



The 3rd Croatian NSDI and INSPIRE Day and the 7th Cartography and Geoinformation Conference, organized by the Croatian Cartographic Society and the State Geodetic Administration, were held at the Faculty of Civil Engineering, Architecture and Geodesy of the University of Split from September 14 to 16 2011. The co-organizers of the conference were the Faculty of Civil Engineering, Architecture and Geodesy of the University of Split, the Faculty of Geodesy of the University of Zagreb and the Hydrographic Institute of the Republic of Croatia.

The conference was held under the auspices of the Croatian Academy of

ogrammetry and Split-Dalmatia County. The conference partners were Geodetski zavod d.d. Split, the Association for Geospatial Information in South-East Europe, the Split City Tourist Association and the Split-Dalmatia County Tourist Board.

For the third time, an NIPP (National Spatial Data Infrastructure) and INSPIRE (Infrastructure for Spatial Information in the European Community) Day was organized, with the aim of speeding up the implementation of SDI in Croatia, to develop a geo-enabled society. This time, activities in transposing the INSPIRE directive into national legislation were emphasized, as part of the Programme of the Government of the Republic of Croatia for the Adoption and Implementation of the Acquis Communautaire.

Following conferences in Zagreb in 2004, 2005 and 2006, Zadar in 2007, Varaždin in 2009 and Opatija in 2010, the Croatian Cartographic Society, in collaboration with the State Geodetic Administration, organized the seventh conference in Split. The purpose of the conference, as with the preceding ones, was to contribute to the development of geoinformation IT, cartography, geography and related fields, with a special emphasis on SDI.

The conference was attended by 177 participants, including guests from Austria, Bosnia and Herzegovina, Bulgaria, Czech Republic, France, Japan, Hungary, Macedonia, The Netherlands, Germany, Slovenia, Serbia and Sweden. During the two days of the conference, 48 presentations were held.

The Program and Abstracts of the 3rd Croatian NSDI and INSPIRE Day and 7th Cartography and Geoinformation Conference were published in Croatian and English (96 A4 pages). In addition, participants were given a gift pack illustrated with a printed view of Split, containing material contributed by sponsors, maps and tourist guides to Split and Central Dalmatia.

The opening ceremony and presentations on the first day were held in the large lecture room of the Faculty of Civil Engineering, Architecture and Geodesy

of the University of Split. The opening ceremony started with a Dalmatian song performed by the Podvorje *Klapa* singing-group. The participants were addressed by Alen Harapin, Dean of the Faculty of Civil Engineering, Architecture and Geodesy of the University of Split, Miljenko Lapaine, President of the Organizing Committee, Davor Mrduljaš, State Secretary in the Ministry of Environmental Protection, Physical Planning and Construction of the Republic of Croatia and President of the Croatian NSDI Council, Željko Bačić, General Director of the State Geodetic Administration and Bence Torony, General Director of the Institute of Geodesy, Cartography and Remote Sensing (Földmérési és Távérzékelési Intézet – FÖMI) of Hungary.

After the welcome session, the ceremony continued with the signing of the Agreement on the Exchange of Cartographic Materials between the Institute of Geodesy, Cartography and Remote Sensing of Hungary and the State Geodetic Administration of Croatia.

Topical sessions were chaired by Željko Hećimović, Vlado Cetl and Tomislav Ciceli, during which 13 presentations were held, and the agenda closed with remarks by the General Director of the State Geodetic Administration, Željko Bačić. The programme continued with a visit to the Map Archive of Istria and Dalmatia, the Croatian Maritime Museum and the recently-opened Museum of the Hydrographic Institute of the Republic of Croatia. At the end of the first working day, all participants were invited to attend a reception at the Faculty of Civil Engineering, Architecture and Geodesy.

