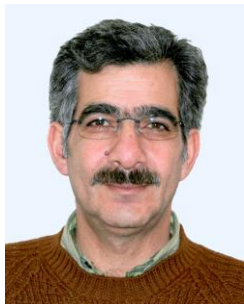


## Fuad Hourani

Ph-D in Environment and Archaeology

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- ✓ *Associated professor , Department of Cultural Resources Management & conservation – Faculty of Archaeology and Tourism - The University of Jordan. [f.hourani@ju.edu.jo](mailto:f.hourani@ju.edu.jo)*
- ✓ *Associate research fellow: "UMR 7041: Archéologie & Science de l'Antiquité" (ArScAn) -CNRS, Univ. Paris I, Univ. Paris X- France. [fouad.hourani@mae.u-paris10.fr](mailto:fouad.hourani@mae.u-paris10.fr)*
- ✓ *Member of the scientific committee of the international pluridisciplinary review of the prehistory and protohistory of Southwest Asia "Paléorient" - CNRS editions - France.*
- ✓ *Director of the Archaeological Excavations Project at Zaquma / Middle Jordan Valley.*

### Domain of interest

Near Eastern/Eastern Mediterranean Prehistory; landscape/on-site geoarchaeology; paleoenvironment / paleoclimate; natural/cultural heritage management & conservation.

### Education

- Ph-D in Environment & Archaeology: Institut National Agronomique - Paris 2002 ; Doctoral grant from the French Ministry of Foreign Affairs; thesis : “*Le cadre paléogéographique des premières sociétés agricoles dans la vallée du Jourdain. Etude de l’impact des événements climatiques de l’Holocène ancien sur la dynamique du peuplement humain*” ;
- DEA (Master II) in Environment & Archaeology: Université Paris I-Sorbonne, 1993; thesis : “*Microstratigraphie et organisation spatiale du site néolithique de Ja’deh (Syrie). Etude micromorphologique*”.
- Maîtrise (Master I) in Archaeology: Université Paris I-Sorbonne, 1992 ; thesis : “*Jéricho à l’Age du Bronze ancien*”
- Certificate of French Language & Civilization: Sorbonne, 1985.
- BA in Archaeology: Jordan University-Amman, 1981.

### Other laboratory training

- Remote sensing by radiometry. Laboratoire de géophysique / CNRS. Garchy, France, 1993.
- Satellite remote sensing (satellite imagery analyses). Laboratoire PRODIGE / CNRS / Institut Géographique de Paris, 1995.
- Extraction / analyses of Phytoliths. Laboratoire de Préhistoire Orientale / CNRS. Jalès, France, 1996

### Experience

- Post-doctoral research fellow, Maison de l’Archéologie et de l’Ethnologie, UMR 7041-ArScAn - CNRS, France, 2002-2004 and 2007-10
- Post-doctoral research fellow, Leiden University - Faculty of Archaeology- “Settling the Steppe Project”, The Netherlands, 2004-07.

- Cultural attaché at UNESCO, 1985-87

### Research programs fellowship

- “Settling the Steppe” Project - Leiden University: in charge of the physical landscape sub- project. Since 2004
- French archaeological mission at Khirokitia (Cyprus) – CNRS: in charge of the research on the Paleogeography and paleoclimate of the site, on the site formation process and on the earthen construction materials. Since 1998
- Jordano-French joint project of Tell Abu Hamid; CNRS & Yarmuk University: in charge of the research on the paleolandscapes and paleoclimates of the Middle and Lower Jordan Valley. Since 1994.
- The University of Basel, University of Jordan and Yarmuk University research project “The first human settlements on the left bank of the Jordan valley”. Since 2015

### Cooperation with other research programs

- Brown University Petra Archaeological Project. 2011
- The University of Jordan Excavations at Tell Al-Sowan. Since 2008.
- The Wadi Rayan Archaeological Project (Jordan), Council for British Research in the Levant (CBRL) & The University of Sydney. Since 2007.
- The French Archaeological mission at Shillourokambos (Cyprus). Since 2005.
- The University of Sydney Expedition at Pella and Teleilat Ghassul - Jordan. Since 1995.

