

Session Index	A Room 1	B Room 2	C Room 3	D Room 4	E Room 5	F Room 6	G Room 7	H Room 8	I Room 9	J Room 10
1 – Monday 14:45 – 16:00	Geovisual Analytics	Cartographic Design Process	Earthquakes and Landslides	Cartography in Art	Social Mapping	Automated Data Quality Assessment	Eye Movement Analysis	EuroSDR/COST/ICA	Children, Blind, Education, Planetary	
2 – Monday 16:30 – 17:45	Mapping Emotions	Generalisation of Networks 1	Maps and the Internet: General Tasks 1	Neocartography	Map Projections 1	Web and 3D Atlases	ESRI Plenary Session	EuroSDR/COST/ICA	Playing with Maps	
3 – Tuesday 9:15 – 10:30	Quality Assessment and Uncertainty	Map Projections 2	Augmented Reality and Sound	Web Services and GIS	Special Issues in SDI	Cartography for Children	Maps and Security	Atlases	Map Design, Neocartography	
4 – Tuesday 11:00 – 12:15	Environmental Monitoring	Automated Generalisation	Image Processing	Thematic Atlases	Web Mapping Applications	Cartography and Literature	Maps and Society	ISPRS/ICA	Geospatial Analysis	
5 – Tuesday 14:45 – 16:00	VGI: Data Quality and Software	Technologies in Cartographic Education	Historical Expeditions and Maps	National Atlases	4D Cartography	Tactile Cartography for Children	SDI	Art & Cartography	Sustainability	
6 – Tuesday 16:30 – 17:45	Typography and Labelling	History on Maps	Map Perception	SDI	Cartography for People with Disabilities	Mobile Tasks and Applications	Mapping Intangibilities	Mixed Session	Mixed Session	
7 – Wednesday 9:15 – 10:30	Geospatial Analytics 1	Environmental Monitoring	Change Detection	Visualising Time (Animations)	NSDI 1	Technical Issues in Map Production	NMCA	Maps and the Internet	Generalisation	
8 – Wednesday 11:00 – 12:15	Colours in Map Design	Learning to Map	Maps and the Internet: General Tasks 2	Map Classification	Natural Disasters	Planetary Mapping	NMCA	International Map Year	Map Production & Geo-Business	
9 – Wednesday 14:45 – 16:00	Uncertainty Visualisation	VGI: Effects	Image Classification	Map Projection Reconstruction	Maps in Decision Making	Orienteering Maps	NMCA	Open Source Geospatial Techn.	Map & Society	
10 – Wednesday 16:30 – 17:45	Symbols in Map Design	Generalisation 3	Applications in Sustainable Development	User Issues in Map Production	Globes	Analysis of Rural and Urban Structures	Mixed Session	Cognitive Visualisation	Remote Sensing	
11 – Thursday 9:15 – 10:30	Statistical Mapping	Historical Cartographers and Their Work	Generalisation of Networks 2	Usability 1	Rock Depiction and Relief Representation	Cartographic Education 1	Planetary	Geodaten heute und morgen	Data Quality	
12 – Thursday 11:00 – 12:15	Geoanalytics in Urban Management	NSDI 2	The Rhetoric of Maps	3D Cartography	Cartographic Education 2	Disaster Management	Mixed Session	Aus der Arbeit der DGfK-Kommissionen	Ubiquitous Mapping	
13 – Thursday 14:45 – 16:00	Map Design 5	Ontologies and Standards in SDI	User Needs in Map Reading	Usability 2	Applied Issues in Mountain Cartography	Historical Maps	Mixed Session	Sister Cities	History of Cartography	
14 – Thursday 16:30 – 17:45	Geospatial Analytics 2	Accessing Historical Maps	Generalisation 4	Data Enrichment	Hydrological Extreme Events	Web Applications	Mixed Session	Sister Cities	User Issues, Geovisualization, Theoretical Cart.	
15 – Friday 9:15 – 10:30	Reconstruction of Historical Data	Marine and Arctic Data Infrastructure	Toponyms 1	Renewable Energies	Cartography 2013	Remote Sensing	User Needs	Aktuelle Entwicklung in der Atlaskartographie	Early Warning	
16 – Friday 11:00 – 12:15	Geospatial Analytics 3	Toponyms 2	Glaciers in Mountain Cartography	National Thematic Data Bases	Historical Survey and Mapping	Cartographic Learning Environments	Mixed Session	Digit. Techn. In Cartogr. Heritage	Early Warning	

NAME	SURNAME	SESSION
<b>Akinyemi</b>	Felicia	11F
<b>Altic</b>	Mirela	5C
<b>An</b>	Xiaoya	3E
<b>Anand</b>	Suchith	8B
<b>Andrienko</b>	Gennady	5E
<b>Angsüsser</b>	Stephan	7F
<b>Arndt</b>	Jan Erik	13A
<b>Arzu</b>	Coltekin	7D
<b>Asche</b>	Hartmut	1F,
<b>Atkinson</b>	Robert	6D
<b>Azócar</b>	Pablo	6B
<b>Bacova</b>	Radka	3A
<b>Bahr</b>	Thomas	3E
<b>Bakker</b>	Nico	12B
<b>Balciunas</b>	Andrius	7E, 11D
<b>Balzarini</b>	Raffaella	8B
<b>Bandrova</b>	Temenoujka	11F, 12D, 15I/16I (EWCM)
<b>Battersby</b>	Sarah	3D
<b>Bayer</b>	Tomas	9D
<b>Beaumont</b>	Peter	2H (ESRI)
<b>Beconyte</b>	Giedre	6G
<b>Bielecka</b>	Elżbieta	7E
<b>Bildirici</b>	Ibrahim Öztug	1A, 2E
<b>Bláha</b>	Jan Daniel	1E
<b>Bleisch</b>	Susanne	15G
<b>Board</b>	Christopher	5C
<b>Bogacz</b>	Katarzyna	5F
<b>Bortolamiol</b>	Sarah	7B
<b>Bouchard</b>	Dany	6F
<b>Brandl</b>	Stefanie	11H (DKT)
<b>Brázdil</b>	Karel	8G (NMCA)
<b>Breier</b>	Markus	15A
<b>Brewer</b>	Cynthia	4B
<b>Bruggmann</b>	André	9B
<b>Brüngger</b>	Aline	16C
<b>Brus</b>	Jan	1G
<b>Brychtova</b>	Alzbeta	8A
<b>Buchroithner</b>	Manfred	13E, 15I/16I (EWCM)
<b>Buckley</b>	Aileen	7D, 15E
<b>Buttenfield</b>	Barbara	2B, 10F, 11C
<b>Cajthaml</b>	Jiri	9D
<b>Cammack</b>	Rex	6F
<b>Cantou</b>	Jean-Philippe	15F
<b>Caquard</b>	Sébastien	1D

<b>Carvalho di Maio</b>	Angelica	5B
<b>Castreghini de</b>	Adriana	15F
<b>Cerba</b>	Otakar	2C
<b>Charpentier</b>	Christophe	2H (ESRI)
<b>Chen</b>	Xiang	1C
<b>Cheong</b>	Lisa	9A
<b>Chesneau</b>	Elisabeth	14E
<b>Chiang</b>	Yao-Yi	14A
<b>Chias</b>	Pilar	15D
<b>Chilton</b>	Steve	2D,
<b>Ciolkosz-Styk</b>	Agata	6C, 11F
<b>Coetzee</b>	Serena	6D
<b>Colakovic</b>	Milica	10D
<b>Collier</b>	Peter	11B
<b>Cooper</b>	Antony	6D
<b>Corcoran</b>	Paul	12E
<b>Cygan</b>	Marc	2H (ESRI)
<b>Dahinden</b>	Tobias	15D
<b>Davoine</b>	Paule-Annick	8F
<b>de Souza</b>	Beatriz	15D, 16B
<b>Deeb</b>	Rasha	6A
<b>Demaj</b>	Damien	5E
<b>Demarchi</b>	Julio	3D
<b>Demhardt</b>	Imre	5C
<b>Dhieb</b>	Mohsen	10A, 16B
<b>Diez</b>	Dietrich	12H (DKT)
<b>Ding</b>	Linfang	5E
<b>Ditz</b>	Robert	8G (NMCA)
<b>Domajnko</b>	Matevz	13E
<b>Dora</b>	Markus	13H (TT)
<b>Eggert</b>	Daniel	3C
<b>Eide</b>	Øyvind	12C
<b>Eksteen</b>	Sanet	5B
<b>Elmer</b>	Martin	6C
<b>Esen</b>	Omur	3B
<b>Fabrikant</b>	Sara Irina	9E
<b>Fairbairn</b>	David	12E
<b>Fan</b>	Hongchao	11C
<b>Ferland</b>	Yaïves	3F, 12C
<b>Fiedukowicz</b>	Anna	2B
<b>Field</b>	Kenneth	1D, 4G, 6G, 8C
<b>Fonte</b>	Cidália C.	1H (COST)
<b>Foody</b>	Giles	1H (COST)
<b>Forrest</b>	David	15G, 16E
<b>Forster</b>	Martina	11H (DKT)

<b>France</b>	Fenella	11B
<b>Freitas</b>	Maria Isabel	12F
<b>Fritsch</b>	Dieter	2G (EuroSDR), 13D
<b>Fujita</b>	Hideyuki	14F
<b>Gartner</b>	Georg	2F
<b>Gede</b>	Mátyás	9B, 10E, 11G, 13F, 15F
<b>Geisthövel</b>	Roman	11E
<b>Gkadolou</b>	Eleni	13B
<b>Gloor</b>	Thomas	9F, 13A
<b>Gollenstede</b>	Andreas	15H (DKT)
<b>Govorov</b>	Michael	4A
<b>Griffin</b>	Amy	2A,
<b>Guidero</b>	Elaine	6A
<b>Gunko</b>	Maria	10F
<b>Häberling</b>	Christian	16F
<b>Hahmann</b>	Stefan	9B
<b>Hajji</b>	Rafika	12D
<b>Halik</b>	Lukasz	3C
<b>Hanewinkel</b>	Christian	15H (DKT)
<b>Harding</b>	Jenny	13D
<b>Hardisty</b>	Frank	14F
<b>Hauthal</b>	Eva	2A,
<b>Havlicek</b>	Jakub	14B
<b>Hecht</b>	Robert	10C
<b>Hećimović</b>	Željko	15C
<b>Hind</b>	Sam	2I (Playing with Maps)
<b>Hoarau</b>	Charlotte	4H (ISPRS)
<b>Hodgson</b>	Michael	12F
<b>Hoffmann</b>	Karsten	14F
<b>Hopfstock</b>	Anja	9G (NMCA)
<b>Hossain</b>	Md. Imran	3D
<b>Hovenbitzer</b>	Michael	7G (NMCA)
<b>Hruby</b>	Florian	12H (DKT)
<b>Huang</b>	Hai	13D
<b>Huang</b>	Haosheng	2A, 15E
<b>Hurni</b>	Lorenz	4F, 15A
<b>Idrizi</b>	Bashkim	8D
<b>Ieschek</b>	Andrea Lopes	7E
<b>Ingberg</b>	Kari	1F
<b>Iosifescu</b>	Cristina	14F
<b>Iosifescu</b>	Ionut	4E, 8C
<b>Ito</b>	Kaori	1C
<b>Jaara</b>	Kusay	10B
<b>Jahnke</b>	Mathias	4H (ISPRS)
<b>Jakobsson</b>	Antti	9G (NMCA)

<b>Janata</b>	Tomas	5D
<b>Jaquemotte</b>	Ingrid	12H (DKT)
<b>Jedlička</b>	Karel	12D
<b>Jenny</b>	Bernie	3B
<b>Jenny</b>	Helen	7D
<b>Jeziorska</b>	Justyna	14E
<b>Jobst</b>	Markus	7F
<b>Jordão</b>	Barbara	5F
<b>Jozwik</b>	Katarzyna	16D
<b>Kähkönen</b>	Jaakko	16F
<b>Karimipour</b>	Farid	5A
<b>Katumba</b>	Samy	3E
<b>Käuferle</b>	Dominik	4B
<b>Kaufmann</b>	Viktor	16C
<b>Kaufmann-</b>	Armelle	2A
<b>Kennelly</b>	Patrick	13E
<b>Kent</b>	Alexander	13A
<b>Kerle</b>	Norman	1H (COST)
<b>Kharchi</b>	Tahar	8D
<b>Khaybrakhmanov</b>	Timur	7B
<b>Kinkeldey</b>	Christoph	9E
<b>Klammer</b>	Ralf	10B
<b>Knies</b>	Jürgen	15D
<b>Knust</b>	Claudia	12D
<b>Koarai</b>	Mamoru	7B
<b>Köbben</b>	Barend	5D
<b>Koblet</b>	Thomas	4D
<b>Koch</b>	Wolf Günther	11B
<b>Konecny</b>	Milan	15I/16I (EWCM)
<b>Korpi</b>	Jari	10B
<b>Kostanski</b>	Laura	1F, 13B
<b>Koussoulakou</b>	Alexandra	13F
<b>Koziel</b>	Zenon	6C
<b>Krassanakis</b>	Vassilios	1G
<b>Krätzschar</b>	Elke	9C
<b>Kremers</b>	Horst	15I/16I (EWCM)
<b>Krisp</b>	Jukka	2D
<b>Kriz</b>	Karel	13E
<b>Kröger</b>	Johannes	8A
<b>Krüger</b>	Tobias	7A
<b>Kühn</b>	Oliver	2H (ESRI)
<b>Kunze</b>	Carola	5A
<b>Künzler</b>	Reto	8G (NMCA)
<b>Kuparinen</b>	Liisa	11D
<b>Kveladze</b>	Irma	13D

<b>Laakso</b>	Mari	6E
<b>Lazarev</b>	Evgeniy	8F
<b>Leal de Menezes</b>	Paulo Márcio	11B, 14E, 15B, 16B
<b>Lecordix</b>	Francois	8G (NMCA)
<b>Lehmann</b>	Christine	6A
<b>Leitner</b>	Michael	8E
<b>Liebenberg</b>	Elri	16E
<b>Lienert</b>	Christophe	4A
<b>Liu</b>	Gang-Jun	12A
<b>Liu</b>	Xiaoyan	6F
<b>Lorenz</b>	Katharina	7B
<b>Losang</b>	Eric H.	13F, 15H (DKT)
<b>Lu</b>	Min	6F
<b>Lübker</b>	Tillmann	7E, 15B
<b>Lysák</b>	Jakub	11E
<b>Mas</b>	Jean-Francois	4A
<b>Matthias</b>	Ekkehard	13H (TT)
<b>McClean</b>	Kate	6G
<b>Medvedev</b>	Andrey	3C, 16F
<b>Mersey</b>	Janet	1D
<b>Midtbø</b>	Terje	9F
<b>Mishra</b>	Niti	4C
<b>Mo</b>	Bin (owen)	4E, 10C
<b>Moellering</b>	Harold	7A, 13H (TT)
<b>Mokre</b>	Jan	10E
<b>Möller</b>	Matthias	11H (DKT)
<b>Mooney</b>	Peter	2G (EuroSDR)
<b>Morley</b>	Jeremy	2G (EuroSDR)
<b>Mozas Calvache</b>	Antonio	7A
<b>Mu</b>	Lingli	11G
<b>Muehlenhaus</b>	Ian	12C
<b>Muhs</b>	Sebastian	10F
<b>Munteanu</b>	Alina	11A
<b>Murad-Al-Shaikh</b>	Makram	8B
<b>Myridis</b>	Myron	13B
<b>Nakos</b>	Byron	13C
<b>Naß</b>	Andrea	8F
<b>Ng-Chan</b>	Taien	4F
<b>Nguyen</b>	Duy	1C
<b>Niedzielski</b>	Tomasz	4A, 14H (TT)
<b>Niroumand Jadidi</b>	Milad	4C
<b>Nissen</b>	Flemming	9G (NMCA)
<b>Nontasiri</b>	Jatuporn	9C
<b>Nossum</b>	Alexander	8D
<b>Nyrtsov</b>	Maxim	2E

