

Sustainability and archaeology: green and smart strategies

Tbilisi | Samshvilde 20-24 May 2019

Intensive course

awaiting YOCOCU 2020 in Tbilisi



Organized by



In collaboration with:



Ambasciata d'Italia
Tbilisi



საგარეო ურთიერთობების
მინისტროს განყოფილება
თბილისი



NATIONAL AGENCY FOR
CULTURAL HERITAGE
PRESERVATION OF GEORGIA



It is possible to start by an archeological artifact to build a sustainable local development? The course is focused on this thematic and will be built under the banner of "Green conservation and Green Management" that seeks sustainable, ecological and rational solutions to the local context. This is in scope a philosophy very similar to what SMART strategies are for modern cities. The first step of this process is the knowledge of artifacts with the conservation phases to pinpoint precise SMART strategies to apply to heritage and ancient sites, based on the rationale calls for efficient, coherent, coordinated and, if possible, use of technologically-based methods, for the benefit of heritage and the communities.

Topics of the course

Green Conservation and Green Management:
Rationality and Strategies in a Contextual Approach to
Material Heritage:

- 1 Sustainable conservation
- 2 Analytical investigation applied to the study of archeological artifacts
- 3 Heritage management in small, remote, regional sites
- 4 Techniques for pottery conservation and museum display
- 5 Technique for in-situ conservation of delicate materials: What to do during an excavation.
6. SMART archeological site and museum.

DAY 1: Monday 20 May

Location: UoG **Auditorium /519/** - Tbilisi.

Agency's museums personnel, students, general audience.

10.00 – 10.15: **Welcoming and Press-Conference:**

- Tinatin Gudushauri, Professor, Dean of the School of Art and Humanities of UoG.
- Antonio Enrico Bartoli, Ambassador of Italy to Georgia **/Auditorium 519/**.

10.15 – 11.00: Museums/heritage and their impact on local development and UN's global goals for sustainable development. **Alberto Garlandini, ICOM. /Auditorium 519/**

11.00 – 11.45: Green conservation and Green Management. **Andrea Macchia & Alvaro Higuera**.
Agency's museums personnel, students, general audience /Auditorium 519/

11.45 – 12.00: Coffee break

Session 1 for the students

12.00 – 13.00: CREATING & BUILDING HERITAGE: The role of institutions to guide the strategies of heritage preservation and promotion. Tamara Meliva, National Agency. **/Auditorium 116/**

Session 2 for the Agency professionals

12.00 – 13.00: CREATING & BUILDING HERITAGE: The role of institutions to guide the strategies of heritage preservation and promotion. Alvaro Higuera. **/Auditorium 519/**

13.00 – 14.00 Lunch

Beyond the archeological artifacts **/Auditorium 519/**

14.00 – 14.20: Dark Museum. Fariz Khalili, MIRAS Azerbaijan.

14.20 – 15.00: How do analytical investigations support Preservation in cultural Heritage Studies Mauro Francesco La Russa and Daniela Ferro, remote presentation)

From site to museum **/Auditorium 519/**

15.00 – 15.30 Sustainable conservation in museum storage. Bianca Fossà ISCR, remote presentation.

15.30 – 15.50 Creating narratives. Cinzia Dal Maso, remote presentation.

15.50 – 16.00: Coffee break

From archeological artifacts to public **/Auditorium 519/**

16.00 – 16.30: Museum (Alberto Garlandini, ICOM)

16.30 – 17.00: Addressing the needs of small regional sites and museums. (Members of Agency and GNM, led by Alvaro Higuera)

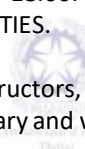
From past to future **/Auditorium 519/**

17.00 – 18.00: TASKS! SMALL PROJECTS/IDEAS FOR PROFESSIONALS BASED ON INTERESTS AND PRIORITIES.

All instructors, led by David Berikashvili
Summary and way forward.

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DAY 2: Tuesday 21 May

Participants: Student group.

