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Abstracts Volume of the International meeting
“Cities on Volcanoes 10”

**Millenia of Stratification between
Human Life and Volcanoes:
strategies for coexistence**

2 | 7 September 2018, Napoli, Italy

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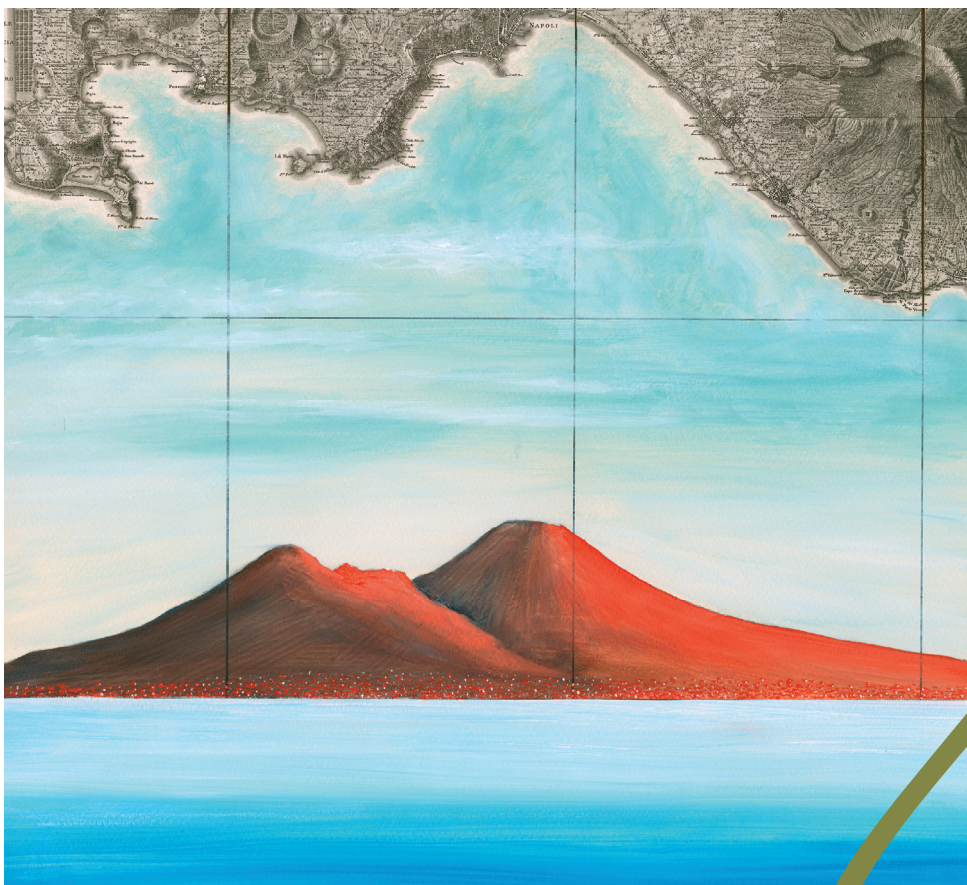
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STRATEGIES FOR COEXISTENCE

2 | 7 SEPTEMBER 2018, NAPOLI, ITALY

Editors Rosa Anna Corsaro, Maria Giulia Di Giuseppe, Roberto Isaia, Angela Mormone, Rosella Nave



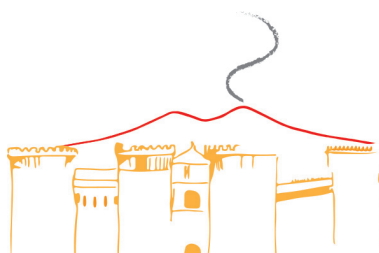
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How could hand laboratory games will improve acknowledgement to the correct volcanic risk perception?

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Earth Science study has been considered marginal especially in Italy in which environmental calamities occurred frequently. The purpose of this work is to improve the acknowledgement of the Earth in order to achieve the correct risk perception in the children aged between 3 and 5 years old. The experience has been conducted on 15 classes for a number of more than 300 children in schools of Rome. Theoretical-practical laboratories on volcanoes have been carried out in order to diffuse the bases of the Earth Science. To improve the comprehension of this young age children the new strategies included readjustment of techniques already used for 6 years old children. The laboratories have been achieved using food and natural stuff. Volcanoes laboratories are made by building two volcanoes modeling sand around plastic bottles. The effusive eruption is made by inserting flour and bicarbonate powder in the bottle and the vinegar as reactant. The explosive is made by only inserting bicarbonate and vinegar and using a cork to plug the bottle.

Before and after the laboratory, questionnaire skills were administered to the children, while only after laboratories different questionnaire were administered to teachers. Results obtained from children questionnaires show how volcanic laboratory improve the acknowledgement to the correct volcanic risk perception especially during the explosive simulation. The teachers questionnaire took over the importance of an expert doing these laboratories.

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