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## Research Interests

Stone Tools for metalworking in the Atlantic Bronze Age

Main themes of research:

Tools of metalworkers (lithic and metallic) from the Atlantic Bronze Age

Metallurgy of the Bronze Age from the mining to the object

Image and position of the metalworker and the craftsman in the Bronze Age society

Lithic and metallic Hoard

From the nineteenth century, stone tools used for the plastic deformation of metals are reported and illustrated in the synthesis of the Bronze Age. Thus, Victor Gross in 1883 is probably the first researcher to publish an anvil stone still in block and discovery on the site Möringen Switzerland. However, these tools are attracting little attention from researchers who prefer their metal counterparts thereof.

In his workshop, the metallurgist uses a fairly varied tools compound tools and accessories terracotta (mold), wooden (mallet, block ...) bone, metal (mold, hammers, anvils) and stone (molds, hammers, anvils, abrasive tools ...).

Metal tools are only part of a larger whole. If to the Bronze Age, metal tools and stone molds are well understood, much less is known stone tools used for the plastic deformation of metals. However, they are present in all contexts (burials, deposit, workshop) of the European Bronze Age.

But just as the warrior, metallurgist prominently in Bronze Age societies, he is certainly one of the pillars. In addition, there appears different specialties (coppersmith, depth) whose position and status appear to have evolved from the Chalcolithic to the Iron Age.

So my research has two main goals:

- understand the lithic tools Metalworkers a functional point of view and replace it within the operating channels of the metal. Indeed, each hammer has a very specific form inducing a specific function it is stone, metal or wood. This is the morphology of the active part which indicates the function of the tool. The objective here is not to limit the study of the function, but to understand the entire tooling metallurgist and understand the role of different types of tools in the workshop .
- Present in all archaeological contexts (habitat, burial, deposit), lithic tools Metalworkers offer a global vision of the artisan and especially its place in societies Atlantic Bronze Age.

## Biography

*I graduated in June 2006 with a Master in Archaeology on Bronze Age metal tools as speciality from University of Toulouse. I commenced my PhD in October 2008 at the University of Burgundy (Dijon). For my PhD research, I decided to specialize in metalworking stone tools. I finished my PhD in December 2012. Since 2000, I did fieldworker in a lot of excavations in France, ranging from the Neolithic to the modern period, sometimes as a volunteer but also as a paid professional.*

*I am also particularly interested in the public dissemination of Archaeology and the History of arts and crafts. I had been working as tour guide since 2009, and since 2012 I have been a Lecturer Guide accredited by the Ministry of Culture and Communication for Picardy's "Villes d'Art et d'Histoire (Amiens, Beauvais)" tourist board through the Beauvais tourist office.*

## Research output

### **L'interprétation des sites de hauteur dans l'ouest de l'Irlande: l'exemple de Knocknashee (Sligo)**

Brandherm, D., McSparron, C., Boutoille, L. & Kahlert, T., 2021, *Méthodologie et interprétation des habitats. Actes du colloque de Lille, 2019*. Leroy-Langelin, E. & Lorin, Y. (eds.). Lille: Université de Lille, p. 19-34 (HABATA; vol. 2).

### **Excavation of Late Bronze Age roundhouses at Knocknashee, Co. Sligo: Preliminary results from the 2017 campaign**

Brandherm, D., McSparron, C. & Boutoille, L., 07 Nov 2020, In: *Emania*. 25, p. 152-162 11 p.

### **Eine funktionale Typologie frühmetallzeitlicher Schmiedegeräte aus Frankreich und seinen Nachbarländern**

Boutoille, L., 01 Jan 2019, In: *Archäologisches Korrespondenzblatt*. 49, 1, p. 41-56 16 p.

**Instrumentos líticos para a deformação plástica de metais do povoado calcolítico de Outeiro Redondo (Sesimbra)**  
Cardoso, J. L., Boutoille, L. & Brandherm, D., 01 Oct 2018, In: Estudos Arqueológicos de Oeiras. 24, p. 291-306

**Prehistoric hilltop settlement in the west of Ireland**

Brandherm, D., McSparron, C., Boutoille, L., Kahlert, T. & Bonsall, J., 2018, In: PAST – The Newsletter of the Prehistoric Society . 89, p. 1-3 3 p.

