

Indoor floors from Gien (8th-10th c. AD). Buildings materials, use of space and formation processes

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▶ To cite this version:

Quentin Borderie, Mélinda Bizri. Indoor floors from Gien (8th-10th c. AD). Buildings materials, use of space and formation processes. Integrated Microscopy Approaches in Archaeobotany (IMAA) - Workshop 2017, Feb 2017, Reading, United Kingdom. 2017. hal-01533661

HAL Id: hal-01533661

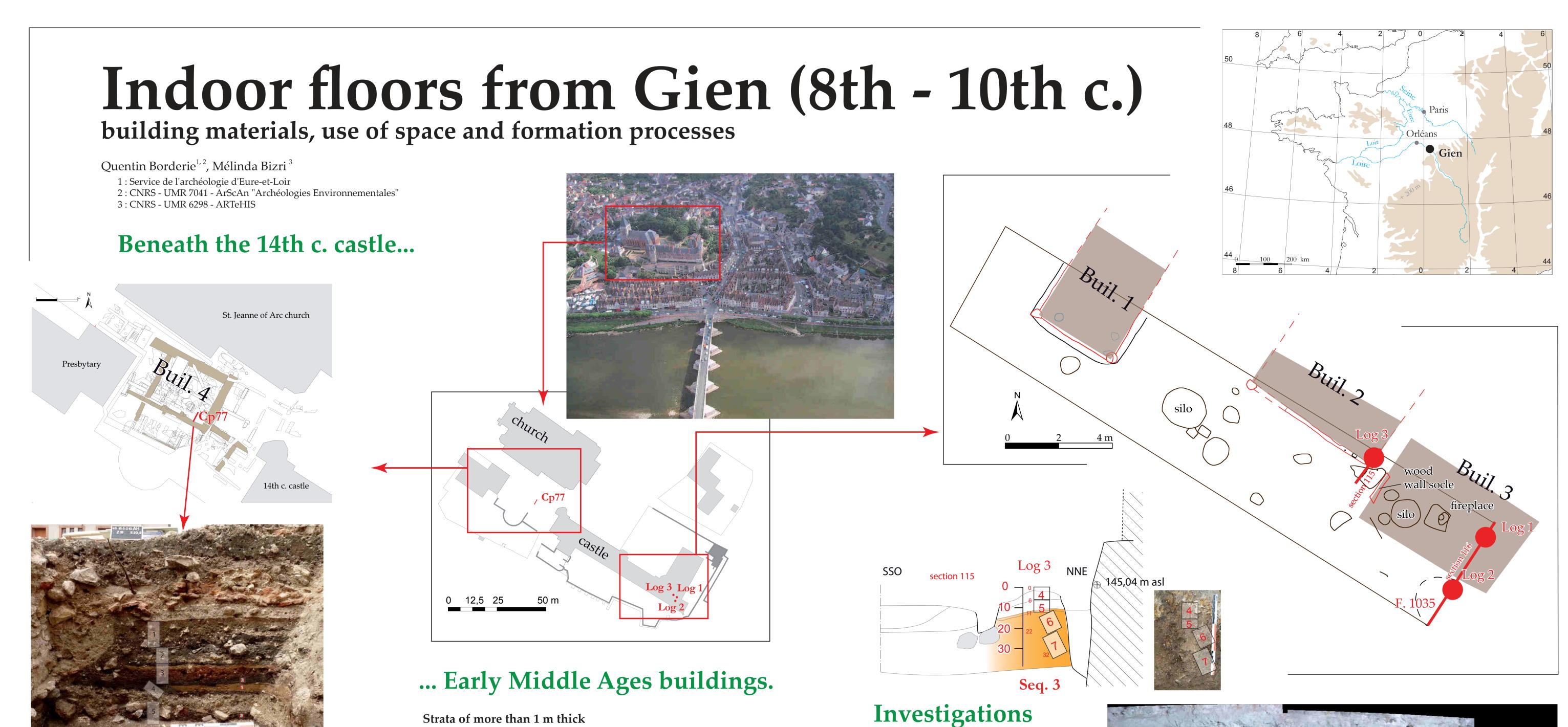
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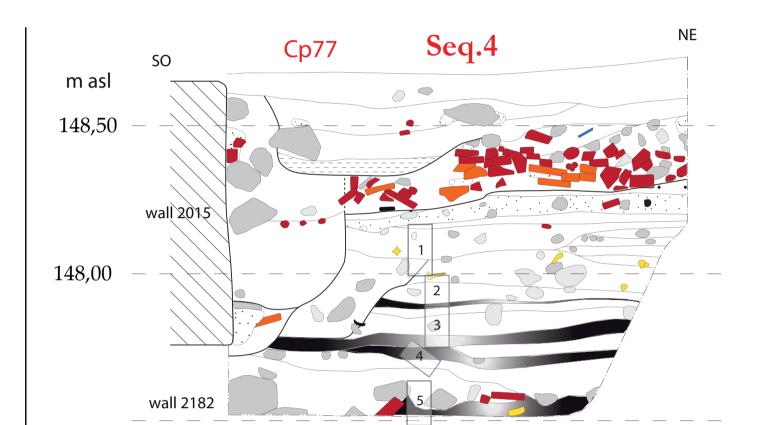
Submitted on 6 Jun 2017

