

## Conference Programme

# **SUSTAINABLE AGGREGATES RESOURCE MANAGEMENT**

## **SARM International Conference**

**SEPTEMBER 20 - 22, 2011**

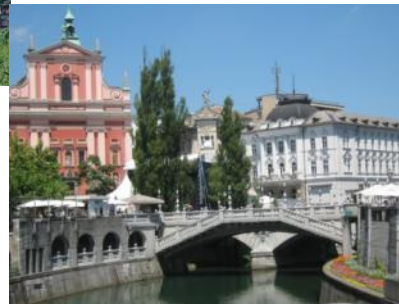
**Ljubljana, Slovenia**



[WWW.SARMAPROJECT.EU](http://WWW.SARMAPROJECT.EU)



[WWW.GEO-ZS.SI](http://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.

	9:00	9:30	10:30	11:00	12:30	14:00	15:30	16:00	17:30
tuesday 20th	Welcome Address	Plenary Sessions	coffee break	Plenary Sessions	lunch	SARM Local Level	coffee break	SARM National and Trans- national Levels	ocial event
wednesday 21st		Invited Speakers		SARMa Project Speakers		Guests		Guests	Ljubljana roundtrip
thursday 22nd	FIELD TRIP								

## PROVISIONAL PROGRAMME

**Tuesday, SEPT 20, 2011**

09:00 – 09:20

### **WELCOME ADDRESS**

*Chairperson: Urška Zelič*

Opening of the SARM International Conference.

- Slovenian Ministry of the Economy
- Joint Technical Secretariat
- Slovenian Ministry of the Environment and Spatial Planning
- Geological Survey of Slovenia

09:20 – 11:00

### **PLENARY SESSIONS**

*Chairperson: Urška Zelič*

Invited speakers: EU SEE programme and EU minerals / aggregates initiatives

- Sustainability and the EU Raw Material Initiative – strategies of the European Commission  
*Antje Wittenberg, DG Enterprise and Industry, European Commission (20')*
- South East Europe Transnational Programme: present and future  
*Alessandra Pala, Joint Technical Secretariat, HU (20')*
- Managing Aggregates Supply in England  
*Joseph Mankelov & Gus Gunn, British Geological Survey, GB (20')*
- UEPG supports the SARMA Project in working together towards a Sustainable European Aggregates Industry  
*Jim O'Brian, European Aggregates Association (20')*
- The Aggregates Sector in the Context of Future of European Funding Systems  
*Horst Hejny, The Mineral Industry Research Organization (20')*

11:00 – 11:30

**COFFEE BREAK**



## Tuesday, September 20, 2011

<b>11:30 – 12:45</b>	<p><b>SARMa project I</b>  <i>Chairperson: Ubaldo Cibi</i></p> <p>Sustainable resource management at local (extraction) level: environmentally friendly extraction practices, recycling of aggregates, and illegal quarrying and related issues.</p>
<ul style="list-style-type: none"> <li>• SARMa Project: Overview  <i>Slavko V Šolar &amp; Deborah Shields, Geological Survey of Slovenia, SLO &amp; Colorado State University, USA (15')</i></li> <li>• Illegal quarrying - a problem to be solved  <i>Marcel Marunțiu, National Institute for Research-Development in domain of Geology, Geophysics, Geochemistry and Remote Sensing, RO (15')</i></li> <li>• Integrated life cycle management of aggregates quarrying, processing and recycling: definition of a common LCA methodology in the SARMa Project  <i>Gian Andrea Blengini &amp; Elena Garbarino, Politecnico di Torino &amp; Provincia di Torino, IT (15')</i></li> <li>• Key Requirements for a sustainable aggregate supply and management on the local level  <i>Kiki Hatzilazaridou &amp; Fotini Chalkiopolou, Institute of Geology and Mineral Exploration, GR (15')</i></li> <li>• Friendly quarry design: Parma Province and Emilia-Romagna Region experience  <i>Pietro Boggio, Andrea Pelosio &amp; Massimo Romagnoli, Parma Province, Parma, IT (15') &amp; Emilia-Romagna Region, Bologna, IT (15')</i></li> </ul>	
<b>13:00 – 14:00</b>	<b>LUNCH</b>
<b>14:00 – 15:30</b>	<p><b>SARMa project II</b>  <i>Chairperson: Sokol Mati</i></p> <p>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.</p>
<ul style="list-style-type: none"> <li>• Providing a Sustainable Supply Mix of Aggregates: State-of-the-art in South-East Europe  <i>Ubaldo Cibi &amp; Stefano Furin, Emilia-Romagna Region – Environment, Soil and Coast Defence Department, IT &amp; Geotema S.r.l., Ferrara, IT (15')</i></li> <li>• A GIS conceptual model to support aggregates resource efficiency and sustainability  <i>Stefano Furin, Geotema S.r.l., Ferrara, IT (15')</i></li> <li>• Collision of laws  <i>Ivana Šimić, Ministry of Economic Affairs of Herzegbosnian Canton, BIH (15')</i></li> <li>• Sustainable Aggregate Resource Management on transnational level  <i>Günter Tiess, University of Leoben, AUT, (15')</i></li> <li>• Best practices in quarrying  <i>Zacharias Agioutantis, Technical University Crete, GR (15')</i></li> <li>• SARMa Project: synthesis  <i>Deborah Shields &amp; Slavko V. Šolar, Colorado State University, USA &amp; Geological Survey of Slovenia, SLO (15')</i></li> </ul>	
<b>15:30 – 16:00</b>	<b>COFFEE BREAK</b>



