

Cultural Heritage Science Open Source

Summer School in Sicily

Scientific Examination of Art and Archaeology



Call for participation



CHSOS, Cultural Heritage Science Open Source, Dr Antonino Cosentino
Piazza Cantarella 11, Aci Sant'Antonio, Italy, VAT 04994440875
Visit chsopensource.org

A photograph of two men in a workshop or laboratory setting. The man on the left is wearing glasses and a light-colored shirt, looking towards the right. The man on the right is wearing a brown sweater and is looking down at a laptop. In the background, there are large, rusty mechanical gears and other equipment.

Intro

While visiting professor at the Pratt Institute in New York City teaching “Scientific methods for the analysis of works of art and archaeology”, I became aware of the lack of a program to disseminate **innovative**, **affordable** and **sustainable** technologies. When I moved to Sicily, I started the CHSOS (Cultural Heritage Science Open Source) initiative.

CHSOS serves an international audience of professionals working in the art sector, including conservators, art historians and conservation scientists. Its technical innovations and strategies are being adopted by museums and cultural institutions worldwide. CHSOS disseminates this knowledge through the CHSOS website, publications and training programs.

Since 2013 CHSOS has delivered training programs to professionals and teams from distinguished institutions, such as the Instituto Nacional de Patrimonio Cultural, Ecuador, Hercules Laboratory, Portugal and the Cyprus Institute.

CHSOS supports art conservation field projects in Italy through its collaborations with foreign academic institutions, such as UC-San Diego and the Danish Technical University, whose doctoral students have been investigating Sicilian cultural heritage.

Thanks to its established relationships with several local cultural institutions, CHSOS wants to develop a **Summer School Program** in collaboration with Institutions whose students are interested in conservation of Western art from antiquity to the modern age.



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ROPERTOS GEORGIU, COMPUTER SCIENTIST
CYPRUS INSTITUTE, CYPRUS.

DEC 2014 TRAINING PROGRAM.

FIELD PROJECT: SICILIAN CARTS MUSEUM



A. Cosentino, S. Stout “[Photoshop and Multispectral Imaging for Art Documentation](#)” e-Preservation Science, 11, 91–98, 2014.

D. Vanoni, S. Stout, A. Cosentino, F. Kuester, “[Artifact Conservation: Representation and Analysis of Spectroscopic and Multispectral Imaging Data Using Augmented Reality](#)” ICOMOS 18th General Assembly, Emerging tools for Conservation Practice, Nov 9–14 2014, Florence, Italy.



Sicily has a vast, unique, and varied cultural heritage, encompassing art, archeology, and material culture. In contrast to other well-known locations in Italy, such as Rome, Venice and Florence, Sicily is very affordable. Lodging and living costs are just a fraction of what they are in other tourist destinations.

This combination of rich cultural history and affordability make Sicily an ideal location for students who are interested to art preservation and conservation in a range of materials and media, and in all periods of history.

CHSOS Studio is located in Aci Sant'Antonio, a small and secure village on the western slope of Mount Etna. The village is just 30 minutes from Catania airport, which serves most major Italian cities as well as cities in the rest of Europe, including, Barcelona, Berlin, Frankfurt, Geneva, London, Malta, Munich, and Paris.

Sicily has already been chosen as the site of a number of academic research projects by US universities, such as Duke University's center in Morgantina, and New York University's project in Selinunte.

"To have seen Italy without having seen Sicily is not to have seen Italy at all, for Sicily is the clue to everything".

Johann Wolfgang von Goethe, Italian Journey, 1817.



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MILENE GIL, WALL PAINTING CONSERVATOR,
HERCULES LABORATORY, PORTUGAL.
OCT 2014 TRAINING PROGRAM.
FIELD PROJECT: NEWLY DISCOVERED WALL PAINTINGS



A. Cosentino, M. Gil, M. Ribeiro, R. Di Mauro “[Technical Photography for mural paintings: the newly discovered frescoes in Aci Sant’Antonio \(Sicily, Italy\)](#)” *Conservar Património* 20, 23-33, 2014.

A. Cosentino, S. Stout, R di Mauro, C. Perondi “[The Crucifix Chapel of Aci Sant’Antonio: Newly Discovered Frescoes](#)” *Archeomatica*, 2, 36-42, 2014.