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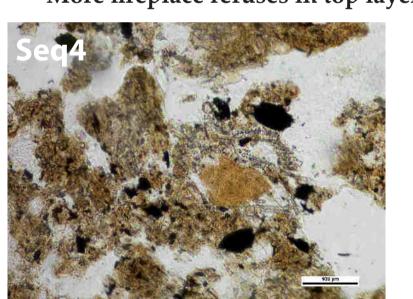


Sequence 4

- Refuses:

Thick floors - Only mineral building materials

- fireplace (11 μcontexts) - mixed (3 μcontexts) More fireplace refuses in top layers



Mineral building materials

Raw materials

Alluvial sand

alteration

Local marl

floors, waste

Local marl

Local alluvial sand

Carbonated clay from

Silts from BT horizon

of Luvisol (not local)

Local clay from chalk

Local alluvial sand

Fragments of other

Silts from BT horizon

of Luvisol (not local)

Complexity of building processes: non local raw materials

materials

clayish sand or sandy clay,

silty sand or sandy silt, not

not carbonated clay

carbonated clay (marl)

silty sand, dusty groundmass

carbonated clay (marl) with

silex, papules, charcoals...

Often rebuilt floors

Plant buil.mat.

fine charcoals

inclusions of clay, limestone,

carbonated

carbonated

chalk mortar

Ashes, phytoliths (PPL)

Type

am2a

am2b

am3

am4

am5

am6

am7

am1

Strata of more than 1 m thick Protected by clay backfills Wooden architecture (Buil. 1 to 3)

Archaeological interpretation:

Limestone architecture (Buil. 4)

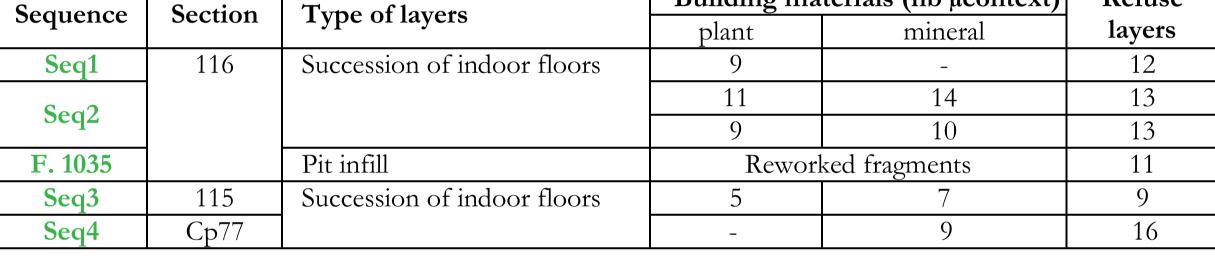
- high status ocupations: early castrum? - domestic houses and/or crafting areas

> Very good preservation Low degradation of OM -No bioturbation

Trampled floors Building materials (nb µcontext) Refuse layers plant mineral 12 9 13 14 10 13

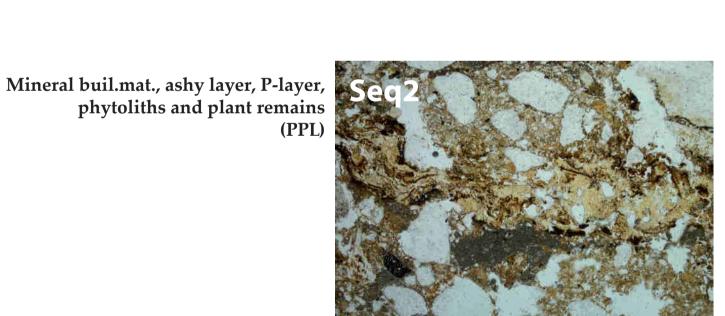
Only compaction &

subsidence of layers



4 occupation sequences (Seq1, Seq2, Seq3, Seq4)

1 pit infill (F.1035)



Occurrences

11+1 in Seq4

1 + frags in

1 + 3 in $\log 3$

F.1035

12

Sequence

Seq2.

