

Monday 03 July 2017

8:30- Registration open

9:50-10:00 Opening

CLIMATE Session

10:00-10:30

Walter Kutschera (invited speaker)

The waxing and waning of Alpine glaciers - a sensitive climate proxy

10:30-11:00

Irka Hajdas (invited speaker)

Radiocarbon based chronologies of past and present climatic records—an overview

COFEE BREAK (11:00-11:30)

CLIMATE Session

11:30-11:50

Kita Macario

A palaeoenvironmental picture of the coast of Rio de Janeiro based on archaeological samples

11:50-12:10

Natalia Piotrowska

Radiocarbon dating of European red deer (*Cervus elaphus*) on the background of environmental conditions since the Late Pleistocene

12:10-12:40

Tibor Dunai (invited speaker)

In-situ ¹⁴C: methodological developments and applications

LUNCH (12:40-14:00)

INSTRUMENTATION Session

14:00-14:30

Hans-Arno Synal (invited speaker)

Improving Designs of Present and Future AMS Systems

14:30-15:00

Lucio Calcagnile (invited speaker)

The new gas ion source at CEDAD for ¹⁴C applications

15:00-15:20

Róbert Janovics

An easy way of sealed tube combustion for all kind of C-14 dating

COFFEE BREAK (15:20-16:00)

ANTHROPOGENIC Session

16:00-16:30

Pavel P. Povinec (invited speaker)

Radiocarbon and other anthropogenic radionuclides as tracers of nuclear processes in the environment

16:30-17:00

Jesper Olsen (invited speaker)

North Atlantic Ocean ¹⁴C bomb-pulse data from cod Otoliths

17:00-17:30

Vesa Palonen (invited speaker)

Determination of biobased carbon content in gaseous, liquid, and solid fuels with radiocarbon

**18:00 ICE BREAKER PARTY
& POSTER SESSION STARTS**

Tuesday 04 July 2017

MARINE Session

9:00-9:30

Quan Hua (invited speaker)

Oceanic ¹⁴C and implications for dating, ocean circulation and climate variability

9:30-9:50

Allen H. Andrews

Can red snapper live for half a century? Laser-ablation AMS reveals complete bomb ¹⁴C signal in an otolith

9:50-10:10

Christiane Yeman

Laser Ablation AMS for online ¹⁴C analysis of marine carbonates

10:10-10:30

Stewart Fallon

How to non-destructively age a protected fish with no otoliths, spines, or discernible scale annuli?

COFFEE BREAK (10:30-11:00)

MARINE Session

11:00-11:30

Ellen R.M.Druffel (invited speaker)
Dissolved Organic Carbon in the Deep Pacific Ocean

11:30-11:50

Galina Lujaniene
Carbon isotopes in Baltic Sea sediments

11:50-12:10

Carla S. Hadden
Carbon isotopes ($\delta^{13}\text{C}$ and $\Delta^{14}\text{C}$) in shell carbonate, conchiolin, and soft tissues in eastern oyster (*Crassostrea virginica*)

12:10-12:30

Jakub Kaizer
Distribution of radiocarbon in the western North Pacific Ocean after the Fukushima accident

LUNCH (12:30-14:00)

TREES Session

14:00-14:30

Lukas Wacker (invited speaker)
Benefits of annually resolved atmospheric radiocarbon concentrations derived from tree rings records

14:30-14:50

Mitsuru Okuno
Eruption age of the Haruna Futatsudake Pumice (Hr-FP) by ^{14}C wiggle matching

14:50-15:10

Guarciara M. Santos
Radiocarbon dating reveals growth ring patterns of *Cedrela* species from across the Amazon

15:10-15:30

Ekaterina Dolgova
Radiocarbon in tree-rings collected from medieval buildings in the mountain part of Ingushatia (Northern Caucasus, Russia)

COFFEE BREAK (15:30-16:00)



2nd International Radiocarbon in the Environment Conference Programme

3 - 7 July, 2017; Debrecen, Hungary

<http://c14env2017.atomki.mta.hu/>
14cenv2017@gmail.com

TREES Session

16:00-16:20

Adam Michczynski

Late Glacial atmospheric radiocarbon variations recorded in Scots pine (*Pinus sylvestris* L.) wood from Kwiatków, Central Poland

16:20-16:40

Ivan Kontuľ

Radiocarbon in modern tree-rings and atmosphere in Bratislava, Slovakia

16:40-17:00

Barbara Sensula

Bio-monitoring of industrial area in Silesia (Poland): trees' response to environmental changes

17:00-17:20

Yael Ehrlich

The untapped potential of olive pits from archaeological sites in reconstructing Mediterranean climate

17:20-17:50

Timothy Jull

Rapid carbon-14 excursions in the tree-ring record: A record of different kinds of solar activity?

