

## Thursday, 22<sup>nd</sup> April

| <b>Authors</b>   | <b>Title</b>  |
|--|---|
| <b>Radiocarbon dating</b>  |   |
| 10:20 Natalia Piotrowska   | <b>New radiocarbon calibration curve and implications for age modelling</b>   |
| 10:40 Irka Hajdas and Adam Michczyński   | <b>Age-depth model of Soppensee record compared with varve chronology</b>   |
| 11:30 Andrzej Z. Rakowski  | <b>Research of the Suess effect</b>   |
| 11:50 Irka Hajdas, Danuta J. Michczyńska, Georges Bonani, Mantana Mauer, Sandra Iglesias, Christof Vockenhuber, Lucas Wacker | <b>Closed tubes preparation of graphite for high-precision AMS radiocarbon analysis</b>   |
| 12:10 Hogne Jungner  | <b>Carbon in the soil</b>   |
| 12:30 Michel Fontugne, Matthieu Carré, Ilhem Bentaleb, Michèle Julien, Danièle Lavallée                                      | <b>Impact of ENSO phenomenon on the prehistoric occupation and environment of Quebrada de los Burros in coastal southern Peru</b>   |
| <b>Luminescence dating</b>   |   |
| 14:30 Matthias Krebschek   | <b>Potassium-feldspar based radioluminescence dating of sediments: physical background, methods and application</b>                 |
| 14:50 Tobias Lauer, Matthias Krebschek, Manfred Frechen, Sumiko Tsukamoto  | <b>Assessing the potential of the post-IR yellow stimulated luminescence signal from K-feldspar for dating quaternary sediments</b> |
| 15:10 Ester Schmidt, Andrew S. Murray, Sirocko Frank, Sumiko Tsukamoto, Manfred Frechen                                      | <b>IRSL signals from Maar Lake sediments stimulated at various temperatures</b>   |
| 15:30 Christine Thiel, Jan-Pieter Buylert, Andrew S. Murray, Sumiko Tsukamoto  | <b>On the applicability of post-IR IRSL dating to Japanese loess</b>  |
| 16:20 Aleksandra Heer, Frank Preusser, Irka Hajdas, Heinz Veit, Jan-Hendrik May  | <b>Methodological aspects of dating lake shore deposits: case study from postglacial Lake Neuchatel, Switzerland</b>                |
| 16:40 Antoine Zink   | <b>A coarse Bayesian approach to evaluate luminescence ages</b>   |
| 17:00 Dragan Popov, Dmitri Vandenberghe, Slobodan Marković   | <b>Luminescence characteristics of fluvial and Aeolian sediments in the Tisa river valley in Vojvodina (N Serbia)</b>               |
| 17:20 Gabor Alida Timar, Dmitri  | <b>Further investigations on the optical age of fine silt (4-11 <math>\mu</math>m),</b>   |

Vandenbergh, Stefan Vasiliniuc,  
Cristina Panaiotu, Christian  
Panaiotu, Constantin Cosma

**coarse silt (35-50  $\mu\text{m}$ ) and fine sand (63-90  $\mu\text{m}$ ) quartz grains  
extracted from Romanian loess**