**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 Čule & Suzana Mitrović, Institute of Forestry, Belgrade, SRB (15')*
- Utilization of dimension stone quarry waste as aggregate in concrete  
*Hakan ELÇI, Necdet TÜRK, İsmail İŞİNTEK, Dokuz Eylül 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, İstanbul University, TR (15')*

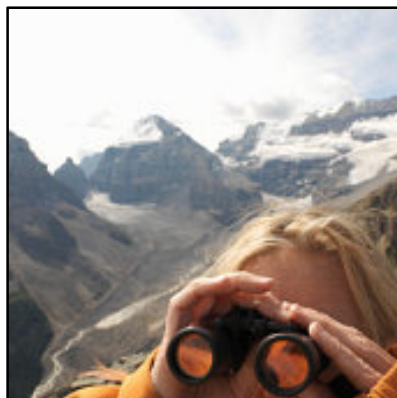
**20:00**

**NETWORKING DINNER at Hotel Lev**



**Wednesday, SEPT 21, 2011**

9:30 – 10:30	<b>INVITED SPEAKERS</b> <i>Chairperson: Vladimir Simić</i>  Invited speakers: environmentally and operationally friendly quarry design, minerals plans and policies, and aggregate recycling.
	<ul style="list-style-type: none"> <li>• The quarry design process as an essential framework for sustainable planning and operation of aggregates quarries  <i>Ruth Allington, European Federation of Geologists, UK (15')</i></li> <li>• Austrian Minerals Plan  <i>Robert Holnsteiner, Ministry of Economy, Family and Youth, AUT (15')</i></li> <li>• The use of alternative aggregates in Slovenia  <i>Ana Mladenovič, Slovenian National Building and Civil Engineering Institute, SLO (15')</i></li> <li>• Aggregates Production in Istanbul  <i>Atije Tuğrul, İstanbul University, TR (15')</i></li> </ul>
10:30 – 11:00	<b>COFFEE BREAK</b>
11:00 – 12:30	<b>Panel Discussion: aggregates topics</b> <i>Co leads: Slavko V. Šolar, Deborah Shields, &amp; Zacharias Agioutantis</i>  SARMa follow-up discussion with all participants with emphasis on establishment of Regional Centre on SARM and SSM.
	<ul style="list-style-type: none"> <li>• Regional Center of SARM &amp; SSM  <i>Žibret Gorazd &amp; Mitja Ruzzier, Geological survey of Slovenia &amp; Faculty for Management, University of Primorska, SLO (15')</i></li> <li>• discussion  <i>all participants</i></li> </ul>
12:30 – 14:00	<b>LUNCH</b>



14:00 – 15:45	<b>SARMa project III</b> <i>Chairperson: Gian Andrea Blengini</i>  Reserved for the oral presentations of conference participants with emphasis of the results of the SARMa project.
	<ul style="list-style-type: none"> <li>• Sustainability development of aggregates supply in cross border areas based on the National, Regional and EU Policies  <i>Sokol Mati, Ledi Moisiu &amp; Albert Avxhiu, Ministry of Economy Trade and Energy &amp; Geological Survey of Albania, Tirana, ALB (15')</i></li> <li>• Spatial planning and aggregates resource management in Croatia  <i>Slobodan Miko, Boris Kruk, Željko Dedić &amp; Ozren Hasan, Croatian Geological Survey, CRO (15')</i></li> <li>• Management and sustainable development of aggregates quarries examples from center and south of Romania  <i>Gabriela Silviana Marica &amp; Gabriel Bindea, Geological Institute from Romania, RO (15')</i></li> <li>• Aggregates supply in Serbia  <i>Vladimir Simić, Dragana Životić &amp; Zoran Miladinović, University of Belgrade, SRB (15')</i></li> <li>• Kosovo quarry plan  <i>Zenun Elezaj, Ahmet Tmava, Azem Rexhaj &amp; Xhevdet Kastrati, ICMM Kosovo, KO (15')</i></li> <li>• Airborne geophysical survey in Kosova  <i>Xhevdet Kastrati, Independent Commission for Mines and Minerals of Kosova, Prishtina, KO (15')</i></li> <li>• National mineral resource database as a support for the mining sector  <i>Duška Rokavec, Katarina Hribernik &amp; Jasna Šinigoj, Geological survey of Slovenia (15')</i></li> </ul>
15:45	<b>Conference Closing</b>

## POSTERS

- Recycled construction materials as supplemental raw materials for the OPC clinker production in Saloniť Anhovo

*Željko Pogačnik, Saloniť Anhovo, Bulidnig Materials, Joint-Stock Co., Slovenia*

- Sustainable development in the dolomite and keratophyre quarry Kamna Gorica

*Martina Pucihar<sup>1</sup> & Timotej Verbovšek<sup>2</sup>*

<sup>1</sup> *Terre RB d.o.o., Slovenia*

<sup>2</sup> *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*  
*mmar54@yahoo.com*

## FIELD TRIP

Thursday, 22<sup>th</sup> of September

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

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