<b>Olga</b>	Shalashova	9D
<b>Ooms</b>	Kristien	15G
<b>Opach</b>	Tomasz	8E
<b>Opatřilová</b>	Irena	16A
<b>Ormeling</b>	Ferjan	16E
<b>Östman</b>	Anders	13B
<b>Ovtracht</b>	Nicolas	10C
<b>Owusu-Banahene</b>	Wiafe	4E
<b>Palka</b>	Gaëtan	4H (ISPRS)
<b>Panchaud</b>	Nadia	2F
<b>Pánek</b>	Jiří	1E, 2F
<b>Pannasch</b>	Sebastian	1G
<b>Papakonstantinou</b>	Apostolos	3C
<b>Perkins</b>	Chris	2I (Playing with Maps)
<b>Peters</b>	Stefan	1A, 12E
<b>Peterson</b>	Michael	2C
<b>Petrovič</b>	Dužan	9F
<b>Piatti</b>	Barbara	4F
<b>Pieczonka</b>	Tino	16C
<b>Pillich-Kolipińska</b>	Agata	12B
<b>Piovan</b>	Silvia	6B
<b>Pippig</b>	Karsten	11D
<b>Pödör</b>	Andrea	11F
<b>Polidori</b>	Laurent	3A
<b>Popelka</b>	Stanislav	4H (ISPRS)
<b>Pretorius</b>	Erika	9C
<b>Pridal</b>	Petr	2C
<b>Pucher</b>	Alexander	1D
<b>Püß</b>	Ulrich	7G (NMCA)
<b>Putrenko</b>	Viktor	3D
<b>Pyysalo</b>	Ulla	1B
<b>Qi</b>	Qingwen	5D
<b>Rajakovic</b>	Marina	9D
<b>Ramzi</b>	Ahmed	7C
<b>Raposo</b>	Paulo	1B
<b>Rautenbach</b>	Victoria	5B
<b>Raz</b>	Oren	4D
<b>Reinermann-</b>	Anja	9E
<b>Ren</b>	Fu	1C, 7F, 8C
<b>Ren</b>	Na	3G
<b>Renard</b>	Jérémy	11C
<b>Resch</b>	Bernd	5E
<b>Reyes Nunez</b>	Jose Jesus	3F
<b>Rezník</b>	Tomáš	6E, 15I/16I (EWCM)
<b>Ribeiro</b>	Waldirene	3F, 5F

<b>Rice</b>	Matthew	6E
<b>Rickenbacher</b>	Martin	13B
<b>Riedl</b>	Andreas	4G, 10E
<b>Robbi Sluter</b>	Claudia	8D, 15G
<b>Robinson</b>	Anthony	10A
<b>Rodionova</b>	Zhanna	10E
<b>Rodrigues Tavares</b>	João	4C
<b>Rönneberg</b>	Mikko	13D
<b>Roth</b>	Robert	2C
<b>Ruas</b>	Anne	10C, 15A
<b>Rufino Atkocius</b>	Felipe	9E
<b>Rystedt</b>	Bengt	8H (IMY)
<b>Sack</b>	Carl	9B
<b>Samsonov</b>	Timofey	4B
<b>Savrič</b>	Bojan	2E
<b>Schaab</b>	Gertrud	8B
<b>Schiewe</b>	Jochen	9A
<b>Schinke</b>	Ulrike	10F
<b>Schmidt</b>	Manuela	8C
<b>Schmidt</b>	Marcio	13C
<b>Schmitz</b>	Peter	3G
<b>Schulte</b>	Bennet	14B
<b>See</b>	Linda	1H (COST)
<b>Sekkour</b>	Khadidja	13D
<b>Sen</b>	Alper	2B,
<b>Sester</b>	Monika	10B, 11H (DKT)
<b>Shenghua</b>	Xu	13D
<b>Shupe</b>	Scott	15F
<b>Šidlichovský</b>	Pavel	16D
<b>Sieber</b>	René	2F, 15H (DKT)
<b>Siemer</b>	Julia	11A
<b>Sim</b>	Sunhui	8E
<b>Simó</b>	Benedek	15D
<b>Sinvula</b>	Kisco	12B
<b>Skalicka</b>	Iveta	16D
<b>Skupin</b>	Andre	3E
<b>Smith</b>	Jennifer	9A
<b>Smith</b>	Richard	1B
<b>Smith</b>	Roger	13A
<b>Soukup</b>	Lubomir	15A
<b>Sousa Barros De</b>	Iomara	3F
<b>Specht</b>	Sebastian	7A
<b>Srebro</b>	Haim	4G, 5D
<b>Stachon</b>	Zdenek	6C
<b>Stark</b>	Hans-Jörg	12A

<b>Stevens</b>	Joshua	10A
<b>Strobl</b>	Joseph	13H (TT)
<b>Strode</b>	Georgianna	11A
<b>Szombara</b>	Stanisław	13C
<b>Taylor</b>	Fraser	1E, 15B
<b>Thatcher</b>	Jim	15E
<b>Thiel</b>	Sebastian	4G
<b>Thierbach</b>	Cornelia	11D
<b>Török</b>	Zsolt Győző	6B
<b>Touya</b>	Guillaume	4B, 5A
<b>Traurig</b>	Michal	16D
<b>Tsorlini</b>	Angeliki	10D, 13F
<b>Tsoulos</b>	Lysandros	3A
<b>Tsvyatkova</b>	Silvia	12F
<b>Turner</b>	Andrew	2D,
<b>Ungvári</b>	Zsuzsanna	16A
<b>Urban</b>	Tomislav	3B
<b>van der Vegt</b>	Haico	9G (NMCA)
<b>van Gassel</b>	Stephan	8F
<b>van Goethem</b>	Arthur	13C
<b>Vatin</b>	Gabriel	1A,
<b>Vatseva</b>	Rumiana	7C
<b>Vaughan</b>	Laurene	2D
<b>Verhoeff</b>	Nanna	2I (Playing with Maps)
<b>Vondráková</b>	Alena	10D, 13C
<b>Vozenilek</b>	Vit	4D, 7C
<b>Wakabayashi</b>	Yoshiki	13C
<b>Wang</b>	Tao	16A
<b>Wei</b>	Yongjun	10A
<b>Welter</b>	Jeff	11E
<b>Weninger</b>	Beate	8A
<b>Wesson</b>	Christopher	1B
<b>Westcott</b>	Bruce	13B
<b>Wheate</b>	Roger	16C
<b>Williams</b>	Shaun	12A
<b>Wilmott</b>	Clancy	2I (Playing with Maps)
<b>Wolodtschenko</b>	Alexander	15H (DKT)
<b>Wondrak</b>	Stephan	11G
<b>Wu</b>	Changbin	14A
<b>Wu</b>	Xiaojing	1A
<b>Yang</b>	Sen-Hao	5C
<b>Yang</b>	Xiaojun	4C
<b>Ye</b>	Xinyue	4E
<b>Zagrebin</b>	Gleb	3B
<b>Závodský</b>	Ondřej	15C

<b>Zentai</b>	László	9F, 12E, 16E
<b>Zhang</b>	De	14A
<b>Zhang</b>	Xiang	13C
<b>Zhao</b>	Junqiao	1F
<b>Zhao</b>	Xi	3A, 16A
<b>Zhu</b>	Chang Qing	3G
<b>Zhu</b>	Rui	12A
<b>Zihan</b>	M	2G (EuroSDR)
<b>Zinchuk</b>	Liudmila	6B
<b>Zsoldi</b>	Katalin	14A
<b>Župan</b>	Robert	16D

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## Auswahl an Präsentationen mit Bezug zum deutschsprachigen Raum

Donnerstag und Freitag

J.G. Lehmann's System of Slope Hachures - An Investigation on the Quality of Relief Representation at the Beginning of the 19th Century <b>Koch, Wolf Günther (Dresden University of Technology, Institute for Cartography)</b>	11 B	
The Waldseemüller Map - A Gift of Germany to the World <b>France, Fenella (Library of Congress, Preservation Research and Testing Division)</b>	11 B Keynote	
<b>Towards Automating Swiss Style Rock Depiction</b> <b>Geisthövel, Roman (ETH Zürich, Institute of Cartography and Geoinformation)</b>	11 E	
First Resume of the New International Master of Science in Cartography <b>Peters, Stefan (Technical University Munich, Cartography LfK)</b>	12 E	 
Comparative Analysis of Historical Maps from Canton of Zurich - Switzerland in an Interactive Online Platform <b>Tsorlini, Angeliki (ETH Zurich, Institute of Cartography and Geoinformation, Department of Civil, Environmental and Geomatic Engineering)</b>	13 F	
Karten von Attika: A Major German Contribution to Greek Cartographic Heritage and Its Digital Approach. <b>Koussoulakou, Alexandra (Aristotle University of Thessaloniki, Cadastre, Photogrammetry and Cartography)</b>	13 F	
Unveiling Historical Maps - The Interdisciplinary Atlas of Geopolitical Imaginaries of East Central Europe <b>Losang, Eric (Leibniz Institute for Regional Geography, Geovisualisation)</b>	13 F	 
Journeys Through Time with the Swiss National Map Series <b>Rickenbacher, Martin (Federal Office of Topography swisstopo)</b>	14 B	
Georeferencing of the Third Military Survey of Austrian Monarchy <b>Soukup, Lubomír (Research Institute of Geodesy, Topography, and Cartography, ODIS)</b>	15 A	
EnerGeoPlan – Power System Aware Planning of Renewable Energies <b>Knies, Jürgen (OFFIS, Energy)</b>	15 D	  
Gaining Better Geospatial Knowledge About the Marine Biodiversity by Using Harmonized Data Models, Adequate Cartographic Visualizations and by Providing Easy Access <b>Lübker, Tillmann (German Federal Agency for Nature Conservation, Marine and Coastal Nature Conservation)</b>	15 B	
Documentation of the Glacier Retreat in the Eastern Part of the Granatspitz Mountains (Austrian Alps) Using Aerial Photographs for the Time Period 2003-2009 <b>Kaufmann, Viktor (Graz University of Technology, Institute of Remote Sensing and Photogrammetry)</b>	16 C	
Interactive 3D-Visualisation of Glacier Changes Based on the Swiss World Atlas Interactive <b>Brüngger, Aline (Institute of Cartography and Geoinformation, ETH Zurich)</b>	16 C	
The Web-Based Swiss World Atlas Interactive: First Evaluation of User Experiences in Modern Geography Education <b>Haerberling, Christian (Institute of Cartography and Geoinformation, ETH Zurich)</b>	16 F	

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# Opening Ceremony

Monday, August 26 2013

10:30 – 12:15

*Room XXX*

## Opening Ceremony

*Welcome Addresses:*

*ICA President*

*Rep. Of Prime Minister of Saxony*

*Rector TUD*

*Sister Societies*

*Lena Halounova (ISPRS 2016 Prague)*

*Video Presentation*

*Germany*

*Musical Arrangements*

# Plenary Keynote

Monday, August 26 2013

14:00 – 14:45

Room XXX

## Plenary Keynote

*Web Maps, Story Maps and Trends in Underlying Geospatial Technologies*

*Dangermond, Jack (ESRI)*

*Commission Reports:*

- *Commission on Open Source Geospatial Technologies*
  - *Commission on Maps and the Internet*
  - *Commission on Map Projections*
    - *Commission on Atlases*

Monday, August 26 2013

14:45 – 16:00

Room XXX

# Session 1 A

## Geovisual Analytics

*Chair:*

***Visual Discovery of Synchronization in Weather Data at Multiple Temporal Resolutions***

*Wu, Xiaojing (University of Twente, Geo-Information Processing)*

***Visual Analysis of Lightning Data Using Space-Time-Cube***

*Peters, Stefan (Technical University Munich, Cartography LfK)*

***Developing A Geovisual Analytics Environment for Investigating Vertical Movements of Konya Closed Basin***

*Bildirici, Ibrahim Oztug (Selcuk University, Geomatics Engineering)*

***Geovisual Analytics for Maritime Surveillance: Proposing the Most Suitable Methods for the Users***

*Vatin, Gabriel (Mines ParisTech, CRC)*



Monday, August 26 2013

14:45 – 16:00

Room XXX

# Session 1 B

## Cartographic Design Process

*Chair:*

***Ordnance Survey's Cartographic Design Principles: An Approach to Promoting Good Map Design***

*Wesson, Christopher (Ordnance Survey, Cartographic Design & Development)*

***Partial Automation of the Cartographic Design Process***

*Smith, Richard (Texas A&M University - Corpus Christi, School of Engineering and Computing Sciences)*

***Visual Highlighting of Outliers in Spatio-Temporal Data***

*Pyysalo, Ulla (Finnish Geodetic Institute, Geoinformatics and Cartography)*

***Guidelines for Consistently Readable Topographic Vectors and Labels with Toggling Backgrounds***

*Raposo, Paulo (Penn State University, Department of Geography)*

Monday, August 26 2013

14:45 – 16:00

Room XXX

# Session 1 C

## Earthquakes and Landslides

*Chair:*

***Earthquake Shelter Planning with Consideration of Evacuation Hierarchy***

*Chen, Xiang (The Ohio State University, Geography)*

***Finding the Way and Obtaining the Route Map Information to Go Back Home During a Natural Disaster: A Case of Greater Tokyo Metropolitan Area at the Time of the Great East Japan Earthquake***

*Ito, Kaori (Tokyo University of Science, Architecture)*

***Landslide Susceptibility Mapping Along the National Road 32 of Vietnam Using GIS-Based J48 Decision Tree Classifier and Its Ensembles***

*Nguyen, Duy Ba (Hanoi University of Mining and Geology, Faculty of Surveying and Mapping)*

***Slope Units-Based Landslide Susceptibility Mapping Using Support Vector Machine in the Three Gorges, China***

*Ren, Fu (Wuhan University, School of Resource and Environmental Science)*

Monday, August 26 2013

14:45 – 16:00

Room XXX

Session 1 D

## **Cartography in Art**

*Chair:*

***Paper Maps Go Under the Knife: The Work of Three Contemporary  
Map Collage Artists***

*Mersey, Janet (University of Guelph, Geography)*

***Geographic Space in Museums – Evaluation and Representation of  
Geographic Space Within a Numismatic Exhibition***

*Pucher, Alexander (University of Vienna, Department of Geography  
and Regional Research)*

