



## DRAFT SCHEDULE

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### Instructors:

Eric Doehne (ED), The Getty Conservation Institute  
John Fidler (JF): Conservation Architect  
Kecia Fong (KF), The Getty Conservation Institute  
Heather Knight (HK), Chaux Vive Architectural Conservation and Historic Preservation Services  
Leo Pel (LP), Eindhoven University of Technology, Department of Physics  
Alison Sawdy (AS), Cologne University of Applied Sciences  
Veronique Verges Belmin (VVB), Historical Monuments Research Laboratory (LRMH)

### MONDAY, 24 MAY

#### Morning (8:30-12:00),

##### Break (30 min)

- Course Introduction (format, objectives, expectations) *KF/ED*
- Disasters in poultice desalination of salt-laden materials *VVB*
- Big picture – building envelope and moisture transport *JF*

#### Afternoon (1:30-3:00)

- Porous building materials: brick, stone: porosity, pore size distribution and permeability, measurement methods and standards, behavior with respect to water *ED* ~ 30 min
- Water transport in porous building materials
  - Behavior of water and capillarity *LP*

#### Hands-on and demo (3:30 - 5:30)

- Hands-on 1 Substrate Capillarity and Pore Size Distribution *AS, LP*
- Recap and Review

### TUESDAY, 25 MAY

#### Morning (8:30-12:00)

##### Break (30 min)

- Intro salts, salt formation & salt weathering, salt damage, environmental factors *ED*
- Salt and moisture transport; Poultice principles *LP*
- Review of Desalination Methods and Current Practice; Poultice working properties (shrinkage, rheology) *VVB*

#### Afternoon (1:30 - 5:30)

- Madame Johns visit Case Study *ED* (~10-15 min); Building condition assessment and reading a building, moisture pathways *JF* (1 hr)
- Hands-on 2: *VVB*
  - Condition survey; water absorption test (Karsten tube; syringe H<sub>2</sub>O drop absorption)
  - Measuring salt load: Hygroscopic moisture content measurement, strip tests, conductivity
- Sampling for salt content measurements (demo) *VVB*
- Recap and Review



## WEDNESDAY, 26 MAY

### Morning (8:30-12:00)

#### Break (30 min)

- New Orleans conservation issues; responding to flood events, materials compatibility, Vieux Carré Commission, *HK*
- Conservation Questions: Practical considerations and decision-making with salt-laden materials *AS*
- Condition Assessment: *AS, LP, JF*
  - Condition survey, salt mapping, salt sampling, analysis and interpretation; damage mapping, diagnostic methods *AS*
  - Pre desalination assessment *AS*
  - Moisture measurement and humidity survey *JF*

### Afternoon (1:30 - 5:30)

- Hands-On 3, part 1: [Poultice Prep and Application](#) *VVB*
  - [Showcase of materials, intervention layers, osmotic membranes \(demo\)](#) *AS, VVB*
- **Recap and Review**

## THURSDAY, 27 MAY

### Morning (8:30-12:00)

#### Break (30 min)

- Revisit Desalination Disaster *VVB*
- Panel Discussion: Participants' questions and case studies
- Wall Paintings *AS*
- Damp mitigation methods *JF, ED*

### Afternoon (1:30 - 5:30)

- Influence of components on poultice characteristics *VVB*
  - Cellulose poultices, Commercial poultices, Clay Behavior, sands and pore size distribution
  - Influence of components on poultice pore size distribution (model systems using clay, sand, paper pulp), Water purity, Poultice adhesion and detachment issues
- Recap and Review
- NOLA walking tour

## FRIDAY, 28 MAY

### Morning (8:30-12:00)

#### Break (30 min)

- Effectiveness and Efficiency *AS*
  - Post poultice evaluation *AS*
  - Long-term monitoring (?)
  - Life cycle cost and maintenance *JF*
- Aftermath of poulticing: repointing, consolidants *JF*
- [Hands-on 3 part 2: Poultice evaluation and validation](#)
- [Hands-on 4: Removal clearance, and poultice removal](#) *AS, VVB*

### Afternoon (1:30 - 5:30)

- [Hands-on 4 cont.](#)
- Poultice Application methods *HK*
- Wrap-up, Review, Q & A
- Summary of Guidelines for Desalination