The second day was dedicated to cartography and geoinformation. The President of the Croatian Cartographic Society, Nada Vučetić, addressed the participants. The program continued with keynote lectures, chaired by Miljenko Lapaine:

- Georg Gartner, President of the International Cartographic Association (ICA): *Modern Cartography and the Role of the International Cartographic Association*



Engineering, the Ministry of Environmental Protection, Physical Planning and Construction of the Republic of Croatia, the Ministry of Defence of the Republic of Croatia, the NSDI Council of the Government of the Republic of Croatia and the City of Split. The conference was sponsored by APIS IT d.o.o., Geomatika-Smolčak d.o.o., Gisdata d.o.o., the Hydrographic Institute of the Republic of Croatia, the Institute for Pho-



U organizaciji Hrvatskog kartografskog društva i Državne geodetske uprave 14–16. rujna 2011. održani su na Fakultetu građevinarstva, arhitekture i geodezije Sveučilišta u Splitu *3. hrvatski NIPP i INSPIRE dan i 7. savjetovanje Kartografija i geoinformacije*. Suorganizatori konferencije bili su: Fakultet građevinarstva, arhitekture i geodezije Sveučilišta u Splitu, Geodetski fakultet Sveučilišta u Zagrebu i Hrvatski hidrografski institut.

Pokrovitelji konferencije bili su: Akademija tehničkih znanosti Hrvatske, Ministarstvo zaštite okoliša, prostornog uređenja i graditeljstva Republike Hrvatske, Ministarstvo obrane Republike Hrvatske, Vijeće za NIPP Vlade Republike Hrvatske i Grad Split. Donatori konferencije bili su: Apis IT d.o.o., Geomatika-Smolčak d.o.o., Gisdata d.o.o., Hrvatski hidrografski institut, Zavod za fotogrametriju d.d. i Županija Splitsko-dalmatinska. Partneri konferencije bili su: Geodetski zavod d.d. Split, Association for Geospatial Information in South-East Europe, Turistička zajednica Grada Splita i Turistička zajednica Splitsko-dalmatinske županije.

NIPP (Nacionalna Infrastruktura Prostornih Podataka) i INSPIRE (Infrastructure for Spatial Information in the European Community) dan organiziran je po treći put s ciljem ubrzanja implementacije infrastrukture prostornih podataka u Hrvatskoj i razvoja geoosposobljenog društva, a na ovogodišnjem skupu posebno su istaknute aktivnosti na transpoziciji direktive INSPIRE u hrvatsko zakonodavstvo, koje se odvija u skladu s Programom za preuzimanje i provedbu pravne stečevine Europske unije.

Nakon savjetovanja, 2004., 2005 i 2006., u Zagrebu, savjetovanja 2007. u Zadru, 2009. u Varaždinu te 2010. u Opatiji, sedmo savjetovanje u Splitu organizirano je u suradnji Hrvatskog kartografskog društva (HKD) i Državne geodetske uprave (DGU). Ovim savjetovanjem, kao i prethodnima, željelo se pridonjeti razvoju geoinformatike, kartografije, geografije i srodnih područja, s posebnim naglaskom na infrastrukturu prostornih podataka.

Na konferenciji je sudjelovalo 177 sudionika među kojima su bili i gosti iz

Austrije, Bosne i Hercegovine, Bugarske, Češke, Francuske, Japana, Mađarske, Makedonije, Nizozemske, Njemačke, Slovenije, Srbije i Švedske. U dva dana konferencije izloženo je 48 referata.

Program i sažeci radova *3. hrvatskog NIPP i INSPIRE dana i 7. savjetovanja Kartografija i geoinformacije* objavljeni su dvojezično (hrvatski i engleski) u formatu A4 na 96 stranica. Osim toga svi sudionici konferencije dobili su u vrećici s otisnutom vedutom Splita obilježje propagandnog materijala sponzora te karte i turističke vodiče grada Splita i srednje Dalmacije.

