CURRICULUM VITAE

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1. ACADEMIC AND PROFESSIONAL TRAINING

- -ARCHITECT (M.Sc. equivalent: 6+1 years curriculum).

 Título de Arquitecto (Full professional proficiency) awarded on 15th February 1990.

 Final marks: Sobresaliente (Top marks). Madrid School of Architecture.

 (Escuela Técnica Superior de Arquitectura, Universidad Politécnica de Madrid).
- -CHARTERED ARCHITECT (Arquitecto colegiado) Colegio Oficial de Arquitectos de Madrid. Colegiado nº 9349 (since July 1990).
- -DIPLOMA. ARCHITECTURAL CONSERVATION COURSE (ICCROM. ARC-93) June 1993 International Centre for the Study and Conservation of Cultural Heritage ICCROM (Rome) January- June 1993 (Granted as Resident at the Spanish Academy at Rome, and a scholarship of the European Comission).
- -SPECIALIZATION COURSE ON BUILDING STRATIGRAPHY /ARCHAEOLOGY OF ARCHITECTURE (Stratigraphic Analysis) at Laboratorio di Archeologia della Architettura, Dipartamento di Archeologia e Storia dell'Arte, Università di Siena (with R. Parenti & R. Francovich) April-October 1995. (Funded by the pre-doctoral grant for specialization on Heritage Conservation. Spanish Ministry of Culture —competitive call 1994).
- -Ph.D. (DOCTOR ARQUITECTO). September 2004. Marks: SOBRESALIENTE CUM LAUDE POR UNANIMIDAD

Dissertation title: "Archaeology of Architecture and the Restoration Project (The Umayyad Palace of Amman as case study" ("La arqueología de la arquitectura y el proyecto de restauración (El caso del Palacio Omeya de Amman").

Escuela Técnica Superior de Arquitectura de la Universidad Politécnica de Madrid September 2004. Thesis Director: Dr. Roberto Parenti. The Dissertation was awarded:

- The DOCTOR EUROPEUS AWARD
- The EXTRAORDINARY PRIZE TO THE BEST PHD DISSERTATION ("PREMIO EXTRAORDINARIO A LA MEJOR TESIS DOCTORAL"). Academic year 2003-4 Universidad Politécnica de Madrid

Other courses of academic/professional training:

-Curso-Taller de Planificación y Enfoque del Marco Lógico para Responsables de Gestión de Centros Históricos. Heritage for Development Program. Ministerio de Asuntos Exteriores y Cooperación. Agencia Española de Cooperación Internacional al Desarrollo (AECID). Cartagena de Indias (Colombia), Marzo 2006.

2. PRIZES AND HONORIFIC MENTIONS

- COMENDADOR DE LA ORDEN DEL MERITO CIVIL. (Commendation of the Civil Merit Order). Decoration bestowed by HM the King of Spain in 2000, for the works carried out in Jordan from 1995 to 2000.
- AGA KHAN AWARD FOR ISLAMIC ARCHITECTURE AWARD NOMINATION.
 Nomination of the Excavation and Restoration Project of Qasr al-Hallabat in the 2013
 AKAA Cycle
- -Resident at the Spanish Academy of Roma January-March 1993

3. LANGUAGES

Full proficiency in Spanish, English and Italian (certificates from British Council & *Escuela Oficial de Idiomas*). Full understanding of written and spoken Freanch. Basic knowledge of Arabic and Basque.

4. LINES OF RESEARCH, AREAS OF SPECIALIZATION

- Early Islamic & Late Antique Archaeology, Art, & Architecture (with special focus in the Mediterranean and the Middle East). Visual and Material Culture & Technology. Special attention to interdisciplinary analysis of material culture and production systems and socio-cultural / political contexts.
- Roman Frontier Studies (focused on the *Limes Arabicus*). Pre-Islamic Arabian
 Archaeology in the Near East & the End of the Roman Empire in the Levant.
 Analysis of the Transitional Period from Late Antiquity to Early Islam
 (Jafnid/Ghassanid Phylarchy).
- Archaeology of Architecture. Archaeology of Landscape in the Levant. Use of stratigraphic methods in building archaeology (Micro-Stratigraphy of Architectural Revetments). Integrated study of buried and standing (built) deposits/contexts.
- Construction History. Characterization of Building Techniques and Materials.
 Interaction and Transfer of Knowledge in the Near East and the Mediterranean
 Basin from Late Antiquity to the Medieval Period, and its Historical Significance.
- Building Technology, Architectural Typology, Physical Transformation and Change of Use: Diachronic analysis of building technology, architectural typology and change of use.

- Cultural Heritage Conservation & Management. Architectural and Archaeological Conservation. Anastylosis. (Full Professional capacities as Chartered Architect). Urban and Landscape Preservation. Museology and Museography.
- Cultural Tourism as a Tool for Economic & Social Development. Community building & Identity issues. Public Archaeology.
- Interdisciplinary and holistic approaches for Cultural Heritage Resources
 Management: Research & Excavation, Preservation, Interpretation and
 Presentation to the Visitor. Virtual Reconstruction of structures as working tool
 in the research and intervention on Historic Monuments, and as a Didactic
 instrument in the interpretation and presentation to the public.

5. RESEARCH AND PROFESSIONAL ACTIVITY

5.1. POSITIONS / JOBS

- -CURRENTLY: Associate Professor, Master in Architectural Conservation. School of Architecture and Built Environment (SABE), German-Jordanian University.

 Program developed in collaboration with the Technischen Universität Berlin (TU Berlin) & the RWTH Aachen University (Lehr- und Forschungsgebiet Denkmalpflege und Historische Bauforschung / Department of Historic Building Conservation and Research) Amman. (from 2017 onwards).
- -Director del Laboratorio de Arqueología de la Arquitectura (Archaeology of Architecture Laboratory). Instituto Juan de Herrera, Escuela Técnica Superior de Arquitectura de Madrid (from 2004 onwards).
- -Project Director (IP): Guide App for the Umayyad Complex of Qasr al Hallabat (Phase 1). Funded by the Spanish Agency for International Cooperation and the Spanish Embassy in Amman.
- -Project Director (IP): Anastylosis of the Qastal al-Balqa Gate & Conservation Plan for the whole Umayyad complex. Barakat Fundation Grant. 2022-2023
- Project Director (IP): Development of a Site Maintenance and Tourism Development Plan (SMTDP) for the Petra World Heritage Site of Petra, within the framework of the UNESCO project entitled "Employment opportunities for cultural safeguarding in Jordan", financed by the Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) GmbH. 2019-2020
- Project Director (IP): Development of a Site Maintenance and Tourism Development Plan (SMTDP) for the village of Rihab and its mosaic floored churches, within the

framework of the UNESCO project entitled "Employment opportunities for cultural safeguarding in Jordan", financed by the *Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) GmbH.* **2019-2020**

- Project Director (IP): "Anastylosis of the Gate of the Umayyad bath-house of Hammam as-Sarrah". Funded by Gerda Henkel Stiftung. 2019-2021
 -Project Co-Director (IP, with Dr. Thomas Weber SABE-German-Jordanian University)
 "The Replica of the Emperor Anastasius Edict at Qasr Hallabat Project" (funded by Gerda Henkel Stiftung). 2012-2018
- -External Consultant as Specialist for Heritage Conservation, to the Rehabilitation Project of the Maqam Nabi Musa (Palestine) UNDP (funded by the European Union). 2017
- Project Director (IP): "Understanding and presenting Early Islamic Jericho". Project funded by Danish Institute in Damascus, Davids Samling (David Collection Copenhagen) & Barakat Trust. (from 2016-)
- Project Director (IP): "Understanding and preserving Early Islamic Jericho (Towards a Management Plan for the Umayyad Complex of Khirbet al-Mafjar)" Project nº 624428 ("JERICHO"). Researcher IEF Marie-Cure Grant (FP-7 PEOPLE Program) at the Carsten Niebuhr Institute for Multicultural Heritage. Department of Cross-Cultural and Regional Studies (CCRS/ToRS). University of Copenhagen (2014-2016). https://ccrs.ku.dk/research/postdoc_en/understanding-and-preserving-early-islamic-jericho/
- -Project Team Member (Specialist in Architectural Stratigraphy and Conservation),
 Jericho-Mafjar Project (Oriental Institute of Chicago & Palestinian Department of Antiquities). 2011-2014
- -Director of the Spanish Archaeological Mission (*Jefe de la Misión Arqueológica Española en Jordania* (1999-2014). Director of the Archaeological Missions at Amman Citadel, Qasr Hallabat complex, Hammam as-Sarrah, Umayyad Desert castles, Limes Arabicus (central stretch), etc. https://www.bu.edu/acor/univinst.htm. As IP has directed the excavation and restoration projects funded by the "Heritage for Development Program", of the Spanish Agency for International Cooperation (AECID) at Jordan (as Site Director between 1995-1999, and as IP and Scientific Director of the projects between 1999-2013). He has been also the Scientific Director (IP) of the Research Projects funded by the Program for Archaeological Projects abroad ("*Programa competitivo de Ayudas a Proyectos Arqueológicos en el Exterior*") in Jordan & Palestine (from 2004 onwards).
- Scientific Project Director (IP) "Heritage for Development" Program (Programa "Patrimonio para el Desarrollo" H>D) of the projects of the H>D Program in Jordan. Agencia Española de Cooperación Internacional para el Desarrollo (AECID). Site Director 1995-1999, and as IP/ Scientific Director (1999-2012).

- -Scientific Director-IP (2010-2013). Hammam as-Sarah Complex. Excavation, Restoration and Presentation to the Visitor Project
- Scientific Director-IP (2006-2010). Qasr al-Hallabat Mosque. Excavation, Restoration and Presentation to the Visitor Project
- Scientific Director-IP (2002-2006). Qasr al-Hallabat. Excavation, Restoration and Presentation to the Visitor Project.
- Scientific Director-IP (1999-2001) & Site Director (1995-1999) Umayyad Palatine Complex at Amman Citadel. This project included the intervention on the following monuments /areas:
 - Umayyad Palace Entrance building
 - Umayyad Palace Residential buildings
 - Umayyad Hammam
 - Hydraulic System
 - Umayyad Palace Throne Hall building /North Area
 - Soug Square
 - Congregational Mosque & Dar al Imam
 - Monastic complex and church
 - Residential areas (West and East street areas)
- Scientific Director-IP (2004-). Project "Analysis and Documentation of Building Techniques and Architectural Typology in the Transition from Late Antiquity to Umayyad Period" ("Análisis y documentación de Sistemas constructivos y tipología arquitectónica en la transición de la Tardo-Antigüedad al periodo Omeya"). This is actually a Project on several monuments and sites) continuously developed from 2004 and funded by the Spanish Ministry of Culture within the *Programa Competitivo de Ayudas a proyectos arqueológicos en el exterior* (IPCE, D.G. BB.AA. Min. Cultura). It has encompasses the excavation, documentation and analysis of several buildings and architectural complexes (see 5.4. in pg.6-7).

5.2. RESEARCH CONTRACTS AND RESEARCH STAYS ABROAD

- -Eksternt Tilknyttet (Forsker). Det Humanististiske Fakultet. Kobenhavns Universitet. External Associate Researcher Grant. University of Copenhage. Granted on 25 Abril 2018. Stay and research conducted in July-August 2018 (two months).
- Akademisk assistant. Det Humanististiske Fakultet. Kobenhavns Universitet. (Academic Assistant). University of Copenhage. Contract as researcher for the development of the "Heritage & Threat (HeAT)" Project. August-September 2016.

