Dhiban Excavation and Development Project (DEDP)

ARKY 3400 - Archaeology of Jordan

ARKY 3000 - Analysis of Jordanian Material Culture

ARKY 3300 - Archaeological Field Work: Jordan

Summer Session I/II

June 5 – July 30, 2023

Archaeological Field School

- Excavation Project Overview
- Excavation Schedule
- Application Procedure
- ► Course Requirements
- Costs
- Student Loans and Funding Possibilities
- Risks, Safety and Responsibility
- ► Website: http://people.uleth.ca/~bubest



Dr. Bruce Routledge



Dr. Kevin McGeough





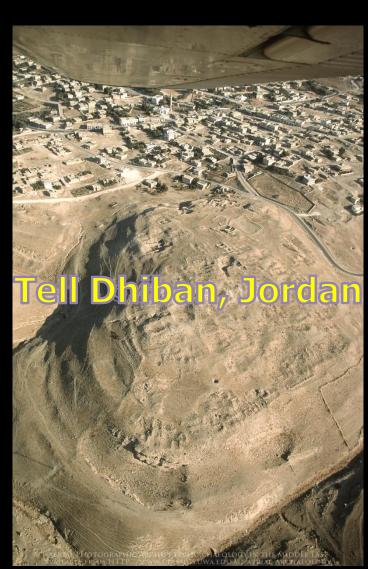


Dr. Shawn Bubel





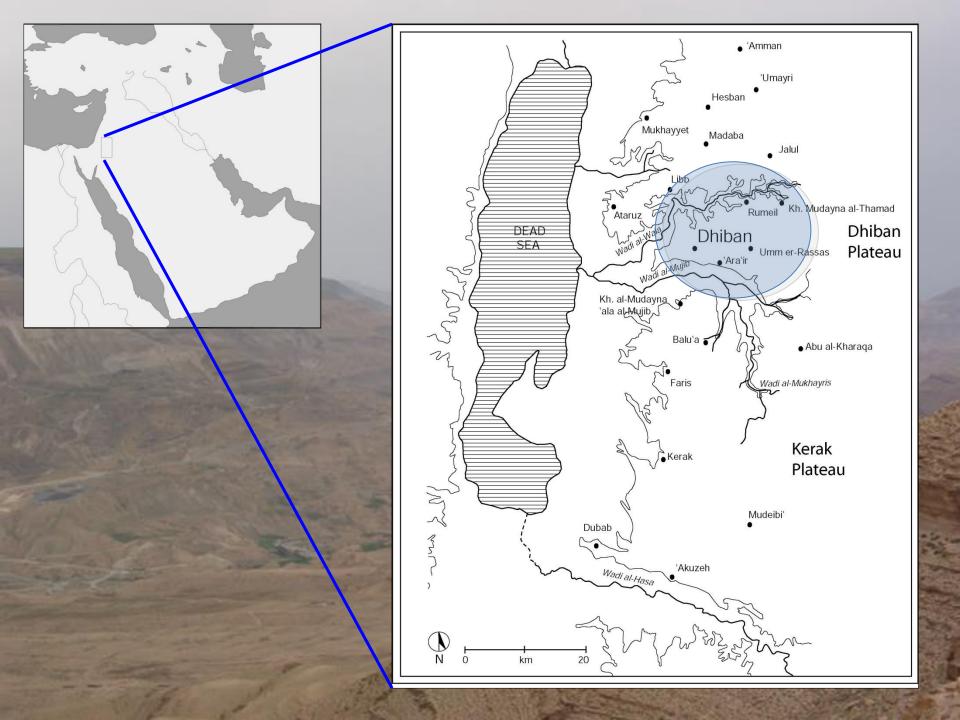


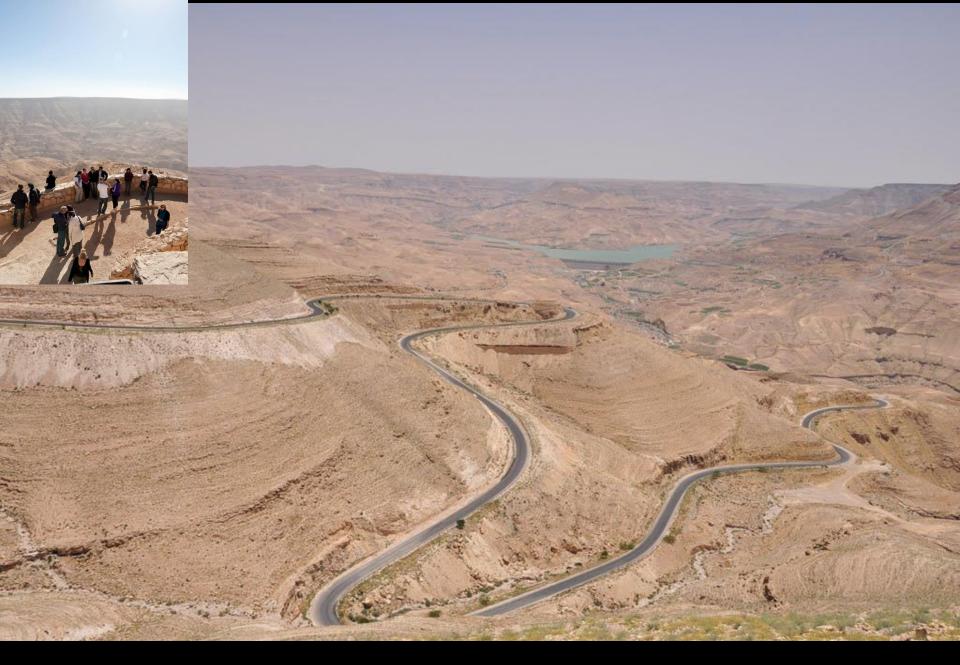


Middle East



Jordan Population Distribution in 2004 Density and Growth Rate between 1994 - 2004 توزيع السكان في الأردن عام ٢٠٠٤ الكثافة ومعدل النمو بين ١٩٩٤ و٢٠٠٤. معدل عال للنمو والتمدن Shouna Shamaliyya Ruweished Azraq 1675 m 1600 1500 1400 1300 1200 Ghour al-Safi 1100 1000 900 800 700 600 Wadi Jafr 500 Musa Governorate limit 400 Ma'an District limit 300 Subdistrict limit 200 Population 2004 100 1,000 0 10,000 - 100 100,000 - 200 - 300 1,000,000 - 400 Sea 80 120 (Ababsa, Ifpo, 2006) Kilometers





Wadi Mujib Lookout - 2 km south of Dhiban

Wadi Mujib



Dhiban, Jordan

- c. 70 km south of Amman
- Town population c. 15,000
- Settled by Bani Hamida Tribe post-1940.
- Primary income sources are agriculture, military, government, and remittance payments.

