The Temple of the Winged Lions (TWL) is a majestic Nabataean temple built on a promontory above the north bank of the Wadi Musa overlooking the Petra city center. Although the presence of a monumental structure in this spot was recognized as early as the end of the 19th century, it was not until the 1970s that the nature of the building was identified. The temple and several areas abutting it were the focus of a long-term excavation project directed by the late Philip C. Hammond (1924–2008) during the years 1974 to 2005 and called the American Expedition to Petra (AEP). During the early years of the AEP project, the temple cella was cleared, leading to the discovery of the unique “winged lions” capitals (from columns around the central cultic podium) that gave the building the moniker still used today. Other data recovered from the excavations led to identifying the temple as likely having been dedicated to the primary Nabataean goddess al-Lat/al-'Uzza, and also possibly as a place where the imported Hellenistic Isis cult was celebrated. Hammond dated the completion of the building to the first quarter of the 1st century A.D.
Unfortunately due to a variety of factors, including limited funding, the TWL was never thoroughly conserved or restored during the life of the AEP project. A few conservation interventions were undertaken by the AEP, but these were generally limited to essential stabilization needs. The only significant conservation/restoration effort was undertaken in 2003 by the Department of Antiquities and involved the west wall of the temple cella which was at risk of completely collapsing. The rest of the building and its precinct, however, has remained without any conservation intervention for nearly 40 years. As a result, the structural elements have suffered severe deterioration from wind, water, and use-related erosion, solar radiation exposure, rising damp and salt efflorescence, geological action, and vandalism. By 2009, the overall status of the TWL had become extremely dire and it was clear that without a major and concerted initiative to address the many and complex issues plaguing the precinct, the long-term survival of the temple was not assured.

In order to save this important character in Petra’s story, the Temple of the Winged Lions Cultural Resource Management (TWLCRM) initiative was launched in 2009 as a cooperative project by ACOR, the Department of Antiquities of Jordan (DOA), and the Petra Archaeological Park (PAP) (see ACOR Newsletter 21.2, p. 6). The initiative was developed to accomplish a number of important goals: (1) to stabilize, conserve, and protect the monumental temple and its precinct; (2) to rehabilitate the surrounding landscape that was adversely affected by the original excavation project; (3) to develop and implement a comprehensive presentation strategy for the temple and its environs; (4) to (re-)publish all of the data derived from both the original excavation and the new project; (5) to help develop guidelines and manuals for different aspects of cultural resource management (CRM) work in the Petra Archaeological Park; and (6) to build local capacity for undertaking CRM efforts as a means of increasing the likelihood that current and future work will become sustainable. It is anticipated that the TWLCRM initiative will take at least another five years to complete.

The need to achieve such diverse goals has required the TWLCRM to evolve, since its inception, into an innovative project for Petra—one which employs a holistic, grassroots model that encompasses a number of subcomponents—Assessment, Documentation, Landscape Rehabilitation, Conservation, Restoration, Presentation, Archives, and Publication. The key unifying factor integrating these subcomponents is an emphasis on a Social Engagement approach which directly involves members of the local communities in nearly all aspects of the work. This is intended to foster the development of different types of capacity within these communities and provide an accessible venue for their unique, innate contributions to such projects. The capacity building includes training in a variety of job skills, developing consciousness about the different Outstanding Universal Values that make Petra a World Heritage site, fostering a sense of ownership for both the monuments themselves and the work undertaken on them, and perhaps most importantly, creating a dialogue-based ethos that permits a beneficial educational exchange between the visiting experts and the local population. During the period covered by this short report up to December 2012, approximately 250 local people have participated in and contributed to the TWLCRM initiative. About 50 percent of the local team members have been women, a fact that is itself a major innovation for work in Petra.

**Funding**

Fundraising for the TWLCRM also began in 2009. At that time ACOR received a small grant from the Global Heritage Fund (GHF) for the initial assessment of the project. In late 2010, the TWLCRM was chosen by the U.S. Embassy to Jordan to be the country’s 2011 nominee for the U.S. Ambassadors Fund for Cultural Preservation (AFCP) Large Grant program competition, sponsored by the U.S. Department of State’s Bureau of Educational and Cultural Affairs. ACOR was notified in September 2011 that it had won a $600,000 grant to assist with the conservation and restoration expenses.