- -IEF Marie-Curie Grant (Postdoctoral Research Contract). Carsten Niebuhr Center for Multicultural Heritage. Department of Cross Cultural and Regional Studies (CCRS-ToRS) Faculty of Humanities. University of Copenhage 2014-2016 (two years).
- -Predoctoral Grant. Laboratorio di Archeología dell'Architettura. Dipartimento di Archeologia e Storia dell'Arte. Training and Research on Stratgraphic Analysis with special attention to micro-stratigraphy of renders and finishings). Developed on the Palazzo Corboli (Siena) in collaboration with the Sopraintendenza dei Beni Culturali e Architettonichi della Provincia di Siena e Grosseto & Università di Siena. Scholarship granted by the Instituto de Conservacion y Restauración de Bienes Culturales (ICRBC) Ministerio de Cultura. January-October 1995 (ten months).
- Predoctoral Grant. European Union Program "Acciones Integradas". Carried out at the Laboratorio di Archeología dell'Architettura. Dipartimento di Archeologia e Storia dell'Arte + Centro de Estudios Históricos CSIC. Acción Integrada Hispano-Italiana (HI-77): "Desarrollo del Análisis Estratigráfico de la Arquitectura". 1995-96 (Two months).
- -External Researcher (*Personal Research Project on Architectural Stratigraphy and Conservation of Built Heritage*) developed at the ICCROM Library and Documentation Center. Rome (Italy), 1994-5 (Two months).

5.3. INTERNATIONAL RESEARCH PROJECTS (AS IP / SCIENTIFIC DIRECTOR) WITH INTERNATIONAL FOUNDING SOURCES

- -2019-2020 **UNESCO (IP): "Development of a <u>Site Management and Tourism</u> Development Plan for the WHS of Petra,** within the UNESCO project entitled 'Employment opportunities for Cultural safeguarding in Jordan'" (financed by the *Deutsche Gesellschaft fuer Internationale Zusammenarbeit GmbH -*GIZ)
- -2019-2020 **UNESCO (IP): "Development of a <u>Site Management and Tourism</u> Development Plan for the village of Rihab,** within the UNESCO project entitled 'Employment opportunities for Cultural safeguarding in Jordan'" (financed by the *Deutsche Gesellschaft fuer Internationale Zusammenarbeit GmbH* -GIZ)
- 2019-2020 Gerda Henkel Stiftung (IP): "Anastylosis of the Gate of the Umayyad bath-house of Hammam as-Sarrah".
- -2018-19 Barakat Trust Grant. "Understanding and PRESENTING Early Islamic Jericho Architectural Reassessment and Virtual Reconstruction/Presentation to the Visitor of the Complex of Khirbat al-Mafjar" (IP). £5,000 ŞADAQA JĀRIYA GRANT.
- -2015-2018. Gerda Henkel Stiftung Grant. "Emperor Anastasius Edict Replica" Project (IP). Co-directed by Dr. Thomas Weber. 29.000 euros

- -2016-17. Det Danske Institut i Damaskus Legater /Danish Institute in Damascus Grant & Davids Sammling/Davids Collection of Islamic Art (CPH).

 Partial funding of the Recording and Documentation Project of the Mosaic Floors of the Audience Hall of the Umayyad Palace of Khirbat al-Mafjar (Jericó-Palestine), IP. 65.000 DKK
- -2014-2016 Marie-Curie IEF Grant EU. Research Project "Understanding and Preserving Early Islamic Jericho (The Umayyad Complex of Khirbet el-Mafjar)"FP-7 Project (IP). Carsten Niebuhr Institute for Multicultural Heritage. Department of Cross-Cultural and Regional Studies (ToRS). University of Copenhagen.
- -2012-2014. DAAD / German Ministry of Foreign Affairs Grant. "Hallabat Epigraphic Survey: Documentation and Study of the Anastasius Edict and other Inscriptions at Qasr al-Hallabat (Preparation for the Anastasius Edict Replica Project), IP. Co-directed with Dr. Thomas Weber (Jordan University / Mainz University).

5.4. INTERNATIONAL RESEARCH PROJECTS (AS IP / SCIENTIFIC DIRECTOR) WITH SPANISH GOVERNMENT FOUNDING SOURCES

(IP, Project Director: Dr. Ignacio Arce)

- -"Development of a Guide App for the Presentation and Touristic Development of the Site of Hallabat & Hammam as Sarrah" (2022-). Funded by the Spanish Agency for International Cooperation.
- -"Convocatoria abierta y competitiva de ayudas para proyectos arqueológicos en el exterior. Instituto del Patrimonio Cultural de España (IPCE) Ministerio de Cultura" (2004/2005/2006/2007/2008/2009/2010/2011/2013/2014/2015/2016/2017/2018/20 19).

Research Projects funded in 15 succesive calls for applications since 2004 (in 2012 & 2015 there were no calls due to budget restrictions); the resolutions are published in State Official Bulletin (Boletín Oficial del Estado –BOE):

"Documentación y análisis de técnicas constructivas y tipología arquitectónica en la transición de la tardo-antigüedad al periodo islámico" Projects

As part of this Project have been analyzed and documented (combined with excavations in many cases) the following buildings, structures and architectural complexes in Jordan and Palestine:

-Umayyad and Late Antique complex of Qasr Hallabat: Orto-photografic & photogrammetric documentation of the elevations, pavements, before, during and after restoration. Building techniques analysis and virtual reconstruction.

- **-Umayyad Mosque at Qasr al-Hallabat:** Orto-photografic & photogrammetric documentation of the elevations, pavements, before, during and after restoration. Building techniques analysis and virtual reconstruction (including extramural residential buildings of the complex).
- **-Umayyad bath-house and garden of Hammam as-Sarah**: Orto-photografic & photogrammetric documentation of the elevations, pavements, before, during and after restoration. Building techniques analysis and virtual reconstruction.
- -Qasr Kharraneh (Umayyad qasr). Building techniques analysis and virtual reconstruction. Orto-photografic & photogrammetric documentation & Analysis of the vaulting system.

-Qastal al Balqa (Umayyad Complex)

- Umayyad qasr. Documentation and Analysis. Building techniques analysis and virtual reconstruction. Orto-photografic & photogrammetric documentation & Analysis of the vaulting system.
- Mezquita. Documentation and Analysis of building techniques, and phasing.
- Quarries and water deposits: Documentation and Analysis of building techniques
- **Hammam:** Preliminary study on the preservation of the mosaic floors.
- -Shuqueyra el Gharbiyye (Late Antique & Umayyad complex) Documentation and Analysis of building techniques. Orto-photografic & photogrammetric documentation. Phasing of the complex.
 - Qasr. Documentation and Analysis of building techniques. Phasing.
 - **Annexed Umayyad structure**. Documentation of the Mosaics and functional analysis of the structure.
- -Qusayr Amra . Umayyad Complex (Hammam, and auxiliar structures). Excavation Documentation and analysis of the building and the mural paintings. Ortophotographic documentation with visible range, UV and thermo-graphic photography ción.
- -Deir el Kahf. Severan Roman Fort/ Tetrarchic Quadriburgium/ Ghassanid monastery/ Umayyad agricultural establishment. Excavation of the complex. Analysis and documentation of the physical transformation and change of use. Analysis of building techniques and materials.
- *-Qasr Bshir (Betthorus)*. **Tetrarchic Quadriburgium.** Analysis & Documentation. Analysis of building techniques and materials.
- **-Umm al-Jimal (Late-Antique and Umayyad town).** Documentation and analysis of the following structures of the complex (including stratigraphic and building analysis reconstruction of decorative patterns and infpgraphic reintegration of the following structures:
 - House III ("Oculus house")

- Pretorium
- Cathedral
- Houses XVII & XVIII
- North Basilica
- "Barracks" (fortified monastery)
- Housing complex A;
- Housing complex B (Houses V & VI);
- Severan Roman Fort transformed into a quadriburgium in Tetrarchic period.
- "Nabatean Temple"
- -Umm ar-Rassas (Kastron Mefa'a). Roman Fort transformed into a urban centre.
 - Stilite tower. Documentation and analysis
 - Monastic complex tower. Documentation and analysis.
 - Quarries. Documentation and Analysis.

-Abila of the Decapolis

- Martirial Cript
- Ninpheum
- -Project "Excavation and Restoration of the Umayyad Palatine Complex at the Amman Citadel" (IP/Scientific Director from 1999 until 2001; Director of the Works between 1995-1999). Project funded by the "Heritage for Development Program" (Spanish Agency for International Cooperation -AECID). The project encompassed the excavation and restoration of the following structures:
 - Umayyad Palace Entrance building
 - Umayyad Palace Residential buildings
 - Umayyad Hammam
 - Hydraulic System
 - Umayyad Palace Throne Hall building /North Area
 - Soug Square
 - Congregational Mosque & Dar al Imam
 - Monastic complex and church
 - Residential areas (West and East street areas)
- -Project "Excavation, Restoration and Presentation to the Visitor of the Complex of Qasr al-Hallabat (IP/ Scientific and Technical Director of the project 2002-2008).
- -Project "Excavation, Restoration and Presentation to the Visitor of the Umayyad Mosque at Hallabat" (IP/ Scientific and Technical Director of the project 2002-2010). Project developed in three phases: Anastylosis of the core of the mosque; anastylosis of the domed porch and the perimetral portico; Musealization and partial anastylosis of architectural elements at the outdoors display in the Site Museum / Visitors Centre.

- Project "Excavation, Restoration and Presentation to the Visitor of the Umayyad bath-house and garden of Hammam as-Sarrah" (IP/ Scientific and Technical Director of the project 2009-2013).
- -Co-Director del Proyecto: "The Hallabat Museum Electronic Catalogue project", in collaboration with the Center of Digital Archaeology of Berkley —CoDA (Michael Ashley Co-Director) 2014- ongoing
- **5.5.** PARTICIPATION IN NATIONAL /INTERNATIONAL RESEARCH PROJECTS (AS COLLABORATOR OR EXTERNAL CONSULTANT, NOT IP)
- -Contract as Academic assistant (research) associated to the project "HeAT': Heritage and Threat". Project funded in the framework of the Joint Programming Initiative on Cultural Heritage and Global Change (JPI CH)- under FP7 HERITAGE PLUS PROJECT (ERA-NET PLUS ACTION) http://ccrs.ku.dk/research/centres-and-projects/heat/ Project Leader University of Copenhagen, Denmark (August-September 2016).
- -Jerico Mafjar Project (JMP). Oriental Institute, University of Chicago & Palestinian Department of Antiquities. Excavation project of the complex. Team Member (Specialist on architectural stratigraphy and conservation). IP: Donald Whitcomb (Oriental Institute Chicago) & Hamdan Taha (Palestinian Dept. Of Antiquities) 2011, 2012, 2013 & 2014.
- -"UMAYYAD"Project. Improvement of Mediterranean Territorial Cohesion through the Setup of a Touristic-Cultural Itinerary. Junio 2014

Participation as member of the committee of experts "Project UMAYYAD", funded by the European Union within the program *Cross-Border Cooperation in the Mediterranean* (ENPI/CBCMED)

- -Restoration of Qusayr 'Amra complex. Istituto Superiore per la Conservazione ed il Restauro & World Monuments Fund.
 - 1. Col laboration on the Documentation (as IP of the analysis nd Documentation Project funded by the Spanish Ministry of Culture within the program "Ayudas competitivas a proyectos arqueológicos en el exterior").
 - 2. Contract with WMF: Survey to fix the boundaries and buffer zone of the World Heritage Site. Excavation of the structures found in the survey.

Participation in the Experts committee for the redaction of the Site Management Plan.

- -"Open and Fully Compatible Next Generation of Strengthening Systems for Rehabilitation of Mediterranean Built Heritage" (OPERHA) Project. Project funded by the European Commission within the Section INCO-2003-B2.1 Materials, artifacts, monuments and sites: new technologies and characterization Integrated Project Participation in the Project as collaborator. Workshop. Amman, 24-25 March 2008. Lecture and presentation of the case study "Qasr Al-Kharaneh".
- -1995. Acción integrada Hispano- Italiana 1995 número HI-77 A titled "Desarrollo del analisis estratigrafico de la arquitectura" (IP: Dr. Luis Caballero, CSIC & Dr. Roberto Parenti, University of Siena).