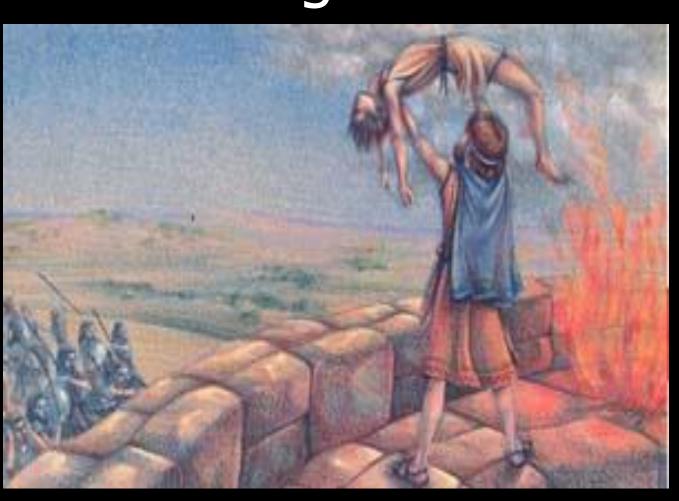


Tall Dhiban

- Artificial mound adjacent to town
- Occupied intermittently from the Third Millennium BCE to the end of the 14th Century CE
- 12.5 hectares 40 metres high



MESHA!!!! 2 Kings 3:4ff





Mesha Inscription (ca. 840 BC)

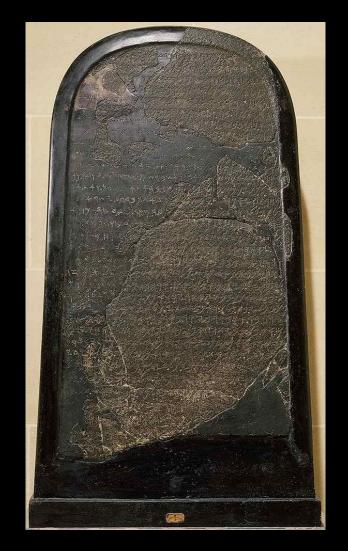
"I am Mesha, King of Moab the Dibonite... Omri, King of Israel oppressed Moab many days for Kemosh was angry with his land"

"Now Mesha of Moab was a sheep Breeder who used to deliver to the King of Israel...But when Ahab died The king of Moab rebelled..." 2 Kings 3:4-5

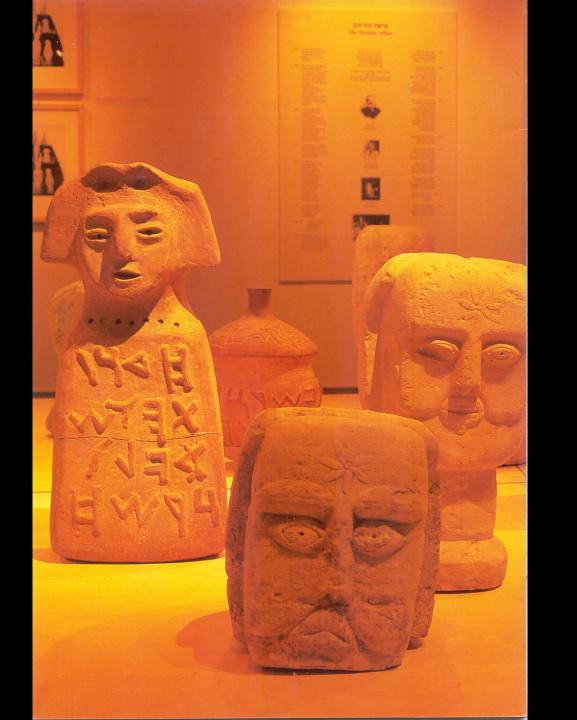


Clermont-Ganneau

Mesha Inscription



Warren





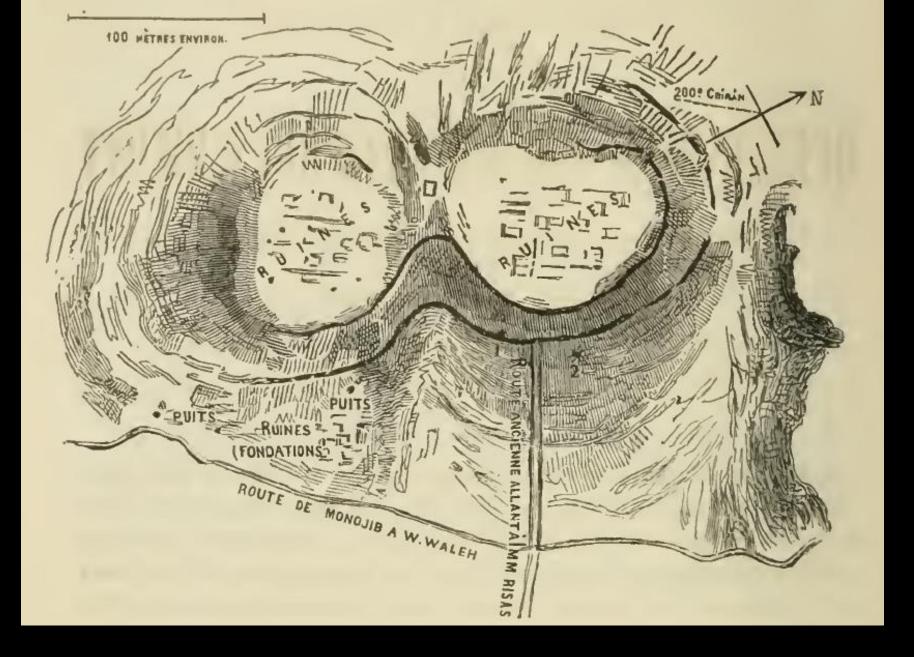
THE JORDAN TIMES

» Local » Centre planning protest to demand return of Mesha Stele from Louvre

Centre planning protest to demand return of Mesha Stele from Louvre

By Muath Freij - Apr 12,2016 - Last updated at Apr 12,2016

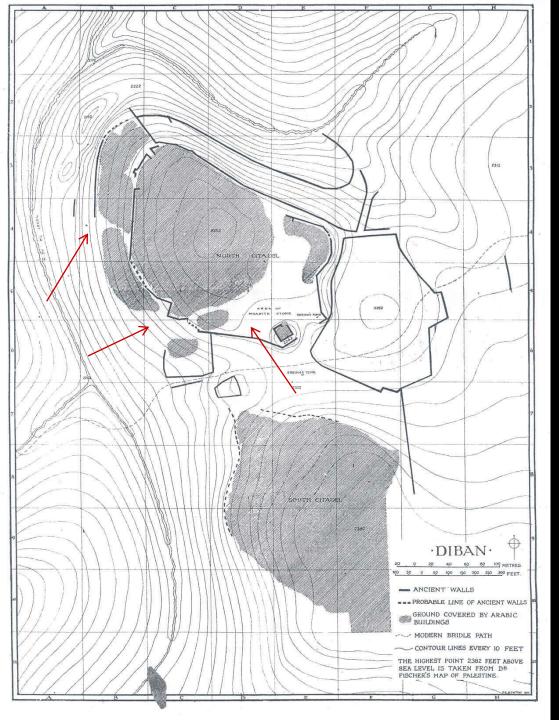
AMMAN — The Mesha Centre for Studies and Human Rights will submit a request this week to the governor of Amman asking for permission to picket the French embassy in Amman to demand the return of the Mesha Stele from France, the centre's president, Daifallah Hdeithat, said Tuesday.