Svečano otvaranje i predavanja prvoga dana konferencije održano je u velikoj predavaonici Fakulteta građevinarstva, arhitekture i geodezije Sveučilišta u Splitu. Otvaranje je započelo dalmatinskom pjesmom u izvođenju klape Podvorje. Prisutnima su se obratili Alen Harapin, dekan Fakulteta građevinarstva, arhitekture i geodezije, Miljenko Lapaine, predsjednik Organizacijskog odbora, Davor Mrduljaš, državni tajnik u Ministarstvu zaštite okoliša, prostornog uređenja i graditeljstva Republike Hrvatske i predsjednik Vijeća NIPP-a, Željko Bačić, ravnatelj Državne geodetske uprave i Benke Torony generalni direktor Instituta za geodeziju, kartografiju i daljinska istraživanja Republike Mađarske.

Nakon pozdravnih poruka skupu, svečani dio nastavljen je potpisivanjem *Sporazuma o razmjeni kartografskog materijala* između Instituta za geodeziju, kartografiju i daljinska istraživanja Republike Mađarske i Državne geodetske uprave Republike Hrvatske.

Radni dio započeo je tematskim sjednicama koje su vodili Željko Hećimović, Vlado Cetl i Tomislav Ciceli u okviru kojih je održano 11 referata, a završio je završnom riječi ravnatelja DGU, Željka Bačića. Konferencija je nastavljena posjetom *Arhivu mapa za Istru i Dalmaciju, Hrvatskom pomorskom muzeju* te novootvorenom muzeju Hrvatskoga hidrografskog instituta. Prvi radni dan završio je domjenkom dobrodošlice u prostorijama Fakulteta građevinarstva, arhitekture i geodezije na koji su bili pozvani svi sudionici.

Drugi dan konferencije, bio je posvećen savjetovanju Kartografija i geoinformacije. Pozdravnu riječ uputila je predsjednica Hrvatskoga kartografskog društva, Nade Vučetić, a slijedila su pozvana predavanja pod vodstvom Miljenka Lapainea i to:

- Georg Gartner, International Cartographic Association (ICA) President: *Suvremena kartografija i uloga Međunarodnoga kartografskog društva*
- Temenoujka Bandrova, President of the Bulgarian Cartographic Association: *3D kartografiranje – koncepti i izazovi*

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- Dušan Petrovič, President of the Section for Cartography of the Slovenian Geodetic Association: *Upotreba podataka dobivenih laserskim skeniranjem iz zraka za osuvremenjivanje topografskih baza podataka i karta*

Nakon kraće stanke odvijala se radionica o infrastrukturi prostornih podataka (IPP) u organizaciji Društva za geoprostorne informacije Jugoistočne Europe (AGISEE). U sklopu radionice održano je pozvano predavanje Ulricha



- Temenoujka Bandrova, President of the Bulgarian Cartographic Association: *Three-Dimensional Mapping – Conceptions and Challenges*
- Dušan Petrovič, President of the Section for Cartography of the Slovenian Geodetic Association: *Use of Airborne Laser Scanning Data for Updating Topographic Maps and Databases*

After a short break, the Spatial Data Infrastructures Workshop, organized by the Association for Geospatial Information in South-East Europe (AGISEE), took place. Ulrich Boes (AGISEE President) gave the keynote lecture: *Spatial Data Infrastructure in South-East Europe-Challenges and Solutions*.

In the afternoon, there were two parallel sessions, chaired by Mirjanka Lechthaler, Ivan Landek, Ivka Kljajić and Dražen Tutić.

Throughout the event, an exhibition of plans and maps of Split and the surrounding area entitled *Split and Dalmatia on Plans and Maps* was on display in the entrance hall of the Faculty of Civil Engineering, Architecture and Geodesy.

