

Prof. Corrado Gratzu

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After the graduation in classical education high school, he gained the laurea degree in Geological Science in November 1961, thesis concerning the petrography of sedimentary rocks (the “Macigno di Piombino”).

Research assistant in Mineralogy at the University of Pisa from 1962, in 1969 he held a complementary chair in Petrography of Sedimentary Rocks at the same University.

Since that time, till his retirement in 2003, Prof. Gratzu had maintained the course, expanding, during the years, the interests of the didactic development in the subject of Cultural Heritage.

QUALIFICATIONS

- By invitation of the Department of Greek and Roman antiquities at the British Museum he holds a conference entitled Calcium oxalate coatings and colouring on Roman Monuments, which illustrates his discoveries on the genesis of the calcium oxalate “patinas” and their role in the conservation of monuments (25 April 1988).

- He is the author of the item “*Microscope*” in the Treccani Science Encyclopaedia and co-author in the item “*Fresco*” in the Treccani Archaeological Encyclopaedia.

- As member of “NORMAL”, commission established by the Italian Ministry of Cultural Heritage, he edits the item “intonaci e malte” (plasters and mortars) for the “Quaderni Normal”.

- As one of the twenty-four members of the group of international experts invited to the British Museum in order to evaluate the state of conservation of the marbles of Lord Elgin. International meetings “Cleaning the Parthenon Sculptures - 23° British Museum Classical Colloquium (1999).

- As co-opted member of the *Accademia del Mediterraneo*, he has been the consultant for the Cultural Heritage Conservation.

- In 1999 he is designated as scientific consultant of the Opera Primaziale Pisana for the restoring intervention on the frescoes of the Camposanto Monumentale. The collaboration stopped in 2002 by reason of discordance with the cleaning techniques imposed by the restorer in charge.

- From 2003 to 2004, he was charged of the research activities of the Greek Roman Museum of Alessandria in the frame of Italian-Egyptian collaboration, under the direction of prof. Edda Bresciani of the University of Pisa. He directed the scientific aspects of the restoring intervention on an arch in calcarenite, from Fayum, having some inscriptions of a sacred hymn of the poet Isidorus.

- In 2000-2001, he was encharged by the Directorate General of Projects and Maintenance, (Dwain of Royal Court of Oman) of the study of discolouring of the marble pavement of the Royal Palace. Hereafter, from 2002 to 2003, in the same frame, he studied the alterations, the consolidation and installation of travertine and marble plates for the square of the Great Mosque in Muscat (Oman).

In May 2009, under the request of the Government, he visits again Oman for a consultation concerning the marble pavements of the Sunflower Royal Yacht.

The research fields of Prof. Gratziu, can be summarised as follows:

- *Calcium Oxalate, calcium silicates and calcium phosphates “Patinas” on marble monuments: Conservation study and problematic*
- *Polychromies on classic marble monuments*
- *Stone artefacts: substrate and surface treatments*
- *Stone elements in architecture: studies on stone alteration and consolidation materials*
- *Various artefacts*
- *Mortars and polychromies on ancient monuments*
- *Tombstone paintings: polychromies and substrate*
- *Roman mural paintings: mortars and polychromies*
- *Mural Medieval and Renaissance paintings: mortars and polychromies*
- *Mortars: petrographic characteristics*
- *Paintings on canvas and panels*
- *Expertises on art works*

In the following research subjects and sites and principal collaborators are reported.

Calcium Oxalate, calcium silicates and calcium phosphates “Patinas” on marble monuments: Conservation study and problematic

Pisa

- S. Michele degli Scalzi Church
- State Archives
Collaborators: dr. C. Baracchini and dr. G. Burrese, Superintendence of Pisa.
- S. Casciano a Settimo Church
Collaborators: dr. G. Burrese, Superintendence of Pisa.

Lucca

- S. Martino Church
- S. Michele Church
Collaborators: dr. C. Baracchini and dr. G. Burrese, Superintendence of Pisa; dr. Filieri, Superintendence of Lucca.
- Rosa Church
- Archiepiscopal Archives Facade
Collaborators: dr. Filieri, Superintendence of Lucca; G. Donnalioia, restorer.

Roma

- Research on the Roman monuments: Hadrian's temple, Trajan Column, Antonina Column, Ara Pacis, Septimius Severus's Arch, bronze sculptures of S. Paolo and S. Antonio, Nerva's temple, Temple Rotondo, Gallienus's Arch, Arch of the Argentari, Vespasian's temple, Titus's Arch, Constantine's Arch.
Collaborators: dr. A. Melucco, ICR; dr. C. Meucci, ICR.

Benevento

- Trajan's Arch
Collaborators: dr. A. Melucco, ICR.