17:40 Wojciech T.J. Stankowski

**Luminescence and radiocarbon dating as tools for the  
recognition of extraterrestrial impacts**

## Friday, 23<sup>rd</sup> April

| Authors  | Title   |
|--|---|
| <b>Workshop lecture 1</b>  |   |
| 8:10 Andrzej Z. Rakowski   | <b>Investigations of atmosphere CO<sub>2</sub> with the application of <sup>14</sup>C and <sup>13</sup>C</b>  |
| <b>Different methods</b>   |   |
| 9:20 Piotr Szwarczewski, Tomasz Kalicki, Edyta Łokas, Anna Michno, Barbara Radwanek-Bąk, Jacek B. Szymańda, Przemysław Wachniew, Elżbieta Król                 | <b><sup>137</sup>Cs, <sup>210</sup>Pb, heavy metals and magnetic susceptibility as age indicators of Vistula river overbank alluvia near Kraków</b>                           |
| 9:40 Vladislav Kuznetsov, Fedor Maksimov, Zheleznov Alexei, Georgiy Cherkashov, Viktor Beltenev, Larisa Lazareva   | <b><sup>230</sup>Th/U chronology of hydrothermal ore formation at the Mid-Atlantic ridge</b>  |
| 10:00 Wojciech Tylmann, Dirk Enters, Małgorzata Kinder, Piotr Moska, Grzegorz Poręba, Bernd Zolitschka   | <b>Comparison of varve chronology and radiometric dating results (<sup>210</sup>Pb, <sup>137</sup>Cs and OSL) in recent sediments from Lake Łazduny, North-Eastern Poland</b> |
| 10:20 Bulat Khasanov   | <b>Stable nitrogen isotopes from peat deposit in Shemya Island (Aleutians): an indicator of human impact</b>  |
| 10:40 Leszek Starkel, Danuta J. Michczyńska, Anna Pazdur, Władzimir Margielewski, Marek Krąpiec, Dorota Nalepka  | <b>Holocene chrono-climatostratigraphy of Polish territory</b>  |
| <b>Environment 1</b>   |   |
| 11:30 Danuta J. Michczyńska, Irka Hajdas   | <b>Frequency distribution of <sup>14</sup>C ages for chronostratigraphic reconstructions: study case Alaska</b>   |
| 11:50 Kh.A. Arslanov, O.A. Druzhinina, L.A. Savelieva, D.A. Subetto, I.N. Skhodnov, P.M. Dolukhanov, G.F. Kuzmin, S.B. Chernov, F.E. Maksimov, S.V. Kovalenkov | <b>Geochronology of vegetation and paleoclimatic stages of South-East Baltic coast (Kaliningrad region) during Middle and Late Holocene</b>                                   |
| 12:10 Sławomira Pawełczyk, Anna Pazdur, Tatjana Boettger, Marika   | <b>Temporal stability of relationship between climate and stable</b>  |

Haupt, Marek Krąpiec, Elżbieta  
Szychowska-Krąpiec

isotope ratios in tree rings

12:30 Barbara Sensuła, Anna Pazdur

The influence of climate changes on glucose molecules and  
alpha-cellulose in tree-rings

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**Achievements of GADAM Centre fellows within the Transfer of Knowledge EU project  
ATIS**

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14:30-16:00

Anna Pazdur

Introduction

Adam Michczyński

**WP1 Task 1**

AMS dating of bone samples

Radiocarbon and varve chronology of lake sediments

Danuta Michczyńska

**WP1 Task 1**

Chronostratigraphical reconstructions – study case Alaska

Preparation of graphite for AMS radiocarbon analysis

Grzegorz Poręba

**WP1 Task2**

Behaviour of Cs-137 and Pb-210 in the soil profiles on the  
agricultural loess slope

Jarosław Sikorski

**WP1 Task 2**

Spatial variability of <sup>210</sup>Pb activity and calculation of sample age  
by alpha and gamma spectrometry

Piotr Moska

**WP2 Task 1**

Luminescence properties of single grain quartz to determine the  
history of a sample from the Sahara Desert

Grzegorz Adamiec

**WP2 Task 1**

Investigations of the TT OSL source trap

Jacek Pawlyta

**WP3 Task 1**

Routine calibration procedure for simultaneous H and O isotopic  
and elemental composition determinations by means of EA-IRMS