The last day of the conference was organized as a professional tour to the island of Vis. The tour started in the Lora military harbour on the Croatian Navy ship *Andrija Mohorovičić*, which carried participants to the island Vis. On the way to Vis, the ship carried out monitoring of the protected ecological and fishing zone of the Republic of Croatia. The first traces of the classical history of the island are in the town of Vis, or Issa, as it was known. It was founded on a previous settlement,

in the early 4th century BC, by the Greek ruler and general, Dionysius of Syracuse, who selected the strategically best natural harbour on the island (the deep bay in the north), which also had freshwater springs. The conference participants visited Fort St. George, built by the British after a victory over France in 1811. They also established the military garrison of Port St. George in Vis Harbour and built several fortifications, such as Bentinck and Robertson Towers, St. George's Tower on the west side of the entrance to the harbour, and Wellington Tower on the east side.

Today, the villas and churches, museums and archaeological parks form a unique historical treasury in Vis. The Museum of Vis, in the Austrian fortress *Gospina batarija* (Garrison of Our Lady), houses the Issa Archaeological Collection, considered the best Hellenist collection in Croatia, and equally valuable, rare, prehistoric artefacts from the Hellenist cistern in Veliko Zlopolje, in the central part of the island. Particularly interesting are finds from a shipwreck in nearby Vela Svitnja Bay: amphorae arranged in several semicircular tiers, recreating the authentic atmosphere below deck on the ships that transported them. In the impressive classical, historical and ethnological collections, the bronze head of the goddess Artemis, which has become the symbol of the museum and classical Vis in general, is worthy of special mention.

The museum visit was followed by in the part of Vis Town known as Kut. The tour then continued to the central part of the island, where we saw the RAF monument, with the view over the Vis Plain, which was used as an airfield

during World War II. Then we went to Komiža and visited the Church of St. Nicholas. Vis Town was established before Komiža. Komiža was first mentioned in 1145 as *Val Comeza* in a Deed of Gift by Prince Petar of Zadar, who ruled the Central Dalmatian islands. The Benedictines from Biševo moved to Vis, to a hill above Komiža, where there was probably already a pre-Romanesque church, and built a church and monastery in the 13th century, dedicated to St. Nicholas. The patron saint of Komiža is St. Nicholas, protector of travellers, sailors and fishermen. The Church of St. Nicholas, known also as 'Muster', is the parish church of Komiža, with a graveyard, and the first fortified church in Dalmatia. The next stop was the Maritime Museum in Komuna Fort, completed in 1592. At the time, the Komuna Fort served as a defence against Turkish invasions and pirate raids.

On returning to the town of Vis, we visited the Lipanović wine-cellar. The wine tasting session ended the programme and in the late evening, the ship returned to port, where a bus was waiting to take passengers to their destinations.

The presentations given by participants and photographs of the conference can be viewed on the web site of the Croatian Cartographic Society (www.kartografija.hr). Finally, we would like to offer our congratulations on the successful organization of the *3rd Croatian NSDI and INSPIRE Day and the 7th Cartography and Geoinformation Conference* and hope many such conferences will be held in the future.

*Marina Rajaković
Vesna Poslončec-Petrić*



Boesa (AGISEE President): *Spatial Data Infrastructure in South-East Europe - Challenges and Solutions.*

Poslijepodnevni dio odvijao se u u dvije paralelne sjednice, čiji su voditelji bili Mirjanka Lechthaler, Ivan Landek, Ivka Kljajić i Dražen Tutić.

Cijelo vrijeme trajanja skupa, u predvorju Fakulteta bila je postavljena izložba karata i planova Splita i okolice pod naslovom *Split i Dalmacija na planovima i kartama.*