***A Cinematographic Cartography of the Imaginary Montreal***

*Caquard, Sébastien (Concordia University, Geography, Planning &  
Environment)*

***Zen and the Art of Cartography***

*Field, Kenneth (Esri Inc)*

Monday, August 26 2013

14:45 – 16:00

Room XXX

# Session 1 E

## Social Mapping

Chair:

***Cultural Aspects of Cartographic Creation: Use of Mental Maps in Cross-Cultural Research***

*Bláha, Jan Daniel (J. E. Purkyne University in Ústí nad Labem, Department of Geography)*

***Challenges in Mapping Traditional Knowledge in Canada's North***  
*Taylor, D. R. Fraser (Carleton University, Geomatics & Cartographic Research Centre, Department of Geography and Environmental Studies)*

***Participatory Mapping as a Tool for Community Empowerment – A Case Study of Community Engagement in Koffiekraal, South Africa.***

*Pánek, Jiří (Palacky University in Olomouc, Department of Development Studies)*

Monday, August 26 2013

14:45 – 16:00

Room XXX

Session 1 F

## Automated Data Quality Assessment

Chair:

***An Automated Geospatial Datafilter to Generate optimal Geographic Information: A Novel Approach In spatial Data Mining***

*Asche, Hartmut (University of Potsdam, Geoinformation Group, Department of Geography)*

***Variability of Country Names and Identifiers in Datasets – Reconciling Practical and Cultural Perspectives***

*Kostanski, Laura (Commonwealth Scientific and Industrial Research Organisation, Mathematics, Informatics and Statistics)*

***Large Scale Map Data Contents and End User Needs: Do They Meet? – Case: City of Helsinki***

*Ingberg, Kari (City of Helsinki, City Survey Department)*

***A Framework for the Automatic Geometric Repair of CityGML Models***

*Zhao, Junqiao (Delft University of Technology, Department of GIS Technology, OTB Research Institute)*

*Ingberg, Kari => nur Montag*

Monday, August 26 2013

14:45 – 16:00

Room XXX

# Session 1 G

## Eye Movement Analysis

Chair:

***Investigating Dynamic Variables with Eye Movement Analysis***

*Krassanakis, Vassilios (National Technical University of Athens, Rural and Surveying Engineering)*

***Commonalities and Differences in Eye Movement Behavior when Exploring Aerial and Terrestrial Scenes***

*Pannasch, Sebastian (Technische Universität Dresden, Department of Psychology)*

***Uncertainty Visualization: An Eye-Tracking Study on Spatial Data Quality***

*Brus, Jan (Palacky University in Olomouc, Department of Geoinformatics)*

# EuroSDR/COST/ICA

**Monday, August 26 2013**

14:45 – 16:00

*Room XXX*

***COST***

*Chair: Giles Foody*

***Mapping and the Citizen Sensor: COST Action TD1202***

*Foody, Giles*

***Managing and Acquiring Volunteered Geographic Information***

*See, Linda*

***Understand and influencing contributors***

*Kerle, Norman*

***Map Production***

*NN*

***Map Evaluation***

*Fonte, Cidalia*

Monday, August 26 2013

16:30 – 17:45

Room XXX

Session 2 A

## Mapping Emotions

Chair:

***Applying Visual Analytics Methods for Mapping Emotions Felt  
Along Daily Trips***

*Kaufmann-Couillet, Armelle (TheMA Laboratory-UFR SLHS-University  
of Franche-Comté, Doubs)*

***Detection, Analysis and Visualisation of Georeferenced Emotions***

*Hauthal, Eva (Dresden University of Technology, Institute for  
Cartography)*

***Acquisition and Cartographic Applications of Subjective Geodata***

*Huang, Haosheng (Vienna University of Technology, Department of  
Geodesy and Geoinformation)*

***Emotions: An Undertheorized Dimension of Map Cognition?***

*Griffin, Amy (University of New South Wales, Canberra, School of  
Physical, Environmental and Mathematical Sciences)*



Monday, August 26 2013

16:30 – 17:45

Room XXX

## Session 2 B

### **Generalisation of Networks 1**

*Chair:*

***Determining Weights of Parameters in Generalisation of River Network***

*Sen, Alper (Yildiz Technical University, Geomatic Engineering)*

***Integration Metrics for Cartographic Generalization: Assessment of 1:1,000,000 Scale Hydrography and Terrain***

*Buttenfield, Barbara P. (University of Colorado, Geography)*

***Fuzzy Generalization Inference System - The Example of Selection Parameterization for Roads and Hydrographic Network***

*Fiedukowicz, Anna (Warsaw University of Technology, Department of Cartography)*

Monday, August 26 2013

16:30 – 17:45

Room XXX

# Session 2 C

## Maps and the Internet: General Tasks 1

*Chair:*

### *Taking Cartography into the Cloud*

*Peterson, Michael (University of Nebraska at Omaha,  
Geography/Geology)*

### *A Process for Assessing Emergent Web Mapping Technologies*

*Roth, Robert (UW-Madison, Geography)*

### *Scalable Vector Graphics – Web Standard for Cartography*

*Čerba, Otakar (University of West Bohemia, Department of  
mathematics)*

### *TileServer: Extremely Fast, Free and Open-Source OGC WMTS Server for Pre-Rendered Tiles*

*Pridal, Petr (Klokan Technologies GmbH)*

Monday, August 26 2013

16:30 – 17:45

Room XXX

Session 2 D

## Neocartography

Chair:

### *Is There a New Cartography?*

*Chilton, Steve (Middlesex University, Centre for Learning and Teaching Enhancement)*

### *Neocartography and the Social Web*

*Turner, Andrew (Esri, DC R&D Center)*

### *Collaborative Mapping: A Collective Methodology for Encountering And Documenting an Unfamiliar Cityscape*

*Vaughan, Laurene (RMIT University, Media and Communication)*

### *Mobile Crowd Mapping*

*Krisp, Jukka (Technical University Munich (TUM), Cartography)*

Monday, August 26 2013

16:30 – 17:45

Room XXX

## Session 2 E

### Map Projections 1

Chair:

***Jacobi Conformal Projection of the Triaxial Ellipsoid. Mathematics and Mapping***

*Nyrtsov, Maxim (Moscow State University of Geodesy and Cartography (MIIGAiK), Department of Geography)*

***The Use of Map Mashups in Map Projection Education***

*Bildirici, Ibrahim Oztug (Selcuk University, Geomatics Engineering)*

***Extending Adaptive Composite Map Projections with Wagner's Transformation Method***

*Šavrič, Bojan (Oregon State University, College of Earth, Ocean, and Atmospheric Sciences)*

Monday, August 26 2013

16:30 – 17:45

Room XXX

## Session 2 F

### **Web and 3D Atlases**

*Chair:*

***Evaluating the Suitability of Web 2.0 Technologies for Online Atlas  
Access Interfaces***

*Gartner, Georg (Vienna University of Technology, Department of  
Geoinformation and Cartography)*

***The Power of 3D Real-Time Visualization in Atlases – Concepts,  
Techniques, and Implementation***

*Sieber, René (Institute of Cartography and Geoinformation; ETH  
Zurich)*

***Service Driven 3D Atlas Cartography***

*Panchaud, Nadia (Institute of Cartography and Geoinformation, ETH  
Zurich)*

***Web Atlas Technology as a Tool of Czech Official Development  
Assistance***

*Pánek, Jiří (Palacky University in Olomouc, Department of  
Development Studies)*

# **EuroSDR/COST/ICA**

**Monday, August 26 2013**

16:30 – 17:45

*Room XXX*

## **EuroSDR Welcomes Crowd-Sourced Mapping**

*Chair: Dieter Fritsch*

### ***EuroSDR and Volunteered Geographic Information***

*Fritsch, Dieter*

### ***The Joint AGILE/EuroSDR Project on Crowd-Sourced Mapping***

*Mooney, Peter and Morley, Jeremy*

### ***The OSM-GB Project: Data Analysis, Data Quality and Web Service***

*Morley, Jeremy*

### ***Understanding the Activity of Contributors to VGI Projects. How, Why, Where, and When Do They Contribute Geographic Information?***

*Mooney, Peter*

### ***Conflation of National Mapping and Crowd-Sourced Data – A Comparison of Two Different Approaches***

*Zihan, M*

# ESRI Plenary

**Monday, August 26 2013**

16:30 – 17:45

Room XXX

## **Compilation and Collaboration Models for Global Digital Maps**

*Chair: Mark Cygan ???*

*Today's businesses and citizens have grown to depend on an up-to-date, authoritative digital map with global to neighborhood coverage. The digital / internet age presents lots of technology and practices to compile such a map. Currently a number of organizations are effectively running billion-dollar experiments to discover the best combination of compilation and collaboration practices to maintain reliable and useful maps. In this panel, representatives of three such organizations discuss the techniques and methods they've used to compile and publish global digital maps.*

**Panel:**

*Kühn, Oliver (Open Street Map Foundation)*

*Beaumont, Peter (Nokia / Navteq)*

*Charpentier, Christophe (Esri Inc)*

# Playing with Maps

**Monday, August 26 2013**

16:30 – 17:45

Room XXX

## **Playing with Maps**

*Chair: Chris Perkins*

***Playful Mapping: The Potential of a Ludic Approach to Cartography***

*Perkins, Chris (University of Manchester, Geography, SED)*

***The Casual Turn: Politics, Play and Mapping***

*Hind, Sam (University of Warwick, Centre for Interdisciplinary Methodologies)*

***You Are Here! Playful Mapping, Haptic Navigation and a Cartography of Layers***

*Verhoeff, Nanna (Utrecht University, Departement for Media and Culture Studies)*

***Mapping the City, Playing the City: Location-Based Apps as Navigational Interfaces.***

*Wilmott, Clancy (University of Manchester, School of Environment and Development)*



# Plenary Keynote

**Tuesday, August 27 2013**

8:30 – 9:15

*Room XXX*

## Plenary Keynote

### ***3D Spatial Monitoring of Marine Animals: Real-time and Archival Systems***

*Priede, Imants G. (University of Aberdeen, Oceanlab)*

#### *Commission Reports:*

- *Commission on Geospatial Analysis and Modeling*
  - *Commission on Cartography and Children*
- *Commission on Mapping from Remote Sensor Imagery*
- *Commission on Maps and Graphics for Blind and Partially Sighted People*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

# Session 3 A

## Quality Assessment and Uncertainty

*Chair:*

### ***Uncertainty Modeling of Glacier Mapping and Morphology Estimation, in Arctic***

*Zhao, Xi (Wuhan University, Chinese Antarctic Center of Surveying and Mapping)*

### ***The Certainty of Landscape Degradation?***

*Bacova, Radka (Masaryk University, Faculty of Science, Department of Geography)*

### ***Map Quality Assessment – Groundwork and Implementation Approach***

*Tsoulos, Lysandros (National Technical University of Athens, Surveying Engineering)*

### ***Digital Elevation Model Quality Assessment with No Ground Control***

*Polidori, Laurent (CNAM, L2G)*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

Session 3 B

## Map Projections 2

*Chair:*

***Rendering Vector Geometry with Adaptive Composite Map Projections***

*Jenny, Bernhard (Oregon State University, College of Earth, Ocean, and Atmospheric Sciences CEAOS)*

***Developing PAMS – A Paleolocation Mapping Service***

*Urban, Tomislav (Pennsylvania State University, Geography)*

***HEALPix Mapping Technique and Cartographical Application***

*Esen, Omur (Selcuk University, Construction Offices Presidency)*

***Atlas of Map Projections: The Technology of Creation on the Basis of Program-Analytical Complex***

*Zagrebin, Gleb (Moscow State University of Geodesy and Cartography, Science and Education Center of Geoinformation Mapping)*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

Session 3 C

## Augmented Reality and Sound

*Chair:*

***Augmented Reality Visualization of Archeological Data***

*Eggert, Daniel (Leibniz Universität Hannover, Institut für Kartographie und Geoinformatik)*

***The Perception of Information Conveyed by Graphic Variables Building Point Signatures in The Augmented Reality System on Mobile Devices***

*Halik, Łukasz (Adam Mickiewicz University in Poznań, Poland, Department of Cartography and Geomatics)*

***«3D Geovisualisation of Noise and Visual Impact of a Proposed Wind Farm Development Using a GIS Based Visual-Acoustic 3D Simulation»***

*Papakonstantinou, Apostolos (Aegean University, Geography)*

***Maps with Sound as the Way of Elevation Representation***

*Medvedev, Andrey (Institute of Geography of Russian Academy of Sciences, Department of cartography)*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

Session 3 D

## Web Services and GIS

Chair:

### ***Geo Web Services for Transport Crisis Management in Alpine Region***

*Hossain, Md. Imran (University of the Bundeswehr Munich, Institute of Applied Computer Science)*

### ***Development of a Web-Based System to Track Airborne and Satellite Assets to Obtain Imagery for Emergency Response***

*Battersby, Sarah E. (University of South Carolina, Department of Geography)*

### ***Assessment of Risk and Hazard of Technological Emergencies with GIS (on the Example Vinnytsia Region)***

*Putrenko, Viktor (Institute of Geography, National Academy of Science of Ukraine, cartography)*

### ***Evaluation of the Adequacy of the Land Use in Sub-Basin Using GIS and Remote Sensing***

*Demarchi, Julio Cesar (UNESP - Univ. Estadual Paulista - School of Agronomy, Soil and Environmental Resources)*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

Session 3 E

**Special Issues in SDI**

*Chair:*

***Spatial Data Discovery Using General Purpose Web Search Engines***

*Katumba, Samy (University of Pretoria, Geography, Geoinformatics and Meteorology)*

***Imagery Becomes Knowledge - Image Analysis Services in the Enterprise***

*Bahr, Thomas (Senior Consultant, Exelis Visual Information Solutions GmbH)*

***Towards a Knowledge Reference System for the Domain of Geographic Information Science and Technology***

*Skupin, André (San Diego State University, Department of Geography)*

***Advances in Intelligent Processing of Topographic Map Image***

*An, Xiaoya (Xi'an Research Institute of Surveying and Mapping)*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

Session 3 F

## Cartography for Children

Chair:

***Mapping My Mangrove: New Technologies Applied to Cartography to Support Environmental Education in the Teaching of Geography***

*Sousa, Iomara (State University of Rio de Janeiro, Geography Post Graduation Program)*

***Smartphone-Based School Atlases?***

*Reyes Nunez, Jose Jesus (Eotvos Lorand University, Department of Cartography and Geoinformatics)*

***Geospatial Learning Treshold Overpassed with Digital Maps and Mobile Serious Games on the Terrain***

*Ferland, Yaïves (Université Laval, Sciences géomatiques)*

***Global Warming Teaching Through Maps and Diagrams Touch***

*Ribeiro, Waldirene (Universidade de Sao Paulo, Geografia)*

Tuesday, August 27 2013

9:15 – 10:30

Room XXX

# Session 3 G

## Maps and Security

Chair:

### ***Forensic Mapping in South Africa: Four Examples***

*Schmitz, Peter (CSIR Built Environment, Spatial Planning Support)*

### ***A Digital Watermark Algorithm for Tile Map Stored by Indexing Mechanism***

*Ren, Na (Nanjing Normal University, Key Laboratory of Virtual Geographic Environment of Ministry of Education)*

### ***An Anti-Compression Fragile Watermark Scheme for Vector Geographical Data***

*Zhu, Chang-Qing (Nanjing Normal University, Key Laboratory of Virtual Geographic Environment of Ministry of Education)*



Tuesday, August 27 2013

11:00 – 12:15

Room XXX

## Session 4 A

### Environmental Monitoring

*Chair:*

***Exploring Distribution of Uranium in Ukraine: Geovisualization and Spatial Statistics***

*Govorov, Michael (Vancouver Island University, Geography Department)*

***Assessing Local Variations of Deforestation Processes in Mexico Using Geographically Weighted Regression***

*Mas, Jean-Francois (Universidad Nacional Autónoma de México (UNAM), Centro de Investigaciones en Geografía Ambiental)*

***Hydroprog: A Novel System for Hydrological Forecasting and Flood Risk Mapping***

*Niedzielski, Tomasz (University of Wroclaw)*

***GPU-Accelerated Spatial Interpolation Rendering for Web-Based Environmental Monitoring***

*Lienert, Christophe (Canton of Aargau, Dept. Construction, Traffic and Environment)*

*Lienert, Christophe => nur Dienstag*

Tuesday, August 27 2013

11:00 – 12:15

Room XXX

## Session 4 B

### Automated Generalisation

*Chair:*

***ScaleMaster2.0: A ScaleMaster Extension to Monitor Automatic Multi-Scales Generalisations***

*Touya, Guillaume (IGN, COGIT)*

***Labeling Through Scale Using Hierarchies of Thinned Road Networks for Design of The National Map of the United States***

*Brewer, Cynthia (Pennsylvania State University, Geography)*

***Multimapper – Prototype System for Designing Multi-Scale Maps***

*Samsonov, Timofey (Lomonosov MSU, Faculty of Geography, Department of Cartography and Geoinformatics)*

***New National Maps of Switzerland***

*Käuferle, Dominik (Federal Office of Topography swisstopo, Cartography)*

Tuesday, August 27 2013

11:00 – 12:15

Room XXX

Session 4 C

## Image Processing

Chair:

***Mathematical Morphology of Remote Sensing Image to Identify Local Minimum and Aid Thematic Cartography***

*Rodrigues Tavares, João (UFPE, Cartographic Engineering)*

***Comparing Spectral Mixture Analysis and Object Based Image Analysis for Mapping Fractional Cover in Semi-Arid Savanna Systems***

*Mishra, Niti (The University of Texas at Austin, Department of Geography & the Environment)*

***An Assessment of Neural Networks Architecture Impacts upon Image Classification Accuracy***

*Yang, Xiaojun (Florida State University, Geography)*

***The Evaluation and Development of the Pixel Swapping Technique for Enhancing the Locational Perception of the Soft Classified Satellite Imagery***

*Niroumand Jadidi, Milad (K. N. Toosi University of Technology, Geomatics Engineering)*

Tuesday, August 27 2013

11:00 – 12:15

Room XXX

## Session 4 D

### Thematic Atlases

*Chair:*

***Cartographic Visualization of Phytophenological Characteristics***

*Voženílek, Vít (Palacký University Olomouc, Department of  
Geoinformatics)*

***Transportation Data in Maps Special Analysis for Influencing  
Decision Making***

*Raz, Oren (Israeli Central Bureau of Statistics, GIS Sector)*

***Swiss World Atlas: Development and Automated Setup of a  
Geographical Name Index Database for Cross-Media Atlas  
Applications***

*Koblet, Thomas (ETH Zurich, Institute for Cartography and  
Geoinformation)*

Tuesday, August 27 2013

11:00 – 12:15

Room XXX

Session 4 E

## Web Mapping Applications

Chair:

***Integrating Linked Open Data into Open Source Web Mapping***

*Owusu-Banahene, Wiafe (University of Pretoria, Centre for Geoinformation Science, Department of Geography, Geoinformatics and Meteorology)*

***Web Mapping Metro Rail Services in Los Angeles County***

*Mo, Bin (LACMTA, Long Range Planning and Coordination)*

***Comparative Space-Time Analysis of Warn Notices: Open Source and Implementation***

*Ye, Xinyue (Bowling Green State University, School of Earth, Environment and Society)*

***Advances in Web-Service Driven Cartography***

*Iosifescu, Ionut (Institute of Cartography and Geoinformation, ETH Zurich)*

Tuesday, August 27 2013

11:00 – 12:15

Room XXX

Session 4 F

## Cartography and Literature

Chair:

***Facts in Fiction: Introducing Cartography and Surveying in Martin Suter's Novel „Die Zeit, die Zeit“***

*Hurni, Lorenz (ETH Zurich, Institute of Cartography and Geoinformation)*

***Mapping Out Patience: Cartography, Cinema, and W.G. Sebald***  
*Ng-Chan, Taien (Concordia University, Centre for Interdisciplinary Studies in Society and Culture)*

***Dreams, Memories, Longings - Visualising Projected Spaces in Fiction***

*Piatti, Barbara (ETH Zurich, Institute of Cartography and Geoinformation)*

Tuesday, August 27 2013

11:00 – 12:15

Room XXX

Session 4 G

## Maps and Society

*Chair:*

### ***Telling Stories with Web Maps***

*Field, Kenneth (Esri Inc)*

### ***Telling Geo-Stories on Spherical Displays***

*Riedl, Andreas (University of Vienna, Geography and Regional Research)*

### ***Political Considerations in Cartographic Maps***

*Srebro, Haim (SURVEY OF ISRAEL)*

### ***Analysis of Street Names Regarding the Designation of Cities***

*Thiel, Sebastian (Technische Universität Dresden, Institute of Cartography)*

**Tuesday, August 27 2013**

11:00 – 12:15

Room XXX

**ISPRS/ICA**

*Chair: Bert Veenendaal*

***Improving Evacuation Maps by Integrating Needs and Preferences of End-Users in GIS***

*Palka, Gaëtan (University François Rabelais, Polytech'Tours - Town and Regional Planning Department)*

***Mixing, Blending, Merging or Scrambling Topographic Maps and Orthoimagery in Geovisualization?***

*Hoarau, Charlotte (IGN France, COGIT Laboratory)*

***Distribution Patterns of Typified Façade Elements for Virtual Three-Dimensional City Models***

*Jahnke, Mathias (Technische Universität München, Department of Cartography)*

***Eye-Tracking Study on Different Perception of 2D and 3D Terrain Visualization***

*Popelka, Stanislav (Palacký University in Olomouc, Department of geoinformatics)*



# Best Practice

Tuesday, August 27 2013

12:00 – 12:45

Room XXX

## Best Practice Presentation

*OCAD – A Niche Product Towards a Professional Cartographic  
Software*

*Gloor, Thomas (OCAD)*

# Plenary Keynote

**Tuesday, August 27 2013**

14:00 – 14:45

*Room XXX*

## Plenary Keynote

### ***Virtual Centimeter World Model***

*Leberl, Franz (Graz University of Technology, Institute for Computer Graphics and Vision)*

#### *Commission Reports:*

- *Commission on Map Design*
- *Commission on Cognitive Visualization*
- *Commission on Theoretical Cartography*
- *Commission on Art and Cartography*

Tuesday, August 27 2013

14:45 – 16:00

Room XXX

Session 5 A

**VGI: Data Quality and Software**

*Chair:*

***Detecting Level of Detail Inconsistencies in VGI Datasets***

*Touya, Guillaume (IGN, COGIT)*

***Assessing the Completeness of Building Footprints in  
OpenStreetMap: An Example from Germany***

*Kunze, Carola (Leibniz Institute of Ecological Urban and Regional  
Development Germany)*

***Cartographic Representation of Spatial Data Quality Parameters in  
Volunteered Geographic Information Systems***

*Karimipour, Farid (Assistant Professor, Department of Surveying and  
Geomatics Engineering, College of Engineering, University of Tehran)*

Tuesday, August 27 2013

14:45 – 16:00

Room XXX

Session 5 B

## Technologies in Cartographic Education

*Chair:*

***The State of GISc Education and SDI Implementation in the SADC Countries: A Comparative Study***

*Eksteen, Sanet (University of Pretoria, Geography, Geoinformatics and Meteorology)*

***New Technologies as Educational Resources for Teaching Cartography: A Case Study in Guinea-Bissau***

*Carvalho di Maio, Angelica (Universidade Federal Fluminense, Análise Geoambiental)*

***A Survey of Books for Potential Use in SDI Education and Training in South Africa***

*Rautenbach, Victoria (University of Pretoria, Centre for Geoinformation Science)*

Tuesday, August 27 2013

14:45 – 16:00

Room XXX

Session 5 C

## Historical Expeditions and Maps

Chair:

***Streams, Irrigations, and the Environment Change: Negotiating the Land Use in Northern Taiwan (1870-1895)***

*Yang, Sen-Hao (National Taiwan University, Department of Geography)*

***“The most practicable and economical route for a railroad”: U.S. Army Corps of Topographical Engineers and the Railroad Reconnaissance of the American West***

*Demhardt, Imre (University of Texas at Arlington, Department of History)*

***Routes in the Transvaal, South Africa, 1906, Described in Military Report on the Transvaal, Volume II, Communications - Related to Major Jackson's Series of Maps 1901-2***

*Board, Christopher (Christopher Board)*

***The Pole Is Impracticable but There Is a Land Northward: Austro-Hungarian Polar Expedition and Mapping of the Franz Josef Land***

*Altic, Mirela (Institute of Social Sciences, Centre for Urban and Local History)*

Tuesday, August 27 2013

14:45 – 16:00

Room XXX

Session 5 D

## National Atlases

*Chair:*

***Towards a National Atlas of the Netherlands as Part of the  
National Spatial Data Infrastructure***

*Köbben, Barend (ITC – University of Twente, Faculty of Geo-  
Information Science and Earth Observation)*

***Designing Maps for a New Thematic Atlas of the Czech History***

*Janata, Tomas (Czech Technical University in Prague, Dept. of  
Mapping and Cartography)*

***The New Atlas of Israel - The National Atlas***

*Srebro, Haim (SURVEY OF ISRAEL)*

***Summary and Achievements of City Atlases in P.R. China***

*Qi, Qingwen (Institute of Geographical Science and Natural  
Resources Research, Chinese Academy of Sciences, Cartographic  
division)*

Tuesday, August 27 2013

14:45 – 16:00

Room XXX

## Session 5 E

### 4D Cartography

*Chair:*

***Visualization of Trajectory Attributes in Space-Time Cube and Trajectory Wall***

*Andrienko, Gennady (Fraunhofer IAIS, KD - Knowledge Discovery)*

***Towards 4D Cartography - Four-Dimensional Dynamic Maps for Understanding Spatio-Temporal Correlations in Lightning Events***

*Resch, Bernd (University of Heidelberg, Geography - GIScience)*

***Geovisualizing Spatio-Temporal Patterns in Tennis: An Alternative Approach to Post-Match Analysis***

*Demaj, Damien (Esri, ArcGIS Online Content)*

***Visual Analysis of Large Amounts of 4-D Building Deformation Data***

*Ding, Linfang (TUM, Cartography)*

Tuesday, August 27 2013

14:45 – 16:00

Room XXX

Session 5 F

## **Tactile Cartography for Children**

*Chair:*

***Tactile Cartography: The Adapted Globe Experience on Social Inclusion***

*Jordão, Barbara (Universidade de São Paulo, Geografia Física)*

***School Tactile Cartography in Brazil: The Challenge of Training Teachers***

*Ribeiro Do Carmo, Waldirene (University of São Paulo, Geography)*

***Children's Spatial Representations: Comparative Research in France and Poland.***

*Bogacz, Katarzyna (University Lumière Lyon 2, Geography)*



Tuesday, August 27 2013

16:30 – 17:45

Room XXX

## Typography and Labelling

*Chair:*

### ***Typography in the US Topo Redesign***

*Guidero, Elaine (Pennsylvania State University, Geography)*

### ***Silhouette-Based Label Placement in Interactive 3D Maps***

*Lehmann, Christine (Hasso-Plattner-Institute, University of Potsdam,  
Computer Graphics Systems)*

### ***Users Characteristic Influence on the Efficiency of Typographic Design***

*Deeb, Rasha (Ghent University, Department of Geography)*

Tuesday, August 27 2013

16:30 – 17:45

Room XXX

Session 6 B

## History on Maps

Chair:

***Visualizing in Historical Context: The Study of the Dresden Map of Hungary from the 1570s***

*Török, Zsolt (Associate Professor, Cartography and Geoinformatics)*

***Atlas of Fortresses of the Russian Empire in the Map Collection of the Russian State Library***

*Zinchuk, Liudmila (Russian State Library, Map Department)*

***The Contentious Border Between Padua Territory and Venice as Represented by the Cartography of 16th-18th Century***

*Piovan, Silvia (University of Padova, Department of Historical Geographical and Antiquity Sciences - Geography Section)*

***Paradigmatic Tendencies in Cartography and Mapping During the Scientific and Postmodern Periods***

*Azócar Fernández, Dr. Pablo (Universidad Tecnológica Metropolitana, Cartografía)*

Tuesday, August 27 2013

16:30 – 17:45

Room XXX

# Session 6 C

## Map Perception

*Chair:*

***The Cognitive and Opinion-Forming Role of Geocompositions as  
Multimedia Presentations***

*Koziel, Zenon (Nicolaus Copernicus University Faculty of Earth  
Sciences, Cartography, Remote Sensing and GIS)*

***Symbol Considerations for Bivariate Thematic Maps***

*Elmer, Martin (Master's Student, Dept of Geography, University of  
Wisconsin - Madison)*

***Influence of Graphic Design of Cartographic Symbols on Perception  
Structure***

*Stachon, Zdenek (Masaryk University, Institute of Geography)*

***Advanced Image Processing for Maps Graphical Complexity  
Estimation***

*Ciołkosz-Styk, Agata (Institute of Geodesy and Cartography)*

Tuesday, August 27 2013

16:30 – 17:45

Room XXX

Session 6 D

**SDI**

*Chair:*

***Spatial Identifier Reference Framework (SIRF): Realising the Potential of SDI Using Spatial Identifiers to Link Multiple Information Systems***

*Atkinson, Robert (Commonwealth Scientific and Industrial Research Organisation, Land and Water)*