Sketch Map of Dhiban – Clermont-Ganneau 1871



Duncan Mackenzie

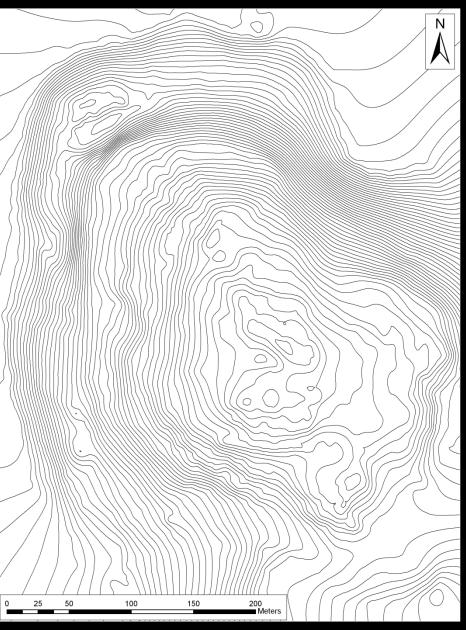


Plan of Dhiban – Palestine Exploration Fund 1910



Tall Dhiban: Topography and Site





Tall Dhiban

'Nabataean Temple' (2020)



Field S

Field L (2020)

Field W
Note Karstic
Depression
&
Slope Collapse



Jordan in the Holocene

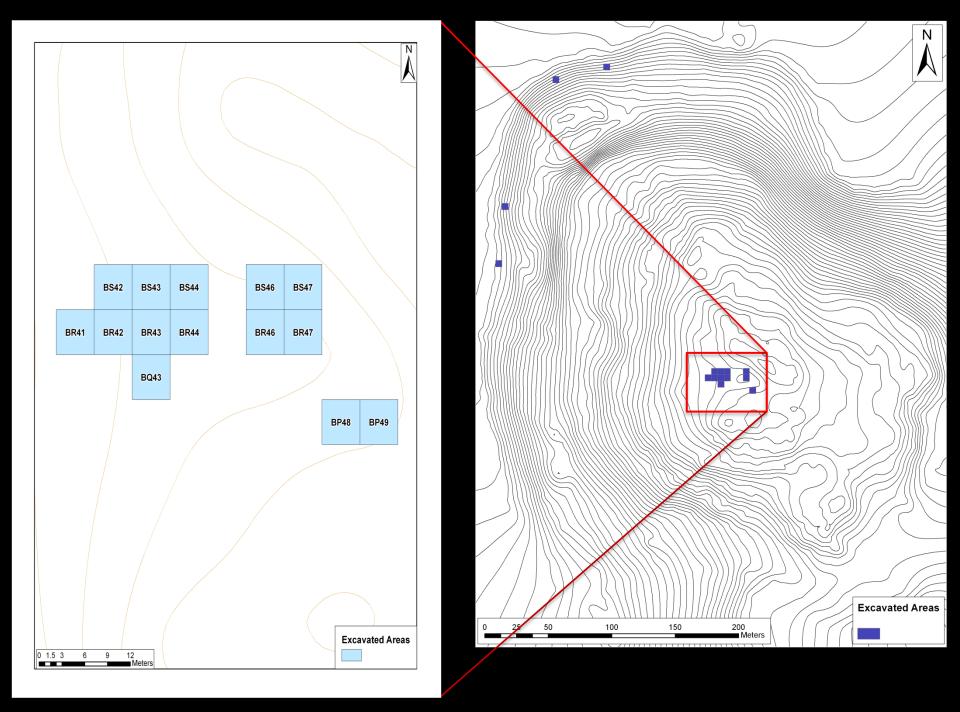
Natufian	(10,500 - 8,500 BCE)
PPNA	(8,500 - 7,600 BCE)
PPNB	(7,600 - 5,500)
Pottery Neolithic	(5,500 - 4,500 BCE)
Chalcolithic	(4500 - 3500 BCE)
Early Bronze Age	(3500 - 2000 BCE)
Middle Bronze	(2000 – 1550 BCE)
Late Bronze	(1500 - 1200 BCE)
Iron	(1200 - 539 BCE)
Persian	(539 – 322 BCE)
Hellenistic	(322 - 63 BCE)
Nabataean	(63 BCE – 106 CE)
Roman	(106 - 400 CE)
Byzantine	(400 – 630 CE)
Early Islamic	(700 - 1000 CE)
Middle Islamic	(1000 - 1450 CE)
Ottoman	(1450 – 1918 CE)
Hashemite	(1923 – present CE)

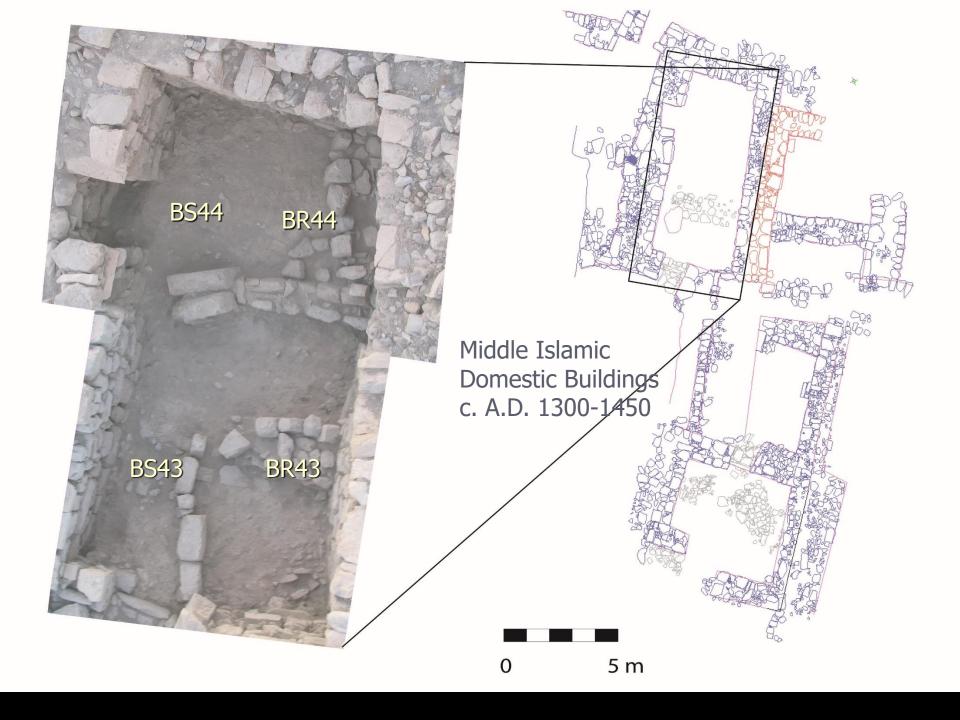
Tall Dhiban



Field L (2020)