The official launch event with the U.S. Embassy to Jordan for the AFCP grant was held on site in Petra in March 2012. Other funding for the project is presently being contributed by ACOR from a USAID endowment for cultural heritage work in Jordan. In-kind logistical support is being provided by both the DOA and PAP. Additional funding will be required to complete the TWLCRM, so fundraising efforts continue, such as seeking more grants, as well as donations from individuals, foundations, and corporate sponsors.

![U.S. Ambassador to Jordan, H.E. Stuart Jones, U.S. Embassy Jordan Cultural Affairs Officer, Anneliese Reinemeyer, and ACOR Associate Director, Christopher A. Tuttle, on the day of the official visit in Petra for AFCP grants to ACOR and the Petra National Trust (PNT); photo by Barbara A. Porter](image)

**Assessment, Documentation, and Archives**

Much of the work conducted by the TWLCRM between 2009 and 2012 focused on the Assessment, Documentation, and Archives subcomponents. This work began with two short assessment and documentation field seasons in 2009 that were aimed at evaluating the structure’s condition in order to determine whether or not the nascent TWLCRM initiative would be feasible. The conclusion drawn from this initial work was that it was possible, so development of the TWLCRM began in earnest.
This development effort was significantly bolstered in 2009 when the late Fawwaz Al-Khraysheh, then DOA Director General, contacted Philip Hammond’s widow, Lin Hammond, to inquire about the possibility of gaining access to the original AEP excavation archives. She generously arranged to have returned to Jordan the entire AEP archive (ACOR Newsletter 21.2, p. 11), and it arrived in January 2010 at ACOR, where it has been catalogued and almost completely digitized during the past three years. The AEP archive is an invaluable resource for the TWLCRM. The work of analyzing the AEP archive in order to assist the TWLCRM and prepare for subsequent (re-)publication has begun.

A massive amount of documentation on the site has also been undertaken during these first three years; most of this work has included the training of local team members to assist with or conduct independently the photographing, drawing, inventorying, data classification, and database entry. The current state of all the standing architecture in the TWL area has been recorded photographically, and work has also begun to correlate these images with corresponding data from the AEP archives. Drawings to record the different types of damage evident on the temple itself using a standard classification system have been completed. All of the standing architecture in the temple proper has now been drawn and classified into a new categorization scheme. An archaeology of masonry study of the architectural construction phasing for some of the ancillary areas around the precinct has also been initiated.

There is an enormous impact zone extending outward from the excavated area of the TWL, which includes ±six lapidaria with carved architectural elements, ±six ashlar dumps, ±five rubble piles, and ±seven soil dumps. All of the stone construction materials in the lapidaria and ashlar dumps is being systematically recorded, entered into databases, and correlated when possible to the AEP archive data. The rubble piles are also being culled for additional architectural materials which are recorded when found.

Two documentation efforts that provide comprehensive coverage for the entire TWLCRM work zone have also been completed. The first was a new total station survey of the TWL precinct and original work zone by Quteiba Dusuki (DOA). This effort included relocating and reestablishing the original AEP excavation grid and then georeferencing the final AEP top plan from the original excavation so that it can be correlated with the new survey data. The second effort was a coopera-
The University of California, San Diego (UCSD) team preparing the helium balloon for flight over the TWLCRM work zone, with the temple in the background; photo by Qeis Twaissi

A georeferenced, composite aerial image of the TWLCRM work area obtained with a helium balloon in November 2012 as part of a cooperative project initiated by Christopher A. Tuttle (ACOR) and Thomas E. Levy (UCSD). Image courtesy of the University of California, San Diego – California Institute of Telecommunications and Information Technology (Calit2), Levantine Archaeology Laboratory and Cyber-Archaeology Laboratory; the Temple of the Winged Lions Cultural Resource Management Initiative (TWLCRM) of the American Center of Oriental Research (ACOR); and the Department of Antiquities of Jordan.
tion with a team from the University of California, San Diego (UCSD), directed by Thomas E. Levy, and the DOA to obtain complete, orthophotographic, aerial coverage of the TWLCRM work zone using a specially designed helium balloon.