### Research grants

- "Appel d'offre CNRS (France) 2003": Paleoenvironment of the Jordan Valley.
- "Appel d'offre CNRS (France) 2004 + 2005": Paleoenvironment of the Upper Zarqa Valley.

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### Publications

#### 1. Articles

- LE TENSORER, J-M., JAGHER, R., AL-NAHAR, M., ABU GHANEIMEH, K., HOURLANI, F., LE TENSORER, H., WEGMULLER, F., SANSON, A., FALKENSTEIN, V. (2016). The First Human Settlements on the Left Bank of the Jordan Valley – Outcome of the 2015 Survey. *SLASA Annual report 2015*, pp. 161-178. SLASA Publications
- BERGER, J-F., LESPEZ, L., KUZUCUOGLU, C., GLAIS, A., HOURLANI, F., BARRA, A., GUILAINE, J. (2016). Interactions between climate change and human activities during the early to mid-Holocene in the eastern Mediterranean basins. *Climate of the Past*, 12, pp. 1847-1877. Copernicus Publications.
- STUTZ, A.J., SHEA, J.J., BELMAKER, M., RECH, J., PIGATI, J., WILSON, J., ALBERT, R.M., ARPIN, T., CABANES, D., CLARK, J.L., HARTMAN, G., HOURLANI, F., WHITE, C.E. NILSSON STUTZ, L.G. (2015). Early Upper Paleolithic Chronology in the Levant: New ABOX-SC AMS Results from the Mughr el-Hamamah Site, Jordan, *Journal of Human Evolution*, 85, pp. 151-173.

- HOURLANI, F. (2011). Les matériaux de construction en terre. Etude au microscope des composants et des techniques de fabrication. In J. Guillaime *et al.*, (éd.); *Shillourokambos, un village néolithique précéramiques à Chypre*, pp. 631-648. Paris : Errance
- HOURLANI, F. (2010). Late Chalcolithic/early Bronze I transition settlements in the Middle Jordan Valley: Investigating alluvial sequences as a chronostratigraphical framework, and cycles as a social organising component. *Paléorient*, 36. 1. pp. 119-135. Paris: CNRS éditions.
- HOURLANI, F., KAPTIJN, E., PETIT, L., AL-GHUL, O., VAN DER KOOIJ, G. (2009). Dayr 'Alla Regional Project: Settling the Steppe (Third Campaign 2006). In: *Annual of the Department of Antiquities of Jordan*, Vol. 52. pp. 427-433. Amman : Department of Antiquities
- HOURLANI, F. (2008). Khirokitia (Chypre): un village néolithique les pieds dans l'eau. In : Gumier-Sorbets, ; A.-M., (éd.) ; *L'eau. Enjeux, usages et représentations (Colloques de la Maison René-Ginouvès,5)*. pp. 159-169. Nanterre.
- ASTRUC, L., DAUNE-LE BRUN, O., LE BRUN, A., HOURLANI, F. (2008). Un atelier de fabrication de récipients en pierre à Khirokitia (Néolithique pré-céramique récent, VIIe millénaire av. JC, Chypre). In Cordoba J. M., Molist M., Perez M. C., Rubio I., Martinez S. (eds), *Proceedings of the 5th international Congress on the Archaeology of Ancient Near East (ICAANE) I*, p. 175-186. Madrid: UAM Editions.
- PETIT, L., KAPTIJN, E., HOURLANI, F., AL-GHUL, O., GROOTVELD, E., & VAN DER KOOIJ, G. (2006). Dayr 'Alla Regional Project: Settling the Steppe (Second Campaign 2005). In: *Annual of the Department of Antiquities of Jordan*, Vol. L: pp 179-188 Amman : Department of Antiquities
- HOURLANI, F. (2006). Rivière et habitat à Khirokitia (Chypre). Etude de l'évolution hydrogéomorphologique du bassin du Maroni et de son impact sur l'installation néolithique pré-céramique. *Cahiers des thèmes transversaux ArScAn VI – 2005/2006*, pp. 128-134. Nanterre
- KAPTIJN, E., PETIT, L., GROOTVELD, E., HOURLANI, F., VAN DER KOOIJ, G., & AL-GHUL, O. (2005). Dayr 'Alla Regional Project: Settling the Steppe (First Campaign 2004). In: *Annual of the Department of Antiquities of Jordan*, Vol. XLIX: pp 89-99. Amman : Department of Antiquities.
- HOURLANI, F. (2004). Les témoins microscopiques des techniques de préparation des matériaux de construction en terre. Exemples des sites néolithiques de Khirokitia et de Shillourokambos à Chypre. *Cahiers des thèmes transversaux ArScan IV – 2002/2003*, pp. 144-146. Nanterre
- HOURLANI, F. (2003). Les matériaux de construction en terre à Khirokitia (Chypre): origine, techniques de préparation et emplois. In : de Chazelles, C-A. et Klein, A. (éds.) ; *Echanges transdisciplinaires sur les architectures et les constructions en terre crue*, 1. pp. 161-168. Montpellier: Edition de l'Espérou.
- HOURLANI, F. (1999). Natural constraints, space organisation models and rhythm of occupation at Abu Hamid during the seventh and the sixth millennium BP. In: *Studies in the History and Archaeology of Jordan*, No. VI. pp. 67-76. Amman: Department of Antiquities.
- HOURLANI, F. & COURTY, M.-A. (1998). L'évolution morpho-dynamique de 10,500 à 5,500 BP dans la vallée du Jourdain. *Paléorient* , vol. 23.2: 95-105. Paris: CNRS éditions.
- HOURLANI, F. (1997). Régions et reliefs d'un pays aux franges du désert. *Jordanie sur les pas des archéologues*. pp. 15-21. Paris : Institut du monde Arabe.
- PALUMBO, G., MUNZI, M., COLLINS, S., HOURLANI, F., PERUZZETTO, A. & WILSON, M. D. (1996). The Wadi AZ-Zarqa / Wadi Ad-Dulayl Excavations and Survey Project. *Annual of the Department of Antiquities of Jordan J*, vol. XL. pp. 375-422. Amman : Department of Antiquities.

