

EDITORIAL

Editorial-4th International Conference on Radiocarbon in the Environment (RE-IV)

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Dear readers,

We are pleased to present the proceedings of the 4th International Conference on Radiocarbon in the Environment (RE-IV), held from 22–27 September 2024 at the historic Carlo V Castle in Lecce, Italy.

Organized by the Applied Physics Group and CEDAD (Center for Applied Physics, Dating and Diagnostics) of the Department of Mathematics and Physics “Ennio De Giorgi” at the University of Salento, the conference gathered approximately 120 scientists from 20 countries. The scientific program included about 60 oral presentations and 70 posters across thematic sessions covering methodological advancements in accelerator mass spectrometry (AMS), paleo-environmental reconstructions, marine and tropical environments, and forensic applications.

The event also featured a dedicated scientific session at the Hotel Costa Brada in Gallipoli, followed by an excursion through the historic center of the same city.

The social dinner took place at Tenuta Castello Monaci, a structure whose roots date back to the 1500s nestled among ancient olive trees near Salice Salentino, where participants enjoyed its elegant architecture and fine local wines. The evening was enlivened by live music featuring traditional Salentine dances such as the “pizzica”.

These proceedings feature a selection of the presented contributions, reflecting the vibrant frontiers of radiocarbon research in environmental sciences. We extend our sincere thanks to all participants, speakers, the scientific committee, our generous sponsors, and the University of Salento for their hospitality, which masterfully blended history and innovation. We hope to see the community gathered again in 2027 in Prague for the next Radiocarbon in the Environment Conference, organized by Kateřina Pachnerová Brabcová and Ivo Světlík.

On behalf of the Organizing Committee,

Lucio Calcagnile and Gianluca Quarta

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Conference photos



Figure 1. The participants of RE-IV at Castle Charles V.



Figure 2. Attendees at the evening gathering.



Figure 3. The conference banquet.



Figure 4. Dancers perform at the conference venue.



Figure 5. Conference Chair Gianluca Quarta addresses the attendees. Co-chair Lucio Calcagnile is seated at left.



Figure 6. Conference Chairs Gianluca Quarta and Lucio Calcagnile present Timo Rhyner with the Best Singer award.



Figure 7. Conference attendees thank the Chairs and support staff at the closing of the conference.



Figure 8. The participants attended a scientific session at Hotel Costa Brada in Gallipoli.

Supplementary material. To view supplementary material for this article, please visit <https://doi.org/10.1017/RDC.2026.10240>

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