

# Instanto Nazionale di Geoffsica e Vulcanologia The Eco-Museum an innovative educational methodology to discover the earth sciences

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Hugues de Varine

Ecomuseums originated in France, the concept being developed by Georges Henri Rivière and Hugues de Varine, who coined the term 'ecomusée' in 1971.



The environment is narrated through history, culture, landscapes, activities, a society, interrelating the material and spiritual aspects of life and linking them to places, territories and the culture that created them.

The eco-museums, being a bottom-up process, help people managing the territory by focusing on cultural heritage preservation, with an eye to the future ...

## 1. The pilot project "Towards an Ecomuseum of the Castelli Romani"

The project, proposed and implemented by a group of researchers of the Laboratory of Education and Science Communication of the INGV in collaboration with the Regional Park of the Castelli Romaini, involved the students of the Classical Studies High School and Socio-Paycho-Pedagogical Institute "Falcone Mancinell" in Velletri (Rome) during the school year 2009-2010.



c) It introduces an innovative teaching tool: the creation of an eco-museum itinerary.

of it flosters the experimentation of an innovative teaching methodology, participatory students, led by experts and teachers, enter actively in all stages of design: choosing identifying training needs, doing the social works entailing them to build the eco-mus finally, conducting the process evaluating the effectiveness of the entire project.

If the project methodology places the school world not as the final recipient of knowing and the same time a partner who takes an active role in the dissemination.

### 2. Activities

### 2.1 The construction of the eco-museum routes

Nemi Lake itinerary

We subdivided the itinerary into three Items 2)The Lake itself: of volcanic origin as the whole are and its emissary is an example of roman engineering (V-VI century b.C.)

The Diana temple: Diana Aricina Myth together with The Rex Nemorensis are linked to fertility;





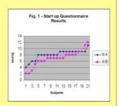


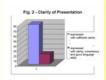




# 2.2 Evaluation of the Training Project Efficacy

Tools	Purposes	Administration
Start up Questionnaire	rormental, historical-literary, mythological- anthropological aspects) of the Lake Nemi area	Administered after the training activities to the experimental group and the control group not involved in the project. This procedure was neces- sary since it was not possible to administer the start up questionnaire to the experimental group (III-A) before the beginning of the training activi- ties.
Observation Grid	To evaluate the "Presentation dramatization skills" of the students involved in the scenic work-up of the routes.	During the performance/presentation of the econsuseum route
Final Questionnaire	To verify the efficacy of training and the appreciation of the Project.	At the end of the project





## 3. Impact of the Project

- mparison between the results achieved and the objectives set rough the participation and the realization of the project the students have acquired: competence and activity in identifying the training needs required for the construction of the routes linked to (geophysical-volcanological, historicalitierary, mythological and naturalisticanthropological) identified in the knowledge of the area through the multi-disciplinary septoration process and in depth training with experts, knowledge and experience in psychodrama and creative writing through decicated laborations; experience in the transmission of knowledge gained through the performance and dramatization, experience in the construction and implementation of a process of evaluation of educational programs.

As for improvement is a significant number of teachers has a name of the same of the same