- CHESSON, M.S., FLENDER, M., GENZ, H., HOURLANI, F., KUIJT, I. & PALUMBO, G. (1995), Tell es-Sukhne North: An Early Bronze Age II Site in Jordan. *Paléorient*, vol. 21/1, pp. 113-123. Paris: CNRS éditions.

## 2. Book review

- Brett Hill, J. (2006). *Human Ecology in the Wadi Al-Hasa, Land Use and Abandonment Through the Holocene*, Tucson: The University of Arizona Press. By F. Hourani; *Paléorient*, 2006, 32 (2): 202-204.

## 3. Book translation

- Dollfus, G. (2007). *The story of Anakou : In the Jordan Valley, 6000 years ago...a child meets some archaeologists*. CD-ROM. French Embassy in Amman - The Cooperation and Cultural Affaires Service. Translation from French to Arabic by Fuad Hourani.

### *Unpublished work:*

- HOURLANI, F. (2006). Manual for geoarchaeological researches in the Jordan Valley. Leiden University, Faculty of Archaeology, Leiden.
- HOURLANI, F. (2002). *Le cadre paléogéographique des premières sociétés agricoles et agro-pastorales dans la Vallée du Jourdain*. PhD thesis. Institut National Agronomique, Paris.
- 22 reports on fieldwork and other research activities since 1995.