5.6. CONTRACTS WITH INTERNATIONAL & INTERGOVERNMENTAL ORGANIZATIONS IN THE AREA OF RESEARCH AND INTERVENTION ON CULTURAL HERITAGE (INTERNATIONAL PROJECTS)

- -Project Director (IP): Development of a Site Maintenance and Tourism Development Plan (SMTDP) for the World Heritage Site of Petra, within the framework of the UNESCO project entitled "Employment opportunities for cultural safeguarding in Jordan", financed by the Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) GmbH. Contract signed as Professor of the German-Jordanian University.
- -Project Director (IP): Development of a Site Maintenance and Tourism Development Plan (SMTDP) for the village of Rihab and its mosaic floored churches, within the framework of the UNESCO project entitled "Employment opportunities for cultural safeguarding in Jordan", financed by the Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) GmbH. Contract signed as Professor of the German-Jordanian University.
- -External Consultant, Specialist for Heritage Conservation to the Rehabilitation Project of the Maqam Nabi Musa (Palestine). Two contracts with UNDP. April-May 2017 & September-October 2017.
- -Project Proposal "Empowering local communities in the Zarqa Governorate (Jordan) through the management and preservation of the Qasr al Hallabt archaeological site" (Project Proposal for the Excavation and rehabilitation of the Agricultural enclosures at Qasr al-Hallabat and their reuse by local community). UNESCO National Resilience Program. Responsable for formulation of Project proposal. 2013-14

- -"Survey and Excavation of the World Heritage Site of Qusayr 'Amra". 2011. Contract with World Monuments Fund (WMF) & Istituto Superiore per la Conservazione ed il Restauro (ISCR), in collaboration with the Department of Antiquities of Jordan, to carry out the following components (as part of the responsibilities of the DoA towards UNESCO, as a result of the declaration of 'Amra as World Heritage Site):
 - Scientific Direction of the Survey of the site of Qusayr 'Amra, to locate structures and features not yet identified, to fix the boundaries of the WH Site and of the perimetral protection area ("Buffer Zone").
 - Scientific Direction of the Excavation of the structures identified in the survey (service building and auxiliary structures, including quarry fronts, slaking pits, etc.). Evaluation and documentation of the state of conservation of the structures identified.
 - Participation as member of the committe in charge of the redaction of the Management Plan of the site. The final document was published as: ARCE et al.(2014) Qusayr 'Amra Site Management Plan UNESCO-WMF
 - Inspection, documentation and monitoring of the state of conservation of the Hydraulic System (dams, dykes, saqiyyas and water deposits), of the quarries and the auxiliary structures (service and palatine ones) of the complex.
 - Inspection, documentation and monitoring of the state of conservation of the second saqiyya and the related area. This component included a separate report on the condition of the structure and a proposal of intervention / conservation of the structure.
- -Project "Proposal for Upgrading Umayyad Archaeological Sites in Jordan and Improving the Visitors Services". Research and proposal for UNESCO Regional office in Amman (within UNESCO Programme IV /MLA). Contract with UNESCO to conduct the related research and put forward the proposal within the final report. 2011.
- -Project EUROMED III "Al-Qantara Crossing between East and West". Project

 Member and Catalog Contributor. Funded by the European Comission. Coordinated by
 the Jordanian Department of Antiquities. Researcher participant by invitation of the
 DoA. 2009

- -Project "Amman Citadel Conservation and Site Management Plan". Project established by the Great Amman Municipality (GAM), the Ministry of the Tourism and Antiquities (MoTA), Department of Antiquities (DoA) and Siyaha project (funded by USAID). Member of the Scientific & Technical Committees (nominated by the General Director of the Department of Antiquities of Jordan) for the redaction of the Site Management Plan of the Amman Citadel. Responsible for Conservation issues and the design of the Museological project for the new site museum. Participation as scientific consultant and Member of the Scientific Committee. 2007-2009.
- -Project "UNIMED AUDIT. External Scientific Auditor of the EUROMED HERITAGE Program Projects". In collaboration with the European Commission- RELEX External Relations Directorate. Contract. 2003-4
- -Project "Preservation and Management of Archaeological sites in the Near and Middle East" / "SITES" Project (1998-2002). Preparation Committee Member & Evaluation Committee Member (Responsible for Lebanon and Jordan). Organized by International Centre for the Study and Conservation of Cultural Heritage (ICCROM), in collaboration with the International Council for Monuments and Sites (ICOMOS) & UNESCO World Heritage Centre.

Contract with ICCROM to prepare a Report on the Condition and Resources Available for the Conservation of the Architectural and Archaeological Heritage in Jordan and Lebanon (1997-8). Results published in: ARCE, I.; JAQUINTA, M.T.; JOKILEHTO, J.; LUXEN, J.L.(1999): SITES: Conservation and Management of Archaeological Sites: Problems and Perspectives (Lebanon, Syria And Jordan). Conservation Strategies in Near and Middle East. ICCROM.

Components and tasks carried out:

- Preparatory Meetings for Development of a Strategy. Rome, 28-29 November 1997.
- Preparation meetings: "La Conservation et gestion des sites archéologiques. Problematiques et Perspectives". Beyrouth (Lebanon), 21-24 November 1998.
- Seminaire d'Experts. "Les Sites: La Conservation et gestion des sites archéologiques. Problematiques et Perspectives" Amman (Jordanie), 17-19 March 1999.
- Elaboration of Assessment Reports on the Current Conditions and Needs in the Field of Preservation and Management of Archaeological Sites & Monuments in Lebanon & Jordan Working documents for the Project (1998-1999).
- -Evaluation and assessment Report for the Jordanian Department of Antiquities for the consolidation of the Stylite Tower at Umm ar-Rassas (Enero 2010).
- Evaluation and assessment Report for the Jordanian Department of Antiquities for the restoration of the Salt Museum (Abu-Jaber House; February 2010).

- Evaluation and assessment Report for the Jordanian Department of Antiquities for the restoration of the Hashemite Palace at Maan (May 2010).
- Evaluation and assessment Report for the Jordanian Department of Antiquities for the consolidation of the traditional houses at the slopes of Amman Citadel (1998).

5.7. PROFESSIONAL ACTIVITIES IN THE FIELD OF CONSERVATION OF ARCHITECTURAL HERITAGE IN SPAIN. INTERVENTION AND RESEARCH

Restoration Project of the *Casa-Palacio de los Sanchez-Tagle* (17th-18th centuries) Santillana del Mar (Cantabria) 1990-2. Project Director.

Project of Sacred Art Museum at the Roman walls in Leon ("Museo de Arte Sacro en las murallas romanas de León"). Colaboration with Alejandro de la Sota, 1990-2.

Project "Burgos Edificado". Documentation and catalogue of Vernacular Architecture in the Burgos province (Castille, Spain). Colaboration as assistant to Dr. Jose Luis García- Grinda (Project Director). 1984-5

Research Project on the polichromy decorative patterns of the **San Clemente Chapel at the Mosque of Cordoba**. Pre-doctoral reserch supervised by Dr. Gabriel Ruiz Cabrero, curator of the Mosque. 1991.

Research Project on the "altar y coro de legos del Monasterio de Santa María del Paular". Pre-doctoral reserch supervised by Dr. Pedro Navascués Palacios. 1990

5.8. SCHOLARSHIPS & GRANTS

- -Barakat Trust, Major Grant. Preserving and Presenting the Umayyad Complex of Qastal al-Balga. 2022-2023
- -Barakat Trust, Major Grant. Preserving and Presenting Early Islamic Jericho. 2017-18
- -Damaskus Danish Institute & The David Collection Grant, for conducting research at Khirbat al-Mafjar (Jericho). 2017

2014-16 -IEF Marie-Curie Scholarship "Understanding and preserving Early Islamic Jericho" Project nº 624428 ("JERICHO"). FP-7 PEOPLE Program. Department of Cross-Cultural and Regional Studies (CCRS/ToRS). University of Copenhagen (2014-2016).

-Predoctoral Grant "Beca Predoctoral para la formación e investigación en la Conservación del Patrimonio Cultural". Convocatoria competitiva. *Instituto de Conservación y Restauración de Bienes Culturales, Ministerio de Cultura* (Specialization on Archaeological Stratigraphy & Archaeology of Architecture). Laboratorio de Archeología della Architettura Università di Siena. 1994-95

- -1993 **Residente en la Academia Española de Roma** (Ministerio de Cultura / Ministerio de Asuntos Exteriores).
- -1993 European Union Grant. Asistencia al Architectural Conservation Course- ARC'93 ICCROM (Enero-Julio 1993).

5.9. MEMEBERSHIP OF SCIENTIFIC COMMITTEES OF INTERNATIONAL CONFERENCES /CONGRESSES

- -International Conference "Mafraq Cultural Heritage and its Environmental Surroundings" Scientific Committee Member. May 2023. Organized by Al Al-Bayt University & the Department of Antiquities of Jordan.
- IV International Hispano-American Congress on Construction History (2022). Scientific Committee Member. Organized by Sociedad Española de Historia de la Construcción & Instituto Juan de Herrera, Universidad Politécnica de Madrid.
- -XII Conference on the History and Archaeology of Jordan ("Transparent Borders"), organized by the Humbold University Berlin, the Freie University of Berlin, The German Arcaheological Institute –Oriental Section (DAI-DEI), Staaatliche Museen zu Berlin and the Department of Antiquities of Jordan. Berlin, May 5th-11th 2013.
- -7th World Archaeological Congress WAC-7. The Dead Sea (Jordan). January 14th-18th2013. http://worldarch.org/wac7/2015/07/12/wac-7-organisation/
- -XI Conference on the History and Archaeology of Jordan ("Changes and Challenges"), organized by the French Institute for the Archaeology of the Near East (IFAPO), Sorbonne University and the Department of Antiquities of Jordan. Paris, 6-14 June 2010.
- -VI International Conference on Science and Technology in Archaeology and Conservation, organized by ICCROM (International Centre for the Study and Conservation of Cultural Heritage), UNWTO (World Tourism Organization), Department of Antiquities of Jordan, WATCH (World Association for Protection of Cultural Heritage in Armed Conflict), El Legado Andalusí, Museo Nazionale d'Arte Orientale. Rome, 9-13 December 2008.

- -V International Conference on Science and Technology in Archaeology and Conservation, organized by ICCROM (International Centre for the Study and Conservation of Cultural Heritage), UNWTO (World Tourism Organization), Department of Antiquities of Jordan, WATCH (World Association for Protection of Cultural Heritage in Armed Conflict), El Legado Andalusí . Baeza (Spain), 7-10 July 2007.
- -X Conference on the History and Archaeology of Jordan, organized by the American Center for Oriental Research in Jordan (ACOR), The Washington University and the Department of Antiquities of Jordan. Washington, June 2007.
- -IV International Conference on Science and Technology in Archaeology and Conservation, organized by ICCROM (International Centre for the Study and Conservation of Cultural Heritage), UNWTO (World Tourism Organization), Department of Antiquities of Jordan, WATCH (World Association for Protection of Cultural Heritage in Armed Conflict), El Legado Andalusí. Amman & Zarqa, July 2005.
- -IX Conference on the History and Archaeology of Jordan, (Cultural Interaction through the Ages) organized by the Department of Antiquities of Jordan. Petra, May 2004.
- -VIII Conference on the History and Archaeology of Jordan (Archaeological Perspectives on Society, Culture and Identity), organized by the University of Sydney and the Department of Antiquities of Jordan. Sydney, July 2001.
- -Limes XVIII: 18th International Congress of Studies on the Roman Frontier. Organized by the Council for British Research in the Levant, the University of Liverpool and the Department of Antiquities. Amman, September 2000.
- -VII Conference on the History and Archaeology of Jordan (Jordan by Millennia). Organized by the University of Copenhagen and the Department of Antiquities of Jordan. Copenhagen, June 1998.

5.10. MEMEBERSHIP OF SCIENTIFIC COMMITTEES, ADVISORY BOARDS AND EXPERTS MEETINGS

- Revista de Historia de la Construcción. Editorial Committee Board Member.
- Jordan Heritage Consortium (2015-) Member of the Scientific Advisory Committee.

The *Jordan Heritage Consortium*, has been established as a Consulting Council for the proper preservation and management of the architectural and archaeological heritage of Jordan.