A photograph of three people, two men and one woman, looking intently at a screen. The man on the left is wearing a dark hoodie with the word 'Pirate' on it. The woman in the middle is wearing glasses and a patterned scarf. The woman on the right has dark hair. The text 'The course' is overlaid in large white letters.

The course

Scientific Examination and Documentation of Art and Archaeology

This is a 60 hour course (6 hours/day) taught by Dr. Cosentino in the CHSOS Studio in Sicily. Students will gain hands-on experience with technical examination of art and archaeology in the CHSOS Studio and in the field projects.

This course focuses specifically on tools that are innovative, affordable and sustainable. College students with any educational background can enroll, but they should demonstrate interest in art conservation or art history.

This is a science course and it aims to provide the students with a basic understanding of the scientific phenomena on which art conservation methodologies are based.

Students will learn techniques in class and then they will apply these methods in field projects on selected works of art and archaeology. For each method they will collect data that they will eventually use to prepare the final project: a Scientific Examination Report.

While this is a science course it will also expose the students to the vast, unique, and varied Sicilian cultural heritage, encompassing millennia of art and archeology, and they will gain specific art historical knowledge while involved in the field projects.

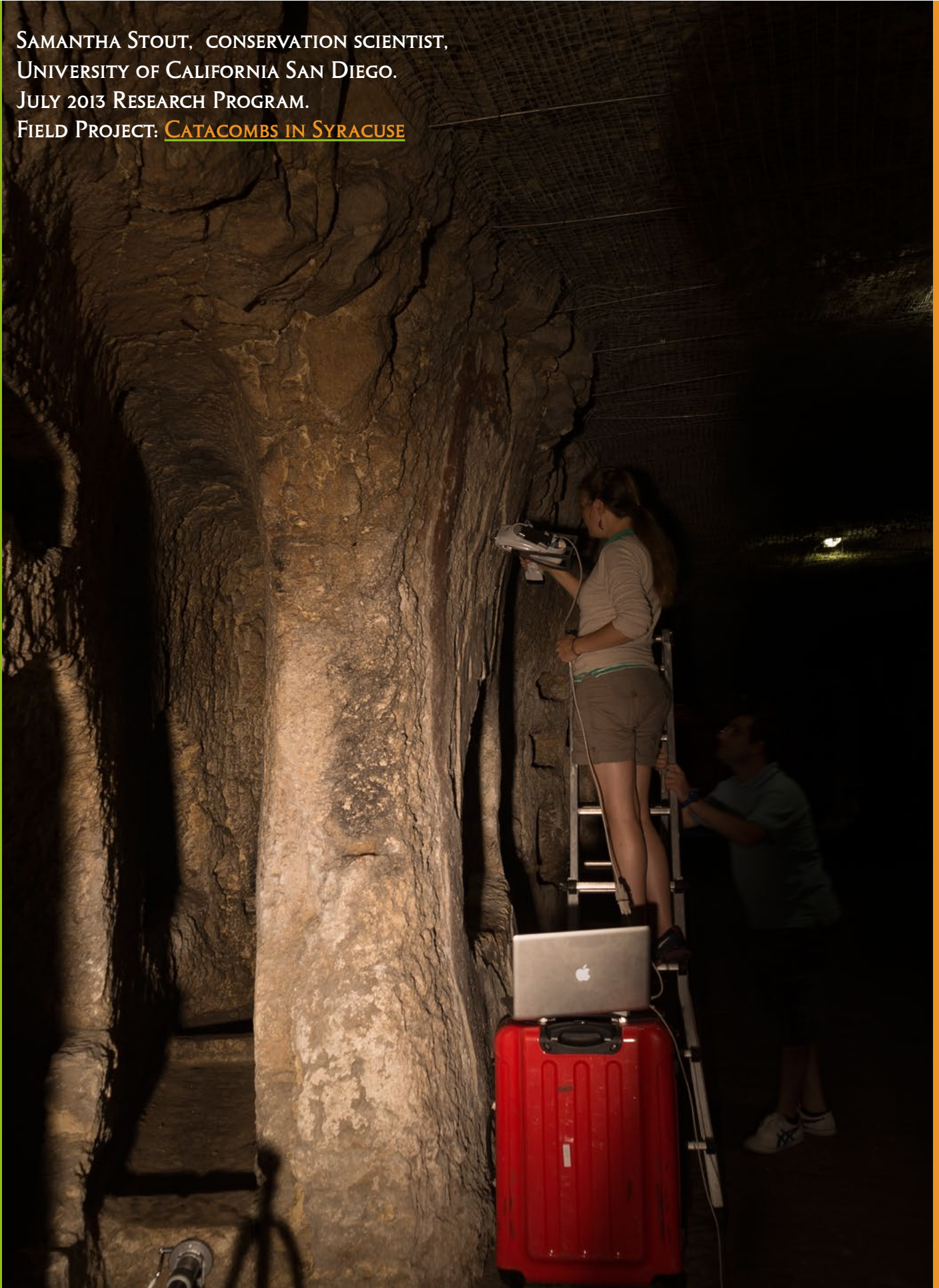


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SAMANTHA STOUT, CONSERVATION SCIENTIST,
UNIVERSITY OF CALIFORNIA SAN DIEGO.

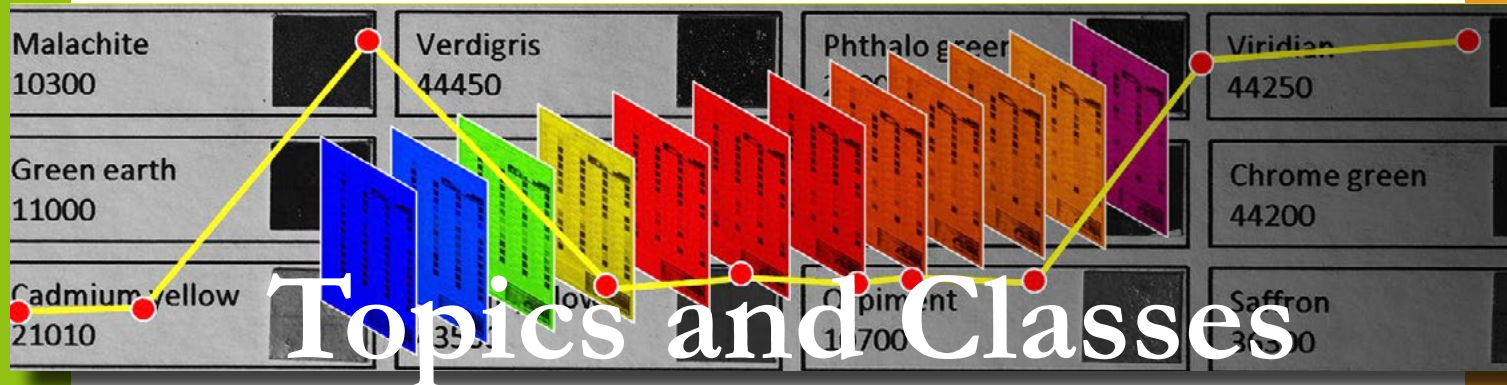
JULY 2013 RESEARCH PROGRAM.

FIELD PROJECT: CATACOMBS IN SYRACUSE



A. Cosentino, S. Stout, C. Scandurra “Innovative Imaging Techniques for Examination and Documentation of mural paintings and historical graffiti in the catacombs of San Giovanni, Syracuse” International Journal of Conservation Science, 6, 1, 23-34, 2015.

S. Stout, A. Cosentino, C. Scandurra “Non-invasive materials analysis using Portable X-ray Fluorescence (XRF) in the Examination of Two Mural Paintings in the Catacombs of San Giovanni, Syracuse” Digital Heritage. Progress in Cultural Heritage;, EuroMed 2014, LNCS 8740, 697-705, 2014.



Day (6 hours)	Topics
1	RTI, Reflectance Transformation Imaging
2	Technical Photography - Infrared Imaging
3	Technical Photography - Ultraviolet Imaging
4	Infrared Reflectography
5	Microscopy
6	Reflectance Spectroscopy
7	Multispectral Imaging
8	3D Photomodeling and 3D printing
9	Student project
10	Final



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