Conference Programme

SUSTAINABLE AGGREGATES RESOURCE MANAGEMENT
SARM International Conference
SEPTEMBER 20 - 22, 2011
Ljubljana, Slovenia

WWW.SARMAPROJECT.EU
WWW.GEO-ZS.SI

Geological Survey of Slovenia
Dimičeva ulica 14
SI – 1000 Ljubljana
Slovenia

Organizing Committee:
dr. Slavko V. Šolar
dr. Gorazd Žibret
Ana Burger
Alianta d.o.o.
Place of the event:

Hotel Lev*****
http://www.hotel-lev.si
Vošnjakova ulica 1
SI - 1000 Ljubljana, Slovenija,
Phone: +386 1 433 21 55

Technical notes:

- A computer with Windows platform and MS Office 2007 will be available for presentation
- Speakers are asked to bring their presentations in both MS Office and PDF formats
- wireless internet in the conference hall
- all speakers are kindly asked to give their presentations to technical staff before the beginning of the session
- registration desk is open on tuesday, 20th of September from 8:00 at the entrance to the conference hall and will be opened until the end of the conference

Useful links:

- Ljubljana tourist information: http://www.visitljubljana.si/en/tic@visitljubljana.si
- Ljubljana Airport: http://www.lju-airport.si/eng
- Transportation from airport to any address in Ljubljana: http://www.prevozi-markun.com/en/
- Slovenia tourist information: http://www.slovenia.info/
- Comprehensive interactive map of Slovenia (in Slovene) http://zemljevid.najdi.si/
- Taxi services: +386 80 1190 (Metro), +386 080 1117 (Laguna), +386 080 1955 (Intertours)

Contact us:

- Gorazd Žibret (conference organization) gorazd.zibret@geo-zs.si +386 41 370 740
- Slavko V Šolar (SARMa project coordinator) slavko.solar@geo-zs.si
- Ana Burger (SARMa project related questions) ana.burger@geo-zs.si
- Alianta d.o.o. (administrative issues) urska.zelic@alianta.si

Programme at Glance:
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<th>Speakers/Details</th>
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<tr>
<td>09:00 – 09:20</td>
<td>WELCOME ADDRESS</td>
<td>Urška Zelič</td>
<td>Opening of the SARM International Conference.</td>
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<tr>
<td>09:20 – 11:00</td>
<td>PLENARY SESSIONS</td>
<td>Urška Zelič</td>
<td>Invited speakers: EU SEE programme and EU minerals / aggregates initiatives</td>
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<td></td>
<td>Sustainability and the EU Raw Material Initiative – strategies of the European Commission</td>
<td></td>
<td>Antje Wittenberg, DG Enterprise and Industry, European Commission (20’)</td>
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<td>South East Europe Transnational Programme: present and future</td>
<td></td>
<td>Alessandra Pala, Joint Technical Secretariat, HU (20’)</td>
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<td>Managing Aggregates Supply in England</td>
<td></td>
<td>Joseph Mankelow &amp; Gus Gunn, British Geological Survey, GB (20’)</td>
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<td>UEPG supports the SARMA Project in working together towards a Sustainable European Aggregates Industry</td>
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<td>Jim O'Brian, European Aggregates Association (20’)</td>
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<tr>
<td>11:00 – 11:30</td>
<td>COFFEE BREAK</td>
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### Tuesday, September 20, 2011