- -<u>Proyecto COREMANS: "Criterios, Métodos y técnicas para la conservación, restauración y mantenimiento de los bienes culturales".</u> Member of the Scientific Advisory Committee for the review of the Criteria on Architectural and Archaeological Conservation. 2012-14. Organized by Instituto del Patrimonio Cultural Español (IPCE), Ministerio de Educación, Cultura y Deporte.
- -Workshop "Updating the Strategy for Management of Archaeological Heritage in Jordan". Member of the Experts Committee (Participation by invitation of the General Director of the Jordanian Department of Antiquities). Amman 23-24 November 2013 / 2-6 April 2014.
- Participation in the Redaction of the Management Plan Documents of the World Heritage Site of Qusayr 'Amra (in collaboration with the Department of Antiquities of Jordan Istituto Superiore per la Conservazione ed il Restauro (ISCR) and World Monuments Fund (WMF). Prospection of the Site, Excavation of identified structures and setting of the boundaries and buffer zone of the W. H. Site. (Qusayr 'Amra World Heritage Site Boundaries and Buffer Zone delimitation Survey). Report on the Current Situation of the Second (Eastern) Saqiyya at Qusayr 'Amra, & Proposal of Intervention for its Preservation. By Dr. Ignacio Arce, Director Spanish Archaeological Mission to Jordan.
- -<u>"The strategy for Management of Jordan's Archaeological Heritage 2014 2018".</u>

 Member of the Scientific & Advisory Committee, Department of Antiquities of Jordan.

 Discussions and Launching of the Strategy (4th December 2014).
- "Limina / Limites. Archeologie, Storie Isole e Frontiere nel Mediterráneo (365-1556)". Member of the Scientific Committee of the Research Group and Editorial Board. In collaboration with Dr. Guido Vannini (Università degli Studi di Firenze), Dr. Enrico Zannini (Università degli Studi di Siena) & Dr. Denis Pringle (Cardiff Universiy). The Investigation Group includes a Colllection/Editorial Series with the same name Published by BAR (British Archaeological Report-International Series), Oxford. The

focus of the Research Group and the related Journal are the borders in the Mediterranean Area from Late Antiquity till 1556

-<u>Petra Risk Management Plan.</u> Scientific Committee Expert (2011-12). UNESCO Amman Regional Office, Leuven University (R. Lemaire Center), Petra National Trust & Department of Antiquities.

<u>-"Museum Theft Response Plan"</u>. Experts Meeting Participation (Amman 12-13 June 2011). Within the Framework Program: "Witness the Past: Education Programs for the Public and Cultural Heritage Professional son Illicit Trafficking of Antiquities", (funded by the "Education and Culture" Program of the European Commission the Department of Antiquities of Jordan, the Raethgen Research Laboratory /National Museum Berlin & UNESCO.

-Arqueología Aplicada al Estudio e Interpretación de Edificios Históricos. Encuentro de Expertos. Organized by the Spanish Ministry of Culture. Instituto del Patrimonio Cultural Español. Madrid 14-16 October 2009.

-<u>Amman Citadel Management Plan.</u> Scientific Committee Member. Organized by the Department of Antiquities & the Ministry of Tourism and Antiquities. June 2007-December 2008.

-TDMAP Workshop "Towards the Future of Museums in Jordan". Technical
Cooperation Project for Tourism Development through Museum Activities (TDMAP).

Member of the Panel of Experts. Organized by the Jordanian Ministry of Tourism and Antiquities, the Japan International Cooperation Agency (JICA) and the Japan Bank for International Cooperation. Amman, 29th November 2007.

-<u>Strategy Planning for Heritage Management in Jordan</u>. Member of the Panel of Experts. Retreat organized by the Department of Antiquities & the Ministry of Tourism and Antiquities. Dead Sea, 19-21 May 2006.

- -<u>Euromed Heritage Conference. Session on Management of Cultural Heritage</u>, Panel **Member**. Organized by European Union /Euromed. Rome 17-19 June 2004. Presentation: Two case studies of Archaeological Site Management in Jordan.
- -1st Jordanian National Heritage Week: The Protection of Archaeological Heritage.

 Discussion Panel Member. Organized by Jordanian Ministry of Tourism and Antiquities & Dept. of Antiquities. Amman, September 1998.
- -Evaluation Workshop on the Proposal for the Renovation of Ottoman Period Houses at Umm Qais (Ancient Gadara) as a Tourist Village. Member of the Panel of Experts. Organized by the Jordanian Department of Antiquities & the Ministry of Tourism and Antiquities. Amman, 22nd April 1999.
- <u>-Conservation of the Bottom of the Siq Area Project (Phase III)</u>. Review and **Evaluation Committee Member.** Petra National Trust, Department of Antiquities, Jordan. Petra June-September 1998.
- -Amman Ring Road Project Feasibility Study. Cultural Resources Impact Study (CRIS)
 Seminar. Member of the Panel of Experts. Organized by the Department of Antiquities and the Ministry of Public Works and Housing. Amman, May 1998.
- -Preservation of Archaeological sites in the Near and Middle East SITES Project (1998-2002). Scientific Committee Member. Organized by International Centre for the Study and Conservation of Cultural Heritage (ICCROM), International Council for Monuments and Sites (ICOMOS) & UNESCO World Heritage Centre. Preparatory Meetings held in Rome (November 1997), Beyrouth (November 1998), and Amman (March 1999). Assessment Reports on the Current Conditions and Needs in the field of Preservation and Management of Archaeological Sites & Monuments in Lebanon & Jordan (1998-1999). (See Above).
- -CIPA Outreach Workshop. Participant. Organized by International Committee for Architectural Photogrammetry (CIPA). Vienna July 1996.
- -<u>International Management Guidelines for Heritage Recording Documentation and</u>
 Information Management of Cultural Resources and World Heritage Sites. ICCROM &

UNESCO. Guidelines Review and Assessment Committee participant (Under the Direction of Dr. Robin Lettelier). 1994-1996.

- Investigador Miembro del Grupo de Trabajo CIE (Centro de Información de la Edificación) Departamento de Construcción y Tecnología Arquitectónicas ETS Arquitectura (UPM) 1994. Researcher.

-Commissioner of the Madrid School of Architecture for the Analysis of the Existing Programs on Preservation towards the Establishment of a postgraduate Course on Architectural Preservation and Heritage Management and the Establishment of Collaborative Agreements with ICCROM, AECID and IPCE (1992-95).

-Reunión de Expertos / Mesa Redonda sobre la Conservación del Patrimonio Histórico Ibérico y Latinoamericano (During the International Institute for Conservation Conference (IIC Conference). Instituto de Conservación y Restauración de Bienes Culturales. Ministerio de Cultura de España. Speaker by Invitation/ Ponente invitado. Madrid 8-9 Septiembre 1992.

-Miembro de la Comisión Asesora del Nuevo Plan de Estudios. Escuela Técnica Superior de Arquitectura de Madrid, Universidad Politécnica de Madrid (1988-90)

-Friends of Archaeology and Heritage (Jordanian NGO). Advisory Board Member.

6. EDUCATIONAL (TEACHING / TRAINING) ACTIVITY

6.1. UNIVERSITY TEACHING. POSTGRADUATE AND SPECIALIZATION / MASTER PROGRAMS

-Associate Professor. Master on Conservation of Built Heritage. School of Architecture and Built Environment. German-Jordanian University. Amman. Program funded by the German Government through the Academic exchange Program (DAAD). Addressed to Syrian architects and archaeologists displaced /refugees in Jordan for the future resconstruction of Syria. Program developed in collaboration with the Technischen Universität Berlin (TU Berlin) & RWTH Aachen University (Lehr- und Forschungsgebiet Denkmalpflege und Historische Bauforschung /Department of Historic Building Conservation and Research). 2017-actualidad.

SUBJECTS TAUGHT (+ Supervision of Final Master Thesis):

- Conservation Project (code AC 715) Master Program in Architectural Conservation
- Adaptive Re-Use Approaches (code AC744) Master Program in Architectural Conservation
- Heritage Documentation and Survey 1 (code AC 755) Master Program in Architectural Conservation
- Information Technology, Documentation Techniques, Analysis and Survey 2 (code AC758)
- Building Pathology and Conservation Technology (code AC756) Master
 Program in Architectural Conservation
- Remedial Conservation and Preventive approaches (code AC757) Master Program in Architectural Conservation
- History of the Built Environment in the Levant and the Fertile Crescent Master Program in Architectural Conservation
- Adaptive Reuse Project, Implementation and strategies (code AC716) Master Program in Architectural Conservation
- Special Topics in Architectural and Urban Conservation (AC 703, Archaeology of Architecture) Master Program in Architectural Conservation
- Theories and Concepts of Urbanism (code SP741) Master Program in Urban Planning
- Graduation Project I/ Architecture (code ARCH591) Undergraduate Program in Architecture
- Graduation Project II/ Architecture (code ARCH592) Undergraduate Program in Architecture
- Special Topics in Architecture II (code ARCH403; Architecture and Structure)
 Undergraduate Program in Architecture
- Understanding the Built Environment (code ARCH 140; Multi-sensorial Perception of the Built Environment) Undergraduate Program in Architecture

- Seminar on Archaeology of Architecture (no code) Master Program in Architectural Conservation
- -Lecturer by invitation. International Workshop: *The History and Archaeology of the Islamic and Crusader Periods: Some Reflections on Methods and Methodologies of Research. Institute for the Global History of Civilizations. Shanghai International Studies University,* June 2021. http://event.shisu.edu.cn/sisu/zh-hans/event/7644.html
- -Lecturer by Invitation. International Course of Specialist in Thermalism, Thermal Architecture and Spa. *University of Vigo (ES) & Polytechnic Institute of Bragança (POR)*, Sept 2021- June 2022. http://eafp.uvigo.gal/gl/study/E1052101/
- -Lecturer (Associate Professor). *University of Copenhagen. Faculty of Humanities.*Department of Cross-Cultural and Reginal Studies, 2014-2016
- -Lecturer by invitation (*Visiting Professor*). **Master Universitario en Construcción y Tecnología de Edificios Históricos (MUCTEH). ETS de Arquitectura (Universidad Politécnica de Madrid).** Cursos 2015-16; 2016-17; 2017-18 (Master Director: Jose Carlos Palacios Gonzalo)
- Lecturer "Proyectos Españoles de Excavación y Conservación en Egipto y Oriente Medio" Course. Escuela de Patrimonio de Nájera /Instituto del Patrimonio Cultural de España. May 2015
- -Key-Note Speaker **Seminar "El Patrimonio Arquitectónico en las relaciones entre España y Jordania"**. **Instituto Cervantes de Amman- Embajada de España** November 2014
- -Lecturer. Curso de Especialización en Arqueología de la Arquitectura. ETS de Arquitectura, Universidad Politécnica de Madrid (ETSAM-UPM). Academic years: 2001-2; 2002-3; 2003-4; 2004-5; 2005-6; 2006-7; 2007-8; 2008-9; 2009-10 (Director of the course: Dr. Fernando Vela Cossio). Subjects taught (Modulos Impartidos): Lectura de Paramentos y estudio arqueológico de los edificios históricos (Building Archeology).
- -Lecturer. Cursos de Especialización en "Construcción histórica" y "Proyectos", & curso Máster del Programa de Postgrado (interdepartamental) on Conservación y Restauración del Patrimonio Arquitetónico y Urbano. 1994-2010.
- Lecturer. *Máster en Restauración Arquitectónica (MRA)*. Departamento de Construcción y Tecnología Arquitectónicas de la ETSAM (UPM). 1997-2010
- -Lecturer. *Training Workshop: "3D and Virtual Reality (VR) in Archaeological Research"* Saxo Institute. Copenhaguen University. 22 Octubre 2015

- Lecturer by invitation. Umayyad Routes. ENPI EU Project. *Training Sessions*. Amman Jordan Museum & Department of Antiquities. Participation in the Seminars and Training sessions on the implementation and development of the Project. October 2015.
- Lecturer by invitation. *Training Course "Conservation Documentation and Management of Archaeological Sites. Challenges and New Approaches* (A NARNIA Project Training Course. NARNIA: *New Archaeological Research Network for Integrating Approaches to Ancient Material.* **EU-FP7 Project (April 2014)** http://www.eurocyinnovations.com/narnia-portal/wp-content/uploads/2014/03/HU_Final-Training-program1.pdf

Lecture: "Holistic Approaches in Site Management: Two decades of experiences in Jordan and Palestine"

- Lecturer by invitation. *Workshop "Archaeology and Tourism in Jordan: Present and Future"*. Faculty of Archaeology & Anthropology Yarmouk University. Jordan.