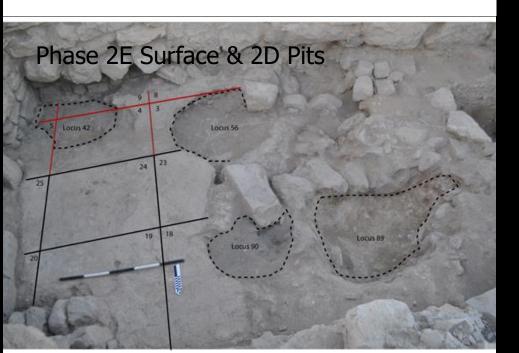








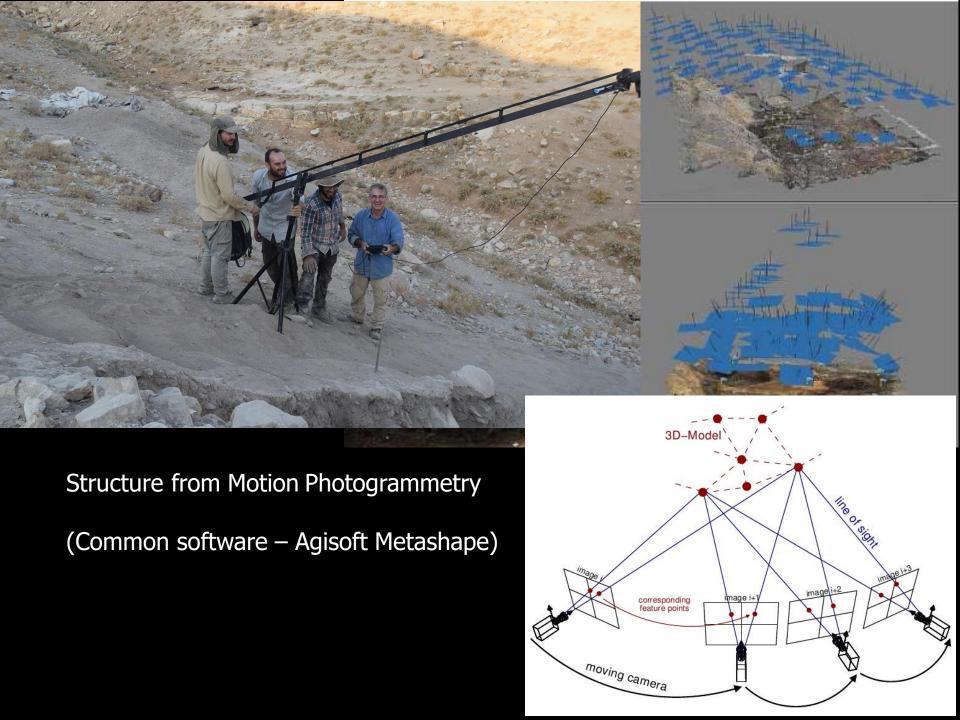
20/ 25/ 10 19/ 24/ 4/ 9 Phase 2C Surface



Barrel Vaulted Room

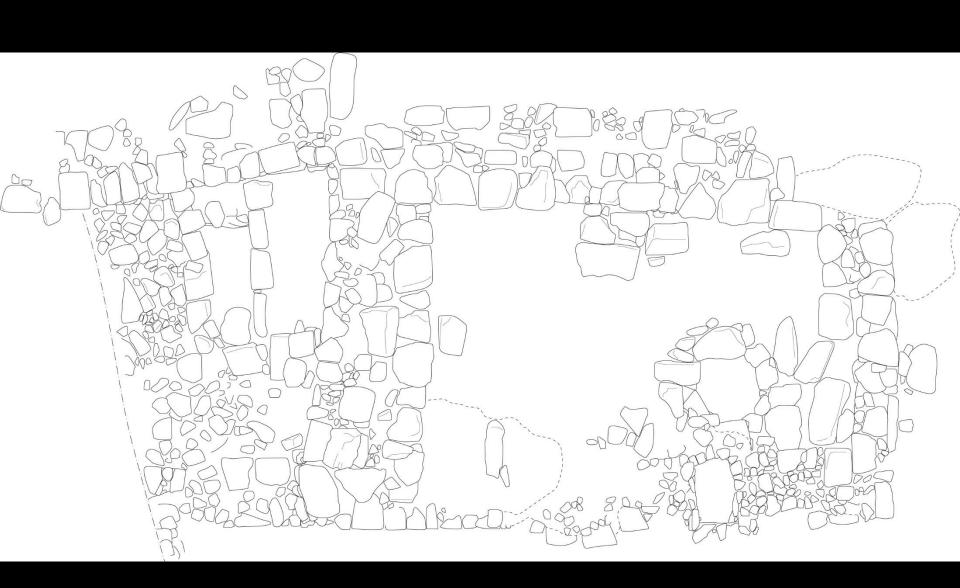
- 3 plastered surfaces with different room uses (2B, 2C & 2E)
- 2σ Radiocarbon range for primary use 14th century cal CE
- 1m+ accumulation <100 years.
- Secondary use of room (2A)
 1409-1445 cal CE (2σ)
- Latest date beneath rock collapse 1522-1799 cal CE (2σ) ephemeral campfire.







Building from Tell Dhiban documented using digital photogrammetry, 2019.







Field L "Palace" Early Phase: Modified After Section Cleaning

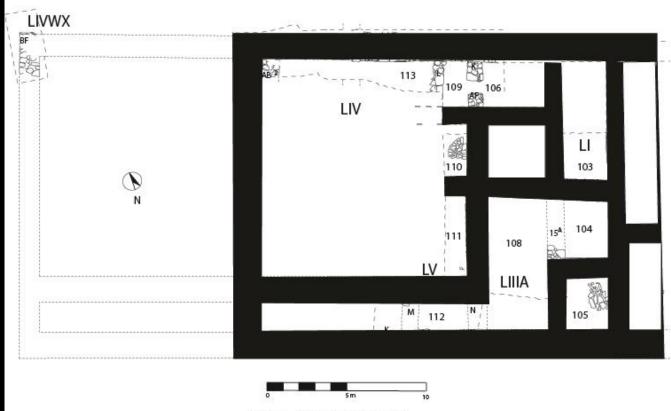
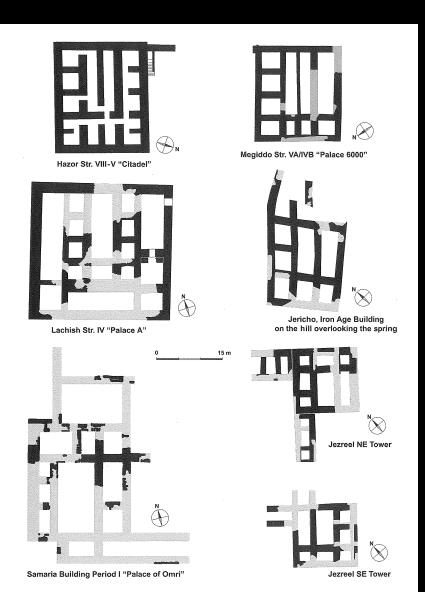
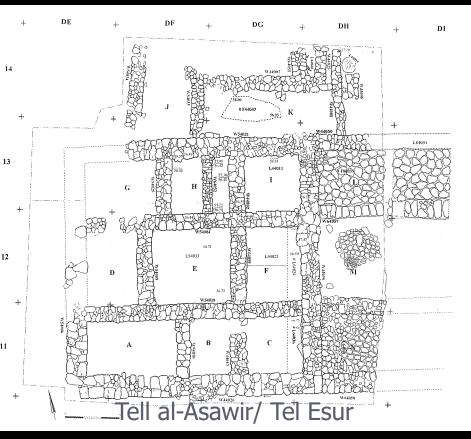


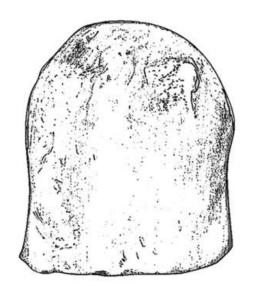
Figure 8.1. Dhiban, Area L "palace 1."

