

# ACOR Newsletter

## أخبار أكور



Vol. 24.2—Winter 2012

### Temple of the Winged Lions Cultural Resource Management Initiative— Some First Steps Forward (2009–2012)

*Christopher A. Tuttle*

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 19<sup>th</sup> 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 1<sup>st</sup> century A.D.



A fragment of one of the eponymous “winged lions” capitals from the temple; original AEP registration photograph, courtesy of Lin Hammond, now in the AEP archive housed at ACOR, and new logos for the TWLCRM initiative designed by Qeis Twaissi. Follow the project on Facebook—  
<http://www.facebook.com/TWLCRM>

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

### **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.





Lin Hammond in her Arizona garage in December 2009, with the boxes containing the American Expedition to Petra (AEP) archives prepared for shipping back to Jordan; photo by Christopher A. Tuttle

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



TWLCRM local team members sifting the soils reexcavated from the original AEP project dumps; photo by M. Elena Ronza

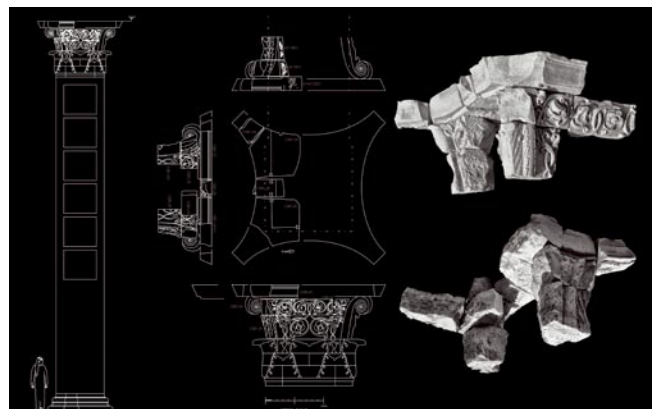
have been completed. All of the standing architecture in the temple proper has now been drawn and classified into a new categorization scheme. An archaeology of masonry study of the architectural construction phasing for some of the ancillary areas around the precinct has also been initiated.

There is an enormous impact zone extending outward from the excavated area of the TWL, which includes  $\pm$ six lapidaria with carved architectural elements,  $\pm$ six ashlar dumps,  $\pm$ five rubble piles, and  $\pm$ 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-



TWLCRM local team members, Eman Hussein Abdalsalam and Sakhr Mohammed Samahin, documenting architectural elements in the original excavation lapidaria; photo by Qeis Twaissi



One of the monumental half-capitals from the front façade of the temple reassembled from fragments found in the lapidaria—part of the detailed documentation of architectural elements produced by the team's Documentation Specialist Qeis Twaissi





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





The temple interior (cella) after completing the temporary, protective backfilling of the floor and the building of sandbag barriers around sensitive features; photo by M. Elena Ronza



TWLCRM local team member Bassam Ayedh Faqir helping to unload sandbags carried by the donkey brigade from the Petra North Ridge excavation site; photo by M. Elena Ronza

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  $\pm 150$ – $200$  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 ashlar is 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 ashlar is measured, inventoried, and the different types of tool marks that may be evident are recorded using a standardized system. Those ashlar not selected for retention were then moved into an old AEP excavation trench and reburied (at the time of writing this article,  $\pm 1300$  ashlar 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 Hygienic 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.



TWLCRM Lead Conservator Christina Danielli (center) and conservation technicians Mohammed Freij (right) and Milena Zafirova (left) build a new wall for testing different lime mortar mixtures; photo by Qeis Twaissi

### ***Social Engagement***

A significant amount of the TWLCRM efforts during the past three years has been directed toward developing relationships within the local communities for the social engagement subcomponent. This strategy has led to a substantial number of local persons participating in and contributing to the initiative. Many of these team members have already received sufficient training to be able to undertake various CRM tasks without direct supervision.

The TWLCRM's first step was to inaugurate an egalitarian system for hiring team members for work and training. A system was designed in which everyone's name is registered on a roster, organized by town, tribe, and family unit. This allows the project to apportion the opportunities available in each field season equally; this system is further augmented through a dialogue between the TWLCRM and Petra regional communities that help prioritize people who have immediate or special need. The initiative also introduced a tiered pay scale that provides these team members with the opportunity for advancement based on the acquisition of new skills, demonstrated commitment to the project, and increased CRM awareness, as well as other factors. The project also hired women for the first time for a range of different fieldwork tasks and training.



TWLCRM team member Khatima Ruwei Jdeilat sewing the sandbags closed on site; photo by Qeis Twaissi

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.