Location: IAC/UoG House Samshvilde

Time: 10.30-12.30 / 2-6 / 6.30-7.30

Transfer to Samshvilde 9.00-10.30.

Task 1: Create the groups (each with students of different schools/universities)

IDENTIFICATION OF CERAMIC CLASSES I

Time: 10.30 – 13.00 / Instructors: Laura Rivaroli and David Berikashvili

Laboratory activity where participants will observe and handle fragments of ceramic finds of different types, including those found in Samshvilde. Each participant will be asked to describe his own fragment and we will compare the descriptions. The laboratory will be the practical base to explain the classification of ceramics (terracuda, polychrome terracotta, majolica, etc.). Finally, the laboratory will allow to recognizing and to identify the main causes of the decay of ceramic artifacts and understanding of the physical, chemical and biological causes that trigger them.

CHARACTERIZATION BY DIAGNOSTIC INVESTIGATIONS

Time: 14.00 – 15.30 / Instructor: Mauro Francesco La Russa

Case studies for the explanation of the analytical potential of different diagnostic techniques. Exploring insights on the methods of manufacture and recognition of the physical features we find on the artifacts. Identification of the characteristics related to the manufacture of the product. We will use a portable microscope to identify the details of the materials and techniques.

IDENTIFICATION OF CERAMIC CLASSES II

Time: 15.30 – 17.30

Day conclusion and discussion

Time: 17.30 – 18.00 / Instructor: Alvaro Higuera

DAY 3: Wednesday 22 May

Participants: Student group.

Location: IAC/UoG House Samshvilde

THINKING OF OUR PROJECTS: INNOVATION AND EXPANSION OF THE HERITAGE OFFER IN GEORGIA

Time: 9.00 – 10.30 / Instructor: Alvaro Higuera

APPROACH TO CONSERVATIVE INTERVENTION: THE FIRST INTERVENTION IN ARCHAEOLOGICAL EXCAVATION

Time: 10.30 – 13.00 / Instructor: Laura Rivaroli

Laboratory activity where the participants will be assigned fragments of ceramic finds from an archaeological excavation and will begin the phases related to the first conservation interventions:

- Compilation of the conservation form;
- Photographic documentation;
- Setting of the graphic documentation.

PRODUCTS FOR RESTORATION: from the chemical basis to green solutions

Time: 14.00 – 16.00 / Instructors: Andrea Macchia

PHASES OF INTERVENTION ON CERAMIC SURFACES

Time: 16.00 – 18.00 / Instructors: Laura Rivaroli

Description of the intervention phases: pre-consolidation, cleaning, temporary assembly, gluing, structural integration, aesthetic presentation.

Explanation of the classes of materials used in ceramic restoration.

Day conclusion and discussion

Time: 18.00 – 18.30 / Instructor: Alvaro Higuera

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DAY 4: Thursday 23 May

Participants: Student group.

Location: IAC/UoG House Samshvilde

RESTORATION INTERVENTION (6h)

Time: 9.00 – 13.00 & 14.00 – 16.00 / Instructors: Laura Rivaroli, Andrea Macchia and David Berikashvili

Cleaning of the finds

Researching the joining elements (the organic materials to join parts of the artifact)

Realization of contact charts

Joining the parts of the artifact

Sample production tests for possible additions

Aesthetic presentation tests to be carried out on stuccoing samples (the integration phases are too long and it would not be possible to execute them in one day).

IN THE REALM OF MANAGEMENT OF COLLECTIONS FOR THE PUBLIC: WHAT TO PRESENT, HOW AND WHY - DESTINATION OF ARTIFACTS: MUSEUM DISPLAY OR STORAGE?

Time: 16.00 – 17.30 / Instructor: Laura Rivaroli

Explanation of the suitable materials for the packing, storing of artifacts and realization of the packaging of the finds

Time: 17.30 – 18.00

Briefing with the participants for their impressions on the course and any questions.