**Landscape Rehabilitation**

Major problems faced by the TWLCRM are the massive impact zone left by the original AEP project on the landscape surrounding the excavated temple areas, and the reality that any work undertaken by the current initiative will also have an impact on the landscape. This zone radiates outward for ±150–200 m in all directions, and consists of all the lapidaria, ashlar dumps, rubble piles, and soil dumps already enumerated. This impact zone adversely affects a number of Petra’s Outstanding Universal Values as a World Heritage site, especially the aesthetic, environmental/ecological, didactic, and scientific.

A major CRM innovation introduced into Petra by this project is the concept of landscape rehabilitation. This subcomponent is experimenting with developing ways to mitigate some of the impacts found in this zone. The goals are to enhance the overall final presentation strategy for the TWL, to remove impediments that presently complicate or impede additional scientific research in abutting areas, and, most importantly, to try and understand better the long-term impact of archaeology and CRM interventions on the natural landscape.

A number of stages in this subcomponent have begun. In 2012, the site was gridded and a baseline survey of the vegetation cover was conducted; a comparison site elsewhere in Petra with a similar slope and aspect, but without archaeological disturbance, was also surveyed. These sites will be monitored seasonally during the coming years so that changes can be noted and documented. An experiment was also begun on the site in which six raised planting beds were constructed and filled with different types of soils from the TWLCRM work zone. These beds will be observed throughout the project in order to see what may or may not grow naturally. All of this data will eventually contribute toward the final presentation and management strategy.

The most visible work on the site today is also related to this subcomponent. In June 2012, the TWLCRM team began systematically removing the soil, rubble, and ashlar dumps from the landscape. The soil dumps are reexcavated and the soils sifted. All recovered material culture is collected, sorted, and processed for study by trained team members. The clean soil, pebbles, and cobbles are all stored separately for recycling in subsequent efforts on the site. Some of the clean soils are immediately used for the temporary backfilling of areas within the TWL to create protective surfaces on which the team can work without causing new damage. Initially, the team needed clean backfill faster than we could produce it from the AEP dumps; this led to a fruitful partnership with two other excavation projects in Petra that needed ways to remove their sifted dump soils: the TWLCRM employed a donkey brigade that carried sandbags to relocate soils from remote locations to the TWL, thus ensuring that all parties benefited.

Several major rubble piles and ashlar dumps have also now been removed from the landscape. The ashlars are first moved from the dumps to a temporary work area. Each stone is then examined to determine if there are any special features and then assessed for suitability for possible reuse. All ashlars are measured, inventoried, and the different types of tool marks that may be evident are recorded using a standardized system. Those ashlars not selected for retention were then moved into an old AEP excavation trench and reburied (at the time of writing this article, ±1300 ashlars have been removed from the landscape).

**Conservation**

Preparatory work for the necessary conservation interventions were carried out during 2011–2012. Appropriate materials were identified and obtained; most of the needed materials were found within Jordan, so only select specialty items had to be imported. A small, new wall was constructed on site by the conservation team using a combination of old and new building materials in order to test a variety of mortar mixtures. Part of this new wall was later buried using clean soils as a means of testing a possible geotextile fabric substitute donated to the project by FINE Hygenic Holding (FHH) of the Nuqul Group in Jordan. This geotextile test area will be excavated during the summer of 2013 to assess the viability of the fabric for future use in this and other projects. The first round of conservation work on the TWL will begin in spring 2013.
One of the most exciting social engagement elements has been the creation of an informal women’s sandbag cooperative within the surrounding towns. The TWLCRM needs about 12,000 sandbags, which are not readily available in Jordan. Rather than import sandbags at great expense, the initiative decided instead to make them locally. This is done by using recycled burlap (jute) rice bags available here. Community members helped identify women who wanted to work with the TWLCRM. Many of them are divorced or widowed with children and have no source of independent income. These women are given the rice bags and shown how to modify them by hand using a needle and jute twine; the work is done at home (often while minding children) and permits them to make a small income. The modified bags are then filled on the site using the clean soils from the sifted dumps. There, another group of women sew the bags closed. The filled bags are then used for buttressing architecture, controlling foot-traffic, and other stabilization efforts. The TWLCRM hopes to make this sandbag cooperative sustainable by offering the service to other projects in Jordan.