Lecture: "The Heritage for Development Program: Searching a balance between Conservation and Sustainable Enjoyment of Built Heritage"

- Lecturer by invitation. "Qusayr 'Amra, Training workshop. Corsi di aggiornamento per personale del DoA e Workshop Internazionale". Organized by the Istituto Superiore per la Conservazione ed il Restauro (ISCR-Roma) & World Monuments Fund (WMF), in collaboration with the Department of Antiquities of Jordan. 2-3 February 2011

Lectures: *The site survey of the World Heritage Site of Qusayr 'Amra* (2nd Feb.).

Training lectures on *Architectural Conservation & Building Stratigraphy* (3rd Feb.).

- Lecturer by invitation. "Encuentro de Expertos. Arqueología Aplicada al Estudio e Interpretación de Edificios Históricos". Organized by the Spanish Ministry of Culture. Instituto del Patrimonio Cultural Español. Madrid 14-16 October 2009.
- Lecturer by invitation. *Seminario "Jardines Históricos de España"* (Workshop on *Historic Gardens of Spain*). Organized by Instituto Cervantes in collaboration with the *Royal Society for Conservation of Nature of Jordan* (RSCN). Amman, 9 June 2009. (http://amman.cervantes.es/FichasCultura/Ficha53010 05 1.htm).

Lecture: "Early Islamic Gardens: The Newly Discovered Garden at Hammam as-Sarraj" ("Trazas de los primeros jardines omeyas en Jordania").

- Lecturer by invitation. *CURSO DE ESPECIALIZACION "Jornadas sobre Conservación de Yacimientos Arqueológicos: Un Enfoque Integral"*. *Encuentro de Expertos.* Organized by the Spanish Ministry of Culture & Fundación Lázaro Galdiano. Instituto del Patrimonio Cultural Español. Madrid 26-30 November 2007.
- Lecturer by invitation. Curso **El Arte de la Cantería, Teoría y Práctica** ("*The Art of Stone Masonry. Theory and Practice"*). Summer School. 9-20 July 2007. Organized by CEU-Universidad San Pablo.

(http://www.emagister.com/uploads courses/files project 1/11883-folleto arte piedra summer.pdf).

Lecture: "Stereotomy in the Levant. Merging East and West. The origins of the Stone Masonry in the Near East Antiquity".

- Lecturer by invitation. "Training Course on Rapid Assessment of Archaeological Sites and Historic Buildings and Iraq Cultural Heritage Sites, GIS & Database Compilation. Training Program for Staff of the Iraq State Board of Antiquities and Heritage" (Training course of the "Iraq Cultural Heritage Conservation Initiative" organized by Getty Conservation Institute (GCI), World Monuments Fund (WMF) with the support of UNESCO, and the collaboration of the Department of Antiquities of Jordan, English Heritage & US National Parks Service). Amman, November-December 2004.
- Lecturer by invitation. "Training Course for Launching the Arab version of the World Heritage Educational Resource Kit for Teachers: World Heritage in Young Hands".

 Organized by UNESCO. Amman, 18-20 May 2004
- Participant/Lecturer by invitation. *3rd Annual Workshop on Cultural Resources Management: "Presentation of Cultural Heritage Sites".* Organized by the Department of Conservation and Management of Cultural Resources. Faculty of Archaeology & Anthropology. Yarmouk University. 15th April 2004.

Lecture and training session on:

"The Virtual Reality as tool for presentation of Architectural and Archaeological Heritage: the case of the Amman Citadel".

- Participant/Lecturer by invitation. "Training Workshop on the Application of the World Heritage Convention and the Harmonization of Tentative Lists in the Arab Region". Organized by UNESCO. Amman. 5th May 2002.
- Lecturer by invitation. "Training Workshop on 'Conservation of Cultural Heritage in Jordan and the International Standards'". Organized by the Department of Conservation and Management of Cultural Resources. Institute of Archaeology and Anthropology. Yarmouk University. Irbid, Jordan 5th March 2002.

Lecture & "training session":

"The Conservation of the Umayyad Monuments at the Amman Citadel".

- Lecturer by invitation. "Training Workshop on Conservation and Management of Cultural Resources: "Reality and Ambition". Organized by the Department of Conservation and Management of Cultural Resources. Faculty of Archaeology & Anthropology. Yarmouk University. 20-21 February 2001.

Lecture:

"The Management Plan as key issue for Cultural Resources Preservation Policy".

- Lecturer by invitation. "Training Program for Archaeological Conservation: Cultural Heritage between Conservation and Development". Organized by UNESCO. Amman, 26-27 February 2000.
- Lecturer by invitation. *Italian Seminar on Restoration and Preservation Technologies*. Organized by Italian Trade Commission. Amman, 19th October 1999.
- Lecturer & Member of the Organizing Committee. "Workshop on Conservation of Heritage and Site Management" (CHSM), VII International Conference "Studies on the History and Archaeology of Jordan" (VII ICHAJ). University of Copenhagen, June 1998.
- Lecturer by invitation. 1er "Curso de Arqueología de la Arquitectura: El método arqueológico aplicado al proceso de estudio y de intervención en edificios históricos". Junta de Castilla y León & Fondo Social Europeo, 25-28 March 1996.

-Visiting Lecturer at:

Universidad Politécnica de Madrid; Università degli Studi di Siena; Universidad del País Vasco; Universidad San Pablo/CEU; Jordan University; Yarmouk University; Jordan University for Science and Technology; Hashemite University.

6.2. ORGANIZATION AND MANAGEMENT OF POSTGRADUATE PROGRAMS

- -Associate Professor and Member of the Academic Committee. *Master on Architectural Conservation*, School of Architecture and Built Environment; German-Jordanian University /DAAD Program of Academic Interchange of the German Government (DAAD). Master Program on Architectural Conservation SABE GJU (2017-today).
- -Responsible for the Establishment of the Postgraduate Program (Curso Máster & Cursos de especialización) on Conservación & Restauración del Patrimonio

Arquitectónico y Urbano. Escuela Técnica Superior de Arquitectura de Madrid (Universidad Politécnica de Madrid). 1990-1993

- -Secretary /Coordinator (1992-4) & Lecturer (1993-2014) Programa de Postgrado on Conservación & Restauración del Patrimonio Arquitectónico y Urbano
- -Commissioner/Representative of Dirección de la Escuela Técnica Superior de Arquitectura de Madrid para la elaboración del Informe sobre Formación de Postgrado en Conservación del patrimonio Construido, para el establecimiento de un programa de Conservación arquitectónica en la ETSAM-UPM (1990-3)
- -Member of the Advisory committee for the establishment of the new Curriculum and Syllabus (*Nuevo Plan de Estudios de Arquitectura*). *Escuela Técnica Superior de Arquitectura de Madrid*, *Universidad Politécnica de Madrid* (1988-90)
- Responsible for the establishment of Collaborative Agreements between Universidad Politécnica de Madrid (ETSAM-UPM), Universidad Complutense de Madrid (UCM), the International Centre for the Study and Conservation of Cultural Heritage (ICCROM), the Spanish Agency for International Cooperation (AECI) and the Instituto Español del Patrimonio Cultural Español (IPCE), to establish a Postgraduate Program on *Conservación de Patrimonio Arquitectónico* (1993-1995).
- Responsible for the establishment of Collaborative Agreements between Universidad Politécnica de Madrid (ETSAM-UPM), the Heritage Preservation Program of the University of Pennsylvania, and the University of Siena, for the interchange of academic staff of their respective Programs on Heritage Preservation (1993).

6.3. SUPERVISION OF FINAL MASTER THESES

(Master in Architectural Conservation –DAAD PROGRAM. School of Architecture and Built Environment, German-Jordanian University). TFM Supervised Master Theses:

- -Wafa'a Tawfiq Tawalbeh (ID: 20208628003). Master Thesis: "Graphic Documentation as an Information Source to conduct Structural and Typological Analysis of Historical Buildings: A Case study from Jordan."
- -Anas Hizzani (ID: 20208628004). Master Thesis: "Interactive Learning: The Use of Video Games as a Supporting Tool to Perceive and Promote Public Awareness of Cultural Heritage".
- Ahmad Aldandan (ID: 20178628015). Master Thesis: "The Nabatean cemetery of Bosra-Ash Sham. Interpretation and Conservation of the ancient provincial Arabian capital in post-war Syria"

- -Haneen Fouad Bersa (ID: 20178628010). Master Thesis: "The retrieval, conservation and presentation of geometric and polychrome decoration from Umayyad qusur in Jordan and Palestine" May 2021
- -Zaid Isam Al –Kawaz (ID:20168628013). Master Thesis: "Historical and Architectural Analysis of the Hejaz Railway Secondary Stations in the Jordanian Desert"
- Muhsen al-Bawab (ID: 20168628001), Master Thesis: "Architectural conservation in the Age of Digital reproduction".
- -Ayman Jamal Abu Hamdiyah (ID: 20168628005), Master Thesis: "Risk Management and Crisis Preparedness Plans for Cultural Heritage Sites in Jordan".
- -Hala Husam Mahmoud Abu Hamdah (ID: 20168628007). Master Thesis: "Conservation, Presentation and Musealization of Archaeological Sites: The church of Virgin Mary (Madaba) as a case study".
- -Jamal Aldin Riad Alyan (ID: 20178628013). Master Thesis: "Al Qastal al-Balqa: Structure and Decoration of Umayyad Qasr: Analysis for its Restitution /Reintegration and Presentation"
- -Mohammad Ahmad Saleem Hayajneh (ID: 20168628003). Master Thesis: "A Draft for a Management Plan for the complex of Qasr Al Hallabat".
- -Zaid Isam Al –Kawaz (ID:20168628013). Master Thesis proposal: "Astrabadi Souk Al-Kadhimiya, (Baghdad). Documentation & Conservation Management Plan".
- -Enas Hakam Qasem Qasem (ID: 20168628016). Master Thesis: "Protective Shelters for mosaic pavements: Preventure Conservation and Interpretation strategy –The Prophet Elias Church Mosaic as a case study".

OTHER TRAINING WORKSHOPS

- "Fair on Higher Education in the European Union. Presentation of the Higher Studies on Architecture, Heritage Preservation and Archaeology in Spanish Universities.

Workshop and Presentation Lectures". Organized by European Commission Delegation in Amman. University of Jordan. Amman, 24-26 October 1999.

7. MUSEOLOGY & MUSEOGRAPHY

7.1. Museology & Museography Projects

- -"Emperor Anastasius Edict Replica, Musealization at the Jordan Museum and the Site Museum at Qasr al-Hallabat". In collaboration with the Department of Antiquities of Jordan & Jordan Museum. Funded by Gerda Henkel Stiftung. 2014-2018
- -"Hallabat Site Museum and Visitors' Centre. Museologic and Museographic Project". Scientific Director (IP) & Curator. 2008 -2014.

This Project includes these other components:

- Lapidarium for the presentation of the original inscribed basalt blocks with the fragments of the Emperor Anastasius edict.
- Design of the museologic and museographic Project including the design of showcases, stands, etc; including a training program for local guides and for primary and secondary school teachers.
- Partial anastylosis and display design of architectural elements from the
 Umayyad mosque which were nor rebuilt in the anastylosis of the mosque.
- Electronic catalogue of the displayed artifacts and those preserved at the Site
 Museum Storage. This component is being developed in collaboration with the
 Center for Digital Archaeology (CoDA) of Berkley (California). It has been
 devised not only as a management tool of the museum collections, but also as
 an alternative way of presentation to the vistor of the collection in context.
- Virtual reconstruction with 3D computer generated images for the presentation of the site to the visitor. The project includes, experimental execises of Augmented Reallity as part of the didactic & presentation strategy.
- -"Amman Citadel Museum and Visitors' Centre. Museologic and Museographic Project". 2000-2002.
- -"Obras Maestras de la Arquitectura Española Contemporánea". Instituto Cervantes & Embajada de España. Curator of the exhibition & Lecturer at the Cervantes Institute and the School of Architecture of the Jordan University October-November 1998.

