A Year in the Field

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elcome to the 2013 edition of *A Year in the Field*, which provides a snapshot of the work of The Getty Conservation Institute's Field Projects Department for 2013. The department's purpose is to advance conservation practice worldwide through the development and implementation of model field projects that incorporate strong research, planning and educational objectives. In all projects, the GCI works with local partners to build knowledge, skills and experience and ensure sustainability.

Over the course of another busy year, we advanced work on twenty-four projects. This year site work at Taourirt in Morocco and Bulla Regia in Tunisia involved survey and detailed investigation work. The Conserving Modern Architecture Initiative project hosted a colloquium which brought together over sixty experts to discuss needs and priorities for conserving modern architecture. We also entered a partnership with the Salk Institute for Biological Studies, where we are working to address problems related to deterioration of the teak – a major architectural element of Louis Kahn's 1965 masterpiece.

Our long-term effort to conserve, protect and interpret David Alfaro Siquerios's *América Tropical* was recognized by the Los Angeles Conservancy President's Award in May.

I would like to acknowledge the generous support we received for a number of our projects over 2013. The GCI Council continued to support our work at Herculaneum, the Eames House and the site of Bulla Regia, enabling us to advance the conservation efforts on these three important projects. The Friends of Heritage Preservation provided support to initiate conservation work on the Church of Kuño Tambo in Peru. The Dunnard Foundation provided a generous grant for the external repair works to the Eames House. We are extremely grateful for this assistance.

Many thanks to all our partners and colleagues who have worked with us over the past year. It is with a sense of pride that we celebrate what we have all achieved together.

> Susan Macdonald Head of Field Projects





Project Activities

Conservation and Management of the Tomb of Tutankhamen



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Treatment implementation began on the tomb's wall paintings including flake readhesion, plaster stabilization and reduction of non-original surface coatings. Designs for the interior presentation (walkways, viewing platform, ventilation, and lighting) were completed and approved by the Ministry of State for Antiquities. All further site work has been temporarily suspended due to the unsettled situation in Egypt.

CONSERVATION AND MANAGEMENT OF THE VALLEY OF THE QUEENS

Designs for the interior presentation and a plan for the conservation of tomb 55, constructed for a son of Rameses III, were completed and approved by the Ministry of State for Antiquities. All further site work has been temporarily suspended due to the unsettled situation in Egypt.

EARTHEN ARCHITECTURE INITIATIVE: SEISMIC RETROFITTING PROJECT, PERU



Numerical modeling analysis, static and dynamic testing and retrofitting strategies were finalized for all prototype buildings. As part of the implementation phase, the project supported the design of the temporary protection of Kuño Tambo Church implemented by the Ministry of Culture of Peru. In collaboration also with the latter, the project carried out the condition assessment of the church wall paintings and started the process for the development of the church construction documents for retrofitting. Negotiations were carried out to develop the project documents for Ica Cathedral and El Comercio.

INTERNATIONAL COURSE ON STONE CONSERVATION

The 18th International Course on Stone Conservation took place in Rome from April 10 – June 28, 2013 with participants from nineteen different countries. During the twelve-week course, the participants learned theoretical and practical methodologies for stone conservation and carried out full conservation treatment of seven historic tombs at Rome's Non-Catholic Cemetery.

CHINA PRINCIPLES



The GCI and the Dunhuang Academy co-organized an international colloquium at the Mogao Grottoes on visitor management at World Heritage Sites in China. The GCI continued to work with the State Administration for Cultural Heritage on revisions to Principles for the Conservation of Heritage Sites in China (the China Principles), first promulgated and applied in 2000.

HERITAGE VALUES, STAKEHOLDERS, AND CONSENSUS BUILDING



The project is preparing a publication of the proceedings of a GCI workshop focused on promoting the application of consensus building and dispute resolution methods to the practice of heritage site conservation and management.

CONSERVATION OF **A**MÉRICA **T**ROPICAL



Following a successful opening of the site in October 2012, the project team began post-treatment monitoring of the mural at six months and one year, and an evaluation of the shelter was undertaken. The GCI continues to work with the City of Los Angeles to structure a management plan for the mural and interpretive center, and will continue monitoring for ten years. The papers from the international symposium *The Siqueiros* Legacy: Challenges of Conserving the Artist's Monumental Murals, organized by the GCI in October 2012, were published online on the GCI website. The project received the Los Angeles Conservancy President's Award for 2013.

