

30 th of May 2015

Aula Magna AUSI
Monteponi
(Iglesias, CI)

International workshop on Past mine activity: heritage, environmental issues and tools for remediation



ISPRa
Istituto Nazionale per lo Studio e la Cura delle Patologie Reumatiche



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VIIa GIORNATA NAZIONALE SULLE MINIERE 30-31 maggio 2015

VIIa Giornata Nazionale sulle Miniere
7th National Day on Mines
Monteponi (Iglesias) 30-31th May 2015

International workshop on

Past mine activity: heritage, environmental issues and tools for remediation

Programme

30th May

From 8:30 onwards: registration.

9:00-9:50 Opening of the workshop, introduction by the Commissioner of the Geomining Park of Sardinia, Prof Gian Luigi Pillola; the coordinator the "Piano Sulcis", Ing Salvatore Cherchi; the President of AUSI and Mayor of Iglesias, Dr Emilio Agostino Gariazzo; the Councillor of the Environment Department of the Sardinian Region, Dr Donatella Spano; the Rector of the Cagliari University, Prof Maria Del Zompo, the President of "Ordine dei Geologi della Sardegna", Dr. Davide Boneddu and the Commissioner of IGEA S.p.A., Dr Michele Caria.

Morning session: Generalities on policy decision, research and environmental remediation Chair Prof Rosa Cidu

9:50-10:10. Richard Wanty (USGS): How USGS research informs policy decisions about environmental effects and remediation.

10:10-10:30. Alessandro Murgia (RAS): Stato di attuazione delle bonifiche in Sardegna: cantieri

10:30-10:50. Giovanni De Giudici (University of Cagliari): Survey and characterization in some mine sites in Sardinia: landscape processes and priorities for remediation

10:50-11:10. Anna Rosa Sprocati (ENEA). Bio-remediation tools and research applied to environment at ENEA

11:10-11:30 Guido Satta (CRS4): Integrating physically based modeling tools and ICT for data processing and analysis for the hydro-geophysical sector

11:30-12:30 Discussion

12:30-13:30 lunch

Afternoon session:

Tools for understanding heavy metals dispersion, heavy metal target attainment and priority for remediation. Chair Giovanni De Giudici

13:30 Briant Kimball (USGS): Weighing alternatives: How we compare metal mass-loading from different sources

14:00 Laurie Balistreri (USGS): The cycling of Cu and Zn in a river affected by acid rock drainage: Isotopic fractionation, chemical speciation, and toxicity.

14:30 Richard Wanty (USGS): Using metal isotopes in mining-environmental applications.

15:00 Daniela Varrica: Exposure to trace elements by hair mineral analysis. Mining, volcanic and urban areas.

15:30- 16:00 coffee break

Tools for (bio) remediation. Chair Elena Tamburini

16:00 Karen Hudson-Edwards (London University): Arsenic and antimony in mine wastes: nano- and micro-mineralogy, bacteria and rivers.

16:30 Katarzyna Turnau (Krakow University): Mycorrhizal and endophytic fungi in phytoremediation of metal rich areas.

17:00 Chiara Alisi (ENEA): Coupling endemic plants and native bacteria in a field trial at the Ingurtosu mine

17:30 Anna Rosa Sprocati (ENEA): Design and evolution of a toolbox for microbially assisted phytoremediation strategies at mining sites.

Discussion and conclusions

31th May - Fieldtrip

9:00 The Rio San Giorgio (Iglesias) and the Montevecchio- Ingurtosu area. The Montevecchio - Ingurtosu Pb-Zn-Ag district (Arbus-Guspini), located in a wonderful landscape, hosts a field trial experiment of assisted mine dump re-vegetation.

The workshop allows to acquire credits for the "Ordine dei Geologi".

Info & inscription (required!):

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