Jacek Pawlyta

**WP3 Task 1**

Isotopic and Elemental Investigations of Stążki Peat Bog, North  
Poland

**Saturday, 24<sup>th</sup> April**

| <b>Authors</b>  | <b>Titles</b>   |
|---|---|
| <b>Workshop lecture 2</b>   |   |
| 8:30 Grzegorz Adamiec   | <b>New techniques in OSL dating</b>   |
| <b>Environment 2</b>  |   |
| 9:40 Nataliya Zaretskaya, Natalia Shevchenko  | <b>Chronology of the North Dvina river Delta development over the Holocene</b>  |
| 10:00 Gyorgy Sipos, Timea Kiss  | <b>Time and rate of paleomeander formation: luminescence characteristics and OSL dating of fine and coarse grain point bar sediments</b>                                    |
| 10:20 Paula Alvarez-Iglesias, Alba M. Andrade, Ana Ares, Kais Jacob Mohamed, Belen Rubio, Daniel Rey, Ana M. Bernabeu, Frederico Vilas, Mariaelena Fedi, Lucia Caforio, Francesco Tacceti | <b>Sedimentation rates in the northwest Iberian margin during the last millennia</b>  |
| 10:40 Adam Michczyński, Włodzimierz Margielewski, Anna Pazdur, Piotr Kołaczek, Andrzej Obidowicz, Wojciech Adamus   | <b>Jesionowa landslide peat bog (Beskid Sądecki Mts., Polish Outer Carpathians) – record of the Meso- and Neoholocene paleoenvironmental changes</b>                        |
| <b>Environment 3</b>  |   |
| 11:30 Viktor Karmanov, Natalia Zaretskaya, Aleksei Chernov, Andrej Panin  | <b>Holocene environmental history of the Vychegda Valley population ways of investigation</b>   |
| 11:50 Radosław Dobrowolski, Paweł Witold Alexandrowicz, Irena Agnieszka Pidek, Stanisław Hałas, Anna Pazdur, Natalia Piotrowska, Alicja Buczek, Jerzy Melke, Michał Świder                | <b>Interdisciplinary studies of spring mire deposits from Radzików (South Podlasie Lowland, East Poland) and their significance for palaeoenvironmental reconstructions</b> |
| 12:10 Ewa Smolska   | <b>Relation between radiocarbon and archaeological dating and sediment properties on the example of colluvial deposits (NE Poland)</b>                                      |

Nadine Tisnerat-Laborde, Martine Paterne, Bernard Metivier,  
12:30 Maurice Arnold, Pascal Yiou, Dominique Blamart, Stéphane Raynaud

**Sea surface variability of  $\Delta^{14}\text{C}$  in the North East Atlantic and the North Atlantic Oscillation**

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### Archaeology

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14:30 Sophie Blain, Daniel Prigent, Philippe Lanos, Christine Oberlin, Pierre Guibert, Christian Sapin, Armel Bouvier, Philippe Dufresne

**Dating methods (TL,  $^{14}\text{C}$ , archaeomagnetism) applied to building archaeology: the case of the bell tower of St Martin's church, Angers (France)**

14:50 Natalia Shishlina, Elya Zazovskaya, Hans van der Plicht

**Radiocarbon dating of bone hammer-headed pins of the Bronze Age**

15:10 Zaytseva G.I., Skakovskii E.D., Dolukhanov P.M., Shukurov A., Kovaliukh N.N., Skripkin V.V., Glavatskay E.

**The composition of carbon-containing materials from the pottery dated by  $^{14}\text{C}$  method: preliminary study**

15:30 Kuc T., Róžański K., Kotarba M.J., Goslar T., Kubiak H.

**Radiocarbon dating of woolly rhinoceroses and plant remnants in Pleistocene sediments from Starunia (the Velyky Lakavets river valley, SW Ukraine)**

15:50 Zaytseva G.I., Trifonov V.A., Plicht H., Bourova N.D., Bogomolov E.S., Sementsov A.A, Jungner H., Sonninen E.