## Communications presented at national and international symposiums

### *As single author:*

- 2016: *Evaluating the Early Anthropocene Hypothesis: The Impact of Early Farming Economies on East and West Asia*. University of Copenhagen, Copenhagen, Denmark, 18-19 February 2016. "Environmental change in the Jordan Valley from 15 ka to 5 ka BP: the predominance of natural effects"
- 2015: *Protecting the Past: Archaeology, conservation and tourism in the north of Jordan*. Jordan Museum, Amman, 28-30 September 2015. "Late Prehistoric landscapes of Northern Jordan: A perspective from the Jordan Valley".
- 2011: *Workshop on Current Research on Protohistoric Settlement in Desert Areas of Jordan*. Inst. Français du Proche Orient & Al Hussein University, Petra, Jordan, 12-13 July 2011. "Geoarchaeological Perspective on the Late Chalcolithic / Early Bronze Age Transition in Southern Levant".
- 2011: *Table ronde (Workshop): Nouvelles données sur les débuts du Néolithique à Chypre (New data on the beginning of the Neolithic in Cyprus)*. Muséum National d'Histoire Naturelle, Paris, France, 23-24 March 2011. "Khirokitia et l'évènement climatique de 8000 BP, concrètement (Khirokitia and the 8th millennium BP climatic event, concretely)".
- 2010: *Workshop PaleoMex: Impacts of climate variability and societal forcings in the Mediterranean since the Neolithic*. Maison de l'Orient Méditerranéen. Lyon, France, 18-19 November 2010. "Landscape changes and settlement dynamics in southern Levant and Cyprus during the Early to Mid-Holocene: The examples of the Jordan Valley and Khirokitia".

- 2010: *11<sup>th</sup> International Conference on the History and Archeology of Jordan (ICHAJ 11)*. Paris, France, 7-14 June 2010. "The Natufian Culture and the Transitional Pleistocene/Holocene Environments in the Jordan Valley: New data".
- 2010: *International Congress on Archaeological Sciences in the Eastern Mediterranean and the Near East (ASEMNE)*. Paphos, Cyprus, 29 April – 1 May 2010. "Climate changes and settlement dynamics at the turn of the 7th/6th millennium cal. BC in Cyprus and southern Levant".
- 2009: *1<sup>st</sup> meeting on the Prehistory of Jordan*. Amman, Jordan, 25-28 May 2009. "Environmental perspectives on the late prehistoric settlements in the Jordan Valley".
- 2008: *6<sup>th</sup> International Congress on the Archaeology of the Ancient Near-East (ICAANE)*. Rome, Italy, 05-10 Mai 2008. "The structuring effects of agriculture and irrigation on ancient societies in the Zarqa Triangle (Jordan Valley)".
- 2007: *Colloque de la maison René-Ginouvès; L'eau: enjeux, usage et représentations*. Nanterre, France, 06-08 Juin 2007. "Khirokitia (Chypre): un village néolithique les pieds dans l'eau".
- 2006: *5<sup>th</sup> International Congress on the Archaeology of the Ancient Near-East (ICAANE)*. Madrid, Spain, 03-07 April 2006. "Paleogeographical development and settlement phases in the Jordan Valley from the early Neolithic through the Iron Age".
- 2006 : *Thème transversal n°7 : Outils et méthodes de la recherche - les dégraissants*. Maison René Ginouvès : Archéologie et Ethnologie, Nanterre, France, Février 2006. "Les dégraissants minéraux et végétaux dans les matériaux de construction en terre : reconnaissance et différenciation en lames minces des éléments inhérents et rajoutés".
- 2006 : *Thème transversal n°8: Bâti et habitat- L'architecture et l'eau*. Maison René Ginouvès: Archéologie et Ethnologie, Nanterre, Janvier 2006. "Rivière et habitat à Khirokitia (Chypre). Etude de l'évolution hydro-géomorphologique du bassin du Maroni et son impact sur l'installation du Néolithique Pré-céramique".
- 2003 : *Thème transversal n°8: Bâti et habitat- technique de l'architecture de terre*. Maison René Ginouvès: Archéologie et Ethnologie, Nanterre, France, Mars 2003. "Les témoins microscopiques des techniques de préparation des matériaux de construction en terre".
- 2003: *Eastern Mediterranean / Near Eastern Geoarchaeology Meeting*. Tübingen, Germany, 22-23 May 2003. "Changes observed in the Holocene Jordan Valley landscapes: their climatic significance and cultural implications".
- 2002: *International conference on science and technology in archaeology and conservation*. Hashemite University, Amman + Zarqa, 12-18 August 2002. "Landscape and climate in the Jordan Valley during the Neolithic and Chalcolithic".
- 2002: *International conference on science and technology in archaeology and conservation*. Hashemite University, Amman-Zarqa, 12-18 August 2002. "Earth construction material at Khirokitia (Chypre): a micromorphological study".
- 2001: *Echanges transdisciplinaires sur les architectures et les constructions en terre crue*. Ecole d'architecture de Montpellier, Montpellier, Novembre 2001. "Les matériaux de construction en terre à Khirokitia (Chypre): origine, techniques de préparation et emplois".
- 1998: *2<sup>nd</sup> International conference on global climatic changes*. Yarmuk University, Irbid, May 1998. "The soil record of early Holocene climatic changes in the Jordan valley".
- 1997: *Séminaire sur les marges arides. Maison de l'Orient Méditerranéenne - Université Lyon II*, Lyon, France, Janvier 1997. "Séquences sédimentaires et évolution de la vallée du Jourdain au Néolithique et au Chalcolithique".

