One Wall, Many Challenges:  
The Conservation of Late Roman Painted Wall Plaster at Sardis

By Jessica Pace1 and Evelyn (Eve) Mayberger2

In 2014, reopening and expansion of trenches in an archaeological area called Field 55 posed numerous challenges to the conservation of painted wall plaster found inside two adjacent Late Roman rooms. Differing environmental factors and treatment history produced diverse condition issues for sections of wall plaster that are otherwise comparable in material and structure. These issues required several courses of treatment to suit the distinct needs of each section.

### Three Approaches to One Wall

#### 1. Lifting

**Background** — Consolidation with Primal AC-33 and edging with plaster of Paris were undertaken in 2005. The wall was covered with geotextile and reburied at the end of the season. Uncovered plaster was also removed. The wall was in very fragile condition. Damage occurred as a result of root growth and the plaster of Paris edging, which contributed to erosion of the ancient mortar and breakage of original plaster.

**Condition** — In 2014, approximately 30% of previously treated wall plaster was lost and the rest was in very fragile condition. Damage occurred as a result of root growth and the plaster of Paris edging, which contributed to erosion of the ancient mortar and breakage of original plaster.

**Treatment** — A grid and numbering scheme was assigned. Wall plaster was fixed with tissue paper, 6% Primal AC-33, and 10% B-72 in 1:1 acetone and ethanol, then covered with cotton bandages impregnated with plaster of Paris. Sections were loosened with bamboo skewers, lifted from the fired brick substrate, and placed in storage.

#### 2. In-situ Stabilization

**Background** — In 2014, expansion of the trench revealed more painted wall plaster.

**Condition** — Newly excavated wall plaster was in more robust condition.

**Treatment** — The surface was consolidated with 6% Primal AC-33. Edges and voids were filled with a mortar mixture of 4:2:3 sifted sand, silty soil, and lime putty. Malta grout slurry was injected into fine surface cracks. The area was kept damp for five days to allow the mortar to set. The surface was cleaned to reveal the painted design.

#### 3. “Reburial”

**Background** — In 2015, expansion of the trench revealed two rooms, Field 55 by Brianna Bricker; Green (stabilized in-situ), Yellow (stabilized & surface cleaned in-situ), Blue (lifted), Orange (unexcavated), and Purple (“reburied”).

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### Conclusion: Conservation as a Logistical Challenge

In each scenario, time becomes a crucial and limited resource. In the first case, lifting the wall plaster saved it from imminent destruction and bought time for in-depth examination and treatment in the future. In the second case, an investment in a time-consuming treatment required adjustments in the excavation schedule and conservation personnel, but will yield better long-term results. In the last case, time ran out and preventive measures must be relied upon to safeguard the object until it can be treated during the following season.

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