***Exploring the Impact of a Spatial Data Infrastructure on Value-Added Resellers and Vice Versa***

*Cooper, Antony K (CSIR, Built Environment)*

***Sharing and Coordinating SDIs in the Age of Crowdsourcing and Mobile Technologies***

*Coetzee, Serena (University of Pretoria, Centre for Geoinformation Science)*

Tuesday, August 27 2013

16:30 – 17:45

Room XXX

Session 6 E

## Cartography for People with Disabilities

*Chair:*

***An Information Model for Pedestrian Routing and Navigation  
Databases Supporting Universal Accessibility***

*Laakso, Mari (Finnish Geodetic Institute, Geoinformatics and  
Cartography)*

***An Atlas of Brno City Centre for Wheelchair Users: Concept,  
Production and Beyond***

*Řezník, Tomáš (Masaryk University, Faculty of Science, Department  
of Geography)*

***Crowdsourcing Techniques for Augmenting Traditional Accessibility  
Maps with Transitory Obstacle Information***

*Rice, Matthew (Assistant Professor, George Mason University,  
Geography & Geoinformation Science)*

Tuesday, August 27 2013

16:30 – 17:45

Room XXX

## Session 6 F

### Mobile Tasks and Applications

*Chair:*

***Developing Interactive Cross-Platform Mobile Applications for Apple iOS (iPhone/iPad/iPod) and Google Android (Phone and Tablets) with Adobe Flash Builder and CartoVista Mobile***

*Bouchard, Dany (DBx GEOMATICS inc., Engineering)*

***Moving Maps: The Relationship Between Mobile Maps and Scale***

*Cammack, Rex (University of Nebraska Omaha, Geography and Geology)*

***Web-Based Real-Time Mapping of Fine Particulate Matter Pollution***

*Liu, Xiaoyan (Nanjing Normal University, Geography)*

***Location-Based Illustration Mapping Applications and Editing Tools***

*Lu, Min (The University of Tokyo, Center for Spatial Information Science)*

Tuesday, August 27 2013

16:30 – 17:45

Room XXX

## Session 6 G

### Mapping Intangibilities

*Chair:*

***Smellmap: Glasgow***

*McLean, Kate (Canterbury Christ Church University, Media, Art & Design)*

***Beck to the Future: Time to Leave It Alone***

*Field, Kenneth (RMIT University, Mathematical and Geospatial Sciences)*

***Mapping the Unreal: The Story of Mythical Creatures in Europe***

*Beconyte, Giedre (Vilnius University, Centre for Cartography)*

**Tuesday, August 27 2013**

16:30 – 17:45

*Room XXX*

**Session 6 H**

**Mixed Session**

*Chair:*



**Tuesday, August 27 2013**

16:30 – 17:45

*Room XXX*

**Session 6 I**

## **Mixed Session**

*Chair:*

# Plenary Keynote

Wednesday, August 28 2013

8:30 – 9:15

Room XXX

## Plenary Keynote

### *Transformation of National Mapping Approaches in the Context of Geomatics Democratization*

*Loubier, Eric (Ressources Naturelles Canada)*

#### *Commission Reports:*

- *Commission on Neocartography*
- *Commission on Planetary Cartography*
- *Commission on Cartography in Early Warning and Crisis Management*
- *Commission on Education and Training*

Wednesday, August 28 2013

9:15 – 10:30

Room XXX

## Geospatial Analytics 1

Chair:

***Can Analytical Cartography Serve as a Link Between Cartography and Giscience?***

*Moellering, Harold (Ohio State University, Geography Department)*

***Maps as Research Tools Within a Virtual Research Environment.***

*Specht, Sebastian (Leibniz-Institute for Regional Geography)*

***Methodology to Analyse Multi-Temporal Planimetric Changes of River Channels***

*Mozas-Calvache, Antonio (University of Jaén, Department of Cartographic, Geodetic Engineering and Photogrammetry)*

***Land Use Monitoring by Topographical Data Analysis***

*Krüger, Tobias (Leibniz Institute for Ecological Urban and Regional Development, Monitoring of Settlement and Open Space Development)*

KRÜGER NICHT MITTWOCH NACHMITTAG, DONNERSTAG, FREITAG

Wednesday, August 28 2013

9:15 – 10:30

Room XXX

Session 7 B

## Environmental Monitoring

Chair:

***Activities for Developing Global Map Version 3 Data***

*Koarai, Mamoru (Geospatial Information Authority of Japan,  
Geocartographic Department)*

***Cartographic Challenges in Antarctica: Mapping in Support of  
Environmental Management in the US Antarctic Program***

*Lorenz, Katharina (Environmental Research & Assessment)*

***Spatial Representation of Natural and Anthropogenic Factors  
Influencing Chimpanzee Repartition in Sebitoli (Kibale National  
Park, Uganda): Conservation and Research Applications.***

*Bortolamiol, Sarah (Université Paris Diderot - Paris 7, Geography  
(GHSS))*

***Geoinformation Landscape-Geochemical Mapping of City  
Territories (The Case Study of Eastern District of Moscow)***

*Khaybrakhmanov, Timur (Lomonosov Moscow State University,  
Faculty of Geography)*

Wednesday, August 28 2013

9:15 – 10:30

Room XXX

Session 7 C

## Change Detection

Chair:

***The Image Map: From Broad Practical Use Towards  
Cartographic Concept***

*Voženílek, Vít (Palacky University, Olomouc, Dept. of Geoinformatics)*

***Urban Areas Change Mapping of the Black Sea Coastal Zone in  
Bulgaria for the Period 1990 - 2006 Based on Remote Sensing Data***  
*Vatseva, Rumiana (Bulgarian Academy of Sciences, National Institute  
of Geophysics, Geodesy and Geography)*

***Urban Expansion and Population Growth in Ras Sudr City Using  
Remotely Sensed Imagery***

*Ramzi, Ahmed (National Authority of Remote Sensing and Space  
Science (NARSS))*

Wednesday, August 28 2013

9:15 – 10:30

Room XXX

Session 7 D

## Visualising Time (Animations)

*Chair:*

***Guidelines for the Effective Design of Spatio-Temporal Maps***

*Buckley, Aileen (Esri, Inc.)*

***Presenting Complex Environmental Information Online: A Comparative Empirical Evaluation of Animation versus Text***

*Arzu, Coltekin (University of Zurich, Department of Geography)*

***Enhancing Cartographic Time-Series Animation***

*Jenny, Helen (Oregon State University, College of Earth, Ocean and Atmospheric Sciences)*

Wednesday, August 28 2013

9:15 – 10:30

Room XXX

Session 7 E

**NSDI 1**

*Chair:*

***Organisational Aspects of Spatial Information Infrastructure in Poland***

*Bielecka, Elzbieta (Military University of Technology, Civil Engineering and Geodesy)*

***Lithuanian Spatial Information Portal for National Mapping***

*Balciunas, Andrius (SE GIS-Centras)*

***Brazilian National Spatial Data Infrastructure (INDE): Applicability for Large Scale Data***

*Iescheck, Andrea Lopes (Federal University of Rio Grande do Sul, Geodesy)*

***Facilitating the Exchange of Marine Spatial Data Through a Marine Data Infrastructure for Germany (MDI-DE)***

*Lübker, Tillmann (German Federal Agency for Nature Conservation, Marine and Coastal Nature Conservation)*

Wednesday, August 28 2013

9:15 – 10:30

Room XXX

Session 7 F

## Technical Issues in Map Production

*Chair:*

### ***Map Folding Techniques in the Digital Age***

*Angsüsser, Stephan (Wuhan University, School of Resource and Environmental Science, Department of Geographical Information Science)*

### ***Backend Architectures for Modern Cartography***

*Jobst, Markus (Vienna University of Technology, Departement for Geodesy and Geoinformation)*

### ***A Propagating Update Method of Multi-Represented Vector Map Data Based on Spatial Objective Similarity and Unified Geographic Entity Code***

*Ren, Fu (Wuhan University, School of Resource and Environmental Science)*



**NMCA**

**Wednesday, August 28 2013**

9:15 – 10:30

*Room XXX*

**National Mapping and Cadastral Authorities:  
Germany**

*Chair:*

***Organisation and Strategy of the Official Surveying and Mapping  
Authorities of Germany***

*Ulrich Püß (Working Committee of the Surveying Authorities of the  
States of the Federal Republic of Germany)*

***The WebAtlasDE - An Example of the Collaboration in Official  
Surveying and Mapping in Germany***

*NN (Working Committee of the Surveying Authorities of the States of  
the Federal Republic of Germany)*

***Digital Land Cover Model for Germany – Next Update Cycle for the  
Year 2012***

*Hovenbitzer, Michael (Federal Agency for Cartography and Geodesy  
of Germany, Geoinformation)*

# Session 8 A

Wednesday, August 28 2013

11:00 – 12:15

Room XXX

## Colours in Map Design

*Chair:*

***The Influence of Colour on the Interpretation of Official Noise Maps***

*Weninger, Beate (HafenCity University Hamburg, Lab for Geoinformatics and Geovisualization)*

***Exploring the Influence of the Color Distance on the Map Legibility***

*Brychtová, Alžběta (Palacký University in Olomouc, Faculty of Science, Department of Geoinformatics)*

***Analysis and Improvement of the Openstreetmap Street Color Scheme for Users with Color Vision Deficiencies***

*Kröger, Johannes (HafenCity University Hamburg, Lab for Geoinformatics and Geovisualization)*

Wednesday, August 28 2013

11:00 – 12:15

Room XXX

Session 8 B

## Learning to Map

Chair:

***How Much Instructions Are Needed for a Good GIS Map?***

*Murad-Al-Shaikh, Makram (Esri, Education)*

***GIS-based Land-use Suitability Mapping: Cognitive Processes and Instructions That Leads to Expertise.***

*Balzarini, Raffaella (Grenoble Laboratory of Informatics)*

***Open Learning Platform for the Open Geospatial Community***

*Anand, Suchith (University of Nottingham, Nottingham Geospatial Institute)*

***Traditional Map Design vs. Info Graphics: Motivating Students to Reveal Their Talents – Examples from a Student Assignment***

***Collection Depicting 47 Distinct Topics***

*Schaab, Gertrud (Karlsruhe University of Applied Sciences, Faculty of Information Management and Media)*

Wednesday, August 28 2013

11:00 – 12:15

Room XXX

# Session 8 C

## Maps and the Internet: General Tasks 2

*Chair:*

***A Systematic Comparison of Map Design for Print and Web-Based Technologies***

*Field, Kenneth (Esri Inc)*

***Integrated Cartographic and Programmatic Access to Spatial Data Using Object-Oriented Databases in an Online Web GIS***

*Iosifescu, Ionut (Institute of Cartography and Geoinformation, ETH Zurich)*

***Challenges in Creating Web Base Maps from Distributed Datasets***

*Schmidt, Manuela (Vienna University of Technology, Department of Geodesy and Geoinformation)*

***Web Map-Based POI Visualization for Spatial Decision Support***

*Ren, Fu (School of Resources and Environment Science, Wuhan University)*

Wednesday, August 28 2013

11:00 – 12:15

Room XXX

# Session 8 D

## Map Classification

*Chair:*

***Map Classification According to Their Visual Global Properties***

*Kharchi, Tahar (Université de Montpellier)*

***Developing a Framework for Describing and Comparing Indoor  
Maps***

*Nossum, Alexander (Norwegian University of Science and  
Technology, Civil and Transport Engineering)*

***Opinions on the Development of Theoretical Mapping***

*Idrizi, Bashim (State University of Tetova)*

***Understanding Mental Categorization on VGI Systems to Improve  
Data Management***

*Sluter, Claudia Robbi (Federal University of Parana, Postgraduate  
Program on Geodetic Science)*

Wednesday, August 28 2013

11:00 – 12:15

Room XXX

Session 8 E

## Natural Disasters

Chair:

***Cartographic Visualization of Vulnerability to Natural Disasters***

*Opach, Tomasz (Norwegian University of Science and Technology,  
Department of Geography)*

***The Impact of Hurricanes on Crime Using a Data Mining and Visual  
Analytics Approach***

*Leitner, Michael (Louisiana State University, Geography and  
Anthropology)*

***Exploratory Spatial-Temporal Visualization of Hurricane Impacts on  
Crime Events in Miami, Florida***

*Sim, Sunhui (University of North Alabama, Geography Department)*

Wednesday, August 28 2013

11:00 – 12:15

Room XXX

Session 8 F

## Planetary Mapping

Chair:

***Exploring Martian Climatologic Data Using Geovisualization:  
MARSIG, a Spatiotemporal Information System for Planetary  
Science***

*Davoine, Paule-Annick (Laboratoire d'Informatique de Grenoble)*

***Cartographical Aspects of Martian Moons Modelling***

*Lazarev, Evgeniy (Sternberg State Astronomical Institute, Lunar and  
Planetary Research)*

***On the Concept and Integration of Geologic Time in Planetary  
Mapping***

*van Gasselt, Stephan (Freie Universitaet Berlin, Planetary Sciences  
and Remote Sensing)*

***A Framework for Planetary Geologic Mapping***

*Naß, Andrea (German Aerospace Center (DLR), Inst. for Planetary  
Research, Dept. of Planetary Geology)*

**Wednesday, August 28 2013**

11:00 – 12:15

*Room XXX*

## **Neighbour Countries and Cross-Border Activities**

*Chair:*

### ***Topographic Databases on the Border States***

*Brázdil, Karel (Czech Land Survey Office, Land Survey Department)*

### ***Cross-Border Cartography for New French Base Map at 1:25000 Scale***

*Lecordix, François (IGN, Service des développements)*

### ***The New Civil-Military Topographic Maps of Austria***

*Ditz, Robert (Austrian Federal Ministry of Defence and Sports,  
Institute for Military Geography)*

### ***Swiss Maps from Paper to Geo Services***

*Künzler, Reto (Swiss Federal Office of Topography swisstopo,  
Cartography, Interactive Map Applications)*



# International Map Year

**Wednesday, August 28 2013**

11:00 – 12:15

Room XXX

## International Map Year

*Chair: Bengt Rystedt*

*Upon a motion from the Swedish Cartographic Society, the ICA decided in Paris 2011 to organize the International Map Year (IMY) 2015. The idea is to increase the knowledge of cartography and geographic information among the public and to get more students into cartography in the future. The IMY initiative was supported by a resolution from the United Nations Regional Cartographic Conference in Bangkok Nov 1, 2012.*

*The ICA working group for the IMY will during the session present its ideas for a textbook and proposals for actions to be taken by the ICA national members to organize national map days at universities, municipalities, libraries, and archives. National mapping organizations and affiliate members will also be asked to participate by showing their products and demonstrating their systems for cartography and geographic information.*

*The session is open to all but national delegates in particular are asked to attend. Members of the working group will be present and discussions are most welcome.*

**Best Practice**

**Wednesday, August 27 2013**  
12:00 – 12:45  
*Room XXX*

**Best Practice Presentation**

**Movie**

**Wednesday, August 27 2013**  
12:00 – 12:45  
*Room XXX*

**Cartography and Narratives**

# Plenary Keynote

Wednesday, August 28 2013

14:00 – 14:45

Room XXX

## Plenary Keynote

### *My Discovery of Cartography*

*Board, Christopher ()*

#### *Commission Reports:*

- *Commission on Geoinformation Infrastructures and Standards*
  - *Commission on GI for Sustainability*
  - *Commission on Maps and Society*
- *Commission on Map Production and Geo-Business*

