

## FROM THE EDITORS

The editors are pleased to present this special issue of *Radiocarbon*, which features papers presented at two international radiocarbon conferences. Both meetings took place in the summer of 2017.

The issue begins with part 2 of the proceedings of the 2nd International Radiocarbon in the Environment Conference, which was held July 3–7, 2017, in Debrecen, Hungary, and hosted by the Hungarian Academy of Sciences and the Hertelendi Laboratory of Environmental Studies – Atomki. Please see Volume 60(4), 2018, for part 1.

Also presented herein are the complete proceedings of the 2nd International Radiocarbon and Diet Symposium, which was held in Aarhus, Denmark, on June 20–23, 2017, and hosted by Aarhus University and the Aarhus AMS Centre.

*A.J. Timothy Jull*  
Editor

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*Mihály Molnár & Jesper Olsen*  
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## PREFACE—PROCEEDINGS OF RADIOCARBON AND DIET 2: AQUATIC FOOD RESOURCES AND RESERVOIR EFFECTS

Jesper Olsen • Bente Philippsen • Mette Alstrup Lie • Marie Kanstrup

Aarhus AMS Centre (AARAMS), Department of Physics and Astronomy, Aarhus University, Ny Munkegade 120, DK-8000 Aarhus C, Denmark.

In September 2014 the first international conference on Radiocarbon and Diet was held in Kiel, Germany. The first meeting was a great success and highlighted the importance for a specialized international conference on aquatic food resources and reservoir effects. Several staff members from AARAMS attended this meeting and decided that we should bid for the next meeting, the second international conference on Radiocarbon and Diet, to be held in Aarhus. The conference took place from the 20th to 23rd June 2017. It had 59 attendees from 20 countries, 38 oral and 14 poster presentations.

We would like to thank the invited plenary speakers Prof Julia Lee-Thorp, University of Oxford, Dr. Rick Schulting, University of Oxford, Prof Matthew Collins, University of York / University of Copenhagen and Dr. Nichola Whitehouse, Plymouth University for providing entertaining and excellent talks on “*Forays into the ‘C4 world’*,” “*The problems caused by people consuming foods past their sell-by date*,” “*Detecting archaeological collagen*,” and “*A time and place for everything; prehistoric land-use history and food production in early agricultural societies*.” The plenary talks set out a journey on the use of stable isotope diet reconstruction from the Plio-Pleistocene to the more recent past. They illustrated the importance of carbon and nitrogen stable isotopes, as well as more “exotic” stable isotopes such as sulfur and hydrogen, to estimate the contribution of food on  $^{14}\text{C}$  reservoir offsets—a journey from the molecular level of collagen to big data, including large-scale landscape and land-use history and food production in the past.

Thanks are also due to Ricardo Fernandes, CAU Kiel and Cambridge University for arranging the IsoMemo workshop. IsoMemo is a big data initiative, which brings together research groups and databases of stable and radioactive isotopes within the fields of archaeology. The workshop gave an introduction into the IsoMemo network and provided time for discussing how different topics such as data standards, user interfaces and data quality are dealt with.

We also wish to acknowledge our sponsors IonPlus, High Voltage Engineering (HVEE), National Electrostatics Corporation (NEC) and ThermoFisher Scientific. The contributions from our sponsors are greatly appreciated and helped us to bring down costs, not least to offer reduced student fees.

The scientific committee provided invaluable help and assistance with organizing all abstracts and arranging the scientific program of the conference. Thanks also go to our volunteers Ingrid Chanca and Johan Sandvang Larsen helping out with much of the practicals, as well as to our staff at the Aarhus AMS Centre for helping out with the lab tour. All played important roles during the conference.

Lastly, we would like to thank all the participants for giving life to the conference and for all the inspiring discussions. We witnessed a broad variety of topics, spanning from methodological advances, e.g. in compound-specific analysis of  $^{14}\text{C}$  and stable isotopes, to novel sampling methods, such as incremental isotope profiles on dentine. The importance of

baseline data collection was acknowledged as well as the complexity of dietary age offsets, including variations in the marine and freshwater reservoir effects. The analyses presented were combined with sophisticated numerical methods for diet reconstruction, other palaeoenvironmental methods, or with cultural-historical developments. Collaboration between different disciplines leads to new insights about the dietary history of individuals or entire populations, within an individual's lifetime or throughout millennia, within one city or spanning several countries.

The third international conference on Radiocarbon and Diet: Aquatic Food Resources and Reservoir Effects will be organized by Dr Rick Schulting, Institute of Archaeology, University of Oxford in 2020. With new developments in compound-specific stable isotope and radiocarbon methods, as well as the growing amount of research published on stable isotope diet reconstruction and  $^{14}\text{C}$  reservoir offsets, this forthcoming conference is very much anticipated.

