

## GEODETI SREDOZEMLJA U NOVOM TISUČLJEĆU

U organizaciji više povjerenstava Međunarodne udruge geodeta (FIG), na Malti je 18-21. rujna 2000. održan seminar The Mediterranean Surveyor in the New Millennium. Radni dio seminara održan je u novoizgrađenom hotelu Golden Tulip Vivaldi u St. Juliansu, u ambijentu savršeno prilagođenom za kongresni turizam.



*Obilazak Malte*

Za razliku od administrativnog sjedišta La Vallette, St. Julians je turistički i poslovni dio otoka Malte, s modernim hotelima, restoranima, bankama, brojnim i dobro reklamiranim agencijama za prodaju nekretnina kao i drugim sadržajima koji odražavaju sva nastojanja Republike Malte za brzim priključenjem Europskoj uniji. Smješten u središtu Mediterana, malteški arhipelag čine tri naseljena otoka, s ukupnom površinom 316 km<sup>2</sup> (Malta 246, Gozo 67, Comino 3) te dva nenaseljena otoka.

Topla klima, s prosječnom zimskom temperaturom 15 °C, a ljetnom 32 °C, vrlo rijetkim i kratkotrajnim kišnim razdobljima, prirodne su pogodnosti u kojima 380.000 stanovnika stoljećima njeguje svoje bogatstvo: kulturu, povijest i arhitekturu. Nakon 164 godine čvrste povezanosti s Velikom Britanijom, 1964. godine Malta postaje neovisna, a 1974. republika.

Uz okupljanje velikog broja sudionika seminara, cilj organizacijskog odbora bio je aktivnije uključivanje predstavnika zemalja afričkoga kontinenta u rad FIG-a i pružanje mogućnosti gostoljubivom domaćinu da u nacionalnim okvirima ukaže na važnost i značenje najnovijih dostignuća u geodeziji.

U tom je smislu i organizacija seminara povjerena Društvu geodeta Malte, pokrovitelju i glavnom sponzoru. Odlični domaćini, predsjednik društva Randolph Camil-

leri i njegovi suradnici, ispunili su sva očekivanja 120 sudionika seminara iz 34 zemlje Europe, Afrike i Bliskog istoka.

Tehnički program seminara odlično je pripremio i vodio stručni tim u sastavu: Jean-Marie Becker, predsjednik, Mikael Lilje, tajnik, Kirsi Artimo, Denis St Jacques, Michel Mayoud i Paul Munro-Faure.

Pozdravne govore prigodom otvaranja seminara održali su: predsjednik Društva geodeta Malte, predsjednik FIG-a, Ministar za rad i okoliš Vlade Republike Malte.

Tematski su sjednice obuhvatile različita područja:

- The Survey market and profession
- Reports on the Situation for Mediterranean Countries
- Education and Continuous, Professional Development
- Land management and cadastral issues in the Mediterranean region
- Standardisation and Quality Aspects
- Geodetic Networks for Specific applications
- Navigation Safety and Port Infrastructure: charting perspective
- New technical trends
- Special topics

Tijekom sjednica seminara izloženo je pedesetak stručnih radova i nacionalnih izvješća, a središnja je tema zanimljivih rasprava bila uloga i aktivnost geodetskih stručnjaka u novom



Otvaranje simpozija

Osim osnovnih statističkih podataka o hrvatskim otocima, u radu je opisan sustav evidentiranja nekretnina u Republici Hrvatskoj, postojeće stanje katastra i zemljišnih knjiga na otocima, faze provođenja, planirana sredstva, zadaće tijela državne uprave, sudjelovanje privatnih geodetskih tvrtki u programu i način praćenja realizacije Državnog programa.

Budući da je utvrđeno kako će sredstva za provedbu Državnog programa biti osigurana u državnom proračunu Republike Hrvatske, i to tako da će se na posebnim pozicijama Državne geodetske uprave i Ministarstva pravosuđa iskazati sredstva za otoke za razdoblje od 1. siječnja 2000. godine do 31. prosinca 2008. godine te da su nositelji provedbe uređenja katastra i zemljišnih knjiga na otocima nadležni zemljišnoknjižni sudovi i Područni uredi za katastar, iskorištena je jedinstvena prilika da se tako važnom skupu predstave aktivnosti Državne geodetske uprave Republike Hrvatske.

Seminar je završio razgledavanjem povijesnoga grada Mdine, gdje su članovi organizacijskog odbora počašćeni priznanjem "reda malteških vitezova". Prava turistička promidžba, kao i poruke mnogobrojnih turističkih agencija "...s Malte ne odlazite bez osmijeha".

Program seminara:

Technical Session 1: The Survey market and profession

- Paddy Prendergast: CLGE, and its initiative to enhance professional competence of geodetic surveyors in Europe
- Vaclav Slaboch: The evolution of the surveying in the transition countries
- Jean-Marie Becker: The international technical developments and their implications on the Land Surveyors.

Technical Session 2 : Reports on the Situation for Mediterranean Countries

- France: Michel Kasser: The new French policy for Geodesy and Levelling.
- Croatia: Damir Pahic, Zlatko Krpeljević i Miodrag Roić: Cadastre and Land Registration Programme for Croatian Islands
- Turkey: Orhan Altan: State of Art of Geodetic activities in Turkey with special Emphasis on Tectonic Movements Reports on the Situation for Mediterranean Countries

vremenu. U tom smislu donesene su smjernice kojima se uređuje suvremeniji način rada u području obrazovanja, normizacije, inženjerske geodezije, hidrografije, zemljišnih informacija i katastra.