7.2. Curatorship / Collaboration in Exhibition design & catalogue edition

- Exhibition "Italian Restoration Projects" Istituto Superiore per la Conservazione ed il restauro (ISCR) Jordan Museum Amman 2014. Curator of the exhibition.

- -Exhibition "Byzantium and Islam: Age of Transition, 7th-9th Century". Metropolitan Museum NY. Colaboration in the selaction of the Umayyad artifacts for the exhibition from the Jordanian Museums.
- -Exhibition "Da Petra a Shawbak, Archeologia di una Frontiera" Mostra nei Giardini di Boboli, Palazzo Pitti. Firenze April-September 2009. Consulente Scientifico e coredactor del catalogo (Scientific Advisor and Exhibition's catalogue contributor).
- -Exhibition "La Aventura Española en Oriente (1166-2006). Viajeros, museos y estudiosos en la historia del redescubrimiento del Oriente Próximo". Exhibition organized by Ministerio de Cultura (Dirección General de Bellas Artes). Museo Arqueológico Nacional. Madrid, April-June 2006. Participant in the Exposición and contributor to the Catalogue: "De la Ciudadela de Amman a Qasr Hallabat (1995-2006): Once años de investigación e intervenciones en el patrimonio omeya de Jordania".
- -Exhibition "Meetings with the Past: Treasures for the Future. An Exhibition on European-Jordanian Cooperation in the Field of Archaeology". Scientific Consultant and Member of the Organizing Committee. Exhibition organized by the European Union & Abdul Hameed Shoman Foundation in collaboration with the European Archaeological Missions. Darat al Funun. Amman, 17 May- 17July 2005.

8. PARTICIPATION/ ATTENDANCE TO INTERNATIONAL CONFERENCES AS LECTURER / SPEAKER

-12th International Conference on the Archaeology of the Ancient Near East.

9ICAANE. Organized by the Alma Mater University of Bolognia (online). Bolonia 6-9

April 2021

Paper delivered:

- 1. "Two new Umayyad Mosques in Jordan".
- **-24**th International Congress on Roman Frontier Studies (LIMES XXIV). Organized by the Institute of Archaeology, Serbian Academy of Science and Arts. Belgrade 1-9 September 2018.

Lecture delivered:

"A Tetrarchic Roman fort under the Umayyad palace of Khirbat al-Mafjar (Jericho)? An hypothesis on the location of the missing Roman forts at Jericho (Palestina) and the sequence of transformation and reuse of the site".

-11th International Conference on the Archaeology of the Ancient Near East.

9ICAANE. Organized by the Ludwig-Maximilian-universität Munich 3-7 April 2018
30

Lectures delivered:

- 2. "The Phasing of the Magam en-Nabi-Musa (Palestine)".
- 3. "The Audience Hall of the Umayyad Palace of Khirbet al-Mafjar (Jericho, Palestine), revisited".
- *II International Simposium on Thermal Architecture and Life Quality.* Organizado por Universidad de Vigo (Campus del Agua Orense). *Key Note Speaker*. September 2017.

Key Note Lecture delivered:

"Los baños colectivos en Oriente Próximo, desde la Antigüedad hasta el periodo Omeya" https://tv.uvigo.es/matterhorn/35146

-Seminar "Ancient Terracing Practices in Jordan". Organized by the Deutsches Archäologisches Institut (DAI) in collaboration with the Departament of Antiquities. German-Jordanian University. 10 Septiembre 2017. Participation as Lecturer.

Paper presented:

"The agricultural infrastructures at Hallabat".

-International Conference "Islamic Art History and Archaeology in Crisis? Challenges and New Perspectives". Lecturer by Invitation.

Organized by Deutsches Archäologisches Institut, Universidad Autonoma de Madrid, Universität Zurich, Museo Arqueológico Nacional. Madrid 12-14 January 2017

Paper presented:

"Two Decades of intervention and documentation of Islamic Heritage in the Near east. Assessment and perspectives".

-10th International Conference on the Archaeology of the Ancient Near East. 9ICAANE. Organized by the Institute for Oriental and European Archaeology, University of Vienna. 25-29 April 2016

Paper presented:

"Al Qastal Revisited: Vaults and Domes and their significance in the interpretation of the building".

-International Conference. American Society of Oriental Research 2015 (ASOR Annual Meeting). Organized by American School for Oriental Research (ASOR), Atlanta USA, 18-21 November 2015. Workshop on Khirbet el-Mafjar co-ordinated by Dr. Donald Whitcomb (Oriental Institute Chicago).

Paper presented:

"Khirbet el-Mafjar revisited, Reassessment of the Historical sequence of Construction of the complex"

-International Conference, "Archaeology, Conservation and Tourism in Northern Jordan" from the Series "Protecting the Past" International conference and workshop series to discuss and address threats to cultural heritage. Organized by Oxford University (EAMENA Initiative) and the Department of Antiquities of Jordan

Papers presented:

- -1. "Heritage for Development: The experience of Qasr al-Hallabat project",
- -2. "Documentation as monitoring and management tool: A decade recording architectural heritage in Jordan"

-Limes XXIII *International Conference of Studies on the Roman Frontiers.* Ingolstadt (Germany) 13-21 October 2015. *Organized by the Deutsches Limes Commission*.

Papers presented:

- 1."The Edict of Emperor Anastasius I from Qasr al-Hallabat: The Text and its Architectural and Historical Contexts". Dr. I. Arce, con Dr. Denis Feissel (Ecole Pratique des Hautes Studies. CNRS, Paris) & Dr. Thomas Weber (Mainz University /DAAD). In Session #17: Recent research and excavations on the frontiers, coordinated by Dr. Peter Henrich & Dr. Suzana Matešić.
- 2. "Severan Castra, Tetrarchic Quadriburgia, Ghassanid Diyarat: Patterns of Transformation of Limes Arabicus Forts during Late Antiquity". In session #9: An imperial policy of 'Defence in Depth': a reality or a mirage? Coordinated by Dr. Markus Gschwind & Dr. Andrew Poulter.
- -International Conference "Digging Up Jericho". Organized by the Council for British Research in the Levant (CBRL) and the University College of London (UCL). London 29-30 June 2015. Lecturer by invitation.

Paper presented:

"The New Umayyad Mosque identified at Khirbet el-Mafjar (Jericho)"

- International Archaeological Symposium. "Two Decades of Archaeological Work at the Oasis of Jericho: Prospects for Future Research, Site Management, Protection and Conservation" Organized by the Palestinian Department of Antiquities. Russian Museum, Jericho 26 – 28 October 2014.

Lecturer by invitation. Paper presented:

"The New Umayyad Structures identified at Qasr Hisham: Contribution of Architectural Stratigraphy to the Understanding and Preservation of Khirbet el-Mafjar"

-9th International Conference on the Archaeology of the Ancient Near East. 9ICAANE.
Organized by the University of Basel. 9-13 June 2014

Paper presented:

"Qasr Kharraneh Revisited: Vaults and Domes and their significance in the interpretation of the building".

- International Conference *Byzantine and Medieval Islamic Baths and their Use 600-1200AD*. Organized by the Deutsches Archäologisches Institut (DAI), Rom;

Universität Freiburg, Institut für Archäologische Wissenschaften (IAW) Byzantinische Archäologie in cooperation with Museo Nazionale Romano alle Terme di Diocleziano Rome, 5 - 6 June, 2014 Museo Nazionale Romano alle Terme di Diocleziano.

Lecturer by invitation. Paper presented:

-"The Representative and Social Value of Umayyad Bath Houses: Antecedents and Cases-Study"

-Workshop: "Together Ahead in Safeguarding Jordan's Cultural Heritage"

Key-note speaker. Workshop aimed to discuss with the foreign Archaeological Missions to jordano n the future of the Conservation of Cultural Heritage. With the participation of HRH Prince Hassan bin Talal, HE the Minister of Tourism and Antiquities and HE the General director of the Department of Antiquities. School of Mosaic Restoration at Madaba. 2 nd June 2014.

Dr. Arce delivered the Key Note Lecture on

"Best Practices in Research, Conservation and Presentation of Cultural Heritage"

-International Conference "Preserving the Past, Constructing the Future: Cultural Heritage and Social Development in the Arab World. Organized by DAAD (German Academic Exchange), and the German Archaeological Institute (Oriental Section). Jordan Museum, Amman 12-13 May 2014

Lecturer by Invitation:

• Musealization of Early Islamic Archaeological and Architectural Heritage

Lecturer at the Discussion Panel n. 4 devoted to:

"Conservation of Historic Town Quarters and Sites",

Participant in the panels: I. Cultural heritage as Academic discipline; II: Archaeology and Local Stakeholders; III: Archaeology and Tourism; V: Archaeology and Politics.

-International Colloquium "The Umayyad Quṣūr – New Perspectives". Organized by the Khalili Research Centre, Oxford University Oxford Centre for Byzantine Research, & the Oxford Centre for Late Antiquity Oxford 25-26 October 2013 http://www.ocbr.ox.ac.uk/News_files/Ummayad%20Qusur%20poster.pdf

Participants: Robert Hillenbrand (University of Edinburgh); Hugh Kennedy (SOAS); Denis Genequand (University of Geneva); Mahmoud Hawari (Khalili Research Centre, Oxford); Ignacio Arce (Spanish Archaeological Mission to Jordan, Amman); Nadia Ali (Empires of Faith Project, British Museum, and Wolfson College, Oxford); Jeremy Johns (Khalili Research Centre); Luke Treadwell (Khalili Research Centre).

Lecturer by invitation:

- 1. Roman Forts, Ghassanid Monasteries, Umayyad Palaces; Antecedents, Transformations and Changes of Use
- 2. The New Dionysian Cycle of mural paintings discovered at Qusayr 'Amra
- International Congress "Archeologia, Bioarcheologia e Beni Culturali: Rapporto Tra Ricerca E Sviluppo Del Territorio" (Archaeology, Bioarchaeology And Cultural Heritage: Relation Between Research And Local Development). Organized by the University of Sassari, Stintino (Sardegna Italy) 13-14 September 2013

Lecturer by invitation. Paper presented:

"Heritage for Development": Cultural Heritage and Socio-Economic Development of Local Communities in Jordan.

-International Seminar "Recent Advances in Islamic Archaeology" (RAIA). A seminar on the archaeology of Levantine society in the Islamic periods. Held under the auspices of the W.F. Albright Institute for Archaeological Research at the École Biblique et Archaeologique in Jerusalem on the 7th and 8th of February 2013. http://miri.ku.dk/newsarchive/raia2013/

Lecturer by invitation. Papers presented:

- Khirbet el-Mafjar: A new archaeology for an old monument: The review of the Sequence of construction of the buildings of the Umayyad Complex under the perspective of the built Stratigraphy. Jericho-Mafjar Project: Archaeology and Conservation of a Palestinian Monument (with Donald Whitcomb).
- Qusayr 'Amra and the Archaeology of Construction: The Discovery of the Quarries and the Auxiliar Buildings of the Umayyad Complex: An Approach to the Archaeology of production processes in Umayyad Period".
- -XII Conference on the History and Archaeology of Jordan ("Transparent Borders"), organized by the Humbold University Berlin, the Freie University of Berlin, The German Arcaheological Institute –Oriental Section (DAI-DEI), the Staaatliche Museen zu Berlin, and the Department of Antiquities of Jordan. Berlin, May 5th-11th 2013.

Lecturer by invitation. Papers presented:

- 1.- "The Anastasius Edict from Qasr al-Hallabat: The reviewed text and its architectural and historical contexts. Interpretation and Significance".
- 2.- "The Umayyad Bath-House of Hammam as-Sarrah. Restoration and Reassessment".
- 3.- "The Site Museum of Qasr Hallabat Complex, and the social value of Heritage".
- -7th World Archaeological Congress WAC-7. The Dead Sea (Jordan). January 14th-18th2013. (Member of International Scientific Committee).
- -4th Convegno Internazionale "Arquelogia de la Construccion IV 4AC –Las canteras en el mundo antiguo: sistemas de explotación y procesos productivos". organized by Dipartimento dei Beni Culturali Università degli Studi di Padova, CSIC Merida (España) & 'Ecole Normale Superieur Paris. Padova 22-24 November 2012.