Wednesday, August 28 2013

14:45 – 16:00

Room XXX

## Session 9 A

### Uncertainty Visualisation

*Chair:*

***Closing the “Uncertainty Chain”: Enhancing Trust by Communicating Uncertainty Information with Maps***

*Schiewe, Jochen (HafenCity University Hamburg, Lab for Geoinformatics and Geovisualization)*

***Beyond the Surface: Current Issues and Future Directions in Uncertainty Visualization Research***

*Smith, Jennifer (The Pennsylvania State University, Geography)*

***Evaluation of Uncertainty Visualization Techniques for Decision-Making in a Bushfire Scenario***

*Cheong, Lisa (University of Melbourne, Infrastructure Engineering)*

Wednesday, August 28 2013

14:45 – 16:00

Room XXX

Session 9 B

**VGI: Effects**

*Chair:*

***Cartograms of Self-Organizing Maps to Explore User-Generated Content***

*Bruggmann, André (University of Zurich, Department of Geography)*

***Mapping Sense of Place: Online Participatory Mapping for Indicating Landscape Values***

*Sack, Carl (University of Wisconsin-Madison, Geography)*

***In Which Cases Does Location Influence the Contents of Twitter Micro-Blogging Posts?***

*Hahmann, Stefan (Institute for Cartography, Department of Environmental Sciences)*

***Where Do Tourists Go? Visualizing and Analyzing the Spatial Distribution of Geotagged Photography***

*Gede, Mátyás (Eötvös Loránd University, Department of Cartography and Geoinformatics)*

Wednesday, August 28 2013

14:45 – 16:00

Room XXX

## Session 9 C

### Image Classification

*Chair:*

***Image Classification Towards Mapping of Vegetation Structure: A Practical Approach***

*Pretorius, Erika (University of Pretoria, Geography, Geoinformatics and Meteorology)*

***Modular Classification and Change Analysis of Vegetation Encroachment Using Object-Based Image Analysis***

*Krätzschar, Elke (IABG mbH, Geodata Factory)*

***Rice Yield Estimation by Using Objective Yield Survey (OYS) and Remote Sensing (RS) Methods; Case Study in Singburi and Anghong Province.***

*Nontasiri, Jatuporn (Ministry of Agricultural and Cooperatives, Office of Agricultural Economics)*

Wednesday, August 28 2013

14:45 – 16:00

Room XXX

Session 9 D

## Map Projection Reconstruction

*Chair:*

### ***Old Maps Georeferencing – Overview and a New Method for Map Series***

*Cajthaml, Jiri (Czech Technical University in Prague, Faculty of Civil Engineering, Department of Mapping and Cartography)*

### ***Estimation of an Unknown Map Projection and Its Parameters from the Map***

*Bayer, Tomas (The Charles University in Prague, Applied Geoinformatics and Cartography)*

### ***Map Projection Reconstruction of a Mercator's Map***

*Rajaković, Marina (University of Zagreb, Faculty of Geodesy)*

### ***Data Generalization in the Cartographic Materials of General Land Survey***

*Shalashova, Olga (Moscow State University)*

Wednesday, August 28 2013

14:45 – 16:00

Room XXX

Session 9 E

## Maps in Decision Making

Chair:

***Maps in Decision Making: Why Almost Every Negotiation Starts and Ends with a Map?***

*Rufino Atkocius, Felipe (Universidade Estadual Paulista, International Relations)*

***Maps as Decision Support Tool in Political Decision Processes***

*Reinermann-Matatko, Anja (Universität Trier, Kartographie)*

***How to Measure and Visualize Emotion when Using Maps***

*Fabrikant, Sara Irina (University of Zurich, Geography)*

***Assessing the Impact of Design Decisions on the Usability of Uncertainty Visualization: Noise Annotation Lines for the Visual Representation of Attribute Uncertainty in Maps***

*Kinkeldey, Christoph (HafenCity University Hamburg, Lab for Geoinformatics and Geovisualization (g2lab))*



Wednesday, August 28 2013

14:45 – 16:00

Room XXX

Session 9 F

## Orienteering Maps

*Chair:*

***Automation in Orienteering Map Production – Fiction or Reality***

*Petrovič, Dušan (University of Ljubljana, Faculty of Civil and Geodetic Engineering)*

***Vegetation Height Maps Derived from Digital Elevation Models – The Next Innovation in the Production of Orienteering Maps?***

*Gloor, Thomas (OCAD Inc.)*

***Implementation of Cartographic and Digital Techniques in Orienteering Maps***

*Zentai, László (Eötvös University, Cartography and Geoinformatics)*

***Orienteering Moves Indoor***

*Midtbø, Terje (Division of Geomatics, Norwegian University of Science and Technology)*

**Wednesday, August 28 2013**

14:45 – 16:00

*Room XXX*

## **European Authorities Introduce Web Services**

*Chair:*

### ***European Location Framework - One Reference Geo-Information Service for Europe***

*Jakobsson, Antti (National Land Survey of Finland, Development Centre)*

### ***Automation of Data Quality Validation based on Common Rules for Pan-European Geoinformation Production***

*Hopfstock, Anja (Bundesamt für Kartographie und Geodäsie, Geoinformation)*

### ***PDOK Kaart, the Dutch Mapping API***

*van der Vegt, Haico (Cadastre, Land Registry and Mapping Agency of The Netherlands, Strategy and Policy)*

### ***Standardization as a Vehicle Towards E-Government***

*Nissen, Flemming (National Survey and Cadastre Denmark, Defense and Emergency)*

# Session 10 A

Wednesday, August 28 2013

16:30 – 17:45

Room XXX

## Symbols in Map Design

*Chair:*

***Sharing and Discovering Map Symbols with SymbolStore.org***

*Robinson, Anthony C. (The Pennsylvania State University, GeoVISTA Center, Department of Geography)*

***Designing Map Symbols for Mobile Devices: Challenges, Best Practices, and the Utilization of Skeuomorphism***

*Stevens, Joshua (The Pennsylvania State University, Department of Geography)*

***3D Symbolization and Multi-Scale Representation on Geo-Information***

*Wei, Yongjun (Xi'an Institute of Surveying and Mapping, information)*

***Semiological Aspects of Urban Maps: A Case Study from the Holy City of Mecca***

*Dhieb, Mohsen (King Abdulaziz University - Faculty of Environmental Design, Department of Urban and Regional Planning)*

Wednesday, August 28 2013

16:30 – 17:45

Room XXX

## Session 10 B

### Generalisation 3

*Chair:*

***TileGen - An Open Source Software for Applying Cartographic  
Generalisation to Tile-Based Mapping***

*Klammer, Ralf (Dresden University of Technologies, Institute for  
Cartography)*

***Clutter Reduction Methods for Point Symbols in Map Mashups***

*Korpi, Jari (Aalto University, School of Engineering, Department of  
Real Estate, Planning and Geoinformatics)*

***Preservation and Transformation of Relations Between Thematic  
and Topographic Data Throughout Thematic Data Migration***

*Jaara, Kusay (IGN France, Cogit laboratoiry)*

***Investigations into Partitioning of Generalization Processes in a  
Distributed Processing Framework***

*Sester, Monika (Leibniz Universität Hannover, Institut für  
Kartographie und Geoinformatik)*

Wednesday, August 28 2013

16:30 – 17:45

Room XXX

Session 10 C

## Applications in Sustainable Development

*Chair:*

***Mapping Potential Metro Rail Ridership in Los Angeles County***  
*Mo, Bin (LACMTA, Long Range Planning and Coordination)*

***From Sensor Data to the Perception of Phenomena: Software Architecture for Online Access and Offline Analysis***  
*Ruas, Anne (IFSTTAR, MACS)*

***MOSART : A Decision Making Tool for Modelling Sustainable Development with Spatial Accessibility Analysis***  
*Ovtracht, Nicolas (Transport Economics Laboratory - LET)*

***Automatic Derivation of Urban Structure Types from Topographic Maps by Means of Image Analysis and Machine Learning***  
*Hecht, Robert (Leibniz Institute of Ecological Urban and Regional Development Germany)*

Wednesday, August 28 2013

16:30 – 17:45

Room XXX

Session 10 D

## User Issues in Map Production

*Chair:*

***Designing a Map Using Open Data Coming from Different Sources.  
Methodology, Problems and Solutions Concerning the 1:100.000***

***Map of Prefecture of Magnisia, Greece***

*Tsorlini, Angeliki (ETH Zurich, Institute of Cartography and  
Geoinformation)*

***Legal Issues in Czech Cartography in Relation to the International  
Cooperation***

*Vondráková, Alena (Palacký University Olomouc, Department of  
Geoinformatics)*

***Establishment of Topographic-Cartographic Database of the  
Republic Geodetic Authority***

*Colakovic, Milica (Republic Geodetic Authority for Topography and  
Cartography)*

Wednesday, August 28 2013

16:30 – 17:45

Room XXX

## Globes

Chair:

### ***Virtual Globes Museum 2.0 – Adding the Power of Community***

*Gede, Mátyás (Eötvös Loránd University, Department of Cartography and Geoinformatics)*

### ***Maps vs. Globes - Distance Estimation on Flat and Spherical Displays***

*Riedl, Andreas (University of Vienna, Department of Geography and Regional Research)*

### ***Hypsometric Globe of Mars – 3D Model of the Planet***

*Rodionova, Zhanna (Sternberg State Astronomical Institute, Lunar and Planetary Investigation)*

### ***Lunar and Planetary Globes in the Holdings of the Austrian National Library's Globe Museum.***

*Mokre, Jan (Austrian National Library, Map Department and Globe Museum)*

Wednesday, August 28 2013

16:30 – 17:45

Room XXX

Session 10 F

## **Analysis of Rural and Urban Structures**

*Chair:*

### ***Identifying Residential Land in Rural Areas to Improve Dasymeric Mapping***

*Buttenfield, Barbara (University of Colorado, Geography)*

### ***Analysis and Mapping of Rural-Urban Interactions***

*Gunko, Maria (Institute of Geography of Russian Academy of Sciences)*

### ***Analysis of European Topographic Maps for Automatic Acquisition of Urban Land Use Information***

*Schinke, Ulrike (TU Dresden, Institute for Cartography)*

### ***Automatic Delineation of Urban Blocks from Topographic Maps***

*Muhs, Sebastian (Leibniz Institute of Ecological Urban and Regional Development, Research Area Monitoring of Settlement and Open Space Development)*



Wednesday, August 28 2013  
16:30 – 17:45  
Room XXX

Session 10 G

## Mixed Session

*Chair:*

# Plenary Keynote

Thursday, August 29 2013

8:30 – 9:15

Room XXX

## Plenary Keynote

*The Waldseemüller Map: A Present of Germany to the World*  
France, Fenella (Library of Congress, Preservation Research and  
Testing Division)

*Commission Reports:*

- *Commission on Geovisualization*
- *Commission on Generalisation and Multiple Representation*
- *Commission on Digital Technologies in Cartographic Heritage*
  - *Commission on Data Quality*

Thursday, August 29 2013

9:15 – 10:30

Room XXX

Session 11A

## Statistical Mapping

*Chair:*

***Dasymetric Mapping of Saskatchewan's (Canada) Population***  
*Siemer, Julia (University of Regina, Department of Geography)*

***Cadastral-Based Expert Dasymetric System (CEDS) Using Census  
and Parcel Data***

*Strode, Georgianna (Florida State University, Geography)*

***Mapping the Geographical Electoral Particularities. Case Study:  
European Parliamentary Elections (1979-2009) and National  
Legislative Elections in Europe (1991-2010)***

*Munteanu, Alina (Alexandru Ioan Cuza University, Geography)*

Thursday, August 29 2013

9:15 – 10:30

Room XXX

Session 11 B

## Historical Cartographers and Their Work

Chair:

***The Waldseemüller Map - A Gift of Germany to the World***

*France, Fenella (Library of Congress)*

***Covert Mapping the Ottoman Empire: The Career of  
Francis Maunsell***

*Collier, Peter (Peter Collier)*

***J.G. Lehmann's System of Slope Hachures - An Investigation on the  
Quality of Relief Representation at the Beginning of  
the 19th Century***

*Koch, Wolf Günther (Dresden University of Technology, Institute for  
Cartography)*

***Prague Atlas of João Teixeira Albernaz – Commented Comparasion  
Maps from Guanabara Bay***

*Menezes, Paulo (Federal University of Rio de Janeiro, Geography)*

*France, Fenella KEYNOTE >>> Ändert wahrscheinlich Titel*

Thursday, August 29 2013

9:15 – 10:30

Room XXX

Session 11 C

## Generalisation on Networks 2

*Chair:*

***A Practical Experience on Road Network Generalisation for  
Production Device***

*Renard, Jérémy (IGN France, COGIT Laboratory)*

***A Novel Approach of Selecting Arterial Road Network for Route  
Planning Purpose***

*Fan, Hongchao (University of Heidelberg, Chair of GIScience)*

***Automatic Enrichment of Stream Networks with Primary Paths for  
Use in the United States National Atlas***

*Buttenfield, Barbara P. (University of Colorado, Geography)*

Thursday, August 29 2013

9:15 – 10:30

Room XXX

# Session 11 D

## Usability 1

Chair:

***Introducing Usability Heuristics for Mobile Map Applications***

*Kuparinen, Liisa (University of Jyväskylä, Department of Computer Science and Information Systems)*

***Testing the User-Driven Web Map Interface***

*Balciunas, Andrius (Vilnius University, Centre of cartography)*

***Map Design Aspects, Route Complexity, or Social Background? Factors Influencing User Satisfaction with Indoor Navigation Maps***

*Thierbach, Cornelia (Technische Universität Berlin, Department of Sociology)*

***Schematic Maps Based on User-Generated Data Applied on Mobile Devices for Tourist Navigation Tasks***

*Pippig, Karsten (Technische Universität Dresden, Institute of Cartography)*

Thursday, August 29 2013

9:15 – 10:30

Room XXX

Session 11 E

## Rock Depiction and Relief Representation

*Chair:*

### ***Towards Automating Swiss Style Rock Depiction***

*Geisthövel, Roman (ETH Zürich, Institute of Cartography and Geoinformation)*

### ***Digital Rock Drawing on Czech Topographic Maps: Present and Future Development***

*Lysák, Jakub (Charles University in Prague, Department of Applied Geoinformatics and Cartography)*

### ***Solid Landscape Models in the 21st Century – A Balanced Approach***

*Welter, Jeff (Dresden University of Technology, Institute for Cartography)*

Thursday, August 29 2013

9:15 – 10:30

Room XXX

Session 11 F

## Cartographic Education 1

Chair:

***Perspectives on Developing Critical GI Human Capacity in a Developing Country Context.***

*Akinyemi, Felicia O. (Kigali Institute of Science and Technology, Faculty of Architecture and Environmental Design)*

***3D Cartographic Modeling in Educational Process***

*Bandrova, Temenoujka (University of Architecture, Civil Engineering and Geodesy, Photogrammetry and Cartography)*