**More Steps Forward**

During 2013, the scope of the TWLCRM work will expand to encompass efforts in several other subcomponents. This work will include conservation interventions on the structures and renewed excavations to complete our understanding of the site for the final presentation strategy, as well as some limited restoration. These additional efforts will afford the TWLCRM team new opportunities for learning and contributing to the overall vision in different ways.
Royal Jordanian Sponsorship for the TWLCRM Initiative in Petra

ACOR is proud to announce a new sponsorship agreement with Royal Jordanian Airlines for the support of the TWLCRM initiative in Petra. RJ is the preferred airline for ACOR and the airline of choice for the conservation experts affiliated with the TWLCRM project in Jordan. RJ—a oneworld alliance member—is the national flag carrier of Jordan and celebrates its 50th anniversary in 2013. The carrier serves 60 destinations on four continents and offers the only non-stop service from Chicago, Detroit, Montreal, and New York to Amman.

The association between RJ and the TWL was first established in the 1980s when RJ provided corporate sponsorship for the original American expedition led by Philip C. Hammond. In light of these historical ties, it seems fitting to have this renewed sponsorship take place in the year RJ celebrates 50 and ACOR 45 years.

Royal Jordanian is the first local corporate sponsor for the TWL project for 2013. In spring 2013, conservators and specialists will fly with RJ to Jordan from three European countries—Italy, Macedonia (via Istanbul), and Greece—to work on the preservation and restoration of the TWL monument in Petra. This sponsorship will allow ACOR to offset travel expenses and utilize those resources to conserve and preserve the monument and to build the capacity of the local community working on the project. We are hoping that this collaboration will set a precedent for more direct involvement from other Jordanian and international private sector companies to follow suit in supporting this initiative.

Yumna Abuhassan, ACOR Development Officer

ACOR Study Tour—Jordan In-Depth

In October 2013, ACOR is hosting a study tour in Jordan that will encompass many different activities and numerous site visits. This program builds on many of my past experiences. Before I moved to Amman in spring 2006 to become Director of ACOR, I had the good fortune to lead several archaeological tours in the Middle East and North Africa. From 1996 to 2006, I led fifteen tours and each one provided chances to share special sites with interesting fellow travelers (some of whom have already signed up for this tour). Four trips were part of the Metropolitan Museum of Art’s Travel Program. The eight journeys with Spieckermann Travel Service took me from Algeria to Iran. Several trips took place in Jordan and
were combined—as was the norm then—with visits to Egypt or Syria. Given my connections with Spiekermann, this travel company was chosen as the partner to handle reservations and produce the brochure. ACOR will serve as homebase for the program except for the journey to the south.

In Jordan, the logistics are facilitated by Petra Moon Tours, a company in Wadi Musa which helped ACOR with our summer Arabic language programs from 2006 to 2012 and with two seminars that I ran for U.S. college professors in 2007 and 2010 (see *ACOR Newsletter* 22.1, p. 6). Those seminars focused on Islam and Middle Eastern culture and were undertaken with the Council of Independent Colleges (CIC) and the Council of American Overseas Research Centers (CAORC). Former ACOR Director Pierre Bikai presided over three such seminars, and many interesting guest lecturers enhanced our respective programs. Some of them will be asked to speak on their fields of specialization in fall 2013.

The full program is posted on our website and that of Spiekermann Travel (links on back cover advert). The major sites of Jordan will be visited and the planned order includes Amman, the Madaba region, Umm Qais, the Desert Castles, Jerash, Ajlun, and Umm al-Jimal for central and northern Jordan. On 13 October, the group will travel south and spend three nights in Petra where participants will have the chance to learn more about ACOR’s active projects there. Before returning to ACOR, one night will be spent in Aqaba after a day in Wadi Rum and another in the Wadi Mujib lodges of the Royal Society for the Conservation of Nature (RSCN).