HERCULANEUM: CASA DEL BICENTENARIO



The project team completed condition recording, continued trial treatments on the wall paintings in the Tablinum of the Casa del Bicentenario, and developed pilot climate improvement strategies based on environmental monitoring carried out during the project. In July 2013, members of the team undertook a sitewide survey of figurative scenes at Herculaneum, and recorded fifty-two scenes from thirteen houses.

INJECTION GROUTS FOR THE CONSERVATION OF ARCHITECTURAL SURFACES: RESEARCH & EVALUATION



The project team continued working with international colleagues through a Réunion Internationale des Laboratoires et Experts des Matériaux, systèmes de construction et ouvrages (RILEM) technical committee to draft guidelines for conservation practice of injection grouting, including selection, evaluation and testing. This follows on research and testing that the GCI has been doing in this area. The GCI published a manual for the evaluation of injection grouts as an online and print-on-demand publication in October 2013.

MOSAIKON: BULLA REGIA



A rapid condition survey and assessment of all the currently exposed mosaics on site was completed, and a conservation plan for the over 350 mosaics is in progress. A topographic survey of most of the site was completed as well as a metric survey of the site's mosaics for inclusion in the Geographic Information System (GIS) being developed for Bulla Regia. The GCI-trained technicians based at the site completed the stabilization of mosaics at the Maison de la Chasse, the first step in conserving and presenting the architectural remains of the house.

MOSAIKON: Conservation and Management of Archaeological Sites with Mosaics



Planning began for the second regional training course for the southeastern Mediterranean region which will begin in April 2014 at the site of Paphos, Cyprus. Sixteen to twenty site managers and conservators from throughout the region will attend.

MOSAIKON: Regional Technician Training



The third and fourth training modules of the course were carried out at the sites of El Jem and and Bulla Regia. The third session was dedicated to the subject of in situ mosaic stabilization treatments and preventive conservation measures such as reburial. The final session at El Jem focused on the maintenance of detached and relaid mosaics on reinforced concrete. Site directors and trainee supervisors from Morocco, Algeria, Libya, and Tunisia visited the training worksite at Bulla Regia to witness firsthand the content and results of the training and to discuss the trainees' role in conserving mosaics at their sites.

MOSAIKON: SHELTERS FOR ARCHAEOLOGICAL SITES AND MOSAICS



In 2013 a literature review was published and an international symposium on sheltering archaeological sites and mosaics was held in Herculaneum, Italy. Over thirty heritage professionals attended the September symposium which covered a range of issues from deciding to shelter to evaluation and monitoring.

SOUTHERN AFRICAN ROCK ART PROJECT



In 2012 an exchange program was set up with the Australian National University in Canberra, whereby a group of rock art experts and managers from Kenya, Tanzania, Zimbabwe, South Africa, and Botswana visited Australian rock art sites, notably in Arnhem Land in the Northern Territory. A reciprocal visit to South Africa was organized in August 2013.

WALL PAINTINGS AT THE MOGAO GROTTOES



A continuing problem of flaking of wall paintings at the Mogao Grottoes is being investigated through a research program that seeks to confirm the role of previous treatments dating from the 1970s and later that employed impervious film-forming consolidants. Field work in 2013 included detailed documentation of conditions and noninvasive examination of the paintings and analysis of painting samples to identify treatment materials and to show the influence of fluctuating environmental conditions on the deterioration of the wall paintings.

INTEGRATED CONSERVATION PLAN FOR THE EARTHEN KSAR AND KASBAH OF TAOURIRT IN SOUTHERN MOROCCO



The project continued its first phase with the finalization of the architectural drawings of the kasbah, the design of the emergency shoring and protection of the Caid Residence, and the architectural survey of the open spaces of the Ksar. It also included the training of CERKAS personnel in documentation techniques for earthen sites and the preparation of an exhibition about the project for the local community.

ORGANIZATION OF WORLD HERITAGE CITIES (OWHC)



The GCI held the 2013 Mayor's Workshop, a core component of the biennial Organization of World Heritage Cities Congress in November 2013 in Oaxaca, Mexico.