- 1996: *International workshop on the 5<sup>th</sup>-4<sup>th</sup> millennium BC in Jordan*. Institute of Archaeology and Anthropology – Yarmuk University, Irbid, March 1996. "Abu Hamid, Pella and Ghassul: comparative study of the sedimentary deposits".
- 1995: 6<sup>th</sup> *International conference of the History and Archaeology of Jordan*. Torino-Italy, June 1995. "Natural constraints, space organisation models and rhythm of occupation at Abu Hamid during the seventh and sixth millennium BP".

#### **With others:**

- 2015: *Nouvelles données sur les débuts du Néolithique à Chypre*. Muséum national d'Histoire naturelle, Paris, France, 18-19 March 2015. "Le village et la rivière : nouvelles données sur l'évolution de Khirokitia". O. Daune-Le Brun & F. Hourani.
- 2011: *International Conference of the Çatalhöyük West Mound Project; Times of Change, The Turn from the 7th to the 6th Millennium BC in the Near East and Southeast Europe*. Free University Berlin, Berlin, Germany, 24-26 Novembre 2011. "Changing with the Years: Khirokitia in Cyprus at the Turn of the 7th- 6th Millennium". O. Daune-Le Brun, F. Hourani & A. Le Brun.
- 2010: *International Congress on Archaeological Sciences in the Eastern Mediterranean and the Near East (ASEMNE)*. Paphos, Cyprus, 29 April – 1 May 2010. "Investigating Neolithic earthen architecture at Khirokitia-Cyprus (VII<sup>th</sup>-VI<sup>th</sup> mill): ethno-archaeology, experimentation and micromorphology". O. Daune-Le Brun & F. Hourani.
- 2006: 5<sup>th</sup> *International Congress on the Archaeology of the Ancient Near-East (ICAANE)*. Madrid, Spain, 03-07 April 2006. "Un atelier de fabrication de récipients en pierre à Khirokitia (Néolithique pré-céramique récent, VIIe millénaire av. JC, Chypre)". L. Astruc, O. Daune-Le Brun, A. Le Brun & F. Hourani.

#### **Posters**

- 2005: Exhibition; *European-Jordanian Cooperation in the Field of Archaeology in Jordan. Meetings with the Past: Treasures for the Future*. Amman, Darat al Funun, May-July 2005; European Union, Royal Netherlands Embassy & The Khalid Shoman Foundation. "The Jordan Valley Landscapes and Climate during the Neolithic and the Chalcolithic".
- 1997 Exhibition ; *Jordanie sur les pas des archéologues*, Institut du Monde Arabe. Panner (1) Map of Jordan ; Panner (2) Jordan : Land and history.