Around the middle of October, the major Moslem religious holiday of the Eid al-Adha (the Feast of Sacrifice) will take place so the rhythm of the country will change. For those who join this tour and want to spend more time in country—given how much there is to do (such as trekking in the various RSCN reserves)—ACOR can offer additional accommodation before or after the study program as well as advice on other wonderful opportunities in Jordan.

*Barbara A. Porter, ACOR Director*
American Center of Oriental Research: 2013–2014 Fellowship Awardees Announcement

National Endowment for the Humanities Post-Doctoral Research Fellowship
Julie M. Peteet (Anthropology and Middle East & Islamic Studies, University of Louisville) The Cultural Politics of Baths (Hammamat) in Jordan
David Graf (History and Religious Studies, University of Miami) A New Corpus of Ancient North Arabian Inscriptions: A Different View of Nabataean and Roman Arabian Society

ACOR-CAORC Post-Graduate Fellowship
Leigh-Ann Bedal (Anthropology, Pennsylvania State, Erie) It’s In the Pipeline: Ceramic and Lead Pipes from the Petra Garden and Pool Complex
David Graf (History and Religious Studies, University of Miami) A New Corpus of Ancient North Arabian Inscriptions: A Different View of Nabataean and Roman Arabian Society
Gary O. Rollefson (Anthropology, Whitman College) Reconnaissance and Artifact Analysis of the Eastern Badia Archaeological Project, Black Desert, Jordan

ACOR-CAORC Fellowship
Patrick John Adamiak (Middle Eastern History, University of California, San Diego) Importing Ottoman Nationals: The Ottoman Settlement of Caucasian Refugees and Ottoman Governance in Anatolia and Greater Syria 1860-1918
Theresa Dazy (Middle Eastern History, Indiana University) Between Isolation and Assimilation: Circassian Settlers in the Jordan Valley, 1878-1939
Elias Saba (Near Eastern Languages and Civilizations, University of Pennsylvania) What’s the Difference? Distinctions and Development in Post-Formative Islamic Law
Jennifer C. Groot Fellowship
Tucker Deady (Undergraduate Student, Archaeology - Anthropology, Dickinson College) Khirbet Iskandar Excavations
Emma Pugmire (Undergraduate Student, Classics, University of Tennessee) 'Ayn Gharandal Archaeological Project
Harrell Family Fellowship
Martha Schulz (Graduate Student, Oriental and Asian Studies, University of Bonn) Tall Hisban

Pierre and Patricia Bikai Fellowship
Micaela Sinibaldi (Graduate Student, Cardiff University) Settlement Patterns in the Crusader-Period Lordship of Transjordan: A Historical and Archaeological Study
Sarah Elise Wenner (Graduate Student, Ancient History, North Carolina State University) Petra Pool and Garden Project and the Udhruh Survey

Bert and Sally de Vries Fellowship
Tareq Ramadan (Graduate Student, Anthropology - Archaeology, Wayne State University) Shuqayra Al-Gharbiyya

ACOR-CAORC Fellowship
Leigh-Ann Bedal (Anthropology, Pennsylvania State, Erie) It’s In the Pipeline: Ceramic and Lead Pipes from the Petra Garden and Pool Complex
David Graf (History and Religious Studies, University of Miami) A New Corpus of Ancient North Arabian Inscriptions: A Different View of Nabataean and Roman Arabian Society
Gary O. Rollefson (Anthropology, Whitman College) Reconnaissance and Artifact Analysis of the Eastern Badia Archaeological Project, Black Desert, Jordan

ACOR-CAORC Fellowship
Patrick John Adamiak (Middle Eastern History, University of California, San Diego) Importing Ottoman Nationals: The Ottoman Settlement of Caucasian Refugees and Ottoman Governance in Anatolia and Greater Syria 1860-1918