**Les outils en pierre du site de Cuciurpula (Corse)**

Boutoille, L. & Peche-Quillichini, K., 2016, (Accepted).

**The metalworking toolset found at Upton Lovell G2a, Wiltshire, England.**

Boutoille, L., 2016, (Accepted).

**Between a Rock and a Hard Place: choice, function and context of lithic tools in early metalworking on Europe's Atlantic façade**

Boutoille, L., 2015, *Annuaire des Recherches sur l'âge du Bronze: Nouvelles approches et perspectives: Actes de la journée d'étude de l'APRAB, 28 février 2014*. Nordez, M., Rousseau, L. & Cervel, M. (eds.). Nantes: l'APRAB, p. 151-152 2 p.

**Les techniques du dinandier: formes et fonction des outils lithiques spécifiques à la déformation plastique des métaux**

Boutoille, L., 2015, *Artisanats et productions à l'âge du Bronze: Actes de la journée de la Société préhistorique française: Nantes, 8 octobre 2011*. Boulud-Gazo, S. & Nicolas, T. (eds.). Nantes: l'APRAB, p. 83-96 13 p. (Seances de la SPF; vol. 2015, no. 4).

**Inventaire des outils lithiques de l'âge du Bronze découverts dans les Pays de la Loire**

Boutoille, L. & Boulud-Gazo, S., 2012, in : *Le Chalcolithique et l'âge du Bronze dans les Pays de la Loire,: PCR, bilan d'activité 2012, Nantes: PCR*. Nantes, p. 62-65 3 p.

**La lame polie de Barbio (communes des Aires)**

Boutoille, L., Grimal, J. & Dumont, E., 2012, In: Bulletin de la Société archéologique et historique des Hauts Cantons de l'Hérault. 35, p. 1-4 4 p.

**La lame polie de Champagnole « la Planchette » (Jura)**

Boutoille, L., 2012, *DUCREUX (F.) (ed.), Le site de Champagnole « la Planchette » (Jura), rapport de fouille*.

**The Coppersmith and the Caster: Thoughts on Irish stone casting mould hoards**

Boutoille, L., 2012, In: Ulster Journal of Archaeology. 71, p. 6-15 9 p.

**De l'épée du guerrier au racloir : l'outillage de seconde intention dans les dépôts métalliques du Bronze final atlantique en France trouvés en France**

Boutoille, L. & Milcent, P-Y., 2006.

## Activities

**Spezialisierungen in der Bronzezeit. Archäologische Quellen und Modelle**

Linda Boutoille (Participant)  
18 Sep 2016 → 21 Sep 2016

**The Metalworker and his Tools / Le métallurgiste et ses outils**

Linda Boutoille (Organiser)  
23 Jun 2016 → 26 Jun 2016

**International Union of the Prehistoric and Protohistoric Sciences (External organisation)**

Linda Boutoille (Member)

2016 → ...

**Craft and Production in the European Iron Age**

Linda Boutoille (Participant)

25 Sep 2015 → 27 Sep 2015

**Société Préhistorique Française (External organisation)**

Linda Boutoille (Member)

01 Sep 2015 → ...

**The Prehistoric Society (External organisation)**

Linda Boutoille (Member)

2015 → ...

**Société des amis d'Alain Testart (External organisation)**

Linda Boutoille (Member)

2014 → ...

**Du matériel au spirituel**

Linda Boutoille (Participant)

16 Oct 2008 → 18 Oct 2008

**Normes techniques et Pratiques sociales : de la simplicité des outillages pré-et protohistoriques**

Linda Boutoille (Speaker)

20 Oct 2005 → 22 Oct 2005

**Association pour la promotion des recherches sur l'âge du Bronze (External organisation)**

Linda Boutoille (Member)

2005 → ...