Paper presented:

"Late Antique and Ummayad Quarries from the Near East. A model of optimization of resources".

-International Congress: "Virtual Palaces I. Digitizing and Modelling Palaces". European Science Foundation Research Networking Programme PALATIUM Meeting at Leuven, 18-19 November 2011. Lecturer by invitation.

Paper presented:

"Late Antique and Umayyad Palaces restored"

-XI International Conference on the History and Archaeology of Jordan ("Changes and Challenges"). Organized by the French Institute of the Near East (IFPO), the University Paris-1, Panthéon-Sorbonne, and the Department of Antiquities. Paris, the National Institute of the History of Art, 6-12 June 2010.

Lecturer by invitation. Papers presented:

- "The Umayyad Mosque at Qasr Hallabat: Analysis, Interpretation and Anastylosis".
- "Qastal Revisited: Some remarks on the architecture of the site".
- -7thICAANE (International Congress on the Archaeology of the Ancient Near East).
 Organized by the British Museum & the University of Central London -UCL. London, 11-17April 2010.

Paper presented:

"Aestheticising Politics, Politicising Aesthetics: Colour and Light in Architecture at Qasr al-Hallabat (Jordan) from Late Antiquity to Umayyad Periods".

-International Workshops "Science and Conservation for Archaeology and Cultural Heritage in the Eastern Mediterranean Region (SATCHEM)" & "2nd Regional Workshop on Infrastructures in Natural and Material Sciences In Archaeology" Organized by the Cyprus Institute (STARC centre), the Centre de Recherche et de Restauration des Museés de France (CNRS-LC2RMF) & CulTech for Archaeology and Conservation (CulTech), with the support of the European Union. Amman 8-9 November 2009.

http://www.starc.cyi.ac.cy/system/files/Science%20and%20Conservation%20in%20Arc haeology%20and%20Cultural%20Heritage%20in%20the%20Eastern%20Mediterranean %20Region programme.pdf

Lecturer by Invitation. Lecture:

"Applied Research Work at the Spanish Archaeological Mission.

Documentation, Research, Intervention and Presentation to the Visitor of the Jordanian Archaeological Heritage".

-Limes XXI (International Conference on Roman Frontiers Studies). Organized by the University of Newcastle upon Tyne and the British Archaeological Institute. Newcastle upon Tyne, 16-26 August 2009.

Paper presented:

"From an Anomaly in a Standard Plan to a Standard Transformation Pattern: The Transformation of the Roman Fort of Deir el-Kahf (Jordan)", (presented within the session: "Frontiers of the Eastern Roman Empire").

-V Jornadas sobre Turismo Cultural y Cooperación al Desarrollo. Organized by Institut Europeu della Mediterranea, Universitat de Barcelona & Diputació de Barcelona. Lecturer by invitation & Round Table participant (Valorar la Cultura y el patrimonio mediante el Turismo. Jordania Syria y Líbano). Vilanova i la Geltrú (Barcelon) 19-20 Febrero 2009. Paper presented:

"Heritage Preservation and Cultural Tourism as a tool for Development: The AECID's Heritage for Development Program in Jordan".

-6th International Conference on Science and Technology in Archaeology and Conservation. Lecturer by invitation. Museo Nazionale d'Arte Orientale. Roma 9-13 December 2008.

Paper presented:

"Analysis and Documentation Project on Building Techniques and Architectural Typologies in the Transitional Period between Late-Antique and Early Islamic Period in Jordan. Results of the first campaigns.

-6th ICAANE (International Congress on the Archaeology of the Ancient Near East) organized by Università della Sapienza. Islamic Session "Towns and Country: The Contribution of the Archaeological Research". Rome, 5-10 May 2008.

Paper presented:

"Kastra, Coenobia, Qusur: The Shifting into Monastic & Palatine Complexes of Late Antique Military Structures In The Levant".

-'Archeologia della Costruzione II: I cantieri edili dell'Italia e delle provincie Romane orientali'. International Workshop. Organized by Università di Siena, Ècole Normale Supérieure du Paris & Consejo Superior de Investigaciones Científicas (CSIC). Certosa di Pontignano, Siena, 13-15 November 2008.

Paper presented:

"Qasr Hallabat, Qasr Bshir & Deir El Kahf. Building Techniques, Architectural Typology and Change of Use of Three Quadriburgii from the Limes Arabicus. Interpretation and Significance"

-"La Trasgiordania nei secoli XII-XIII e le 'frontiere' del Mediterraneo Medievale", International Conference, Organized by Università degli Studi di Firenze.

Lecturer by invitation & Participant in the Final Round Table. Florence, 6-9 November 2008. Paper presented:

"Romans, Sarracens, Ghassanids and Umayyads: Transformation of the Limes Arabicus from the 4^{th} throughout the 8^{th} C. AD".

http://www.frontierarchaeology.eu/mostra/index.php?option=com_content&v_iew=article&id=5&Itemid=9&lang=it

-International Colloquium 'Balnéorient': "Baths and Hammams of Transjordan".

Organized by the Institut Française du Proche-Orient (IFPO). Amman, 21-24 May 2008.

Lecturer by invitation. Paper presented:

- -"Umayyad baths at Amman Citadel and Qasr Hallabat (Hammam As-Sarrah complex)".
- -"V International Conference on Science and Technology in Archaeology and Conservation". Organized by ICCROM (International Centre for the Study and Conservation of Cultural Heritage), UNWTO (World Tourism Organization), Department of Antiquities of Jordan, WATCH (World Association for Protection of Cultural Heritage in Armed Conflict), El Legado Andalusí . Baeza (Spain), 7-10 July 2007.

Paper presented:

"Anastylosis of two Umayyad Mosques: Amman Citadel and Qasr Hallabat".

- X International Conference on the History and Archaeology of Jordan ("Crossing Jordan"). Organized by the American Center for Oriental Research, The George Washington University and the Department of Antiquities. Washington, 23-28 May 2007.

Lecturer by invitation. Paper presented:

"Coenobium, Palatium & Hira: The Ghassanid Complex at Qasr Hallabat".

- International Congress "Al Andalus como Proyecto". Organized by Cervantes Institute in collaboration with Spanish Ministry of Culture & Amman Municipality. Amman, 27-29 November 2006.

Lecturer by invitation. Paper presented:

"La cultura Islámica como vehículo de transmisión de la cultura tardo-antigua: El caso de la arquitectura y la ciudad".

-International Conference on Late Antique and Early Islamic Archaeology:

Transformation Processes from Late Antiquity to Early Islam in Bilad al-Sham:

"Residences, Castles, Settlements: Transformation Processes from Late Antiquity to
Early Islam in Bilad al-Sham". Organized by the Deutsches Archäologisches Institut
Damaskus & Direction Générale des Antiquités et des Musées de la Syrie. Damascus,

Lecturer by invitation. Papers presented:

5-9 November 2006.

- 1. "Amman Citadel from Qasr to Palatine Medina"
- 2. "Qasr Hallabat (Jordan): Roman Castellum; Ghassanid Palatium & Coenobium; Umayyad Qasr"
- -Limes XX. (XX Congreso Internacional de Estudios sobre la Frontera Romana).
 Organized by Universidad de León, Área de Arqueología. León (España), 4-11
 September 2006.

Paper Presented:

"Qasr Hallabat: From Roman Castellum to Ghassanid Palatium".

-5th ICAANE (International Congress on the Archaeology of the Ancient Near East) organized by Universidad Autónoma de Madrid. Madrid, 3-8 April 2006.

Paper pesented:

"Qasr Hallabat. The Discovery of a Monastic Complex in a Former Roman Fort".

-Second International Congress on Construction History. Organized by the Royal Society for Construction History & Queen's College, University of Cambridge. Cambridge, 29 March - 2 April 2006.

Paper presented:

"Umayyad Arches, Vaults & Domes: Merging and Re-creation. Contribution to Early Islamic Construction History".

-Past Presented: Uses of the Past in Medieval European, Byzantine &Islamic Material Culture. International Seminar. Birkbeck College University of Central London -UCL. London 23-24 March 2006.

Lecturer by invitation. Paper presented:

"Umayyad Architecture and Building Techniques".

-Jornadas sobre "Conservación de Yacimientos Arqueológicos, Un enfoque integral". IPCE & Fundación Lazaro Galdiano (Ministerio de Cultura)

Participación como ponente invitado, ponencia presentada:

"El programa del Ministerio de Cultura de Ayudas para Proyectos arqueológicos en el exterior: conservación en Siria y Jordania" (con Concha Martin Y Margarita Gonzalez -IPCE)

-Late Antique Archaeology 2004:" Technology in Transition AD 300-650". Organized by Oxford University & Siena University Siena, 4-5 June 2004.

Lecturer by invitation. Paper presented:

"Umayyad Building Techniques and the Merging of Roman-Byzantine and Partho-Sassanian Traditions: Continuity & Change".

-International Conference: Early Islamic History: Archaeological Findings and Textual Sources. Organized by the Danish Institute in Damascus and the David Collection.

Damascus, 1-3 June 2004

Lecturer by invitation. Paper presented:

"Transition of Urban and Suburban settlements from Byzantine to Umayyad Period: Contributions to the debate 'From Polis to Medina' through the cases of Amman Citadel and Qasr Hallabat".

-IX Conference on the History and Archaeology of Jordan ("Cultural Interaction through the Ages"). Organized by the Department of Antiquities in collaboration withal-Hussein Bin-Talal University. Petra 26-29 May 2004.

Lecturer by invitation. Paper presented:

"Qasr al-Hallabat: Continuity and Change from the Roman-Byzantine to the Umayyad Period".

-1st. International Congress on Construction History. Organized by Instituto Juan de Herrera, Sociedad de Historia de la Construcción & CEHOPU. Madrid, January 2003.

Papers presented:

- 1. "From the Diaphragm Arches to the Ribbed Vaults: An Hypothesis for the Birth and Development of a Building Technique".
- 2. "Early Islamic Lime Kilns from the Near East. The cases from Amman Citadel".

-International Conference on Islamic Fortifications in Bilad al-Sham. Organized by the Syrian Directorate General of Antiquities and Museums (DGAMS), Ministry of Culture, and the Council for British Research in the Levant (CBRL). Aleppo, 16-19 September 2003. Lecturer by invitation. Paper presented:

"Qasr al-Hallabat, revisited".

-Seventh International Seminar Forum UNESCO -University and Heritage: "The Protection of World Heritage and Cultural Tourism". Organized by UNESCO & Yarmouk University. Amman 16-20 December 2002.

Lecturer by invitation. Paper presented:

"The Presentation of Amman Citadel Archaeological Site".

-III Congreso Internacional Ar&Pa (Arqueología y Patrimonio) "Restaurar la Memoria". Organized by Junta de Castilla-León, Spanish Agency for International Cooperation, Instituto Español de Arquitectura and the support of the Spanish Ministry of Culture. Valladolid (Spain) 7-9 November 2002.

Lecturer by invitation. Paper presented:

"El Programa de Conservación del Patrimonio de la AECID en Jordania".

-3rd ICAANE (International Congress on the Archaeology of the Ancient Near East) organized by the Sorbonne University (Paris 1). Workshop on Islamic archaeology: "Urban Archaeology in the Islamic Near East". Paris 11-17 April 2002.

Lecturer by invitation. Papers presented:

- 1.- "Urban Morphology and Social Significance of Umayyad Amman"
- 2.- "Urban Pattern Changes from the Umayyad to the Abbasid periods: The case of Amman Citadel"

-International Conference on Conservation and Regeneration of Traditional Urban Centers in the Islamic World: Learning from Regional Experiences and Building Partnerships. Organized by Council for British Research in the Levant (CBRL), Jordan University of Science & Technology, Abdul Hameed Shouman Foundation. Amman, Irbid, Salt (Jordan) 19-25 January 2002.