URBAN CONSERVATION IN SOUTHEAST ASIA

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After being mentored by course instructors, participants from the first course (2012) were reconvened in Kuala Lumpur for three days in January 2013 to discuss how the course had impacted their work. The second iteration of the course occurred in October 2013, in Penang. Fifteen Malaysian planners and architects attended this course, along with six participants from Myanmar.

Decorated Surfaces

CONSERVING MODERN ARCHITECTURE INITIATIVE (CMAI)



The CMAI hosted a series of public lectures and carried out an initial research phase which culminated in a colloquium in March 2013 that gathered key experts in the field to assess current practice to identify priorities and how to address them. A special issue of the GCI Newsletter on the CMAI was published in May 2013. A second field project, the Salk Institute for Biological Study, aims to develop long-term conservation strategies for the teak wood fenestration system. Investigation and scientific analysis of the teak wood will be undertaken in 2013-2014 to assess its current condition and evaluate conservation treatments for the future.

EAMES HOUSE CONSERVATION PROJECT



Research undertaken in 2013 continues to focus on climate assessment, to aid in the environmental optimization for the interior of the house and its collection. Work to the house included repair of the wooden spine wall and metal window repairs. The project team is developing a conservation management plan, which brings together historical and documentary evidence, as well as physical analysis of the existing fabric and knowledge on its performance to inform a long-term strategy for the care and conservation of the house.

CONTEMPORARY ARCHITECTURE IN THE HISTORIC ENVIRONMENT



In May 2013, the GCI hosted an international symposium, "Minding the Gap: The Role of Contemporary Architecture in the Historic Environment," at the Getty Center which was moderated by architectural critic Paul Goldberger and featured architects Rafael Moneo, Denise Scott Brown, Juergen Mayer H., Thomas H. Beeby and Richard Rogers speaking about their different approaches to designing new buildings in the historic environment. The results of the symposium will inform future GCI work, such as the development of tools to guide the design of such interventions and assess their impacts. Video of the symposium can be viewed on our website.

Arches: Heritage Inventory and Management Systems



In November 2013 version 1.0 of the system was released. The project partners held an Arches community meeting in England with participants from a number of UK and European heritage government authorities and research institutions to receive feedback on development to date and to promote the growth of an Arches open source community. The partners launched a project website to serve as a platform for this community at www.archesproject.org.

Los Angeles Historic Resource Survey



The City of Los Angeles completed field surveys in three Community Plan Areas— Brentwood-Pacific Palisades; Bel Air-Beverly Crest; Westchester-Playa del Rey—and began survey work in four new areas—Silverlake-Echo Park-Elysian Valley; Westlake; Mission Hills-Panorama City-North Hills; Arleta-Pacoima. Survey reports for all completed survey areas are now posted on the SurveyLA website (SurveyLA.org). The GCI and the city also are preparing to customize the Arches information system for use by the city to manage and publish online data collected through the survey.

MIDDLE EASTERN GEODATABASE FOR ANTIQUITIES (MEGA)–JORDAN



The Jordanian Department of Antiquities continued to make regular use of the MEGA-Jordan system, which is online at www.megajordan.org. GCI staff also authored an article about the project in the University of Pennsylvania journal *Change Over Time*.

Recording & Documentation

CONFERENCE PRESENTATIONS

Cody, Jeff. "The Peregrination To and From the West, Between 1919 and 1992, of the Chinese Architect Liu Jipiao." Paper presented at the French Institut National d'Histoire de l'Art conference Architectural Exchange: Europe and East Asia, 1550-1950, Paris, France, 21-23 February 2013.

Cody, Jeff. The Architecture of Southeast Asian Cities: How do Architectural and Urban Expressions of Modernity Relate to Heritage?, at the Ecole Normale Superieure d'Architecture, Paris-Belleville, 12-14 June 2013. Invited discussant and conference co-organizer.

Friedman, Leslie. "MOSAIKON: A Strategic Initiative for the Conservation of Mosaics in the Mediterranean Region." Paper presented at Forum and Workshop for Mosaic Conservation and Training of Conservators in Southeast Europe, Ohrid, Macedonia, 2-6 September 2013.