Miodrag Roić, Damir Pahić i Zlatko Krpeljević autori su rada "Cadastre and Land Registration Programme for Croatia Islands", koji se oslanja na Državni program uređenja posjedovne i vlasničkopravne evidencije (katastra i zemljišnih knjiga) na otocima ("Narodne novine" br. 7/00), prezentiranoga u okviru druge tematske sjednice.



prof. Roić izlaže rad

- Syria: Nabil Ashraf: The present situation of the Profession in Syria
- Israel: Joseph Forrai: The present situation for geodetic and surveying activities
- Malta: Randolph Camilleri

#### Technical Session 3A : Education and Continuous, Professional Development

- Kirsi Virrantaus: The role of information technology in Surveyors curriculum
- Pedro J Cavero: Should the Surveying studies be University ones?
- Stig Enemark: Learning to learn – Educational Trends for the New Millennium
- Bohuslav Veverka: History and present situation of the Building and Surveying Engineering
- Arzu Coltekin: Comparing the Nordic Education to the Mediterranean
- Andrzej Hopfer: System of education of surveyors and permanent development of their qualification

#### Technical Session 3B: Land management and cadastral issues in the Mediterranean region

- Ted G. Schut: Post-Time and Real Time Quality Assurance at the Dutch Cadastre
- Gerda Schenah: Cadastral Surveying a Profession without Borderlines?
- Keith Mollon: Reforming Land Registration and Cadastral Organizations in the New Millennium
- Peter Dent: Developments in Land Management training and application in pre-accession countries in / around the Eastern Mediterranean”
- Bob Ashwin: HM Land Registry Current and Future Developments
- Sylvana Spiteri: The Development of Land Registration in Malta

#### Technical Session 4A: Standardisation and Quality Aspects

- H. Heister: The Expression „Uncertainty of Measurement” in Geodetic Metrology
- Rudolf Staiger: Calibration methods for modern survey equipment
- Thomas Lithen: Contracting out – Technical Solutions and Quality Control
- Dominique Missiaen: The LHC Quality Assurance Plan Applied to the Survey Activity
- Sean Hind: Quality and the Hydrographic Profession
- Technical Session 5A: Geodetic Networks for Specific applications
- I.N. Tziavos: The geoid in the Mediterranean – Recent results and future plans
- Simek Jaroslav: Current Global and Regional GPS-Based Services Benefit Research and Practice in Geodesy
- Zuheir Altamimi, Claude Boucher: Relationship between ITRS, ETRS89 and WGS84
- Milev: The Impact of Geodynamic Processes on Geodetic Networks
- Nabel Abdelkader Nadir et al: 2D transformation of GPS co-ordinates into National co-ordinates

#### Technical Session 4B: Navigation Safety and Port Infrastructure: charting perspective

- J. Bianco: Hydrography In Malta
- Ballay i dr.: Towards a Globally Consistent Chart Datum Definition in France
- Seppo Makinen: Zone of Confidence of Hydrographic Data in Hydrographic Information System (HIS) at Finnish Maritime Administration

#### Technical Session 5A: Geodetic Networks for specific Applications

- Ilias N. Tziavos, Greece: The geoid in the Mediterranean- Recent results and future plans.
- Jaroslav Simek: Current global and regional GPS-based services benefit research and practice in geodesy, surveying and geodynamics.
- Zuheir Altamimi: Relationship between ITRF, ETRS 89 and WGS 84

- Mikael Lilje: Considerations and national preparation for the use of a global reference frame in Sweden
- Georgi Milev: The Impact of Geodynamic Processes on Geodetic Networks
- Nabel Abdelkader Nadir et al: 2D transformation of GPS co-ordinates into National co-ordinates

Technical Session 5B: Panel Discussion: The role of the Hydrography in the 21<sup>st</sup> Century

1. Education and Training: The education and training of hydrographers continues to be an important issue for hydrographers. In addition, the role of life-long learning and continuous professional development will be examined. Professional ethics and standards may also be considered.
2. New Technology: The impact of new technology on the hydrographic profession is continually at the forefront of the profession. How can hydrographers keep abreast of new developments in the order to effectively implement them into their daily routine? What is the role of the hydrographer in developing standards? What is the role of the International Standards Organisation?
3. Sustainable Development: The world is becoming more and more aware of the environment and the issues surrounding sustainable development. Many actions are attempting to implement the recommendations of the United Nations Agenda 21. With over 50% of the world's population living within a few kilometres of the sea, hydrographers have a roll to play in moving forward with the implementation of Agenda 21 in marine areas.

Technical Session 6: New technical trends

- Wilhelm Caspary: Kinematic Surveying
- Henrik Vad Jensen: GPS – RTK positioning – the ultimate surveying tool actually.
- Pierre Grüssenmeyer and Omar Al Khalil: A comparison of photogrammetry software packages for the documentation of buildings
- Mohamed Nour El Din, Omar Al Khalil, Pierre Grussenmeyer, Mathieu Koehl: Building reconstruction based on three-dimensional photo-models and topologic approaches
- Rados Sumrada and Marjan Ceh: Spatial data maintenance with field (pen) computers
- Berthold Witte and Bernd Binnenbruck: Present and Future Ways of Determining the effect of vertical Refraction by use of digital surveying instruments

Technical Session 7: Special topics

- Ted G Schut: The Redefinition of Dutch Reference
- Wolfgang Möhlenbrink: Traffic Guidance and Control – Technological Challenges for Geodesy and Geomatics
- Zbigniew Piasek and Andrzej Surowka: Data Analysis for numerical map generation in coastal zones of rivers
- Gianfranco Morocutti: Survey of archaeological park of Dougga – Tunisia
- Michael Möser: 3D Measurements for Quality Control of Locomotives
- Orhan Altan: State of Art of Geodetic Activities in Turkey with Special Emphasize on Tectonic Movements

*Zlatko Krpeljević*