Guardiagrele

- San Francesco Portal
Collaborators: F. di Marco, restorer of the Superintendence of Aquila.

Polychromies on classic marble monuments

BritishMuseum

- Parthenon's basement and metopes, slabs from the Mausoleum at Halicarnassus and Cycladic sculptures from the BritishMuseum, for the reconstruction of the original polychromies.
Collaborators: prof I. Jenkins, dep. Roman and Greek antiquities BritishMuseum; dr A. Middleton, BritishMuseum

Louvre

- Olimpia's temple remains for the reconstruction of the Olimpia's temple original polychromy.
Collaborators: dr. B. Bourgeois, Centre de recherche et de restauration des musées de France.

Stone artefacts: substrate and surface treatments

Volterra

- Etruscan travertine ed alabaster urns.
Collaborators: dr. G. Cateni, director Guarnacci Museum, dr. F. Donati, Dep. of Archaeological Science, University of Pisa.

Roma

- Marble sculptures, Museo delle Terme
- Marble sculpture of Carlo D' Angiò
- Marble plates of Adventus of Hadrian
- Musei Capitolini.
Collaborators: dr. A. Melucco, ICR.
- Marsia, red marble sculpture from the site of Villa delle Vignacce
Collaborators: dr. N. Agnoli, Superintendence of Roma.

Arezzo

- Coats of arms (sandstone) on the Palazzo Pretorio front
Collaborators: dr. C. Corsi Miraglia, Superintendence of Arezzo.

Lanciano

- Statue (calcarenite) on the S. Agostino Church front.
Collaborators: dr. Di Matteo, Superintendence of Aquila.

Lucca

- Marble altar, S. Romano Church
Collaborators: dr. Filieri, Superintendence of Lucca.

Palermo (A. Salinas Archeological Museum)

- Punic Edicola (calcarenite)
- Cippus and Canopo (calcarenite), Casuccini's collection, Chiusi;
- Stele (sandstone) and sarcophagus from Selinunte site
Collaborators: dr. R. Camerata Scovazzo, director Archeological Museum of Palermo.

Massa Marittima

- Analyses of finish on alabaster bas-reliefs from Duomo of Massa Marittima
Collaborators: G. Donnaiola, restaurateur.

Stone elements in architecture: studies on stone alteration and consolidation materials

Volterra

- Priori Palace
Collaborators: Arch. A. Militello; Arch. G. Belli, Superintendence of Pisa
- Ss. Giusto e Clemente Church's columns
Collaborators: Restauro Valeri srl
- Tower of the Duomo di Volterra
Collaborators: Arch. G. Bascià

Campiglia Marittima

- S. Giovanni Church front
Collaborators: G. Donnalioia, restorer

Pisa

- Bell tower of the Basilica of S. Piero a Grado
Collaborators: Arch. G. Malchiodi and Arch. R. Mezzina, Superintendence of Pisa.

Suvereto

- S. Giusto Church front
Collaborators: E. Marchesi, restorer

L'Aquila

- S. Maria Maggiore di Caramanico Church front
 - Basilica di S. Maria di Collemaggio front
- Collaborators:* F. Di Marco, restorer

Various artefacts

Siracusa

- Ancient Egyptian papyri fragments
- Collaborators:* C. Basile, director of the Museo del Papiro, Siracusa.

Pisa

- Wooden statues, S. Matteo Museum in Pisa
- Collaborators:* dr. G. Burrese, Superintendence of Pisa; F. Giannitrapani, restorer.
- Wooden Christ, S. Frediano a Settimo Church
- Collaborators:* dr. G. Burrese Superintendence of Pisa; Elena Burchianti, restorer.
- Analyses on lute varnish of a “viola” and a “double bass”, under the properties of the Opera Primaziale di Pisa
- Collaborators:* C. Rampini, restorer

Volterra

- Wooden statues, Duomo di Volterra
- Collaborators:* dr. G. Burrese, Superintendence of Pisa; F. Giannitrapani, restorer.

Lucca

- Eighteenth-century stuccos, Dei Servi Church in Lucca
- Collaborators:* G. Donnaloia, restorer.

Arezzo

- Fresco attributed to Elia Volpi, copy of Ercole of Piero della Francesca.
- Collaborators:* S. Lazzeri, restorer; dr. P. Refice, Superintendence of Arezzo.

Mortars and polychromies on ancient monuments

Peru

- Mural paintings, temple in the Chicania valley
- Collaborators:* dr. Costantino Meucci, ICR.

Segesta

- Mango temple and Segesta temple
- Collaborators:* prof. G. Nenci, Scuola Normale Superiore di Pisa; dr. R. Camerata Scovazzo, director Archaeological Museum of Palermo; R. Mandino director Soc. Crimisos.

