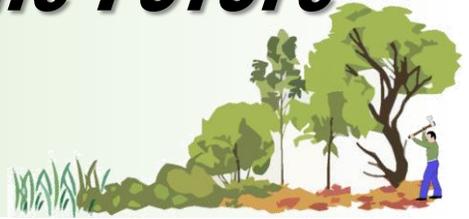


# *Historical Ecology for the Future*

International conference

Metz, France, 25<sup>th</sup> to 29<sup>th</sup> May 2020



## Conference highlights

The current and future states of ecosystems are strongly related to past processes. Historical socio-economic development of human societies, resulting land use and changes in climate had lingering consequences still altering the structure, composition, and functioning of today's ecosystems at various spatiotemporal scales. These historical legacies, both natural and anthropogenic, are thus shaping future ecological trajectories.

Increasing amount of research have deciphered the impacts of past ecological processes on modern-day ecosystems, which in turn, have fostered rapid improvement of management practices for the future. These new exciting insights, acquired from historical ecology, now appear paramount in order to mitigate potential deleterious consequences of socio-environmental stakes challenging ongoing and future states of the ecosystems.

**Historical Ecology for the Future** aims at promoting historical ecology and highlighting its recent advances and key results. Archeologists, biologists, ecologists, economists, geographers, historians, managers, paleoecologists, social scientists, soil scientists, among others dealing with historical ecology issues are welcome to join the conference to share and discuss their questions, data, and results.



Contact information:

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## Sessions

- 1. Historical heritage and conservation management:** Contribution of historical ecology to biological conservation and / or ecological restoration. Notions of “reference ecosystem”, degree of naturalness, resistance and resilience, adaptation to climate change and disturbance regimes, role of the human relationship with their environment, human perception of environment, etc.
- 2. Environmental resource exploitation:** Insights from past use and management of environmental resources into the understanding of the current state (soil, vegetation, biogeochemical fluxes) and sustainability of resources exploitation. Notions of thresholds, rates of harvesting, resources exploitation, overexploitation, sustainability, past and current practices, soil legacies, local products environmental characterization, etc.
- 3. Ecological dynamics:** Assessment of land and biodiversity dynamics in the past, current and future, at various spatial scales (from local to global), levels of organization (from genes to biome) and for all biota (including domestic and wild fauna, cultivated and wild flora, microbial communities). Notions of spatial or temporal ecological continuity, local adaptation, disturbance regimes, extinction debt and colonization credit, species migration and range shifts, diversification processes, etc.
- 4. Methods and tools in historical ecology:** Progress in analytical strategies and tools relevant for historical ecology (modelling, machine learning, GIS, LIDAR, meta-analyses, molecular ecology and ecological genomics, paleo-indicators, bio-indicators, methods of dating, environmental archaeology sources, new types of archives, etc.), updates in historical ecology concepts and terminology, contribution of social sciences, etc.

## Key dates

Call for abstract: **September-December 2019**  
 Registration open: **September 2019- February 2020**  
 Program announcement: **February 2020**

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