Central Hall Tetra-Partite Buildings





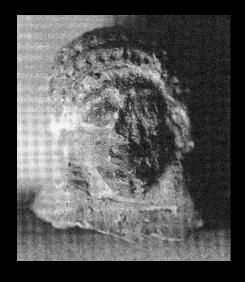


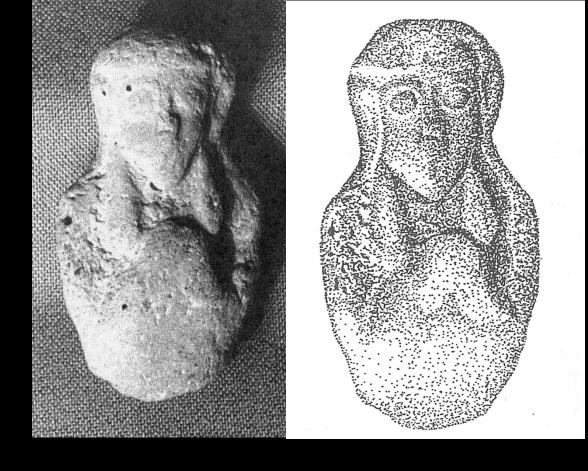






0 2cm





Figurines from William Morton's Excavation in Area L, Dhiban 1956



Mudayna



Dhiban

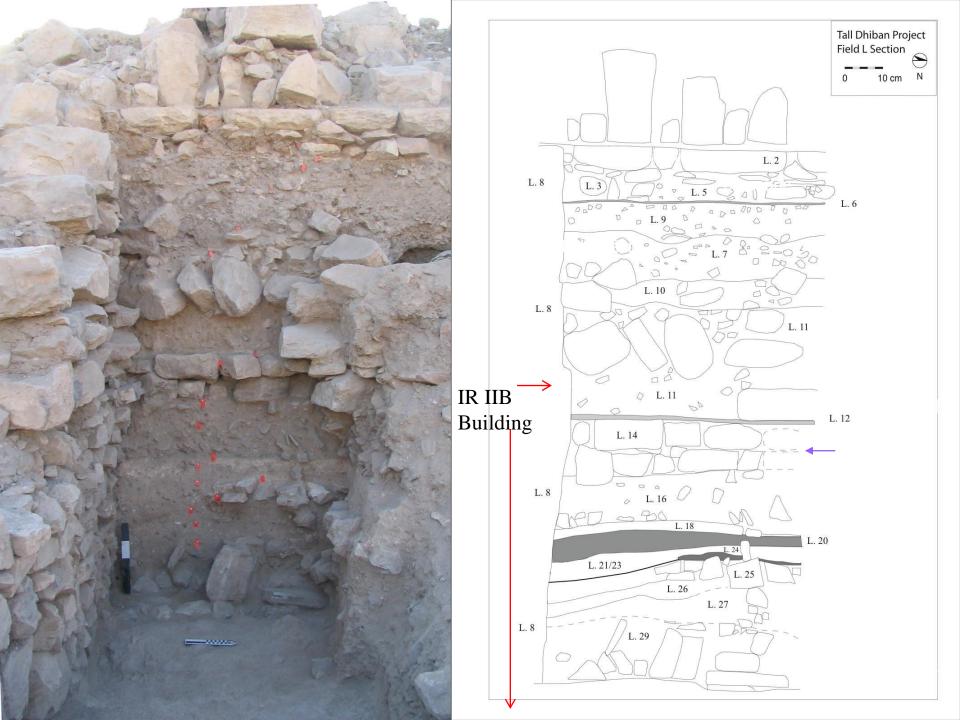
ath-Thamad

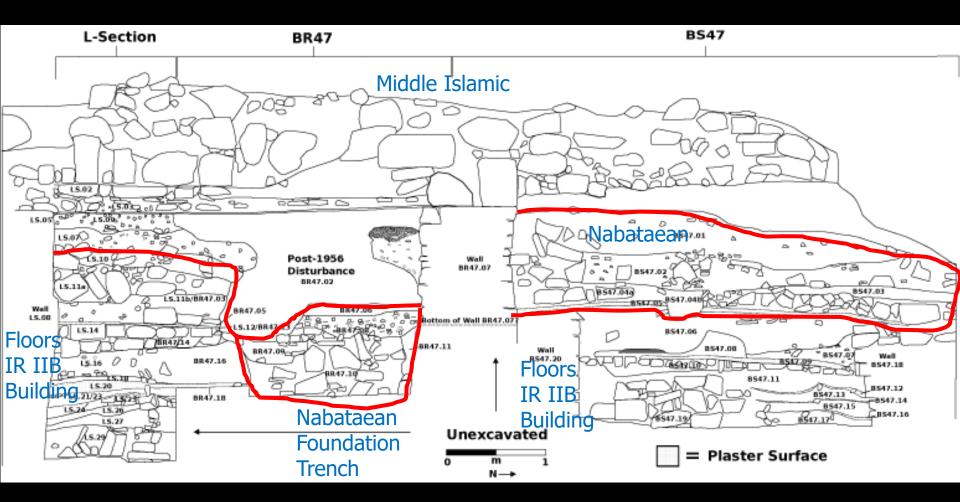


al-Mashad

Mudayna ath-Thamad?