Seq4

Seq2

Seq2

Seq2

Seq1

Seq3

Seq4

Seq2 (top)

Seq2 (top)

Dendritic phytoliths (PPL)

(bottom)

Seq2 (top)

Structure

Massive,

vesicles

Aggregates

homogenous

Packing of

aggregates

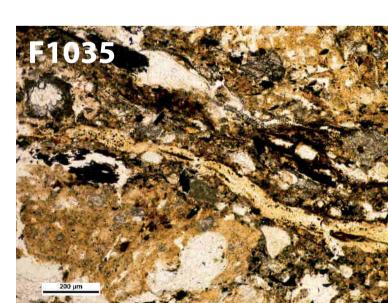
Massive,

homogenous,

(cracks), rares

planar voids

Dendritic phytoliths (PPL)



Reworked fragment of floor (PPL)

Sequence 1

Floors 5 - 10 mm thick: - Only plant building materials

4 logs : log1, log2, log3 and Cp77

114 micro-stratigraphic contexts (µcontexts)

20 thin sections 140x86 mm

Phytoliths analysis of log3

Chemical analysis of Cp77

(graminae phytoliths) - Refuses:

- cooking and faeces (5 μcontexts)
- fireplace (2 μcontexts) - building mat. (2 μcontexts)

Sequence 2

Floors 9 mm thick:

- Plant & mineral building materials
- Refuses: Northern part:
- fireplace (2 μcontexts) Southern part:

- cooking and faeces (11 μcontexts)

- cooking and faeces (7 μcontexts)
- fireplace (3 μcontexts)

- Fireplace refuses (1 μcontexts)

egg shell, fishbone

Floors of irregular thickness (partialy

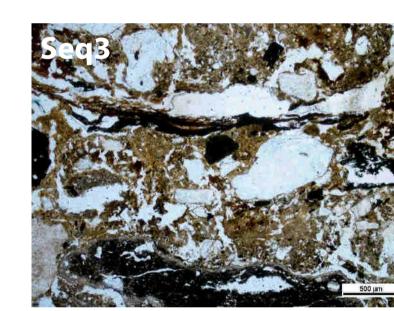
- Plant & mineral building materials

Log 1

Sequence 3

- Mixed refuses

reworked: Dark Earth):



Reworked frag. of floor (PPL)

Pit F.1035

F. 1035

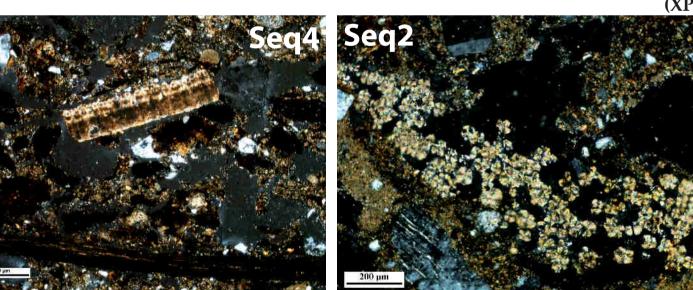
14th c. clay backfills

Only refuses:

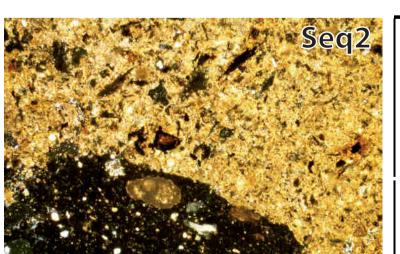
- Lower part: - ashy layers
- reworked floor fragments - building mat. - domestic refuses (cooking, feaces)
- **Upper part:** - ashy layers
 - building mat.
 - domestic refuses (cooking, feaces)

144,90 m asl ⊕

Corpolite with spherulites



Occupation refuses



Ashes wi

(11 <i>L)</i>								
			Texture, ground mass, structure	Minerals	Organic comp.	Anthropogenic	Features	Sequence
\$eq2	Fireplace	cleaning	Silty, layered to massive, homogenous, carbonated (micritic), dusty		Very fine charcoals	Melted silica. Rare fine bone frags		Seq4
500 µm			Silty, dusty,	Few flint frags	Lot of fine charcoals plant remains and phytoliths Lot of charcoals	Lot of bones Melted silica. Heated quartz. Heated earth aggregates	Ferruginisation	All seq
Ashes with melted silica (XPL)	Cooking / feaces		Silty to sandy silt, dusty, carbonated, layered, planar voids		Lot of fine charcoals Few phytoliths and plant remains Rare seeds	Egg shells, bones, fishbones. Pottery sherds. Ashy aggregates with bones Omnivorous coprolites Glass Clustered phytoliths	P-impregnations Vivianite	All seq
	Build.		Silty sand, massive, dusty	Fragments of flint, clay, limestone			-	All seq
	Reworked	floors	Layered massive aggregates: building material (plant and/or mineral) and refuse	Clay, silts	Phytoliths, plant remains	Heterogeneous waste	_	Seq3 F.1035



Type	materials	Organisation	thickness	Occurrences	Sequence				
av1	Phytoliths	Sub-horizontal µlayers	10 - 100 μm	13	Seq2, Seq3.				
av2	A lot of phytoliths.	Sub-horizontal µlayers of	100 μm -	9	Seq1				
	Very fine charcoals.	phytoliths and few layers of plant	3 mm						
		remains partially decayed							
av3	Many plant fragments	Sub-horizontal µlayers	200 μm –	13	Seq2				
	(leaves, rods), few		1,5 mm		Seq3				
	phytoliths								



Litters: smell? sanitation? recycling crop-processes refuses (wheat)?

Dedicated areas (fireplace)

Multiplicity of activities in one space **Intense frequentation**





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Reworking of layers leading to 'Dark Earth like' deposits