Friedman, Leslie, Jeanne Marie Teutonico, Kathleen Dardes, Thomas Roby, and Zaki Aslan. "Training for the Conservation and Management of In Situ Mosaics: The MOSAIKON Initiative." Paper presented at the 2013 ASOR (the American Schools of Oriental Research) Annual Meeting, Baltimore, Maryland, 20-23 November 2013.

Macdonald, Susan. "Concrete Conservation: Keeping it Real." Keynote presentation at Filling the Gaps: World Heritage and the 20th Century International Conference, Chandigarh, India, 1 – 7 October 2013.

--------. "Integrating Conserving Modern Heritage in the Continuum of Conservation Practice." Paper presented at a Colloquium to Advance the Practice of Conserving Modern Heritage, Getty Conservation Institute, Los Angeles, California, 6-7 March 2013.

."Juxtaposition and Transformation: Preserving the Image of the City." Lecture at San Francisco Planning and Urban Renewal Association/San Francisco Heritage, San Francisco, California, 8 August 2013.

-------. "Learning From the Modern House Museum." Paper presented at Palm Springs Modernism Week, Symposium on Modern House Museums, February 2013.

MacDonald-Korth, Emily, and Leslie Rainer. "Observations on Materials and Techniques Used in Roman Wall Paintings from the *Tablinum of the Casa del Bicentenario* at Herculaneum." Paper presented at the 114th Annual Meeting of the Archaeological Institute of America in Seattle, WA, January 3-6 2013.

Maekawa, Shin. "Environmental Management Strategies for Green Museums: Consideration for Hot and Humid Climates." Paper presented at the conference Heritage Science and Sustainable Development for the Preservation of Art and Cultural Assets - On the Way to the GREEN Museum, Pergamon Museum Berlin, Germany, 11-12 April 2013.

Myers, David, and Yiannis Avramides. "The Arches Heritage Inventory and Management System: An Open Source System for the Inventory and Management of Immovable Cultural Heritage." Keynote presentation at the 24th International CIPA Symposium, Strasbourg, France, 2-6 September 2013.

Normandin, Kyle. "Adapting Shared Approaches in the Conservation of Modern Architecture." Keynote presentation at Filling the Gaps: World Heritage and the 20th Century International Conference, Chandigarh, India, 1-7 October 2013.

-------. "Approaches to the Conservation of Modern Wood Finish Treatments." Presentation at the Association for Preservation Technology - Historic Wood Finishes Workshop, Taliesin, Wisconsin, 14-15 June 2013.

--------. "Conservation of the Eames House, Vinyl Asbestos Floor Tiles." Presented at The 38th California Preservation Conference, Orange County, California, 1-3 May 2013.

-------. "Eames House Conservation Project: Environmental Monitoring and Climate Control Strategies." Presented at Association for Presentation Technology, Preserving the Metropolis Conference, New York, New York, 12-15 October 2013.

-------. Modern Metals Finishes Workshop, Association for Presentation Technology, Columbia University, New York, 11-12 October 2013. Planned and facilitated a two-day training workshop.

------. "Physical Conservation Challenges Facing Modern Architecture." Paper presented at a Colloquium to Advance the Practice of Conserving Modern Heritage, Getty Conservation Institute, Los Angeles, California, 6-7 March 2013.

-------. "Shared Approaches in the Conservation of Modern Heritage." Keynote presentation at *Miradas Convergentes*, 18th Colloquium and Seminar for the Conservation of Cultural Patrimony, Institute of Aesthetic Research, UNAM, Mexico City, Mexico, 6-8 May 2013.

Ostergren, Gail. "Aluminum, Linoleum, and Fiberboard, Oh My!: Conserving Modern Materials." Organized and moderated session at California Preservation Conference, Orange County, CA, 1-3 May 2013.

Roby, Thomas. 2013. "Balancing the Preservation and Presentation of Archaeological Sites." Presented at the workshop, Integrating Conservation and Archaeology: Exploration of Best Practices, sponsored by the AIA Conservation and Site Preservation Committee, Archaeological Institute of America Annual Meeting, Seattle, Washington, 3-6 January 2013.

Roby, Thomas, and Demetrios Michaelides. "Evaluation of the Orpheus Mosaic Project, Pephos, Cyprus." Presented at Protective Shelters for Archaeological Sites: A Symposium, Herculaneum, 22-27 September 2013.