Karak

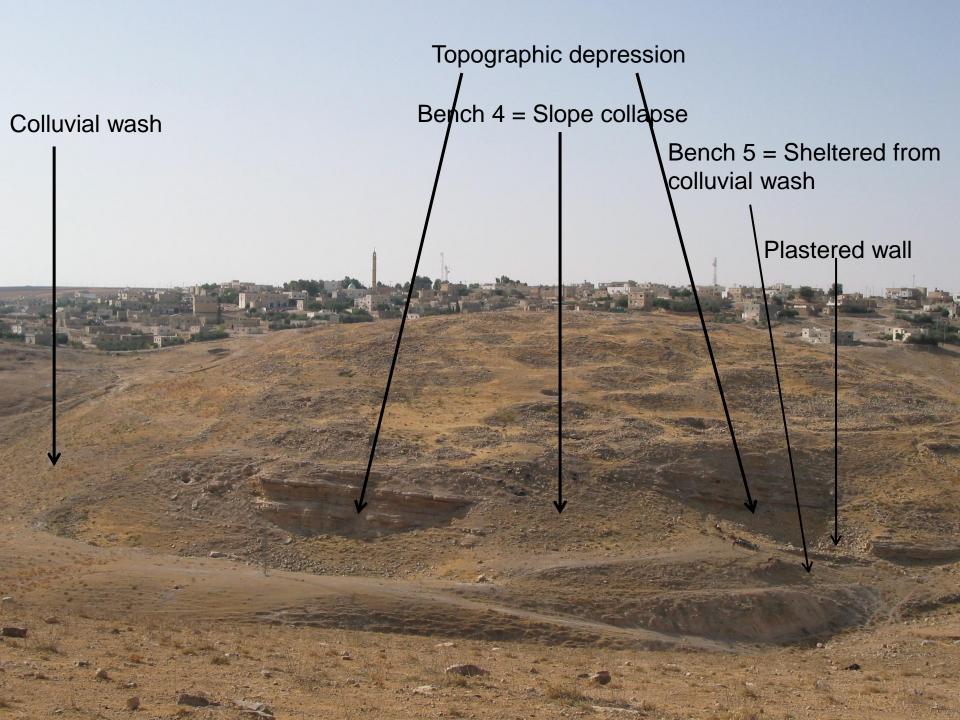




Tall Dhiban



Field W
Note Karstic
Depression
&
Slope Collapse

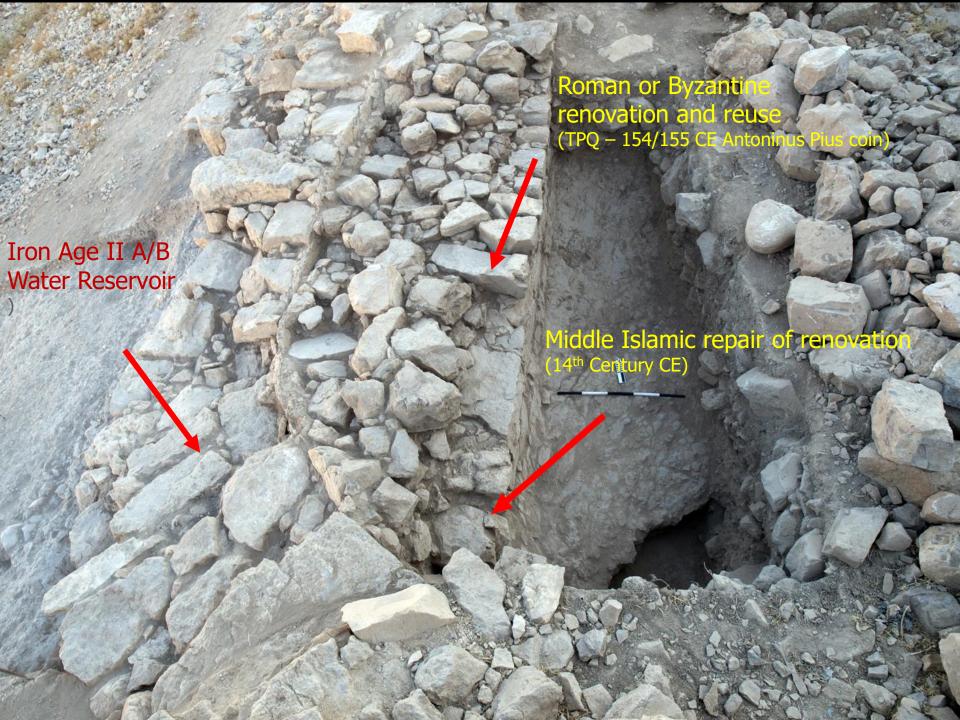




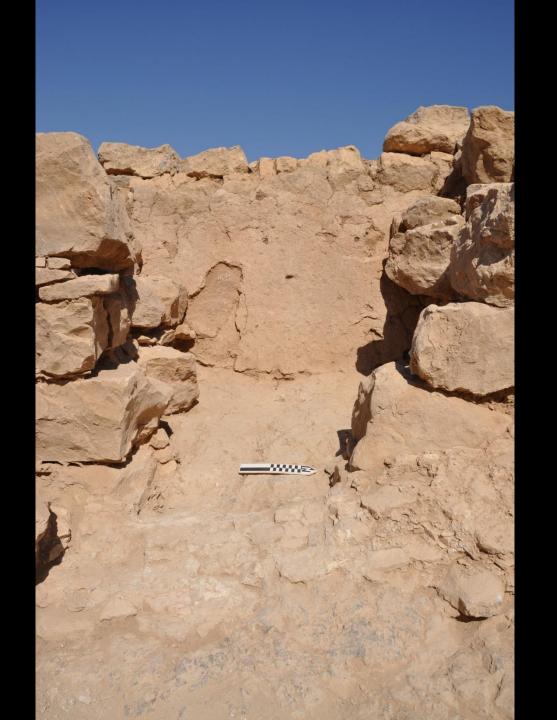
IRON AGE RESERVOIR







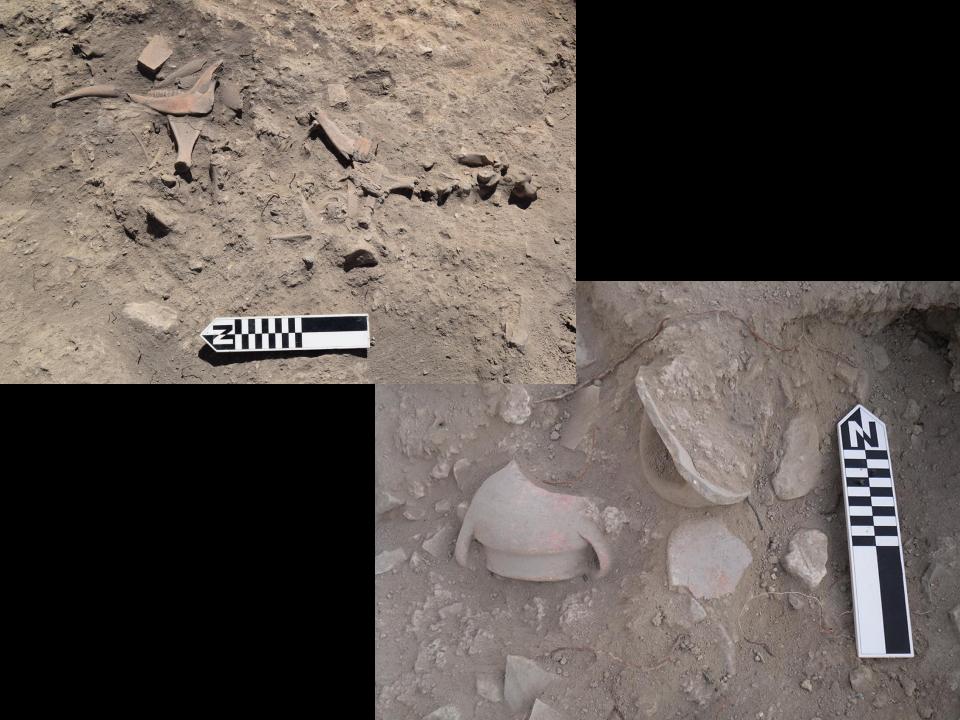






Antonius Pius – Year 18 (154/ 155 CE)/ Alexandria







Tall Dhiban

'Nabataean Temple' (2020)