***Analyses of Visualization Methods of the Earthquake Catalog Mapping for Educational Purposes***

*Pődör, Andrea (University of West Hungary Faculty of Geoinformatics, Department of Geoinformation Sciences)*

***Intelligent Solutions Sustaining Urban Economies – Master Classes Casestudy***

*Ciołkosz-Styk, Agata (Institute of Geodesy and Cartography, -)*

***Bandrova, Temenoujka Donnerstag!!!***



Thursday, August 29 2013

9:15 – 10:30

Room XXX

Session 11 G

## Planetary

Chair:

***“Blind Mouse” on Mars and Moon – A Map Game for  
Disseminating Planetary Topographic Knowledge***

*Gede, Mátyás (Eötvös Loránd University, Department of Cartography  
and Geoinformatics)*

***Interactive Visualization of Planet Movements for Highschool  
Education***

*Wondrak, Stephan (ETH Zürich, Institute of Cartography and  
Geoinformation)*

***A New Mapping Method for the Moon with the Chang’E-1 Data***

*Mu, Lingli (National Astronomical Observatories, Chinese Academy  
of Sciences)*

# Dt. Kartographentag

**Thursday, August 29 2013**

9:15 – 10:30

*Room XXX*

## **Geodaten heute und morgen**

*Chair:*

***Qualität von Geodaten für umweltplanerische Aufgaben: Mehrwert von INSPIRE und Nutzungsmöglichkeiten „freier“ Geodaten***

*Brandl, Stefanie ()*

***Kartografie im Zeitalter der Apps***

*Forster, Martina ()*

***Generalisierung sehr großer Datenbestände mittels Partitionierung***

*Sester, Monika ()*

***Urbanes WebMapping***

*Möller, Matthias ()*

Thursday, August 29 2013

11:00 – 12:15

Room XXX

Session 12 A

## Geoanalytics in Urban Management

Chair:

***A Gid-Based Investigation of Spatial Accessibility to Health Care Facilities Within an Urban Fringe Area of Melbourne, Australia.***

*Liu, Gang-Jun (RMIT University, School of Mathematical and Geospatial Sciences)*

***Accessibility to Public High Schools and School Performance in Metropolitan Baton Rouge, Louisiana 1990-2010***

*Williams, Shaun (Louisiana State University, Geography and Anthropology)*

***Including a Social Perspective into Urban Planning Using Visualisations Based on Self-Organising Maps***

*Stark, Hans-Jörg (University of Applied Sciences and Arts Northwestern Switzerland, Institute of Geomatics)*

***GPS-based Crowd Sourced Intelligent Traffic Information Hub***

*Zhu, Rui (Royal Institute of Technology - KTH, Sweden)*

Thursday, August 29 2013

11:00 – 12:15

Room XXX

Session 12 B

## NSDI 2

Chair:

***A Contextual ICA Stakeholder Model Approach for the Namibian Spatial Data Infrastructure (NamSDI)***

*Sinvula, Kisco M (Centre for Geoinformation Science, Department of Geography, University of Pretoria)*

***Methodology of Creating the New Generation of Official Topographic Maps in Poland***

*Pillich-Kolipińska, Agata (Warsaw University of Technology, Cartography)*

***Dutch NMCA Launches Open Data***

*Bakker, Nico (Cadastre, Land Registry and Mapping Agency, Strategy and Policy)*

Thursday, August 29 2013

11:00 – 12:15

Room XXX

## Session 12 C

### The Rhetoric of Maps

*Chair:*

***Why Maps Are Silent When Texts Can Speak. Detecting Media Differences Through Conceptual Modelling***

*Eide, Øyvind (University of Oslo, Unit for Digital Documentation)*

***Four Rhetorical Styles of Persuasive Geocommunication: An Initial Taxonomy***

*Muehlenhaus, Ian (University of Wisconsin - La Crosse, Geography and Earth Science)*

***Ontology of Place-Names and Orientation in Their Development and Evolution on Maps***

*Ferland, Yaïves (Université Laval, Sciences géomatiques)*

# Session 12 D

Thursday, August 29 2013

11:00 – 12:15

Room XXX

## 3D Cartography

*Chair:*

### **3D Maps – Scale, Accuracy, Level of Details**

*Bandrova, Temenoujka (University of Architecture, Civil Engineering and Geodesy, Photogrammetry and Cartography)*

### **Z-Axis Based Visualisation of Map Elements – Cartographic Experiences with 3D Monitors Using Lenticular Foil Technology**

*Knust, Claudia (correspondence author, Institute for Cartography)*

### **From 2D to 3D Modeling – A Case Study of Walloon Region-Belgium**

*Hajji, Rafika (Hassan II Institute of Agronomy and Veterinary Sciences)*

### **Techniques Used for Optimizing 3D Geovisualization of Terežín Memorial**

*Jedlička, Karel (University of West Bohemia, Faculty of Applied Sciences, department of Mathematics, Geomatic section)*

*Bandrova, Temenoujka Donnerstag!!!*

Thursday, August 29 2013

11:00 – 12:15

Room XXX

## Cartographic Education 2

*Chair:*

***Issues in Cartographic Education: How and How Many?***

*Fairbairn, David (Newcastle University, School of Civil Engineering & Geosciences)*

***Cartography in Higher Education: Changes in the Last Decades***

*Zentai, László (Eötvös University, Cartography and Geoinformatics)*

***First Resume of the New International Master of Science in Cartography***

*Peters, Stefan (Technical University Munich, Cartography LfK)*

***University 'Mapping' Education in Australia – A Confusing Exposure?***

*Corcoran, Paul (University of South Australia, School of Natural and Built Environments)*

Thursday, August 29 2013

11:00 – 12:15

Room XXX

Session 12 F

## Disaster Management

*Chair:*

### ***Thematic Mapping for Disaster Management at Local and Regional Level***

*Tsvyatkova, Silvia (University of Architecture, Civil Engineering and Geodesy, Department of Photogrammetry and Cartography)*

### ***Geospatial Data Collection/Use in Disaster Response: A United States Nationwide Survey of State Agencies***

*Hodgson, Michael E (University of South Carolina, Geography)*

### ***Socio-Environmental Vulnerability and Geotechnologies as Contributions for Risks Cartography***

*Freitas, Maria Isabel (UNESP - IGCE, Planejamento Territorial e Geoprocessamento)*



**Thursday, August 29 2013**

11:00 – 12:15

*Room XXX*

**Session 12 G**

**Mixed Session**

*Chair:*

# Dt. Kartographentag

Thursday, August 29 2013

11:00 – 12:15

Room XXX

## Aus der Arbeit der DGfK-Kommissionen

*Chair:*

***Urheberrecht und Open Government Data - passt das zusammen?***

*Diez, Dietrich (Kommission Recht und Geodaten)*

***3D-Visualisierung***

*Jaquemotte, Ingrid (Kommission 3D-Stadtmodelle)*

***Tbd***

*NN ()*

***Karten versus Globen – Entfernungen auf ebenen und sphärischen Displays***

*Hruby, Florian (Kommission Kartenkuratoren)*

# Best Practice

Thursday, August 27 2013

12:00 – 12:45

*Room XXX*

## Best Practice Presentation

# Scientific Awards

Thursday, August 29 2013

14:00 – 14:45

Room XXX

## Scientific Awards

*ICA Scientific Awards*

*DTK Scientific Awards*

Thursday, August 29 2013

14:45 – 16:00

Room XXX

## Map Design 5

*Chair:*

***Integrating LiDAR Data into the Workflow of Cartographic Representation***

*Gloor, Thomas (OCAD Inc.)*

***The International Bathymetric Chart of the Southern Ocean (IBCSO) – New ‘Classic’ and Lenticular Maps of Antarctica for Science and Outreach***

*Arndt, Jan Erik (Alfred Wegener Institute, Geophysics)*

***Hot Geospatial Intelligence from a Cold War: The Soviet Military Mapping of Towns and Cities***

*Kent, Alexander J. (Canterbury Christ Church University, Geographical and Life Sciences)*

***TEXTURE MAPS – What They Are; How to Create Them; Why and Where You Should Use Them.***

*Smith, Roger (Managing Director, Geographx)*

Thursday, August 29 2013

14:45 – 16:00

Room XXX

## Ontologies and Standards in SDI

*Chair:*

***Standards Are the Bones of an SDI, but Where's the Beef?***

*Westcott, Bruce (Intergraph Corporation, SG&I: Product development)*

***Heterogeneous User Requirements on GI Standards – Implementation Strategies in an Ethiopian Perspective***

*Östman, Anders (Swedesurvey AB)*

***WTF (What Type of Feature)? Classifying Features for Advanced Data Linking, Searching and Analysis Capabilities***

*Kostanski, Laura (Commonwealth Scientific and Industrial Research Organisation, Mathematics, Informatics and Statistics)*

***A Formal Ontology for Historical Maps***

*Gkadoulou, Eleni (Harokopio University of Athens, Department of Geography)*

Thursday, August 29 2013

14:45 – 16:00

Room XXX

Session 13 C

## User Needs in Map Reading

*Chair:*

***Variation of Geospatial Thinking in Answering Geography Questions Based on Topographic Maps***

*Wakabayashi, Yoshiki (Tokyo Metropolitan University, Department of Geography)*

***Gestalt Aspects for Differentiating the Representation of Landmarks***

*Schmidt, Marcio (Universidade Federal de Uberlândia, Faculdade de Engenharia Civil)*

***Influence of Non-Technological Aspect on the Map Information Perception***

*Vondrakova, Alena (Palacký University Olomouc, Department of Geoinformatics)*

Thursday, August 29 2013

14:45 – 16:00

Room XXX

# Session 13 D

## Usability 2

Chair:

***Research into the Usability of the Space-Time Cube***

*Kveladze, Irma (University of Twente, ITC)*

***Producing Urban Area Polygons for Use Within Census Data for  
England and Wales***

*Harding, Jenny (Ordnance Survey, Research)*

***Hands-on Maps: A Multi-Touch Map Application in a Public Space***

*Rönneberg, Mikko (Finnish Geodetic Institute, Geoinformatics and  
Cartography)*



Thursday, August 29 2013

14:45 – 16:00

Room XXX

Session 13 E

## **Applied Issues in Mountain Cartography**

*Chair:*

***The Application and Effects of Sky Models on Hill Shading***  
*Kennelly, Patrick (LIU Post, Earth and Environmental Science)*

***Utilizing a Mobile Smartphone Application in a Mountainous Environment***  
*Kriz, Karel (University of Vienna, Department of Geography and Regional Research)*

***Designing Interactive Environment for Examination of 3D Maps for a Mountain Map Study***  
*Domajnko, Matevž (University of Ljubljana, Faculty of Civil and Geodetic Engineering)*

***Glacier Routes in High Mountain Maps - A No-Chance Challenge for Cartographers***  
*Buchroithner, Manfred F. (Dresden University of Technologies, Institute for Cartography)*

Thursday, August 29 2013

14:45 – 16:00

Room XXX

## Session 13 F

### Historical Maps

Chair:

***Karten von Attika: A Major German Contribution to Greek Cartographic Heritage and Its Digital Approach.***

*Koussoulakou, Alexandra (Aristotle University of Thessaloniki, Cadastre, Photogrammetry and Cartography)*

***Unveiling Historical Maps - The Interdisciplinary Atlas of Geopolitical Imaginaries of East Central Europe***

*Losang, Eric (Leibniz Institute for Regional Geography, Geovisualisation)*

***Comparative Analysis of Historical Maps from Canton of Zurich - Switzerland in an Interactive Online Platform***

*Tsorlini, Angeliki (ETH Zurich, Institute of Cartography and Geoinformation, Department of Civil, Environmental and Geomatic Engineering)*

***Digital Archiving and Online Publishing of Old Relief Models***

*Gede, Mátyás (Eötvös Loránd University, Department of Cartography and Geoinformatics)*

**Thursday, August 29 2013**

14:45 – 16:00

*Room XXX*

**Session 13 G**

**Mixed Session**

*Chair:*

# Sister Cities

**Thursday, August 29 2013**

14:45 – 16:00

*Room XXX*

## **Dresden and Its Sister Cities**

*Chair: NN*

### ***Dresden***

*Dora, Markus (Dresden, Geoinformation)*

### ***Columbus***

*Moellering, Harold and Ahlqvist, Ola (Ohio State University)*

### ***Hamburg***

*Matthias, Ekkehard (Landesbetrieb Geoinformation Hamburg)*

Thursday, August 29 2013

16:30 – 17:45

Room XXX

## Geospatial Analytics 2

Chair:

***Detail and Integrated Representation of Spatial Relations***

*Wu, Changbin (Nanjing Normal University, College of Geographical science)*

***Budapest 3D Underground Map***

*Zsoldi, Katalin (Eötvös Loránd University, Cartography and Geoinformatic)*

***Strabo: A Complete System for Label Recognition in Maps***

*Chiang, Yao-Yi (University of Southern California, Information Sciences Institute)*

***Identification of Peak Type Based on DEM***

*Zhang, De (Xi'an Research Institute of Surveying and Mapping)*

Thursday, August 29 2013

16:30 – 17:45

Room XXX

Session 14 B

## Accessing Historical Maps

Chair:

***GI Science Versus Cartography? Consequences of Separating  
Technical and Visualisation Expertise in 21st Century Mapping  
Processes.***

*Schulte, Bennet (Beuth Hochschule für Technik Berlin)*

***Publishing Old Maps as Dynamic Map Services***

*Havlicek, Jakub (CTU in Prague - Faculty of Civil Engineering,  
Department of mapping and kartography)*

***Journeys Through Time with the Swiss National Map Series***

*Rickenbacher, Martin (Federal Office of Topography swisstopo)*

***The Artistic Approach of Modern Greek Urban Cartography  
[1840-1940]***

*Myridis, Myron (Aristotle University of Thessaloniki, Department of  
Cartography)*

Thursday, August 29 2013

16:30 – 17:45

Room XXX

Session 14 C

## Generalisation 4

Chair:

***Measuring Locations of Critical Points Along Cartographic Lines  
with Eye Movements***

*Nakos, Byron (National Technical University of Athens, Rural and  
Surveying Engineering)*

***Topologically Safe Curved Schematization***

*van Goethem, Arthur (TU Eindhoven)*

***New Method of Creation Data for Natural Objects in MRDB Based  
on New Simplification Algorithm***

*Szombara, Stanisłwa (AGH University of Science and Technology,  
Department of Geomatics)*

***Towards Cartographic Constraint Formalization for Quality  
Evaluation***

*Zhang, Xiang (School of Resource and Environmental Science, Wuhan  
University, Cartography and Geoinformatics)*

Thursday, August 29 2013

16:30 – 17:45

Room XXX

## Data Enrichment

Chair:

### ***Grammar Supported Indoor Mapping***

*Fritsch, Dieter (University Stuttgart, Institute for Photogrammetry)*

### ***Urban Building Usage Labeling by Geometric and Context Analyses of the Footprint Data***

*Huang, Hai (Leibniz University Hannover, Institute of Cartography and Geoinformatics)*