**$^{14}\text{C}$  dates from dolmen "Kolikho" in the Western Caucasus**

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# Posters

| Authors  | Titles   |
|--|--|
| 1. Barta Peter, Bóna Martin,<br>Đuriaová Marcela, Urbanová Nora,<br>König Tomá                                   | <b>Dendrochronological investigations of town walls in Sabinov and Kosice, Eastern Slovakia</b>  |
| 2. Barta Peter, Cuteková Jana,<br>Kalábková Pavlína  | <b>Lengyel Culture <sup>14</sup>C Dating in Slovakia and Moravia: import of dates from Austria?</b>  |
| 3. Begy Robert, Timar Gabor Alida,<br>Somlai J, Cosma Constantin   | <b>A sedimentation study of St. Anna Lake (Romania) applying the <sup>210</sup>Pb and <sup>137</sup>Cs dating methods</b>  |
| 4. Benyhe Balázs, Sipos György,<br>Kiss Tímea  | <b>Chronology of past aeolian activities at an archaeological site: relationship of human impact and environmental change</b>  |
| 5. Blättermann Maik  | <b>IRSL Dating of Loessic Sediments from the Land of Seven Rivers in Kazakhstan</b>  |
| 6. Bolka Monika, Krąpiec Marek   | <b>Ujście, site 5. Absolute dating on the basis of dendrochronological and radiocarbon analyses</b>  |
| 7. Borówka Ryszard Krzysztof, Cedro<br>Bernard   | <b>Holocene marine transgressions in the coastal zone of Pomeranian Bay based on radiocarbon data</b>  |
| 8. Burda Jolanta   | <b>International structures and dating of complex zircons from high Tatra massif granodiorites, Poland</b>   |
| 9. Dzieduszyńska Danuta, Petera-<br>Zganiacz Joanna  | <b>Subfossil trunk horizon in deposits of the Warta River valley based on <sup>14</sup>C dating (Middle Poland)</b>  |
| 10. Cordier Stéphane, Mietton Michel,<br>Frechen Manfred, Sumiko<br>Tsukamoto                                    | <b>OSL dating of aeolian sands from the Ankarokaroka lavaka (NW Madagascar)</b>  |
| 11. Derese Cilia, Vandenberghe<br>Dimitri, Zwertvaegher Ann,<br>Verniers Jacques, van den Haute<br>Peter         | <b>The timing of prehistoric landscape evolution around archaeological settlements near the Moervaart depression (N Belgium): a high-resolution dating study using optically stimulated luminescence</b> |
| 12. Engovatova A.V., Zaitseva G.I.,<br>Antipina E.E., Dobrovolskaya<br>M.V., Likhova O.V., Burova N.D.           | <b>The first isotope studies of bone samples from medieval Yaroslavl</b>   |
| 13. Fontugne Michel, Guichard<br>François, Bentaleb Ilham,<br>Lericolais Gilles                                  | <b>Influence of photosynthetic versus chemoautotrophic production on variations of radiocarbon reservoir ages of black sea waters and sedimentary organic carbon</b>                                     |
| 14. Gaigalas Algirdas, Pazdur Anna,<br>Michczyński Adam, Pawlyta Jacek,<br>Vainorius Julius, Saarmann<br>Simonas | <b>The Holocene oxbow lakes and river valleys deposits and their geochronology in Lithuania</b>  |

15. Gaigalas Algirdas, Pazdur Anna, Michczyński Adam, Pawlyta Jacek, Kleismantas Arunas, Melesyte Monika, Rudnickaite Eugenija, Kazakauskas Vaidotas, Vainorius Julius **Peculiarities of sedimentation conditions in the oxbow lakes of river Dubysa (Lithuania)**
16. Glavatskaya E.V., Kovaliukh N.N., Krapiec M., Skripkin V.V. **Radiocarbon reservoir effect of the ecosystems of the rivers Prypet, Dniepr, and Vistula**
17. Goedicke Christian **Dating mortar by optically stimulated luminescence**
18. Jaśkowski B., Olszak I.J., Kowalski B.J., Kasprzyk A. **Positive anomalies of radioactive isotopes  $^{238}\text{U}$ ,  $^{232}\text{Th}$ ,  $^{40}\text{K}$  as an indicator of the course of tectonic faults in the Świętokrzyskie mountains**
19. Kabacińska Zuzanna, Nawrocka Danuta, Dobosz Bernadeta, Krzyminiewski Ryszard **EPR investigation of archaeological mortars from Hippos**
20. Kalińska Edyta **Stratigraphy of sand deposits from the southern and eastern margin of the Middle Mazovian Lowland based on sedimentological analysis and OSL-dating**
21. Koeniger Paul, Wacha Lara, Thiel Christine, Ostertag-Henning Christian, Scheeder Georg, Novothny Ágnes, Bajnóczy Bernadett, Horváth Erzsébet, Techmer Astrid, Frechen Manfred **Evaluation of bulk carbonate stable isotope composition from the Süttő loess sequence (Hungary) - What can we interpret with an existing chronology?**
22. Król Elżbieta, Szwarczewski Piotr **Magnetic susceptibility of sediments as an indicator of the dynamics of geomorphological processes**
23. Kusiak Jarosław, Rychter Mariusz, Stasiak-Cyran Marta **Attempts at thermoluminescence dating of fired objects**
24. Kusiak Jarosław, Łanczont Maria, Boguckij Andrij B., Madeyska Teresa **Problems of TL dating of the Mesopleistocene loess deposits in the Podolia and Pokucie regions (Ukraine)**
25. Lauer Tobias, Frechen Manfred, Hoselmann Christian, Krbetschek Matthias, Tsukamoto Sumiko, Weidenfeller Michael **OSL- and Infrared Radiofluorescence (IR-RF) dating of Upper- and Middle Pleistocene fluvial units from the Heidelberg Basin, Southern Germany**
26. Lauer Tobias, Bonn Rainer, Frechen Manfred, Fuchs Magret, Trier Marcus, Tsukamoto Sumiko **Geoarchaeological studies on Roman time harbour sediments in Cologne - A comparison of different OSL dating techniques**
27. Adamiec Grzegorz, Gibbard Philip, Leszczyńska Karolina, Moska Piotr, Wintle Ann G. **Optically stimulated dating of the Pleistocene glacial deposits in the Danbury-Tiptree area, Essex, England**

