENGINEERING IN SUBOTICA



Hall No 4, Lobby bar

16.00 – 17.00

SESSION F

KNOWLEDGE TRANSFER

F - 1. Vladeta Colić, Zoran Radmilović, Zagorka Gospavić, Jelena Gucević, Vladislav Maraš, Branko Milovanović (Serbia)

PROGRAM FOR UPGRADING ENVIRONMENT IN BALKANS REGION WITHIN THE PROJECTS FP7 - OBSERVE

F - 2. Marija Božić, Miroslav Kuburić and Branko Božić (Serbia)

THE IMPORTANCE OF THE INTRODUCTION OF QUALITY MANAGEMENT SYSTEM IN SURVEYING COMPANIES

F - 3. Ivana Stanković and Stojanka Branković (Serbia)

INTERNATIONAL COOPERATION AS A REASON FOR THE IMPROVEMENT OF KNOWLEDGE ABOUT INTERCULTURAL MANAGEMENT OF EMPLOYEES IN THE REPUBLIC GEODETIC AUTHORITY

F - 4. Milan Trifković and Žarko Nestorović (Serbia)

KNOWLEDGE TRANSFER IN GEODESY

F - 5. Zoran Jovanović, Zoran Blagojević and Dragana Lazić (Serbia)

GEODETIC TERMINOLOGY IN LAWS AND REGULATIONS

F - 6. Miloš Vojinović, Željko Cvijetinović, Nikola Kovačević, Ivan Pušica (Serbia)

THE DEVELOPMENT OF LOCATION BASED SERVICES FOR FLEET MANAGEMENT





XXIV

Meeting of Serbian Surveyors



MINISTRY OF SCIENCE
AND TECHNOLOGICAL
DEVELOPMENT
REPUBLIC OF
SERBIA



REPUBLIC GEODETIC
AUTHORITY



SERBIAN CHAMBER
OF ENGINEERS



INTERNATIONAL
FEDERATION OF
SURVEYORS



UNIVERSITY OF LJUBLJANA
FACULTY OF NATURAL
SCIENCES AND
ENGINEERING



BELGRADE UNIVERSITY
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STUDIES

