

SCIENTIFIC PROGRAMME



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SYMPOSIUM 09 - *Topography, Mapping, 3D, Documentation / Topographie, cartographie 3D, documentation*

Monday / Lundi – 5A: CHAMECHAUDE

- 14:00 - 14:10 INTRODUCTION S.09 - Chairman : Philipp HÄUSELMANN
- 14:10 - 14:30 Jean-Jacques DELANNOY, Jean-Michel GENESTE, Stéphane JAILLET, Julien MONNEY, Laurent BRUEL, Alain DAGAND & Nelly LE MASNE DE CHERMONT : Atlas de la grotte Chauvet-Pont d'Arc : (re)présenter une grotte ornée par les cartes
- 14:30 - 14:50 Philippe CROCHET & Annie GUIRAUD : What type of photograph can document caves?
- 14:50 - 15:10 Tommaso SANTAGATA, Francesco SAURO, Marco VATTANO, Geoffrey LE PIVAIN & Adrian BRIOD : Cave exploration and documentation through "collision-tolerant" drones
- 15:10 - 15:30 Dino GROZIĆ, Luka ANTONIĆ & Oleg ANTONIĆ : Large scale test of ALS LiDAR data utilization for cave entrance detection: a case study from the UNESCO World Heritage Site - Plitvice Lakes National Park, Croatia
- 15:30 - 15:50 Jean-Pierre CASSOU : La topographie des carrières souterraines de Citon-Cénac (Gironde)
- 15:50 - 16:20 PAUSE
- 16:20 - 16:40 Silvain YART & Jean-Luc FRONT : Topographie en milieu urbain : le cas des carrières souterraines d'Orléans (France)
- 16:40 - 17:00 Claude MOURET : Strategies in cave mapping: an indicator of cavers' psychology
- 17:00 - 17:20 Silvain YART & Thomas JACOB : Coupling microgravimetry and laser scanning: a novel approach to improve underground cavities detection in urbanized areas
- 17:20 - 17:40 Paolo FORTI & Marco VATTANO : The oldest "cave cadaster" of the World
- 17:40 - 18:00 Philipp HÄUSELMANN : UIS sub-commission Survey and mapping: 24 years of existence

Tuesday / Mardi - 5A: CHAMECHAUDE

- 08:30 - 08:40 INTRODUCTION S.09
- 08:40 - 09:00 Philip John ROWSELL & Graham HUNTER : Mobile Handheld 3D Laser Scanning Cave surveying of the future?
- 09:00 - 09:20 Vickie SIEGEL, William C. STONE, Kristof RICHMOND, John HARMAN, Christopher FLESHER & Neal TANNER : Survey and 3-D mapping of underwater caves using a SUNFISH® AUV
- 09:20 - 09:40 Tommaso SANTAGATA, Umberto DEL VECCHIO, Francesco SAURO, Elena Mateo MEDEROS, Matteo MASSIRONI & Riccardo POZZOBON : 3D mapping of the Corona lava tube system
- 09:40 - 10:00 Tommaso SANTAGATA, Alessandro MARRAFFA, Jo DE WAELE & Francesco SAURO : Detecting morphological changes through terrestrial laser scanning in salt and ice caves: the cases of Cueva Lechuza (Atacama, Chile) and Cenote Abyss (Dolomites, Italy)

- 10:00 - 10:20 Hicham BENANI, Larbi BOUDAD, Hassan RHINANE, Ayoub NEHILI, Abdelaziz AOUAAL, Makram LEKNIZI, Soufiane KAAB, Nadia SLIMANI, Mohamed BELFATMI, Ismail AJDOURI & Soufiane GANNAOUI : Modélisation 3D et apport du SIG dans l'exploitation de l'endokarst : cas de la grotte Aziza, province d'Errachidia, Maroc
- 10:20 - 10:50 PAUSE
- 10:50 - 11:10 Jules KEMPER, Stéphane JAILLET, Jean-Jacques DELANNOY, Laurence AUDIN, Marie BARDISA & Kim GENUITE : A high-resolution 3D model of the Chauvet cave entrance area (Ardèche, France): scree, scarp and related caves
- 11:10 - 11:30 Isidoros KAMPOLIS, Stavros TRIANTAFYLIDIS & Sotiris KOKKALAS : Revisiting the speleomorphology of the Cave of Lakes in northern Peloponnese (S. Greece) from a 3D laser scanning perspective
- 11:30 - 11:50 Margot VIVIER, Jean-Baptiste CHARLIER, Pauline COLLON & Stéphane JAILLET : Characterizing 3D geomorphology of a karst network using Karstnet: application to the Verneau system (French Jura)
- 11:50 - 12:10 Philip R. SCHUCHARDT : CaveWhere® – Creating 3D Cave Maps by Warping and Projecting 2D Profile Sketches
- 12:10 - 12:30 Julian TODD & Phil ROWSELL : Movie style cave fly-thoroughs and 3D visualisation made possible with TunnelVR
- 12:30 - 14:00 LUNCH
- 14:00 - 14:10 INTRODUCTION S.09 – Chairman : Yavor SHOPOV
- 14:10 - 14:30 Matic DI BATISTA & Špela BORKO : eKataster – online cave database solution
- 14:30 - 14:50 Graziano W. FERRARI : Virtual caving libraries: toward a network of bibliographic information resources
- 14:50 - 15:10 Éric MADELAINE, Peter MATTHEWS & Frédéric URIEN : KarstLink: organise the sharing of karst data
- 15:10 - 15:30 Frédéric URIEN & Didier BORG : GrottoCenter / Wikicaves : partager l'information
- 15:30 - 15:50 Anamaria Diana HÄUSELMANN, Didier BORG & Frédéric URIEN : The evolution of the Speleological Abstracts (BBS/SA)
- 15:50 - 16:20 PAUSE
- 16:20 - 16:40 Eric MADELAINE & Yves MARGARIA : Radiolocalisation à la grotte de Pâques
- 16:40 - 17:00 Gergely SURÁNYI, Gergő HAMAR, Dezső VARGA, Szabolcs J. BALOGH, Gábor NYITRAI, Gábor MOLNÁR, Ádám L. GERA, Gábor GALGÓCZI & Gergely G. BARNAFÖLDI : Cavity Location by Muon Tomography
- 17:00 - 17:20 Yavor SHOPOV, Ognian OGNIANOV & Krisia PETKOVA : Remote Location of unknown caves by Thermal Cameras
- 17:20 - 17:40 Cécile VERDET, Colette SIRIEIX, Antoine MARACHE, Joëlle RISS & Jean-Christophe PORTAIS : Observer un karst sous couverture en 3D grâce à la géophysique (TRE) Colline de Lascaux
- 17:40 - 18:00 Yavor SHOPOV & Lyudmil TSANKOV : First Successful finding of an Unknown Cave by Remote Location by Near Infrared Imaging using NDVI index
- 18:00 - 18:20 Yavor SHOPOV : The International Program on "Techniques for Remote Location of Caves" (RLC) of the International Union of Speleology (UIS): state-of-the-art