28. Ludwikowska-Kędzia M., Olszak I.J. **Paleogeographic implications of TL dating of genetically different Quaternary sediments in the central part of the Holy Cross Mountains**
29. Łanczont Maria, Boguckij Andrij B., Kusiak Jarosław **New exposure of loess deposits in Bojanice (Ukraine), the results of thermoluminescence analyses**
30. Łanczont Maria, Boguckij Andrij B., Kusiak Jarosław, Sytnyk Aleksandr **The results of thermoluminescence dating in the Halyč IIC profile (Ukraine) as the expression of the conditions of mineral material deposition**
31. Maksimov Fedor, Laukhin Stanislav, Kuznetsov Vladislav, Arslanov Khatkm, Shilova Galina **First  $^{230}\text{Th}/\text{U}$  date of Middle Pleistocene peat bog**
32. Maksimov Fedor, Kuznetsov Vladislav, Zaretskaya Nataliya, Subetto Dmitri, Zherebtsov Igor, Levchenko Snezhana, Shebotinov Valeriy, Kuznetsov Denis **The  $^{230}\text{Th}/\text{U}$  and  $^{14}\text{C}$  dating of middle valdai (middle würm) deposits from the north-western Russia**
33. Margielewski Włodzimierz, Michczyński Adam, Obidowicz Andrzej **Records of the middle and late Holocene palaeoenvironmental changes in the Pcim-Sucha landslide peat bog**
34. Mazeika Jonas, Bauziene Ieva, Skuratovic Zan **Fallout caesium-137 in deluvial deposits as tracer of soil erosion processes - a case study from Daugai environs, southern Lithuania**
35. Moska Piotr, Bluszcz Andrzej, Murray Andrew **Single grain quartz OSL dating of the Neolithic hearth**
36. Moska Piotr, Adamiec Grzegorz, Jary Zdzisław **New OSL dates and lithological characteristics of loesses from Biały Kościół**
37. Olszak I.J., Florek W., Mystkowska A. **The age and origin of the quaternary sediments of the eastern part of the Orzechowski cliff**
38. Pawlyta Jacek, Lamentowicz Mariusz **Age-Depth Model For Modern Peat Core. Methodological Approach**
39. Pawlyta Jacek, Piotrowska Natalia, Bałdys Piotr, Djapić Nina **Simple Device For Injections of Gaseous Samples To CF-IRMS System**
40. Pazdur Anna, Bałdys Piotr, Pawełczyk Sławomira, Sensuła Barbara, Krąpiec Marek **Carbon, oxygen and hydrogen isotopes in pine and oak tree rings from Poland as climatic indicators**
41. Petera-Zganiacz Joanna, Adamiec Grzegorz **The age of the Warta river valley deposits based on  $^{14}\text{C}$ , TL, OSL dating methods (Kotlina Kolska, Middle Poland)**
42. Petera-Zganiacz Joanna, Olszak Ireneusz **Chronostratigraphy of sediments of the Koźmin glacial lake (Central Poland)**