Compilation of an anonymous questionnaire on the quality of the lessons

Transfer to Tbilisi 18.00-20.00 Destination UoG.

DAY 5: Friday 24 May

Participants: AGENCY & MUSEUM professionals & Students Location: UoG auditorium 519. Tbilisi.

IN THE REALM OF MANAGEMENT OF MONUMENTS & COLLECTIONS FOR THE PUBLIC:

WHAT TO PRESENT, HOW AND WHY. AGAIN, A GREEN APPROACH

Time: 9.00 – 10.30 / Instructor: Alvaro Higuera

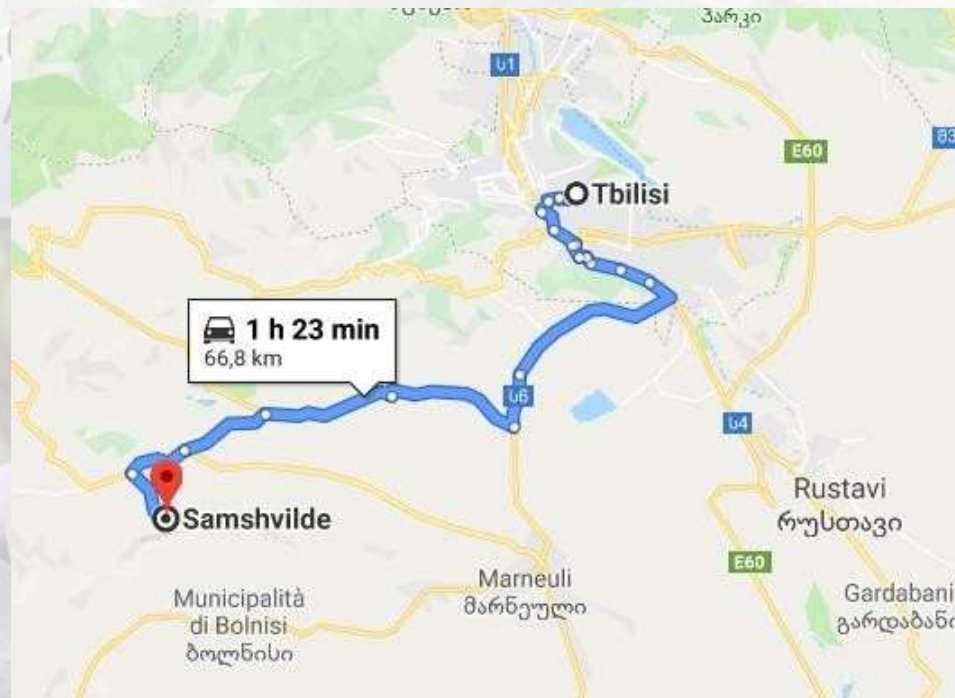
Following the ideas of Monday's presentations.

ROUND TABLE ON OUR PROJECTS - WHAT NEW OPTIONS HAVE YOU DEVISED? WHAT CAN THE PUBLIC EXPECT? WHAT CAN HERITAGE EXPECT?

Time: 10.30 – 13.00 / All instructors.

Working on the ideas presented on Monday and the tasks set. How can heritage be better served? Where should the improvements occur? Are we making sure that the public respects the investment on heritage?

Closing remarks



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Organizing Committee

Alvaro Higuera

Andrea Macchia

Tinatin Gudushauri

Manana Vasadze

Lana Karaia

Inga Karaia

David Berikashvili

Short biographies of instructors

Alvaro Higuera

Alvaro Higuera is an archaeologist and cultural heritage consultant with focus in Andean South America, Italy, the ex-Yugoslavia Balkan region, and now concentrating in the Southern Caucasus region. In Peru and Bolivia, he has conducted extensive field work, concentrating in the formation of large-scale societies or empires. In the realm of heritage in the Balkans, he has worked as a United Nations consultant for the reconstruction of war-torn cultural heritage. In Rome, he has addressed issues of open-air archaeological sites in urban settings. In Canada, while conducting field work in British Columbia, Higuera is exploring cultural heritage rights in Peru, where historical and cultural factors have created status differences between Indigenous highland groups and those in the Amazon forest. He has been a sessional professor at Simon Fraser University, an invited professor at the Universidad de los Andes in Colombia, and an adjunct professor at the American University of Rome. Dr. Higuera is an associate member of the Italian CNR conducting heritage research in Peru.