PUBLICATIONS & ARTICLES

Alberti, Livia, Elsa Bourguignon, Ermanno Carbonara, Thomas Roby, and Juana Segura Escobar. *Glossaire illustré: Formation de techniciens à l'entretien des mosaïques in situ.* rev. ed. Supplement to *Formation de techniciens à l'entretien des mosaïques in situ.* Los Angeles: Getty Conservation Institute and Tunis: Institut National du Patrimoine. 2013. http://www.getty.edu/conservation/publications_resources/pdf_publications/glossaire.html

Alberti, Livia, Elsa Bourguignon, Ermanno Carbonara, and Amel Chebbi. *Manuels supplémentaires pour la documentation photographique numérique: Formation de techniciens à l'entretien des mosaïques in situ.* rev. ed. Supplement to *Formation de techniciens à l'entretien des mosaïques in situ.* Los Angeles: Getty Conservation Institute and Tunis: Institut National du Patrimoine, 2013. http://www.getty.edu/conservation/publications_resources/pdf_publications/manuels.html

Bicer-Simsir, Beril, and Leslie Rainer. *Evaluation of Lime-Based Hydraulic Injection Grouts for the Conservation of Architectural Surfaces: A Manual of Laboratory and Field Test Methods.* Los Angeles: The Getty Conservation Institute, 2013. www.getty.edu/conservation/groutsmanual

Cancino, Claudia, and Sara Lardinois, with Dina D'Ayala, Carina Fonseca Ferriera, Daniel Torrealva Dávila, Erika Vicente Meléndez, and Luis Villacorta Santamato. *Seismic Retrofitting Project: Assessment of Building Prototypes.* Los Angeles: The Getty Conservation Institute, 2013.

Cancino, Claudia, Sara Lardinois, Tim Michiels, and Poornima Balakrishnan, with Dina D'Ayala, Carina Fonseca, Natalie Quinn, Daniel Torrealva, and Erika Vicente,eds. *Earthen Architecture Initiative Seismic Retrofitting Project: A Bibliography.* Los Angeles: The Getty Conservation Institute, 2013.

Demas, Martha, and Neville Agnew. "Conservation and sustainable development of archaeological sites." In I. Rizzo and A. Mignosa editors. *Handbook on the Economics of Cultural Heritage*. Cheltenham, UK: Edward Elgar. 2013, 326-43.

Getty Conservation Institute. *The Return of América Tropical*, project video, 2013. http://www.getty.edu/conservation/our_projects/field_projects/siqueiros/siqueiros_related_mats.html

Macdonald, Susan. "Modern Matters: Breaking the Barriers to Conserving Modern Heritage." *Conservation Perspectives: The GCI Newsletter* 28, no 1. (2013): 4-9.

Macdonald, Susan and Gail Ostergren, editors. *Conserving Twentieth-Century Built Heritage: A Bibliography*, 2nd edition. Los Angeles: Getty Conservation Institute, 2013.

Maekawa, Shin. "Las saras de exposicion y almacenes para restos momofocados. Vitrinas. Analisis de volatiles, por que huelen las momias?" *Momias, Manual de buenas practicas para su preservacion*, Ministerio de Educacion, Cultura y Deporte, Madrid, Espana. 2012, 133-45.

Myers, David, Yiannis Avramides, and Alison Dalgity. "Changing the Heritage Inventory Paradigm: The Arches Open Source System." *Conservation Perspectives: The GCI Newsletter* 28, no 2. (2013): 4-9. http://www.getty.edu/conservation/publications_resources/newsletters/28_2/28_2toc.html

Normandin, Kyle. "The Eames House: Conserving a California Icon." Conservation Perspectives: The GCI Newsletter 28, no 1. (2013): 10-12.

Rainer, Leslie. América Tropical: From Original Technique to Conservation Treatment. In *The Siqueiros Legacy: Challenges of Conserving the Artist's Monumental Murals, October 16–17, 2012 Getty Center, Los Angeles.* Los Angeles: The Getty Conservation Institute, 2013. http://www.getty.edu/conservation/publications_resources/pdf_publications/original_technique.html

-------. América Tropical: Historic Overview and Project Context. In *The Siqueiros Legacy: Challenges of Conserving the Artist's Monumental Murals, October 16–17, 2012 Getty Center, Los Angeles.* Los Angeles: The Getty Conservation Institute, 2013. http://www.getty.edu/conservation/publications_resources/pdf_publications/historical_context.html

Rainer, Leslie, and Luann Manning, editors. *The Siqueiros Legacy: Challenges of Conserving the Artist's Monumental Murals: Proceedings of an International Symposium Organized by the Getty Conservation Institute, Los Angeles, California, October 16-17, 2012*, Los Angeles: Getty Conservation Institute, forthcoming.