### ***Contribution to the Establishment of an Address Referential***

*Sekkour, Khadidja (Centre des Techniques Spatiales, Système d'Information à Référence Spatiales)*

### ***Multi-Scale Data Organization and Management of 3D Moving Objects Based on GIS***

*Shenghua, Xu (Chinese Academy of Surveying and Mapping, Research center of Government GIS)*



Thursday, August 29 2013

16:30 – 17:45

Room XXX

Session 14 E

## Hydrological Extreme Events

*Chair:*

***Spatial Analysis of Affected Areas by Extreme Hydrological Events in Rio de Janeiro (The Host City for the 2016 Olympic Games) - Brazil***

*Leal Menezes, Paulo Márcio (Federal University of Rio de Janeiro)*

***Proposed Interactive Maps for Informing the Population of Flood Risks: Experiment in the City of Saint-Etienne, France***

*Chesneau, Elisabeth (ISTHME-UMR 5600-EVS, Université Jean Monnet de Saint-Etienne, Université de Lyon, Geography)*

***Monitoring Hydrological Extreme Events and their Effects Using Lightweight Unmanned Aircraft to Remote Sensing***

*Jeziorska, Justyna (University of Wroclaw, Institute of Geography and Regional Development)*

Thursday, August 29 2013

16:30 – 17:45

Room XXX

# Session 14 F

## Web Applications

Chair:

***Customizable Map Content and 3D Visualization in the Online Platform GeoVITe***

*Iosifescu, Cristina (Institute of Cartography and Geoinformation, ETH Zurich)*

***Geo Twitter Data Collection and Visualization System***

*Fujita, Hideyuki (The University of Tokyo, Center for Spatial Information Science)*

***Prosumers and Webmapping-Applications in Web 2.0***

*Hoffmann, Karsten (University of Osnabrück, Institute for Geoinformatics and Remote Sensing)*

***Designing a Web Service to Geo-Locate Subjects of Volunteered, Textual Geographic Information***

*Hardisty, Frank (The Pennsylvania State University, Department of Geography)*

**Thursday, August 29 2013**

16:30 – 17:45

*Room XXX*

**Session 14 G**

**Mixed Session**

*Chair:*

# Sister Cities

**Thursday, August 29 2013**

16:30 – 17:45

*Room XXX*

## **Dresden and Its Sister Cities**

*Chair: NN*

### **Wroclaw**

*Niedzielski, Tomasz (Wroclaw University)*

### **Salzburg**

*Strobl, Joseph (University of Salzburg)*

### **Strasbourg**

*Giraud, Henri (SERTIT / UNISTRA, University of Strasbourg)*

# Plenary Keynote

Friday, August 30 2013

8:30 – 9:15

Room XXX

## Plenary Keynote

*Digital Maps for Highly Automated Driving*  
Haueis, Martin (Daimler AG)

*Commission Reports:*

- *Commission on the History of Cartography*
- *Commission on Ubiquitous Mapping*
- *Commission on Use and User Issues*
- *Commission on Mountain Cartography*

Friday, August 30 2013

9:15 – 10:30

Room XXX

## Reconstruction of Historical Data

*Chair:*

***Cartographic Reconstruction of Historic Settlement Development  
by Means of Modern Geodata***

*Hurni, Lorenz (ETH Zurich, Institute of Cartography and  
Geoinformation)*

***The Way is the Goal - Modelling of Historical Roads***

*Breier, Markus (University of Vienna, Department of Geography and  
Regional Research)*

***GéoPeople: The Creation and the Analysis of Topographic and  
Demographic Data over 200 Years***

*Ruas, Anne (IFSTTAR, MACS)*

***Georeferencing of the Third Military Survey of Austrian Monarchy***

*Soukup, Lubomír (Research Institute of Geodesy, Topography, and  
Cartography, ODIS)*

Friday, August 30 2013

9:15 – 10:30

Room XXX

## Marine and Arctic Data Infrastructure

*Chair:*

***Representation of Coastal and Marine Environment in Spatial Data Infrastructures to the Integrated Coastal Zone Management***

*Menezes, Paulo Márcio Leal De (Federal University of Rio de Janeiro, Geography Department, GeoCart - Laboratory of Cartography)*

***Cooperative Mapping of the Arctic: The Creation of the Arctic Spatial Data Infrastructure***

*Taylor, D. R. Fraser (Carleton University, Geomatics & Cartographic Research Centre, Department of Geography and Environmental Studies)*

***Gaining Better Geospatial Knowledge About the Marine Biodiversity by Using Harmonized Data Models, Adequate Cartographic Visualizations and by Providing Easy Access***

*Lübker, Tillmann (German Federal Agency for Nature Conservation, Marine and Coastal Nature Conservation)*

Friday, August 30 2013

9:15 – 10:30

Room XXX

## Toponyms 1

Chair:

### ***Spatial Intelligence and Toponyms***

*Hećimović, Željko (State Geodetic Administration, NSDI)*

### ***Geonames – The Database of Geographical Names of the Czech Republic***

*Závodský, Ondřej (Land Survey Office)*

### ***Towards a Spatial Analysis of Toponym Endings***

*Dahinden, Tobias (Institut für Kartographie und Geoinformatik,  
Leibniz Universität Hannover)*

### ***Toponymy and Historical Cartography: The Legacy of Geographic Names on City of Cabo Frio – RJ***

*de Souza, Beatriz (Federal University of Rio de Janeiro, Geography)*



Friday, August 30 2013

9:15 – 10:30

Room XXX

Session 15 D

## Renewable Energies

*Chair:*

***ThermoMap – An Open Source Web Mapping Solution for  
Displaying Superficial Geothermic Resources***

*Simó, Benedek (MFGI, Geoinformatics)*

***Windfarms: GIS-Based Visual Impact Assessment and Visualization  
Tools***

*Chias, Pilar (University of Alcala - School of Architecture,  
Architecture)*

***EnerGeoPlan – Power System Aware Planning of Renewable  
Energies***

*Knies, Jürgen (OFFIS, Energy)*

Friday, August 30 2013

9:15 – 10:30

Room XXX

Session 15 E

## Cartography 2013

Chair:

***The State of the Art in Cartography in 2013***

*Buckley, Aileen (Esri, Inc.)*

***Living On Fumes: What “Small Data” Interviews Can Tell Us About Location-Based Services and Big Data’s Increasing Role in What We Know and Where We Are.***

*Thatcher, Jim (Clark University, Geography)*

***Learning from Location History for Context-Aware Location Recommendation in LBS***

*Huang, Haosheng (Vienna University of Technology, Research Group Cartography)*

Friday, August 30 2013

9:15 – 10:30

Room XXX

## Remote Sensing

Chair:

***Land Cover Trends In Metro Vancouver, Canada over 45 Years:  
Mapping, Analysis, and Visualization***

*Shupe, Scott (University of the Fraser Valley, Geography)*

***Qualification of Pleiades Stereo Pairs for Updating IGN-France's BD  
Topo® Data Base***

*Cantou, Jean-Philippe (Institut Geographique National - France, IGN  
Espace)*

***Reservoir Water Transparency Calculated Through Multispectral  
Ikonos Imagery and Field Spectroradiometry***

*Castreghini de Freitas Pereira, Adriana (Londrina State University,  
Geosciences)*

***Laser Scanning Survey in the Pál-völgy Cave, Budapest***

*Gede, Mátyás (Eötvös Loránd University, Department of Cartography  
and Geoinformatics)*

Friday, August 30 2013

9:15 – 10:30

Room XXX

Session 15 G

**User Needs**

*Chair:*

***Maps Versus Its Users in the Digital Era: Interpretation, Cognition, and Memory***

*Ooms, Kristien (Ghent University, Department of Geography)*

***Evaluating the Usefulness of Overview Visualisations for Users with Varying Levels of Domain Knowledge***

*Bleisch, Susanne (The University of Melbourne, Infrastructure Engineering)*

***User Needs Analysis for the Design of a New Campus Geodatabase***

*Forrest, David (University of Glasgow, School of Geographical & Earth Sciences)*

***Defining Standard Symbols for Street Network Maps for Urban Planning Based on User Requirements***

*Robbi Sluter, Claudia (Federal University of Paraná, Department of Geomatics)*

# Dt. Kartographentag

**Friday, August 30 2013**

9:15 – 10:30

Room XXX

## **Aktuelle Entwicklungen in der Atlaskartographie**

*Chair:*

### ***Deutsche Atlaskartographie im 21. Jahrhundert: Quo vadis?***

*Wolodtschenko, Alexander (Technische Universität Dresden, Institut für Kartographie)*

### ***Digitale Atlaskartographie – Herausforderungen, Chancen und Lösungen***

*Sieber, René (ETH Zürich, Institut für Kartografie und Geoinformation)*

### ***Europe-in-Maps – von der Vollständigkeit zur Vielfalt***

*Losang, Eric und Hanewinkel, Christian (Leibniz Institut für Länderkunde Leipzig)*

### ***Der "Island Auto Atlas" - ein plattformübergreifender Reiseführer***

*Gollenstede, Andreas (Jade Hochschule Oldenburg, Geoinformation)*

# Early Warning and Crisis Management

**Friday, August 30 2013**

9:15 – 10:30 and 11:00 – 12:15

Room XXX

## **Early Warning and Crisis Management**

*Chair: Milan Konecny*

***“GLOFs - Glacier Lake Outburst Floods, a Worldwide Threat for  
Alpine Areas”***

*Buchroithner, Manfred (Austria)*

***Mapping Standards Principles and Proposals for Disaster  
Management***

*Bandrova, Temenoujka Lubenova and Konecny, Milan  
(Bulgaria/Czech Republic)*

***Cartography in the Communication of Stakeholders in Risk  
Situations, Disasters and in Civil Protection***

*Kremers, Horst (Germany)*

***Cartographic and Geoinformatics Strategies for Early Warning and  
Crises Management***

*Konecny, Milan (Czech Republic)*

***Emergency Support System: Story of One Project***

*Reznik, Tomas (Czech Republic)*

Friday, August 30 2013

11:00 – 12:15

Room XXX

## Geospatial Analytics 3

*Chair:*

***Cave Volumetric Studies Based on Archive Maps of the Pál-völgy Cave (Hungary)***

*Ungvári, Zsuzsa (Eötvös Loránd University, Department of Cartography and Geoinformatics)*

***The Use of GIS Technology for Planning of GNSS Measurement***

*Opatřilová, Irena (Brno University of Technology, Institute of geodesy)*

***Site Selection for the Next Chinese Antarctic Research Station***

*Zhao, Xi (Wuhan University, Chinese Antarctic Center of Surveying and Mapping)*

***A New Algorithm for Extracting Drainage Networks from Gridded DEMs***

*Wang, Tao (Singapore-ETH Centre, Future Cities Laboratory)*

Friday, August 30 2013

11:00 – 12:15

Room XXX

Session 16 B

## Toponyms 2

Chair:

***Toponymy Evolution of Rio de Janeiro State, Brazil***

*Menezes, Paulo (Federal University of Rio de Janeiro, Geography)*

***Geographic Names as a Cultural Expression: An Analysis of the City of Petrópolis – RJ***

*de Souza, Beatriz (Federal University of Rio de Janeiro, Geography)*

***Toponyms Placement on Web Maps***

*Župan, Robert (Faculty of Geodesy, Cartography)*

***Enhancing the Reading and Understanding the Toponymic Map Features by Using TIS: A Case Study from Tunisia***

*Mohsen, Dhieb (FLSHS - SYFACTE - ATCIG, Geography)*



Friday, August 30 2013

11:00 – 12:15

Room XXX

Session 16 C

## **Glaciers in Mountain Cartography**

*Chair:*

***Interactive 3D-Visualisation of Glacier Changes Based on the Swiss  
World Atlas Interactive***

*Brüngger, Aline (Institute of Cartography and Geoinformation, ETH  
Zurich)*

***Geovisualisation of Alpine Glacier Elevation Changes in Western  
Canada***

*Wheate, Roger (University of Northern British Columbia, Natural  
Resources and Environmental Studies)*

***The Suitability of Historical Satellite Imagery for Investigations of  
the Cryosphere***

*Pieczonka, Tino (TU Dresden, Institute of Cartography)*

***Documentation of the Glacier Retreat in the Eastern Part of the  
Granatspitz Mountains (Austrian Alps) Using Aerial Photographs  
for the Time Period 2003-2009***

*Kaufmann, Viktor (Graz University of Technology, Institute of Remote  
Sensing and Photogrammetry)*

Friday, August 30 2013

11:00 – 12:15

Room XXX

Session 16 D

## National Thematic Data Bases

*Chair:*

***The Informa of the State Map Series in the Czech Republic***

*Traurig, Michal (Land Survey Office, Departement of cartography and polygraphy)*

***The Detailed Geological Map of Poland - 60 Years of a Project, from a Traditional Cartography to a Digital Processing***

*Jóźwik, Katarzyna (Polish Geological Institute - National Research Institute, Geological Cartography)*

***New Elevation Models of the Czech Republic***

*Skalická, Iveta (Land Survey Office, Land Survey Department)*

***Fundamental Base of Topographic Data of Czech Land Survey Office as a Source for Database Cartography and Other Applications.***

*Šídlichovský, Pavel (Land Survey Office, Database Administration Section)*

Friday, August 30 2013

11:00 – 12:15

Room XXX

Session 16 E

## Historical Survey and Mapping

*Chair:*

***The Springboks in East Africa: The role of the SA Survey Company (SAEC) in the East African Campaign of World War II, 1939-1941***

*Liebenberg, Elri (University of South Africa, Department of Geography)*

***A Less Known Topographic Survey: A 1: 50 000 Scale Military Survey of Hungary (1940-1944)***

*Zentai, László (Eötvös University, Cartography and Geoinformatics)*

***1:1 Million Scale Mapping of India and the International Map of the World***

*Forrest, David (University of Glasgow, School of Geographical & Earth Sciences)*

***Residentiekaarten, Contents and Usability of the 19th Century Topographical Maps of Java***

*Ormeling, Ferjan (Utrecht University, Faculty of Geosciences)*

Friday, August 30 2013

11:00 – 12:15

Room XXX

## Cartographic Learning Environments

*Chair:*

***The Web-Based Swiss World Atlas Interactive: First Evaluation of User Experiences in Modern Geography Education***

*Haeberling, Christian (Institute of Cartography and Geoinformation, ETH Zurich)*

***Virtual GIS Laboratory for Educational Needs***

*Medvedev, Andrey (Institute of Geography of Russian Academy of Sciences, Department of cartography)*

***PaikkaOppi - A Virtual Learning Environment on Geographic Information for Upper Secondary School***

*Kähkönen, Jaakko (Finnish Geodetic Institute, Geoinformatics and Cartography)*

**Friday, August 30 2013**

11:00 – 12:15

*Room XXX*

**Session 16 G**

**Mixed Session**

*Chair:*

# Closing Ceremony

**Friday, August 30 2013**

14:00 – 16:00

*Room XXX*

## Closing Ceremony

*ICA Best Map Awards  
ICA Petchenik Award  
Winner of Orienteering Competition*

*Rio de Janeiro*

*Musical Arrangements*