Posljednjeg dana konferencije organiziran je stručni izlet na otok Vis. Putovanje je započelo u ratnoj luci Lora na vojnom brodu *Andrija Mohorovičić*, koji je izletnike doveo do otoka Visa. Brod je na svojem putovanju do Visa obavljao kontrolu zaštićenog ekološkog i ribolovnog pojasa RH. Početnu stranicu klasične povijesti otoka okrenuo je grad Vis, odnosno antička Issa. Osnovao ju je na mjestu već postojećeg naselja početkom IV. st. stare ere grčki vladar i vojskovođa Dionizije Sirakuški, strateški izabravši najbolju otočnu prirodnu luku (duboki zaljev na sjeveru) uz to još bogatu izvorima pitke vode. Po dolasku u Vis sudionici konferencije posjetili su britansku tvrđavu Fort Georg, koju su osnovali Britanci nakon pobjede nad Francuzima 1811. godine. Tada su Britanci osnovali vojnu bazu Port St. George u viškoj luci i tu podigli nekoliko utvrda: kule Bentinck i Robertson, zatim St. George na zapadnoj strani ulaza u luku i Wellington na istoku.

Gradske palače i sakralna zdanja, muzeji i arheološki parkovi danas su skupna otočna riznica viškog blaga iz svih povijesnih razdoblja. Tako su u Viškom muzeju, smještenom u austrijskoj utvrdi Gospina batarija, osim Arheološke zbirke Issa, koja slovi za najbogatiju helenističku zbirku u Hrvatskoj, izloženi podjednako dragocjeni, rijetki prapovijesni nalazi te oni iz helenističke cisterne u Velikom Zlopolju u unutrašnjosti otoka. Osobito su interesantni hidroarheološki nalazi s brodoloma u obližnjoj uvali Vela Svitnja: jedinstveno postavljene amfore u nekoliko polukružnih redova sugeriraju posjetitelju autentično ozračje potpalublja broda

kojim su prevožene. Iz impresivne zbirke antičkih, povijesnih i etnoloških izložaka muzeja, vrijednošću se izdvaja brončana glava božice Artemide koja je postala simbolom ove kuće i cjelokupne antičke viške umjetnosti.

Nakon posjeta austrijske utvrde Gospina batarija i muzeja Grada Visa slijedio je ručak u predjelu grada Visa poznatom pod nazivom Kut. Nakon ručka izlet je nastavljen vožnjom prema središnjem dijelu otoka gdje smo posjetili spomenik RAF-u s pogledom na Viško polje na kojem je tijekom II. svjetskog rata bila zračna luka. Vožnja je nastavljena prema Komiži uz posjet crkvi sv. Nikole. Komiža je naselje mlađeg postanka od susjednog grada Visa. Prvi put se spominje 1145. godine kao *Val Comeza* u darovnici zadarskog kneza Petra, koji je vladao srednjodalmatinskim otocima. Benediktinci s Biševa prešli su na Vis te na brežuljku iznad današnje Komiže, gdje se vjerojatno već nalazila predromanička crkva, sagradili crkvu te samostan u XIII. st., posvećen sv. Nikoli. Komiški patron, Sv. Nikola (Mikula), zaštitnik je putnika, pomoraca i ribara. Crkva Sv. Nikole, odnosno Muster župna je i grobišna crkva Komiže i prva crkva – utvrda u Dalmaciji. Nakon posjeta crkvi slijedio je obilazak pomorskog muzeja u tvrđavi Komuna koja je dovršena 1592. godine te je u to doba služila za obranu od turskih osvajanja i gusarskih provala i haranja.

Na povratku prema gradu Visu posjetili smo vinariju Lipanović. Uz degustaciju vina završen je izlet na otoku te je vojni brod u kasnim večernjim satima uplovio u luku Lora, a organizirani je autobus izletnike odveo do njihovih odredišta.

Prezentacije svih sudionika i fotografije s konferencije mogu se pogledati na mrežnim stranicama Hrvatskoga kartografskog društva (www.kartografija.hr). Na kraju želimo čestitati na uspješnoj organizaciji 3. *hrvatski NIPP i INSPIRE dan* i 7. *savjetovanje Kartografija i geoinformacije* te poželjeti još puno takvih konferencija.

Marina Rajaković
Vesna Poslončec-Petrić