Frederick-Wenger Memorial Jordanian Educational Fellowship
Mohammed Mahmoud (Graduate Student, Sustainable Tourism and Archaeology of Ancient Arab Civilizations, The Hashemite University) Dar al-Saraya Museum: Conservation, Management and Tourism Strategic Plan

ACOR Jordanian Graduate Student Scholarship
Ahmad Al Salman (Graduate Student, Sustainable Tourism and Archaeology of Ancient Arab Civilizations, The Hashemite University) Conservation and Restoration Plan for the Archaeological Site of Quwailbeh (Abila)

Kenneth W. Russell Memorial Fellowship
Janna-Mirl Redmann (Graduate Student, Oriental and Asian Studies, University of Bonn) Tall Hisban

James A. Sauer Fellowship
Craig Andrew Harvey (Graduate Student, Roman Archaeology, University of Victoria) The Wall-heating Pipes from the Humayma Garrison Bathhouse

Imperium sine fine? Comparing Roman Colonialism in Arabia and Dacia

ACOR Jordanian Graduate Student Scholarship
Ahmad Al Salman (Graduate Student, Sustainable Tourism and Archaeology of Ancient Arab Civilizations, The Hashemite University) Conservation and Restoration Plan for the Archaeological Site of Quwailbeh (Abila)

Muaffaq Hazza (Graduate Student, Archaeology and Epigraphy, Yarmouk University) History of Umm el-Jimal through its Inscriptions

Abdullah Khazawneh (Graduate Student, Epigraphy, Yarmouk University) Master of Arts in Epigraphy

Heba Sawalmeh (Graduate Student, Sustainable Tourism and Archaeology of Ancient Arab Civilizations, The Hashemite University) Organic and Functional Analysis of the Early Bronze I and Iron Age II Pottery from North and Central Jordan

Award Recipients for the Kenneth W. Russell Memorial Trust

2011
Hussain Awad Hammad Al Fakeer
Rawan Naif Matrood Al Fakeer

2012
Fatma Ismael Jumah Al Samaheen
Mohamad Abdullah Mohamad Al Samaheen
Public Lectures at ACOR (Fall 2012)

September 18—Jennie Ebeling (ACOR-NEH Fellow and University of Evansville), “Bread Culture in the Levant: Ancient Evidence and Modern Insights”

October 16—Moawiyah Ibrahim (Professor of Archaeology and Jordanian Representative to the World Heritage Committee of UNESCO) and Laura Strachan (McMaster University), “Wadi Bani Kharous, a Cultural Landscape, Ethno-Archaeological Studies in the Sultanate of Oman”


To be on the mailing list for our public lectures, please send a message to acor@acorjordan.org

Fellows in Residence (July–December 2012)

National Endowment for the Humanities Post-Doctoral Research Fellow

Jennie Ebeling, Archaeology and Art History, University of Evansville; Bread Culture in Jordan: A Study of Women’s Changing Roles in Bread Production in the 21st Century

ACOR-CAORC Pre-Doctoral Fellows

Nora Barakat, History, University of California, Berkeley; Rethinking the Modern: Animals, Pastoral Nomads, and Property Relations in Late Ottoman Syria

Michael Makara, Political Science, Syracuse University; Defiant Legislatures: Understanding Legislative Strength in the Middle East

Jennie Ebeling with her husband, Max Rogel, and daughters Lilah and Aviva

Nora Barakat with her husband, Ahmed Barakat, and son Omar

Michael Makara
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(July–December 2012)

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November 2012 Board Meeting

The ACOR Board of Trustees fall meeting took place 17 November at the Chicago Marriott Downtown Magnificent Mile Hotel in Chicago, IL at the time of the ASOR Annual Meeting. Anne M. Dunn was elected to the Board as a member of the Class of 2014. It was resolved that the Nominating and Personnel Committees be combined as the Governance Committee and be chaired by Nina Köprülü and S. Thomas Parker. Development activities were discussed at great length based on new efforts initiated in Amman prior to the board meeting by consultant Nanette Pyne, who came to Jordan for ten days thanks to CAORC, and newly hired ACOR Development Officer Yumna Abuhasan.

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