Site Preservation and Presentation





Conservation and Cleaning of Architecture

Training and Implementation



Site Preservation and Presentation



Backfilling Old Excavation Areas

Site Preservation and Presentation



Sustainable Pathways and Signs



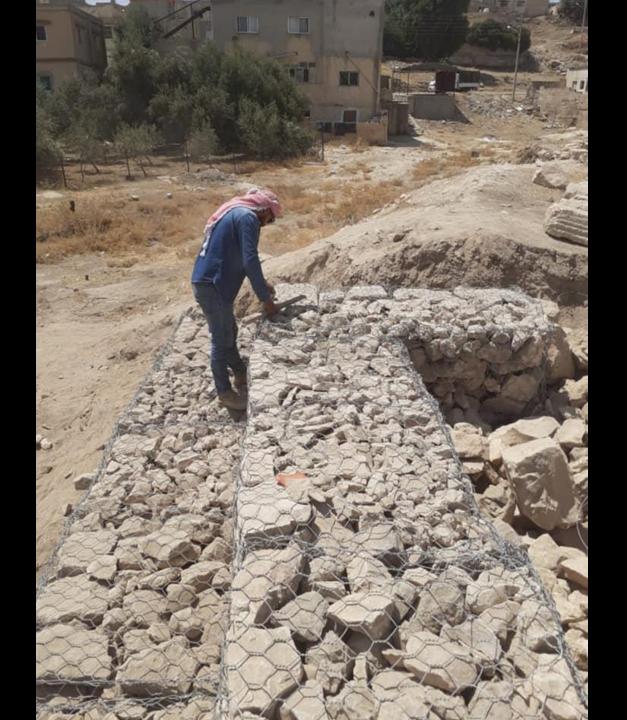








Fig. 1. - Diban. Tombe du cheikh Sâlem eben Mişlah.

19th-century sheikh's tomb removed without documentation by **the CANADIAN** archaeologist Fred Winnett in 1950













HF 409

AIC PhD Targe ⊚2011 AIC





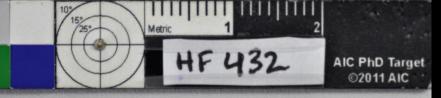
AIC PhD Target ⊚2011 AIC





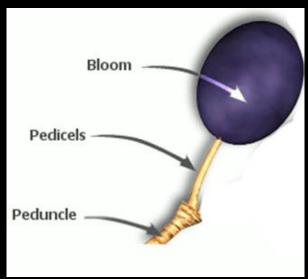






Evidence of Agricultural Production and Practice: Grape Pedicels





(Image taken by Rudi Vanzin 2013)





Madaba – Regional urban centre With touristic infrastructure 32 km north of Dhiban.





Madaba Mosaic



Mount Nebo















ARKY 3400: Archaeology of Jordan

Online, beginning June 5 until departure for Jordan

- History and Archaeology of Jordan
 - ► Neolithic Bronze Age
 - ► Iron Age Kingdoms
 - ► Greco-Roman Era
 - Nabataean
 - **▶** Byzantine
 - ► Islamic Eras
- Biblical, Assyriological, and Classical Studies Related to Jordan
- ► History of the Modern Middle East
- ► Islam and Society
- Very Very Rudimentary Arabic

An Average Day at the Site June 25 – July 21 / Sunday - Thursday

- 4:00 Rise and shine
- ▶ 4:45 Leave for the site on our bus
- ▶ 5:20 Arrive at the site, begin the day
- ▶ 9:00 Second breakfast
- ▶ 9:30 Back to work
- ▶ 13:00 Bus back to the Madaba
- ▶ 13:30 Lunch
- ▶ 14:00 Break
- ▶ 16:00 Pottery washing and lab work
- ▶ 18:00 Evening Lecture
- ▶ 19:00 Dinner





Excavating using a 5 x 5 Wheeler Box method.







Excavating using the larger tools.







Excavating using smaller tools for 'detailed' work.



Excavating – sometimes we need a jackhammer.



Excavating – sometimes we move rocks whole.



Excavating – screening the excavated sediment.



Excavating – moving a lot of sediment.



Excavating – preparing for photographs.



Excavating – drawing stratigraphic profiles.



Excavating – drawing stratigraphic profiles.



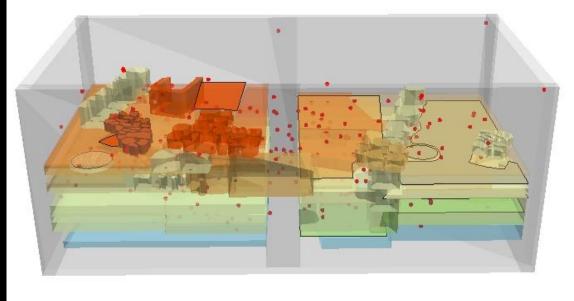
Excavating – drawing stratigraphic profiles.



Excavating – Recording the excavations.



Measuring the exact location of the archaeological remains with a Total Station.





Excavating – Teamwork!



Excavating – Teamwork.









Excavating – Teamwork.



Excavating – Teamwork.







Excavating – Teamwork.



Excavating – Getting Dirty!



Second Breakfast – Finally!



Pottery Washing









Pottery Reading











Artifact Cataloguing, Faunal Analysis, and More.



Artifact Cataloguing, Faunal Analysis, and More.