The TWLCRM initiative's team of experts has grown organically since 2009 as necessary skills were identified; it includes Christopher A. Tuttle (TWLCRM Director/archaeologist), Asma Shhaltoug (DOA project Co-Director/engineer), Maria Elena Ronza (Project Manager/archaeologist/architect), Chrysanthos Kanellopoulos (Lead Architect), Christina Danielli (Lead Conservator), Qeis Twaissi (Documentation Specialist), Erin Addison (Landscape Architect), Tali Erickson-Gini (Ceramologist/archaeologist), Fatma Marii (Artifact Conservator), Tahani Al-Salhi (PAP liaison/engineer), Quteiba Dusuki (DOA surveyor), Elena Corbett (modern historian), Matthew Vincent (GIS specialist), Micaela Sinibaldi (archaeologist), Mohammed Freij and Milena Zafirova (conservation technicians), and Barbara A. Porter (ACOR project oversight). We appreciate the work of Nisreen Abu Al Shaikh (ACOR Comptroller) who helps keep track of the complex finances. The TWLCRM also thanks the nearly 250 people from the communities around Petra who have participated in and contributed to the initiative. The digital processing of the AEP archives has been undertaken by Rudaina Al-Momani and Yusef Abu Ali and overseen by Samya Khalaf and Carmen Ayoubi of the ACOR Library. The digital database for this archive is being developed by Karen A. Borstad.

The TWLCRM would also like to acknowledge the contributions made by the following consultants: Fawaz Isaqat, David Johnson, John Hurd, Gaetano Palumbo, Franco Sciorilli, May Shaer, Fawzi Abudanah, Zbigniew Fiema, Bernhard Kolb, Stephan Schmid, Thomas E. Levy (and team), and Suleiman Farajat. In the DOA, we would also like to extend our appreciation for the support of this project to the former Director Generals, Fawwaz Al-Khraysh and Ziad Al-Saad, as well as the current Acting Director Fares Al-Hmoud and Jihad Haroun, director of excavations and survey, and in the Petra Archaeological Park to the Commissioner Emad Hijazeen.





## 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 50<sup>th</sup> 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*



ACOR's building in northwest Amman across from the University of Jordan and beside a Byzantine farmhouse; all photos by Barbara A. Porter

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 Spiekermann Travel Service took me from Algeria to Iran. Several trips took place in Jordan and



The Roman Temple (known as the Temple of Hercules) on the Amman Citadel as seen through a Byzantine basalt door in the garden of the museum; the temple was restored in the early 1990s by ACOR and the Department of Antiquities and funded by USAID.



The double windows from House XVII-XVIII in the midst of the Byzantine-Umayyad site of Umm al-Jimal, after conservation funded by an Ambassadors Fund for Cultural Preservation Grant (see [www.ummeljimal.org](http://www.ummeljimal.org)).

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*



Ottoman-period house at Umm Qais, the Decapolis city of Gadara with extensive Roman and Byzantine ruins; the Umm Qais rest house was constructed with local materials, designed by Ammar Khamash, and opened in 1991 as part of an ACOR USAID funded project.



Niches carved in the Disi sandstone formation on the plateau above the Bab as-Siq in Petra located south of the Aslah Triclinium Complex which takes its name from the Nabataean inscription "Aslah, the son of Aslah, made this rockcut chamber for Dushara... for the life of Obodas, king of Nabatu" (ca. 96/95 B.C.)



## 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

**Morag Kersel** (Anthropology, DePaul University) The Lives of Pots: Grave Goods, Excavated Artifacts, Looted Items, and Collected Objects from the Early Bronze Age Mortuary Sites on the Dead Sea Plain, Jordan

**Gary O. Rollefson** (Anthropology, Whitman College) Reconnaissance and Artifact Analysis of the Eastern Badiya 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 Dazey** (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

### *MacDonald/Sampson Fellowship*

**Emanuela Bocancea** (Graduate Student, Archaeology, Joukowsky Institute, Brown University) Imperium sine fine? Comparing Roman Colonialism in Arabia and Dacia

### *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

### *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)

**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 Annual Tawjihi Prize for Students in Umm Sayhoun*

#### **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”

**December 9**—Raouf Abujaber (Independent Scholar), “Farmer’s Life in Transjordan during the 19<sup>th</sup> Century and the Problem with Water”



K.D. Politis signing copies of his recently published volume on the excavations at the Sanctuary of Lot



The speaker Raouf Abujaber signing a copy of his recent book on Jerusalem and addressing the lecture audience; photos by Barbara A. Porter

*To be on the mailing list for our public lectures, please send a message to [acor@acorjordan.org](mailto: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 21<sup>st</sup> Century



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

## 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



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



Michael Makara



## Donations to ACOR (July–December 2012)

### *General Donations to the Annual Fund*

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### *In-Kind Donations*

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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 Abuhassan.

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