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<tr>
<th>Time</th>
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<tr>
<td>11:30 – 12:45</td>
<td>SARMa project I</td>
<td>Ubaldo Cibin</td>
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<tr>
<td></td>
<td>Sustainable resource management at local (extraction) level: environmentally friendly extraction practices, recycling of aggregates, and illegal quarrying and related issues.</td>
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<td>SARMa Project: Overview</td>
<td>Slavko V. Solar &amp; Deborah Shields, Geological Survey of Slovenia, SLO &amp; Colorado State University, USA (15’)</td>
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<td></td>
<td>Illegal quarrying - a problem to be solved</td>
<td>Marcel Maruntiu, National Institute for Research-Development in domain of Geology, Geophysics, Geochemistry and Remote Sensing, RO (15’)</td>
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<td>Integrated life cycle management of aggregates quarrying, processing and recycling: definition of a common LCA methodology in the SARMa Project</td>
<td>Gian Andrea Blengini &amp; Elena Garbarino, Politecnico di Torino &amp; Provincia di Torino, IT (15’)</td>
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<td>Key Requirements for a sustainable aggregate supply and management on the local level</td>
<td>Kiki Hatzizaridou &amp; Fotini Chalkiopoulou, Institute of Geology and Mineral Exploration, GR (15’)</td>
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<td>Friendly quarry design: Parma Province and Emilia-Romagna Region experience</td>
<td>Pietro Boggio, Andrea Pelosio &amp; Massimo Romagnoli, Parma Province, Parma, IT (15’) &amp; Emilia-Romagna Region, Bologna, IT (15’)</td>
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<tr>
<td>13:00 – 14:00</td>
<td>Lunch</td>
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<td>14:00 – 15:30</td>
<td>SARMa project II</td>
<td>Sokol Mati</td>
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<td>Sustainable aggregate resource management at the regional and trans-regional / trans-national scale: extraction friendly policies, legislation and regulations, bottlenecks, spatial planning for aggregates, planning for sustainable supply mix (SSM), planning for secure aggregate supply, trans-national aggregate supply cooperation, and related issues.</td>
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<td>Providing a Sustainable Supply Mix of Aggregates: State-of-the-art in South-East Europe</td>
<td>Ubaldo Cibin &amp; Stefano Furin, Emilia-Romagna Region – Environment, Soil and Coast Defence Department, IT &amp; Geotema S.r.L., Ferrara, IT (15’)</td>
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<td>A GIS conceptual model to support aggregates resource efficiency and sustainability</td>
<td>Stefano Furin, Geotema S.r.L., Ferrara, IT (15’)</td>
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<td>Collision of laws</td>
<td>Ivana Šimić, Ministry of Economic Affairs of Herzegovinian Canton, BIH (15’)</td>
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<td>Sustainable Aggregate Resource Management on transnational level</td>
<td>Günter Tiess, University of Leoben, AUT, (15’)</td>
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<td>Best practices in quarrying</td>
<td>Zacharias Agioutantis, Technical University Crete, GR (15’)</td>
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<td>SARMa Project: synthesis</td>
<td>Deborah Shields &amp; Slavko V. Šolar, Colorado State University, USA &amp; Geological Survey of Slovenia, SLO (15’)</td>
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<td>15:30 – 16:00</td>
<td>Coffee Break</td>
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Tuesday, SEPT 20, 2011

16:00 – 17:30  Aggregates Topics
Chairperson: Horst Hejny

Reserved for the oral presentations of conference participants with emphasis on results outside the SARMa project.

• Rehabilitation of landscapes degraded by stone, clay and sand exploitation – case studies from Serbia
  Dragana Dražić, Milorad Veselinović, Nevena Ćulê & Suzana Mitrović, Institute of Forestry, Belgrade, SRB (15’)

• Utilization of dimension stone quarry waste as aggregate in concrete
  Hakan ELÇI, Necdet TÜRK, Ismail IŞİNTEK, Dokuz Eylul University, İzmir, TR (15’)

• Influence of quarrying on flood risk. Case study: modelling and prediction of the natural and anthropic hazard
  on Ialomita River
  Cetean Valentina, Prospectiuni SA, Bucharest, RO (15’)

• SWOT Analysis as a tool in the C&D debris management after catastrophic events
  Carla Furcas & Ginevra Balletto, DIGITA - Department of Geoengineering and Environmental Technologies, University of Cagliari, IT (15’)

• Harmonizing mineral extraction activities and EU Nature Directives requirements (Natura 2000) through
  application and/or development of general and national guidance documents (COAST project) related to
  appropriate assessment in accordance with article 6(3,4) of the Habitat Directive
  Neven Trenc, State Institute for Nature Protection, Zagreb, CRO (15’)

• Usability of granitic rock wastes as asphalt aggregate
  Murat Yilmaz & Atiye Tuğrul, Istanbul University, TR (15’)