Roby, Thomas, and Martha Demas, editors. *Mosaics In Situ. An Overview of Literature on Conservation of Mosaics In Situ*. Los Angeles: The Getty Conservation Institute, 2013.

http://www.getty.edu/conservation/publications_resources/pdf_publications/lit_review.html

Roby, Thomas, Livia Alberti, and Ermanno Carbonara. *Formation de techniciens à l'entretien des mosaïques in situ*. rev. ed. Los Angeles, CA: Getty Conservation Institute and Tunis: Institut National du Patrimoine, 2013. http://hdl.handle.net/10020/gci_pubs/tech_training_french

Wong, Lorinda, editor. *The Conservation of Management of the Tomb of Tutankhamen (KV 62): A Project Bibliography*. Los Angeles: Getty Conservation Institute, 2013.

http://www.getty.edu/conservation/publications_resources/pdf_publications/pdf/tut_bibliography.pdf

Wong, Lorinda, and Neville Agnew, editors. *The Conservation of Cave 85 at the Mogao Grottoes, Dunhuang: A Collaborative Project of the Getty Conservation Institute and the Dunhuang.* Los Angeles: Getty Conservation Institute, 2013.

Wong, Lorinda, Neville Agnew, and Martha Demas. "Applying the China Principles: The Getty Conservation Institute's Work at Dunhuang and Chengde in China." In *Proceedings of the Buddhist Art Forum, London, 11-14 May 2012*. London: Archetype Press, 2013, forthcoming.

Wong, Lorinda, and Stephen Rickerby." The Technology of Royal Tomb Decoration." In *The Oxford Handbook of the Valley of the Kings*. Edited by Kent Weeks and Rchard Wilkinson. New York: Oxford University Press, forthcoming.

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Algerian Department of Antiquities Archaeological Research Unit of the University of Cyprus Australian National University - IPPHA Badan Warisan Malaysia Centre de Conservation et de Réhabilitation du Patrimoine Architectural des Zones Atlasiques et Sub-atlasiques, Maroc (CERKAS) Chinese Academy of Cultural Heritage City of Los Angeles Clanwilliam Living Landscape Project, South Africa Courtauld Institute of Art Department of Antiquities, Cyprus Diocese of Ica, Peru Direction du Patrimoine, Ministère de la Culture, Maroc Dunhuang Academy, China Eames Foundation **English Heritage** Flanders Heritage Agency GCI Council Herculaneum Conservation Project Institut National du Patrimoine, Tunisie International Centre for the Study of the Preservation and Restoration of Cultural Property (ICCROM)

Iraq State Board of Antiquities and Heritage J. Paul Getty Museum Jordanian Department of Antiquities Los Angeles City Council Libyan Department of Antiquities Ministerio de Cultura del Perú Ministry of State for Antiquities, Egypt Morocco Department of Antiquities Non-Catholic Cemetery in Rome Office of Historic Resources, City of Los Angeles Organization of World Heritage Cities Pontificia Universidad Católica del Perú Rock Art Research Institute, University of Witwatersrand Salk Institute for Biological Studies Soprintendenza Speciale per i Beni Archeologici di Napoli e Pompei South African Heritage Resources Agency State Administration of Cultural Heritage, China The Getty Foundation Think City, Penang, Malaysia University College London World Monuments Fund



Top row, left to right: Kuño Tambo, Peru, Seismic Retrofitting team; Stone Course participants, Rome; Siqueiros mural receives award, Los Angeles Bottom row, left to right: Technician training certificate ceremony, Tunis; CMAI colloquium participants, Los Angeles; GCI and CERKAS team, Kasbah Taourirt, Morocco

For further information on current and past projects visit: http://www.getty.edu/conservation/about/field_projects/index.html

The Getty Conservation Institute