Paestum

- Capitals of Cerere temple
- Collaborators:* dr. M. Cipriani, director Paestum Museum.

Selinunte

- Selinunte temple: architectural elements (*frontone, triglifi, metope*) in the Archaeological Museum A. Salinas in Palermo
- Collaborators:* dr. R. Camerata Scovazzo, director Archaeological Museum of Palermo.

Tombstone paintings: polychromies and substrate

Arpi

- Macedonian Tombs
- Collaborators:* dr. A. Melucco, ICR.

Paestum

- Diver Tomb
- Collaborators:* dr. Marina Cipriani, director Paestum Museum.

Sarno

- Tomba del Cavaliere Azzurro
Collaborators: dr. F. Ferrucci, University of Urbino.

Roman mural paintings: mortars and polychromies

Settefinestre

- Villa of Settefinestre
Collaborators: dr. F. Donati, Dep. of Archaeology, University of Pisa.

Herculaneum

- Villa of Torre Annunziata
Collaborators: dr. M. Pagano, director excavation site of Oplontis.

Oplontis

- Villa of Poppea
Collaborators: dr. M. Pagano, director excavation site of Oplontis.

Solunto

- Fragments from Archaeological Museum of Palermo
Collaborators: dr. R. Camerata Scovazzo, director of the Archaeological Museum of Palermo

Velia

- Mural paintings, Archaeological park
Collaborators: dr. F. Ferrucci, University of Urbino.

Mural Medieval and Renaissance paintings: mortars and polychromies

Castelseprio

- Santa Maria Foris Portas and the Tower of Castelseprio
Collaborators: prof. C. Bertelli, Superintendence of Brera.

S. Martino in Serravalle

- S. Martino in Serravalle Church
Collaborators: prof. C. Bertelli, Superintendence of Brera.

Frisa

- High Medieval Church
Collaborators: dr. Di Matteo, Superintendence of Aquila.

Anagni

- Frescoes from the Duomo
Collaborators: G. Caponi, restorer.

Pisa

- Cycle of frescoes from the nave and the apses, Basilica of S. Piero a Grado
Collaborators: dr. Burrelli, Superintendence of Pisa.

Atri

- Fresco of De Lizio, S. Agostino Church
Collaborators: Gabriella D'Ippolito, restorer.

Legoli

- Tabernacle with frescoes of Benozzo Gozzoli
Collaborators: G. Caponi, restorer.

Urbino

- Fresco attributed to Raphael
Collaborators: dr. F. Ferrucci, University of Urbino.

Mortars: petrographic characteristics

Livorno

- Tower Medicea of Castiglioncello

Collaborators: Arch. R. Ida.

- S. Jacopo in Acquaviva Church

Collaborators: Arch. F. Betti and Arch. A. Pacciardi

Lucca

- Del Carmine Church

Collaborators: dr. Filieri, Superintendence of Lucca.

Volterra

- Dei Priori Palace

Collaborators: Arch. A. Militello; Arc. G. Belli, Superintendence of Pisa

Pisa

- Foundation mortars from Bell Tower of San Piero a Grado

Collaborators: Arch. G. Malchiodi and Arch. R. Mezzina, Superintendence of Pisa.

Arezzo

- Arnolfo Palace in San Giovanni in Valdarno.

Collaborators: dr. P. Refice, Superintendence of Arezzo; Arch. N. Capezzuoli, studio GM

Paintings on canvas and panels

Pisa

- Panels from the S. Matteo Museum

Collaborators: dr. G. Burresi, Superintendence of Pisa; F. Giannitrapani, restorer.

- Panels by Pirez, in S. Michele in Fossabanda and from private collection.

Collaborators: dr. G. Burresi, Superintendence of Pisa; F. Giannitrapani, restorer.

- Canvas and tables from Tribuna del Duomo in Pisa

Collaborators: dr. G. Burresi, Superintendence of Pisa; F. Giannitrapani, restorer.

Roma

- painting on canvas attributed to Caravaggio, at the *Argentinian Embassy*.

Expertises on art works

- Study of several copies of the painting “La Madonna dei Garofani” attributed to Raphael, National Gallery of London

Collaborators: Prof. J.H.Beck, professor at the Columbia University and director of Artwatch International.

- Panel attributed to Leonardo. *Private Collection*.

- Painting on canvas, attributed to Titian. *Private Collection*.

- Painting on canvas, attributed to Caravaggio. *Private Collection*.

- Sketch with signature P. Gauguin titled “la Siesta”. *Private Collection*.

- Painting on canvas with signature C. Pissarro. *Private Collection*.

- Painting on canvas possibly from Van Gogh. *Private Collection*.

- Marble sculpture possibly from Donatello. *Private Collection*.

- Hellenistic and Roman ceramics. *Private Collection*.