Lecturer by invitation. Papers presented:

- 1.-"The Urban Plan of Early Islamic Amman".
- 2.-"The Conservation and Presentation to the Public of the Umayyad Medina and Palace at Amman Citadel".
- -XVII Convegno Internazionale Scienza e Beni Culturali. "Lo Stucco". Organized by Università di Padova, Università Cà Foscari Venezia, Università di Genova, IUAV Venezia, & Politecnico di Milano. Bressanone, 10-13July 2001.

Papers presented:

- 1.- "The Umayyad Stucco Revetment from Amman Citadel Congregational Mosque".
- 2.- "The Early Islamic Stucco Techniques and the Parto-Sassanian Tradition: Continuity and Change"

-III Congreso Nacional de Historia de la Construcción. Sevilla 26-28 October 2000. Organized by Sevilla School of Architecture, Sociedad Española de Historia de la Construcción.

Paper presented:

"Un tipo inédito de trompas en la arquitectura omeya"

-2nd ICAANE (International Congress on the Archaeology of the Ancient Near East): Near Eastern Archaeology at the Beginning of the 3rd Millennium AD, Copenhagen, 22–26 May 2000. Workshop 'Strategies for Islamic Archaeology in Bilâd al-Shâm & the Jazîrah' held as part of the Congress Theme 'The State of Islamic Archaeology'.

Lecturer by invitation. Paper presented:

"Architectural Features from the Umayyad Congregational Mosque & Throne Hall at Amman Citadel". ("Early Islamic Urban Patterns and Architectural features at Amman Citadel: Analysis and Discussion").

-International Symposium on the Archaeology of Water in the Middle East: "Men of Dikes and Canals". Organized by German Protestant Institute of Archaeology in Amman (DEI) & German Institute of Archaeology Orient Section (DAI). Petra, 15-20 June 1999.

Lecturer by invitation. Paper presented:

"The Hydraulic System at Amman Citadel (Umayyad Period)".

-XV Convegno Internazionale Scienza e Beni Culturali. "Ripensare alla Manutenzione". Organized by Università di Padova, Università Cà Foscari Venezia, Università di Genova, IUAV Venezia, & Politecnico di Milano. Bressanone, 29 June-2 July 1999.

Paper presented:

"The Management Plan as a Framework for the Preservation of Sites and Cultural Resources".

-I Seminario Internacional Complutense Hispano-Jordano. Madrid, 13-15 Septiembre 1998. Organizado por la Universidad Complutense de Madrid.

Lecture by invitation. Lecture presented:

"La Ruta de los Omeyas: un Itinerario Cultural".

-XII Convegno Internazionale Scienza e Beni Culturali. "Dal Sito Archeologico alla Arqueologia del Costruito". Organized by Università di Padova, Università Cà Foscari Venezia, Università di Genova, IUAV Venezia, & Politecnico di Milano. Bressanone, 3-6 July 1996.

Papers presented:

- 1.- "Gli Strati di rivestimento: Strategie e tecniche di indagine tra conoscenza dello spessore storico e finalità di conservazione/restauro" (With Francesco Doglioni & Roberto Parenti).
- 2.- "Le fasi costruttive, le modifiche alla distribuzione interna e alla destinazione d'uso di Palazzo Corboli ad Asciano, Siena. Strati di rivestimento e Stratigrafía".
- -Primer Congreso Nacional de Historia de la Construcción, Organized by by Instituto Juan de Herrera, Sociedad de Historia de la Construcción & CEHOPU. Madrid, 19-21 septiembre 1996.

Papers presented:

- 1.-"Elementos y sistemas constructivos antisísmicos en la antigüedad. Aplicación a la restauración de estructuras históricas",
- 2.- "El alcázar Omeya de Amman, crisol de técnicas constructivas" (With A. Almagro).

9. ARTICLE (PEER) REVIEWER & PROJECT EVALUATOR

- Journal of Islamic Archaeology
- Journal of Near Eastern Studies. (Oriental Institute, Chicago University).
- Balneorient Research Project (IFPO Institut Française du Proche Orient)
- International and National Congresses on Construction History.
- International Conferences on the History and the Archaeology of Jordan.
- National Geographic Society. Evaluator
- National Endowment for Humanities (USA). Evaluator
- Informes de la Construcción (Consejo Superior de Investigaciones Científicas).
- Archeología Medievale (Italia)
- Revista de Historia de la Construcción

10. INTERNATIONAL RESEARCH NETWORKING AND INTERNATIONAL RESEARCH GROUPS

-Scientific Research Group. "Limina / Limites: Archeologie, Storie, Isole e Frontiere nel Mediterráneo" (365-1556); Limina / Limites: Archaeology, History, Islands and Frontiers in the Mediterranean Basin (365/1556).

This research group has been established in 2011. Its core group and Scientific Committee is composed by Prof. Guido Vannini (Università degli Studi di Firenze), Prof. Enrico Zannini (Università degli Studi di Siena), Prof. Denis Pringle (Cardiff Universiy) & Dr. Arce (Spanish Archaeological Mission to Jordan). The aim is the study of the frontiers in the Mediterranean Basin from Late Antiquity till 1556. The Research Group Limina/Limites will edit a homonimous Series of publications published by BAR (British Archaeological Report-International Series).

-Project "Umayyads" (EU ENPI Project). Member of the Local Support Group, and the Scientific Committee.

http://www.enpicbcmed.eu/communication/along-route-umayyad-caliphatestrategic-project-build-cross-border-cultural-itinerarie http://umayyad.eu/?q=jordanian-route

- "Balneorient" Project & Research Group . 'Balneorient' Project (Balneaia, Thermae, Hammamat) is co-ordinated by the French Institute for the Archaeology of the Near East (IFPO). Its main aim is the systematic study of the baths and thermal infrastructures in the Middle East and the Easter Mediterranean from Antiquity till Ottoman period.

Our team participates actively in this initiative through the Excavation and Restoration projects of the Umayyad Bath-houses at Amman Citadel and Hammam As-Sarrah, as well as through the Research and documentation project on Building Techniques and Architectural Typologies (as several of the buildings studied correspond to this type, as those of Qusayr 'Amra, Qasr Ain es-Sil and Fudayn-Mafraq).

- Science and Conservation for Archaeology and Cultural Heritage in the Eastern Mediterranean Region (SATCHEM) Project.

SATCHEM is a Project funded by the European Union (FP7) aimed to the contribution and development of a strategic regional plan on research infrastructures in the Eastern Mediterranean region, devoted to sciences applied to archaeology and to the promotion of digital methodologies for the register, analysis and documentation. It is organized by the Cyprus Institute (STARC centre), the *Centre de Recherche et de Restauration des Musees de France* (CNRS-LC2RMF) & CulTech for Archaeology and Conservation (CulTech), with the financial support of the EU. The Spanish Archaeological Mission and the projects directed by Dr. Arce participate as associated partner of the SATCHEM network for promotion and mutual assistance between the archaeological research centers in the Eastern Mediterranean region.

11. PUBLIC LECTURES

-"Dionysos en el Hammam". Pervivencia de la Cultura Helenística en el periodo omeya.

Public Lecture / Conferencia. Instituto Cervantes, Amman. April 2019.

-"De Roma al Islam: Qasr al-Hallabat y los Castillos del Desierto" Public Lecture /Conferencia within the series "Arqueología española en el Exterior". Museo Arqueológico Nacional. Madrid, 13 Febrero 2018.

https://www.youtube.com/watch?v=ICDUC2ddqBU&index=15&list=PLSTkYuU6iPdkJ6eTjgL39v Jggs0LaL5WM

-"1995-2018 Intervención sobe el Patrimonio Arquitectónico y arqueológico omeya en Jordania y Palestina". *Public Lecture.* Instituto Cervantes Amman. Abril 2018.

- "Veinte años de intervención sobre el patrimonio arquitectónico y arqueológico en Jordania. "Twenty Years of Interventions on the Archaeological and Architectural Heritage of Jordan". Conferencia. Workshop "El Patrimonio Arquitectónico en las Relaciones entre España y Jordania". Celebrations for the inauguration of the new Spanish Embassy building in Amman. Amman. 29 November 2014. http://www.exteriores.gob.es/Embajadas/AMMAN/es/Noticias/Paginas/Articulos/20141124 NOT1.aspx
- -Documentación, Excavación, Conservación e Investigación del Patrimonio en Oriente Medio; 1995-2013 ("Dokumentazioa, indusketa, kontserbazioa eta ikerketa Ekialde Ertainean. 1995-2013"-"Documentation Excavation, Conservation and Research in the Middle East"). Public Lecture. Escuela Técnica Superior de Arquitectura de San Sebastian (UPV-EHU). 4 November 2013. http://www.ehu.eus/ehusfera/arkitekturakultura/2013/11/01/2013114-ignacio-arce/
- -The Anastasius Edict Project. Public Lecture with Dr. Denis Feissel (Ecole des Hautes Etudes CNRS Paris) & Dr. Thomas Weber (University of Mainz), Organized by the German Archaeological Institute in collaboration with the Spanish Archaeological Mission and the Jordan Museum. Jordan Museum 2nd December 2013. http://www.deiahl.de/news-single-view/items/lecture-on-december-2nd-2013-at-the-jordan-museum.html
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- -"Incontri di Archeologia: Qasr al-Hallabat". Public Lecture. Società Dante Alighieri / Italian Embassy. Amman, 16th April 2008.
- -"Artistic Heritage and Cultural Tourism". Public Lecture. Cervantes Institute. Beirut, Lebanon, 10th May 2002.
- -Scientific Workshop "The Conservation of Historic Buildings in Jordan". Organized by The Jordan Engineers Association. 13th June 2001 Lecturer by invitation

Ponencia presentada: "Conservation and Management of Monuments. The case of the Umayyad Medina and Palace at Amman Citadel"

- -"The Umayyad Medina and Palace at Amman Citadel". Public Lecture. Friends of Archaeology. Amman, Jordan, 10th July 2000.
- -"The Ummayad Desert Castles". Public Lecture. Cervantes Institute. Amman, 15th October 1999.
- -" Archaeological Research on the Umayyad Architecture of Bilad al-Sham". Public Lecture. Organized by the Rotary Club of Amman. Amman 13th April 1999.
- -"Spanish Contemporary Architecture". Public Lecture. Faculty of Architecture, Jordan University (In collaboration with Cervantes Institute). 20th October 1998.
- -"The Umayyad Urbanism of Amman Citadel". Public Lecture. Cervantes Institute. Amman, 5th February 1998.
- -"The Restoration of the Umayyad Palace of Amman and Qusayr 'Amra". Public Lecture. Cervantes Institute. Amman, 15th May 1997.

12. PEER REVIEWED PUBLICATIONS

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ARCE, I (in press): "Two New Umayyad Mosques in Jordan (at Abila of The Decapolis & at Shuqayra Al-Gharbiyye)", in *Proceedings, 12th International Conference on the Archaeology of the Ancient Near East, 12ICAANE. Bologna* April 2021. Vol.2 Islamic Archaeology (edited by Mattia Guidetti & Enrico Cirelli). Harrassowitz, Wiesbaden. 48

- -ARCE, I (in press): "De necessitate virtutem. Remarks on Roman Military Building Techniques in the Levant: The case of the use of emplecton and the headers-and-stretchers bonding system", [Book Chapter] in Ricardo González Villaescusa (Ed), Roman Military Installations in the Mediterranean and the Balearic Islands, Ausonius Editions Series. CNRS Bordeaux (in press).
- ARCE, I. & AL-BAWAB, M. (In press): "Mixed Realities, Augmented Reality and Virtual Reality in the Conservation of Architectural Heritage" in Proceedings of the Humboldt-Kolleg International Conference Cultural Heritage: At the Intersection of the Humanities and the Sciences (Jordan, 16-18 April 2019). Reihe: Archäologie: Forschung und Wissenschaft. Bd. 7, ISBN 978-3-643-91252-7.
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- -ARCE, I. FEISSEL, D. WEBER, T. (2018a): "The Anastasius Edict Project. 1: The Epigraphic Evidence", in Proceedings LIMES XXII. International Congress of Studies on the Roman Frontiers. Ingolstadt September 2015.
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