POSTER SESSION CONTINUES (18:00-20:00)

Wednesday 05 July 2017

8:30-10:00 HEKAL AMS Lab tour

10:00 Conference tour (Hortobágy and Poroszló)

Thursday 06 July 2017

SOIL Session

9:00-9:30

Christine Hatté (invited speaker)
¹⁴C and soil carbon dynamics

9:30-9:50

Włodzimierz Margielewski
Landslide peat bogs (landslide fens) as a sensitive indicators of palaeoenvironmental changes in the Late Glacial and Holocene. Polish Outer Carpathians case study

9:50-10:10

Elizabeth Wiggins
Utilizing Radiocarbon as a Tool to Investigate Depth of Burn in Indonesian Peatlands

10:10-10:30

Yury G. Chendev
¹⁴C dating of Gray Forest soils for study of their development under climatic changes and long cultivation: Central Russian Upland

10:30-10:50

Elya Zazovskaya
The age of organic matter in soils developed on cryoconites within the retreat zone of the Aldegonda Glacier (Svalbard)*

COFFEE BREAK (10:50-11:20)

SOIL Session

11:20-11:40

Alexander Cherkinsky
Carbon and oxygen isotope composition in soil carbon dioxide within deep Ultisols at the Calhoun CZO, South Carolina, USA

11:40-12:00

Alexander Alexandrovskiy
Paleosols of Moskva River basin: chronology and paleoenvironment

12:00-12:20

Andrey Yurtaev
Formation of surface deposits of the Belyi Island (Kara Sea) during the Holocene

12:20-12:40

Dávid Molnár
Radiocarbon dated malacological and paleoecological records of Late Pleistocene loess-paleosol sequences from SW-Hungary

12:40-13:00

Sándor Gulyás

Revised chronology and sediment accumulation rates in thick loess-paleosol sequences of the southern Carpathian Basin using ^{14}C data

LUNCH (13:00-14:10)

FRESHWATER Session

14:10-14:40

Evelyn M. Keaveney (invited speaker)

Carbon source, quality and production rates drive carbon sequestration in a stratified, eutrophic lake

14:40-15:00

Jadranka Barešić

Tufa formation at Zrmanja and Krupa rivers, Croatia

15:00-15:20

Jean Pascal Dumoulin

Isotopic signature ($\delta^{13}\text{C}$, D^{14}C) of DIC in porewaters: an example from the Rhone River Delta

15:20-15:40

Nadine Tisnérat-Laborde

Seasonal evolution of carbon exchanges between the different compartments of carbon (DIC, DOC and POC) using carbon isotopes (^{12}C , ^{13}C and ^{14}C) in the Loire river basin

15:40-16:00

József Deák

Verification of C-14 groundwater dating using stable isotope palaeoclimate signals in SE Hungary

COFFEE BREAK (16:00-16:30)

WATER, SEDIMENT, KARST Session

16:30-17:00

Nada Horvatincic (invited speaker)

Radiocarbon in environmental and palaeoclimate investigations in the Dinaric karst

17:00-17:20

Israel Carmi

Dynamics of Water Soil storage in the Unsaturated Zone of Ashdod, Israel, traced by ^{14}C

17:20-17:40

Edwig Pons-Branchu

^{14}C in urban speleotherms-like deposits: a new tool for environmental study

17:40-18:00

Ulrich M. Hanke

Deciphering signatures of combustion in aquatic sediments

GALA DINNER 19:00

Friday 07 July 2017

ATMOSPHERIC Session

9:00-9:30

Sönke Szidat (invited speaker)

The importance of ¹⁴C for source apportionment of atmospheric aerosols

9:30-10:00

Xiaomei Xu (invited speaker)

Atmospheric ¹⁴CO₂ at Point Barrow, Alaska, from 2003 to 2016

10:00-10:20

Carlos A-Sierra

Time series decomposition of atmospheric radiocarbon values: trends, seasonality and forecast

10:20-10:40

Samuel Hammer

First evidence of decreasing atmospheric fossil fuel CO₂ in Heidelberg, Germany, based on long-term ¹⁴C measurements

COFFEE BREAK (10:40-11:10)

ATMOSPHERIC Session

11:10-11:40

Gianluca Quarta (invited speaker)

AMS-14C determination of the biogenic-fossil fractions in flue gases

11:40-12:00

Matthias Vonwiller

Isolation and ¹⁴C analysis of humic-like substances (HULIS) from ambient aerosol samples

12:00-12:20

Mihály Molnár

Advances in aerosol C-14 analyses using GIS at HEKAL AMS Laboratory



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CLOSING Session

12:20-12:30

A.J. Timothy Jull

Publication and Proceedings

12:30-12:50

Bids for the next conference

12:50-13:00

Mihály Molnár

Closing the conference

LUNCH (13:00-14:30)

TOKAJ FIELD TRIP (14:30) optional