20:00

NETWORKING DINNER at Hotel Lev
**Wednesday, SEPT 21, 2011**

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<th>Time</th>
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<tr>
<td>9:30 – 10:30</td>
<td><strong>INVITED SPEAKERS</strong></td>
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<td>Chairperson: Vladimir Simić</td>
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<td>Invited speakers: environmentally and operationally friendly quarry design, minerals plans and policies, and aggregate recycling.</td>
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- The quarry design process as an essential framework for sustainable planning and operation of aggregates quarries  
  Ruth Allington, European Federation of Geologists, UK (15')

- Austrian Minerals Plan  
  Robert Holnsteiner, Ministry of Economy, Family and Youth, AUT (15')

- The use of alternative aggregates in Slovenia  
  Ana Mladenović, Slovenian National Building and Civil Engineering Institute, SLO (15')

- Aggregates Production in Istanbul  
  Atije Tağrul, Istanbul University, TR (15')

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<td>10:30 – 11:00</td>
<td><strong>COFFEE BREAK</strong></td>
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<th>Time</th>
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<tr>
<td>11:00 – 12:30</td>
<td><strong>Panel Discussion: aggregates topics</strong></td>
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<td>Co leads: Slavko V. Šolar, Deborah Shields, &amp; Zacharias Agioutantis</td>
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<td>SARMa follow-up discussion with all participants with emphasis on establishment of Regional Centre on SARM and SSM.</td>
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- Regional Center of SARM & SSM  
  Žibret Gorazd & Mitja Ruzzier, Geological survey of Slovenia & Faculty for Management, University of Primorska, SLO (15')

- discussion  
  all participants

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<td>12:30 – 14:00</td>
<td><strong>LUNCH</strong></td>
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### SARMa project III

**Chairperson:** Gian Andrea Blengini

Reserved for the oral presentations of conference participants with emphasis of the results of the SARMa project.

- **Sustainability development of aggregates supply in cross border areas based on the National, Regional and EU Policies**  
  Sokol Mati, Ledi Motsiu & Albert Avshiua, Ministry of Economy Trade and Energy & Geological Survey of Albania, Tirana, ALB (15’)

- **Spatial planning and aggregates resource management in Croatia**  
  Slobodan Miko, Boris Kruk, Željko Dedić & Ozren Hasan, Croatian Geological Survey, CRO (15’)

- **Management and sustainable development of aggregates quarries examples from center and south of Romania**  
  Gabriela Silviana Marica & Gabriel Bindea, Geological Institute from Romania, RO (15’)

- **Aggregates supply in Serbia**  
  Vladimir Simić, Dragana Životić & Zoran Miladinović, University of Belgrade, SRB (15’)

- **Kosovo quarry plan**  
  Zenun Elezaj, Ahmet Thnava, Azem Rexhaj & Xhevdet Kastrati, ICMM Kosovo, KO (15’)

- **Airborne geophysical survey in Kosova**  
  Xhevdet Kastrati, Independent Commission for Mines and Minerals of Kosova, Prishtina, KO (15’)

- **National mineral resource database as a support for the mining sector**  
  Duška Rokavec, Katarina Hribenik & Jasna Šinigoj, Geological survey of Slovenia (15’)

### 15:45 Conference Closing

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**POSTERS**

- **Recycled construction materials as supplemental raw materials for the OPC clinker production in Salonit Anhovo**  
  Željko Pogačnik, Salonit Anhovo, Balidnig Materials, Joint-Stock Co., Slovenia

- **Sustainable development in the dolomite and keratophyre quarry Kamna Gorica**  
  Martina Pucihar & Timotej Verbovšek
  1. Terre RB d.o.o., Slovenia
  2. University of Ljubljana, Faculty of natural sciences and technology, department of geology, Slovenia

- **Quarrying statistics in Romania: non-energetic and non-metalliferous mineral substances**  
  Mihai Marinescu, Bucharest University, Geology and Geophysics Faculty, Romania  
  mmmar54@yahoo.com
FIELD TRIP

Thursday, 22\textsuperscript{th} of September

Meeting at the hotel: 08:40
Departure: 08:45
Approximate arrival back to Ljubljana: 20:00
Recommended equipment: hiking boots, jacket

Visit of one of the Slovenian quarries, the Škocjanske World Heritage cave site, and the Idrija mercury mine.