#### **Seminars/Lectures (for researchers and post-graduate students)**

- Friedrich Alexander University – Erlangen, Germany, Institute of Geography, 1/2/2017. « Soil Micromorphology :an approach to the study of paleoenvironments and past human behavior ».
- The Friends of Archaeology, Amman, 12 Novembre 2010. "*Environmental changes in the Jordan Valley from the Early Natufian through the Early Bronze Age: Their climatic significance and cultural implications*".
- Université Paris I ; Préparation aux concours des conservateurs du patrimoine; 22 June 2010. « *Climat, paysage et société ancienne en Méditerranée orientale : impacts et reconstitutions* ».
- Université Paris I ; Programme Master II (le Néolithique); 7 Nov. 2009. « *Le Néolithique de Chypre et l'évènement climatique de 8,200 cal BP* ».
- Université Paris I ; Préparation aux concours des conservateurs du patrimoine; 07 avril 2009. « *Changement climatiques et sociétés agricoles ancienne en Méditerranée orientale : impacts et reconstitutions* ».

- Université de Tours (France); 02 avril 2008. « *Changements environnementaux et phases de peuplement humain en Jordanie septentrionale au cours de l'Holocène. Reconstitutions paléogéographiques micro-régionales* ».
- Leiden University (The Netherlands) - Faculty of Archaeology; 27 January 2006: “*Landscapes of the Deir ‘Alla Region during the past five millennia*”.
- Université Paris I "outils et méthodes de la recherche"; Archéologie Expérimentale - séminaire Histoire des Techniques ; 23 novembre 2005. "*Khirokitia : l'analyse microscopiques de la terre à bâtir archéologique, une première étape vers des reconstitutions plus fidèles*".
- Université de Tours; Séances de Master II en architecture et urbanisation "L'interprétation des vestiges architecturaux : outils et méthodes"; 21 novembre 2005. "Les témoins microscopiques des techniques de préparation des matériaux de construction en terre".
- Leiden University - Faculty of Archaeology; 12 March 2004. "*Environments of the first farming and agro pastoral communities in the Jordan Valley*".
- Institut National Agronomique (Paris) ; 08 February 2000. "*Changements paléo-environnementaux et évolution des sociétés agro-pastorales au Proche- et Moyen-Orient*".
- Yarmuk University - Institute of Archaeology and Anthropology; March 1995. "*Contribution of the soil micromorphology on the study of occupational sequences*" (lecture in Arabic).

#### **Exhibitions** (contribution & active participation)

- Maison René Ginouvès, Archéologie et Ethnologie. Univ. Paris X, Juin-Septembre 2007. Exposition photographique : "Chêne d'observations microscopiques : un outil pour la recherche".
- Cyprus Museum (Nicosia), April-May 2006. "Khirokitia : Stone and Earth Architecture. Reconstructing the Neolithic Settlement”.
- Maison René Ginouvès, Archéologie et Ethnologie. Univ. Paris-X, January-June 2005 : "Reconstitution de l'habitat néolithique à Khirokitia (Chypre)" Exposition photographique.
- Institut du Monde Arabe, Paris, June-Septembre 1997: Jordanie sur les pas des archéologues. Editing of the exhibition introduction and cartography (First and second banners); editing of the catalogue introduction and active participation on the preparations of the exhibition.

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#### **Other Activities**

- **Excavations** (participation): (1) Jabal el-Rahil/Tell Sukhneh (Jordan). Roma University, 1993; (2) Tell Ja'deh (Syria). CNRS / MAE, 1993; (3) Tell Abu Hamid (Jordan). CNRS / MAE & Yarmuk University, 1991; (4) Tell Abu Thawab (Jordan). Yarmuk University, 1984-85; (5) Kherbet Zeiraqoun (Jordan). Tübingen University & Yarmuk University, 1984; (6) Tell Deir Alla (Jordan). Leiden University & Yarmuk University , 1983-84; (7) Tell el-Mazar (Jordan). Jordan University, 1980-81; Amman Citadel (Jordan). Free University of Barcelona, 1979.
- **Preventive archaeology:** Gisors deviation (Normandy – France). Archaeological Service-Department of the Eure. 2008/09. In charge of the sector geoarchaeology / geomorphology.
- **Sociability:** Elected president of the residents' committee of the Abreu de Grancher Foundation - International City University (Paris) in 1997 and 1998.
- **Military service** (Jordan), 1981-83