Camp Life



Camp Life

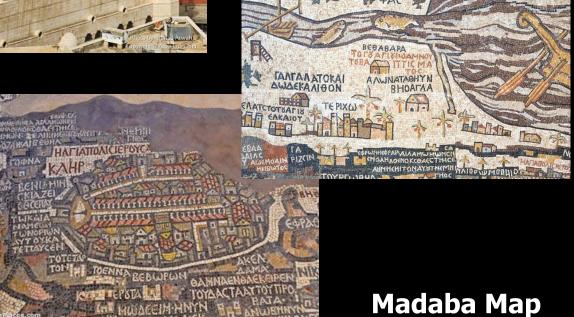


Camp Life





Madaba, Jordan





Mosaic at Mt Nebo



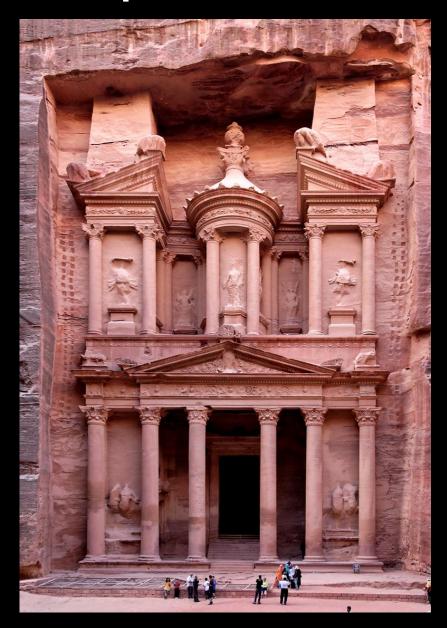
The Dead Sea



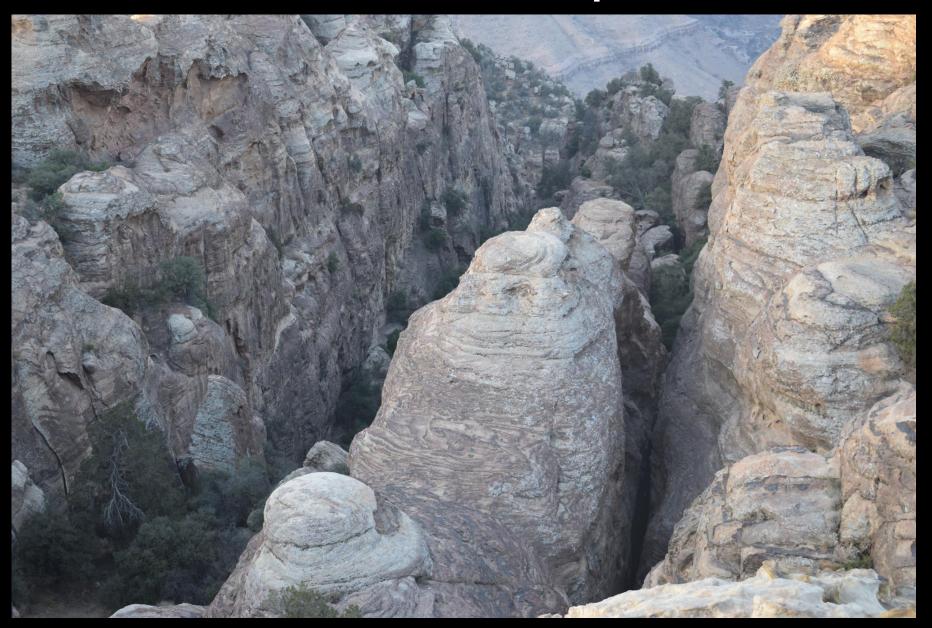
Jerash





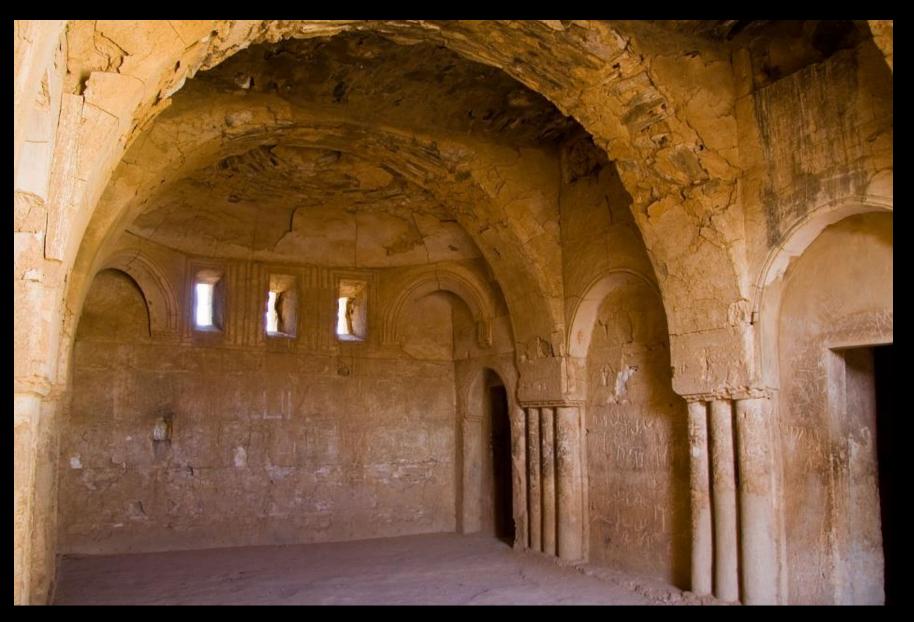


Petra



Wadi Dana





"Desert Castles" – Umayyad 7th-8th Centuries CE (Qasr Kharana)

Israel Field Trip









Jerusalem

Israel Field Trip





Jerusalem

Application Procedure

- ► Those interested in the field school must fill out an application and provide the following by Feb. 28:
 - General application form (to be downloaded from Dr. Bubel's web site at: http://people.uleth.ca/~bubest/)
 - Medical form (included with the application form)
 - Essay on why you wish to participate in the project
 - Transcripts
 - Letter of reference (form is included with the app. form)
 - \$200 Application Fee (to be deducted from the course fee)
- ▶ The team will be selected by March 10, 2023.

Course Requirements

- ARKY 1000 (and preferably a 3000-level ARKY course)
- Registration
 - Only those accepted to the field school will be able to register for ARKY 3400, 3000, and 3300
 - Students will fill out course forms to register for the field school
- Grade assessments for the courses are based on the quality of your field work, notebooks, assignments and examinations
- Hard work and teamwork

Costs (Estimated)

- ► Tuition
 - Three courses (Arky 3000, 3300, & 3400) = \$2213 CAN
- Airfare
 - Calgary/Tel Aviv/Calgary = +/- \$1850 CAN
- Room and Board
 - Apartment and Meals in Madaba = +/- \$2650 CAN
- Weekend Field trips
 - Within Jordan = +/- \$600 CAN
- After trip to Israel
 - Jerusalem and area = +/- \$750 CAN
- Spending Money
 - **-** +/- \$300
- Total Estimated Costs = +/- \$5850 (plus \$2213 tuition and spending money)

Student Loans and Funding

Student Loans

- Alberta student loans: Students can apply for student loans for the tuition for the field school courses (3 courses over 8 weeks).
- A portion of your airfare, field trip fees, living costs and supplies can also be covered by Alberta student loans.
- Please visit the Student Finance office for help with your application forms.
 - ► Ask for Janet Macdonald
- ► Global Skills Opportunity (GSO) Travel Award \$1500-2000
- Other Scholarships (individuals to apply for)
- Other Sources of Funding
 - Fundraising start asap

Risks, Safety, and Responsibility

- Excavation risks
 - Hot and dry
 - Scorpions, spiders, snakes
 - Large stones and baulks
 - Sharp equipment
 - Steep slopes
 - General risks
- International travel risks
 - General travel
 - Unrest in Jordan
- Students are responsible for their own personal safety
- Students must conduct themselves accordingly and respect the local laws and customs of Jordan
- Students must complete the Risk and Safety online course.

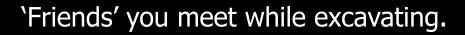
Hazards Living and Excavating in the Near East





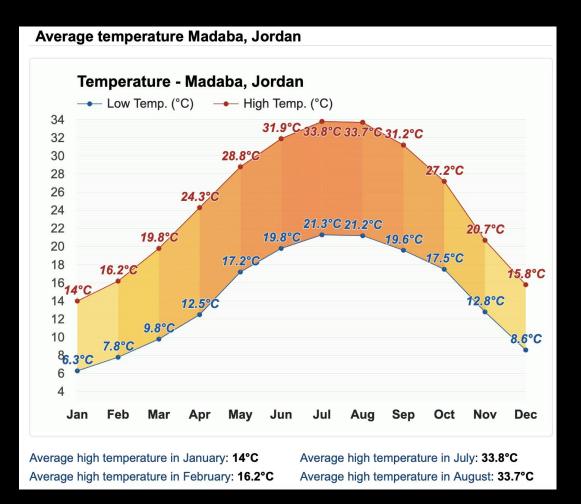








Temperature and Modesty





Start Arranging Now

- ► Application Package (Due Feb. 28, 2023)
- ▶ Deposit (\$200)
- ▶ Passport
 - Pick up at the post office
 - New requirements
- ► Health Insurance (Blue Cross)
- Student Loan Application
- After dig travel

Fun and Adventure

Working at an archaeological site is a lot of work but it is also a lot of fun.

► You will:

- Learn how to excavate, survey and process the archaeological remains
- Discover the past
- Work outside and be active
- Work as part of a team
- Explore another country
- Experience another culture

It is an experience you will never forget!



Friends for Life!

2019 Field School Students



2023 Field School Team???