Mauro Francesco La Russa

Mauro Francesco La Russa (Lachen (CH) 1977) has an MSc in Geological Sciences at the University of Calabria (2002) and a PhD in Petrography and Petrology (2005-2008) at the University of Catania. He has been a researcher at the Department of Biology, Ecology and Earth Sciences, University of Calabria (2008-2017) and an Associate Professor at the same Department. He has participated in numerous national and international congresses and workshops and helped to organize and steer different international summer schools. He has a wide range of collaborations with Italian and international research institutions and universities in the fields of petrography, mineralogy and geochemistry applied to Cultural Heritage, including the University of Georgia. He is the scientific representative responsible for several national, European and international research projects headed by UniCal. His current research interests concern the characterization of stone building materials, their decay and the experimentation of innovative protective products as well as the archaeometric study of ceramic remains. He has worked, among other sites, at the Trevi Fountain, Herculaneum and Pompeii (Italy), at the cave churches of Tokaly (Cappadocia, Turkey) and the Tower of London (UK).

David Berikashvili

Director of International Archaeological Center and the head of the Department of Archaeology, Anthropology and Art of the University of Georgia (Tbilisi). His PHD dissertation „Early and Middle Bronze period Settlements from Upper Imereti (west Georgia)” (2006), was focused on the transitional period from EBP to MBP.

Since 2012, he leads an archaeological and interdisciplinary studies of Samshvilde Archaeological Complex in South Georgia. Under his leadership the team of archaeologists has revealed the deposits of Medieval, Bronze and Neolithic periods at Samshvilde.

The results of his works are published in Georgia, Europe and USA. He is a senior member of SAA (Society for American Archaeology), EAA (European Archaeological Association) and AIA (American Institute of Archaeology).

For a present time he is leading a courses at the University of Georgia into „Introduction of World Archaeology” and into „Archaeology of Stone and Bronze ages”. Alongside the educational activities his research interests are focused on bio archaeological, zoo archaeological, petrographic and geophysical studies of the sites in South Caucasus. Also on megalith monuments in the region.

In 2016-2018 he was invited on European and American International symposiums as a honored presenter. In 2018 he has joined YOCOCU team and was appointed on the position of the chair of Yococu-Georgia 2020.

Andrea Macchia

Head of YOCOCU, Andrea Macchia is a conservation scientist with a PhD in Applied Science for the Protection of Environment and Cultural Heritage. He is the author of over 60 papers in national and international journals and conference proceedings and has edited several books. Now he is the director of journal “La materia della Bellezza”. His research activities are focused on the application of green chemistry in the conservation of cultural heritage, for which he is developing new products for the cleaning old varnishes and for the conservation of underwater stone structures using nanomaterials. From 2011 he works in scientific dissemination developing innovative ways to promote the role of chemistry starting from the daily life of citizens to conservation methodologies in cultural heritage. The innovation of Andrea’s contribution in the cultural heritage conservation field is shown by numerous lectures and training courses in which Andrea has been an invited. He is now working in different roles for the Sapienza University of Rome, the International Telematic University Uninettuno, and the University of Calabria. From 2014 he is the president of YOCOCU, Youth in Conservation of Cultural Heritage.

Laura Rivaroli

Ms. Rivaroli is a restoration graduate from the I.S.C.R. Central Institute for Restoration and Conservation of Cultural Heritage (2009). She works as a freelancer for public and private institutions and institutes. She specializes in ceramic materials, metals, glass, polyurethane and organic materials from excavation. Lecturer in several courses dedicated to first aid from the archaeological excavation and restoration.