



PROCRAFT: project website

https://grand-patrimoine.loire-atlantique.fr/jcms/navigation/les-services/arc-antique/projet-procraft-fr-p2_324372

Call JPI-CH Conservation, Protection and Use 2019

Starting date: November 1st, 2020

Duration: 36 months



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PROCRAFT: project Summary

The Second World War (WWII) is often considered the golden age of military aviation, but this air war has left a large number of remains in the European soil and in the sea: this massive commitment has caused considerable human and material losses.



British Avro Lancaster bomber



Focke Wulf Fw-190 A-8

Examples of WWII aircraft (<https://www.dday-overlord.com/en/material/aviation>)

Even if WWII aircraft heritage has an undeniable historical and emotional value for Europeans, only recently these remains have officially entered the field of archaeology and cultural heritage conservation. Their presence in national museums is limited. They are often cared by numerous volunteers and associations.

However, the discovery of an airplane wreck is challenging from several points of view:

- its composition and materials,
- its history,
- its legal statutes,
- its size and condition.

PROCRAFT will face these challenges by connecting the multiple actors of the operational chain from recovery to exhibition. Scientists and associated partners (museums, associations, conservators, State representatives, mediators), from Italy, Czech Republic and France representing all the actors in this heritage chain, will pool and benefit from their joint expertise and capabilities.

Our purpose is to create innovative procedures and solutions for each key step in aircraft conservation:

- tailored techniques of conservation-restoration,
- smart coatings for outdoor protection respecting the requirements of cultural heritage safeguard,

- innovative solutions for preventive conservation in confined or semi-confined environments,
- guidelines for Al alloys restoration and conservation for non-professional actors.

The results of this project will:

- enhance and share knowledge about conservation of WWII aircraft, focusing particularly on the conservation of aluminium (Al) alloy components,
- contribute to its preservation,
- promote its dissemination and presentation to the public.

Participants:

Participant 1 – Coordinator

Grand Patrimoine de Loire-Atlantique – Arc’Antique (AA) – Nantes, France

https://www.loire-atlantique.fr/44/culture-et-patrimoine/arc-antique-le-laboratoire-de-conservation-restauration-du-patrimoine-archeologique/c_1278341

Participant 2

“A. Daccò” Corrosion and Metallurgy Centre University of Ferrara (UNIFE)

<http://www.unife.it/centro/corrosione>

Participant 3

Czech Technical University in Prague (CTU) - Prague, Czech Republic

<https://www.cvut.cz/en/welcome-to-ctu>

Participant 4

Centre national de la recherche scientifique - Centre d’élaboration de matériaux et d’études structurales (CEMES) – Toulouse, France

<https://www.cemes.fr>

Participant 5

University of Bologna (UNIBO)

Associate Partners

PA1: DRASSM (Marseille, France)

PA 2: DRAC Pays de Loire (Nantes, FRANCE)

PA 3: Toulouse Métropole (Toulouse, France)

PA 4: UNIWA (Athens, Greece)

PA 5: CIRIMAT-INP (Toulouse, France)

PA 6: LARA-Université de Nantes (Nantes, France)

PA 7: AEROSCOPIA (Toulouse, France)

PA 8: Musée de l’Hydraviation (Biscarosse, France)

PA 9: Musée de l’Air et de l’Espace (Bourget, FRANCE)

PA 10: Volandia (Somma Lombardo, Italy)

PA 11: Air Club & Fun (Argelato, Italy) <http://airclubfun.it>

PA 12: Museo Storico dell’Aeronautica (Bracciano, Italy)

PA 13: The Military History Institute Prague (Prague, Czech Republic)

PA 14: Ailes Anciennes (Toulouse, France)

PA 15: AEOROCHECERHE (Toulouse, France)

PA 16: ABSA (Châteaubriant, France)

PA 17: AEROSCOPE (Bouguenais, France)

PA 18: MFC (Paris, France)

PA 19 : Materia Viva (Toulouse, France)