43. Piotrowska Natalia, De Vleeschouwer François, Sikorski Jarosław, Fiałkewicz-Kozieł Barbara, Sensuła Barbara **Age models of peat deposits on the basis of coupled  $^{210}\text{Pb}$  and  $^{14}\text{C}$  data**
44. Poręba Grzegorz, De Vleeschouwer François, Sikorski Jarosław **Tracking Chernobyl fallout in Eastern Belgium based on the peat record**
45. Poręba Grzegorz, Śnieszko Zbigniew, Moska Piotr **Study of Anthropogenic Denudation of Loess in Poland**
46. Prokop Paweł, Poręba Grzegorz **Soil erosion in the subtropical agricultural catchment North East India**
47. Przegiętka Krzysztof, Chruścińska Alicja, Oczkowski Hubert L., Wysota Wojciech, Sokołowski Robert Jan **Analysis of OSL ages obtained for sand sediments of various origins deposited in the Wielkopolska Lowland, western Poland**
48. Weckwerth Piotr, Przegiętka Krzysztof, Chruścińska Alicja, Woronko Barbara, Oczkowski Hubert L. **Age and sedimentological features of Vistulian fluvial series in the Toruń Basin (Poland)**
49. Rakowski Andrzej, Nakamura Toshio, Pazdur Anna, Piotrowska Natalia **Anthropogenic emission of carbon dioxide in urban area**
50. Sanjuro Sanchez Jorge, Fernandez Mosquera Daniel **Luminescence Dating o lime mortars from ancient buildings**
51. Schmidt Christoph, Rufer Daniel, Pettke Thomas, Preusser Frank, Hilgers Alexandra **Determining dose rate distribution patterns in flint using autoradiography and LA-ICP-MS**
52. Sipos György, Papp Szilárd **Thermoluminescent dating of terracotta artefacts, Museum of Fine Arts, Hungary**
53. Sensuła Barbara, Douville Eric, Salle Eline, Frank Norbert, Bordier Louise, Bahain Jean-Jacques, Falgueres Christophe, Fontugne Michel **U-Th dating of ancient bones using Inductively Coupled Plasma-Quadrupole Mass Spectrometry, ICP-QMS**
54. Sokołowski Robert Jan, Fedorowicz Stanisław, Moskalewicz Damian **Stratigraphical position of the pleistocene sandy deposits in the Chłapowo Cliff section, N Poland, based on TL dating - preliminary results**
55. Thamó-Bozsó Edit, Csillag Gábor, Fodor László, Müller Pál Mihály, Nagy Attila **OSL dating on quartz in the north-eastern Transdanubian Central Range (Hungary)**
56. Tudyka Konrad and Pazdur Anna **Radiocarbon dating of peat profile with metallurgy industry evidence**

57. Vasiliniuc Stefan, Timar Gabor  
Alida, Vandenberghe Dimitri,  
Panaiotu Cristina, Panaiotu  
Cristian, Cosma Constantin  
**A high resolution optical dating study of Mostiștea (South East  
Romania) loess palaeosol sequence using quartz**
58. Wilkosz Paweł, Przegiętka  
Krzysztof, Chruścinska Alicja,  
Oczkowski Hubert L.  
**Litho- and Chronostratigraphy of the Pleistocene deposits in the  
eastern Wielkopolska region**
59. Wojciech Wysota, Robert Jan  
Sokołowski, Przegiętka Krzysztof,  
Oczkowski Hubert L.  
**On the age and origin of Pleistocene deposits in the area of the  
maximum extent of the Weichselian glaciation in western Poland**
60. Zazovskaya E., Chichagova O.,  
Osokin N.  
**The new radiocarbon data in the terraces soils of fjords on West  
Spitsbergen**