The Organizing Committee  
*Jesper, Bente, Mette, and Marie*

**RADIOCARBON & DIET SCIENTIFIC COMMITTEE**

Philippa Ascough, University of Glasgow (SUERC)  
Elisabetta Boaretto, Weizmann Institute  
Linda Scott Cummings, Louisiana State University  
Gunilla Eriksson, Stockholms University  
Richard Evershed, University of Bristol  
Ricardo Fernandes, CAU Kiel & Cambridge University  
Irka Hajdas, ETH Zürich  
Jan Heinemeier, Aarhus University  
Sven Isaksson, Stockholms University  
Timothy Jull, Univ. of Ariz. & Institute for Nuclear Research, Hungary  
Marie Kanstrup, Aarhus University  
Yaroslav Kuzmin, Russian Academy of Sciences  
Kerstin Lidén, Stockholms University  
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John Meadows, ZBSA & CAU Kiel  
Peter H Mikkelsen, Aarhus University  
Jesper Olsen, Aarhus University  
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**AARAMS - Aarhus AMS Centre**  
Department of Physics and Astronomy, Aarhus University

**RADIOCARBON & DIET CONFERENCE PARTICIPANTS**

<b>Name</b>	<b>Institution</b>	<b>Country</b>
Andrade, Pedro	Universidad de Concepción	Chile
Andresen, Jens-Bjørn Riis	Aarhus University	Denmark
Arena, Fabiola	University of Ferrara	Italy
Bonafini, Marco	Royal Institute for Cultural Heritage – IRPA-KIK	Belgium
Claudi-hansen, Lone	Museum Vestsjælland	Denmark
Collins, Matthew	University of York, University of Copenhagen	Denmark
Cummings, Linda Scott	PaleoResearch Institute	United States
Dalby, Søren	Thermo Scientific	Denmark
Demirci, Özge	Arctic Center - University of Groningen	Netherlands
Dlamini, Nonhlanhla	University of Geneva	Switzerland
Dury, Jack	Stockholm University	Sweden
Engovatova, Asya	Institute of Archaeology, Russian Academy	Russian Federation
Eriksson, Gunilla	Archaeological Research Laboratory	Sweden
Etu-sihvola, Heli	University of Helsinki	Finland
Faivre, Sanja	University of Zagreb, Faculty of Science	Croatia
Fernandes, Ricardo	Cambridge & Kiel Universities	Germany
Fort, Matthew	Illinois State Archaeological Survey	United States
Hamann, Christian	Leibniz-Laboratory, Kiel University	Germany
Hammers, Neeke	Aarhus University	Denmark
Harris, Alison	Stockholm University	Sweden
Heinemeier, Jan	Aarhus University	Denmark
Johannsen, Niels	Aarhus University	Denmark
Korolev, Arkadii	Samara State University of Social Sciences and Education	Russian Federation
Kulkova, Marianna	Herzen State University	Russian Federation
Kusaka, Soichiro	Museum of Natural and Environmental History, Shizuoka	Japan
Kuzmin, Yaroslav	Sobolev Institute of Geology & Mineralogy	Russian Federation
Lee-Thorp, Julia	University of Oxford	United Kingdom
Legzdiņa, Dardega	University of Latvia, Inst. Latvian Hist.	Latvia
Lehn, Christine	Ludwig-Maximilians-University Munich	Germany
Leonidovna, Nina	Orenburg State Pedagogical University	Russian Federation
Lidén, Kerstin	Stockholm University	Sweden
Llewelin, Madison	Arctic Centre, University of Groningen	Netherlands
Lübke, Harald	ZBSA - Schloss Gottorf	Germany
Mannino, Marcello	Aarhus University	Denmark
Maring, Rikke	Aarhus University	Denmark
Meadows, John	Centre for Baltic and Scandinavian Archaeology	Germany
Michael, Dimitra	Institute of Nanoscience and Nanotech – Unit, NCSR “Demokritos”	Greece
Millard, Andrew	Durham University	United Kingdom
Mortensen, Martin	Danish National Museum	Denmark
Nielsen, Nina Helt	Museum Silkeborg	Denmark
Papin, Dmitriy	Altay State University	Russian Federation

<b>Name</b>	<b>Institution</b>	<b>Country</b>
Peyroteo Stjerna, Rita	Uppsala University	Sweden
Plankajs, Eduards	Institute of Latvian History, University of Latvia	Latvia
Pospieszny, Lukasz	Institute of Archaeology and Ethnology of the Polish Academy of Sciences	Poland
Ramsey, Christopher	University of Oxford	United Kingdom
Ritchie Andersen, Lone	Museum Midtjylland	Denmark
Rose, Helene	ZBSA, Schloss Gottorf	Denmark
Scharlotta, Ian	Aix Marseille Univ, CNRS, Minist Culture & Com.	France
Schulting, Rick	University of Oxford	United Kingdom
Seregin, Nikolai	Altai State University	Russian Federation
Sveinbjörnsdóttir, Árný Erla	Institute of Earth Sciences, University of Iceland	Iceland
Talamo, Sahra	Max Planck Institute for Evolutionary Anthropology Department of Human Evolution	Germany
Tishkin, Alexey	Altai State University	Russian Federation
Van Der Haas, Victoria	University of Alberta	Canada
van der Sluis, Laura	Queen's University Belfast	United Kingdom
Vybornov, Aleksandr	Samara State University of Social Sciences and Education	Russian Federation
Weber, Andrzej	University of Alberta/aix-Marseille Universite	France
Whitehouse, Nicki	Plymouth University	United Kingdom
Zariņa, Gunita	Institute of Latvian History, University of Latvia	Latvia





Participants of Radiocarbon and Diet 2: Aquatic Food Resources and Reservoir Effects. The conference was held in Aarhus, Denmark, June 20–23, 2017. (Photo courtesy of the conference organizers.)