

EUROPEAN POLLEN DATABASE



European Pollen Database
Meeting and
training workshops
1-3.06.2016

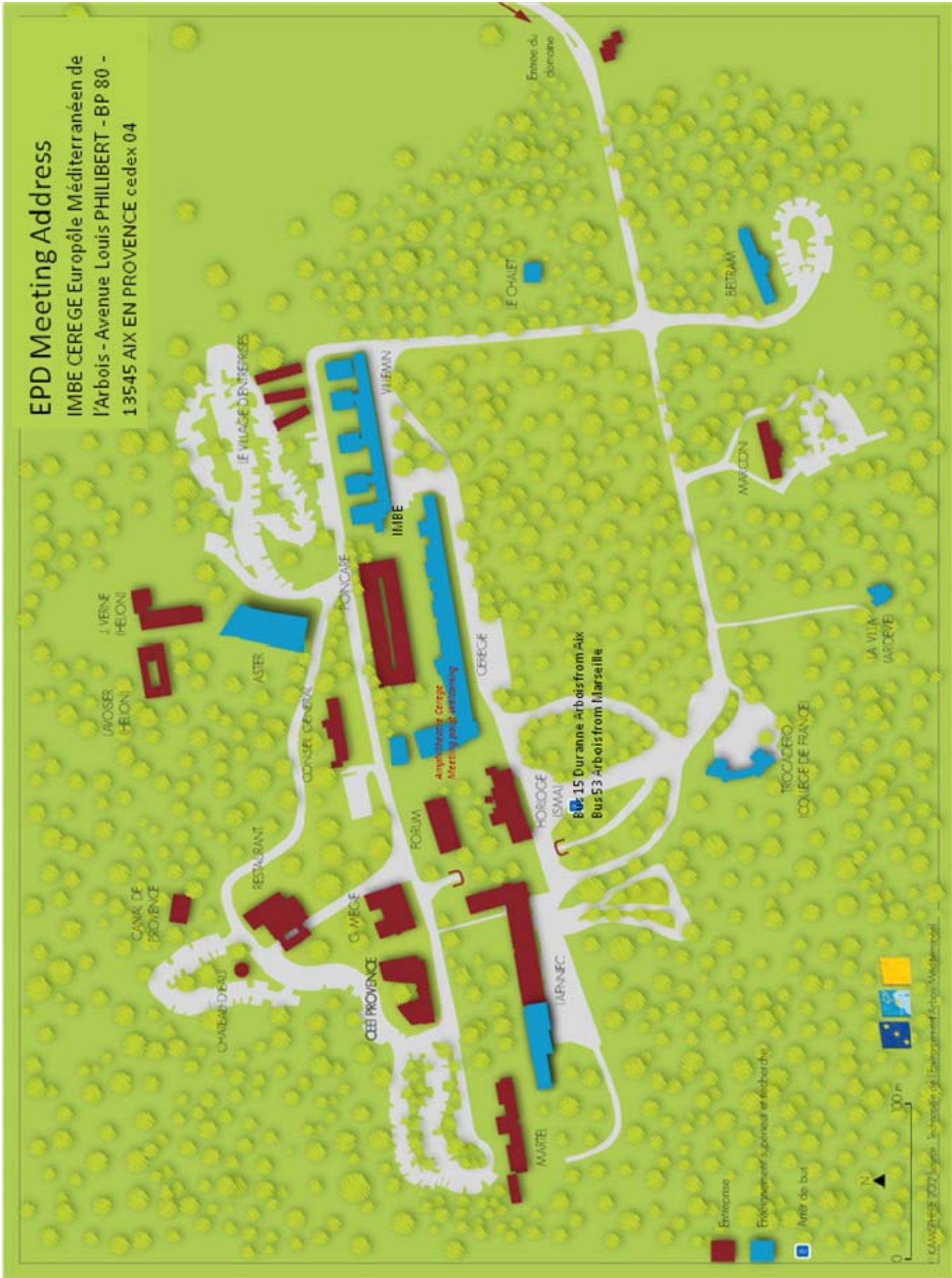
IMBE/CEREGE

Europôle Méditerranéen de l'Arbois

Avenue Louis Philibert, BP 80

13545, AIX EN PROVENCE, cedex 04 France

Map of the EPD Meeting



INTRODUCTION

The European Pollen Database (EPD) is an important research and educational tool as well as data repository. Its usefulness requires contributions from the palaeoecological community, while providing a useful resource. This interaction between data producers and users was discussed at an open meeting in Aix-en-Provence in 2007 and led to a new open structure in its development and administration. The initial burst of activity has declined and one purpose of this meeting is to create new momentum, interest scientists in supporting and working with the EPD, while educating palaeoecologists how to use the EPD in their own research and teaching more effectively.

Organising Committee

Michelle Leydet
Thomas Giesecke
Jacques-Louis de Beaulieu
Morteza Djamali
Maryse Alvitre
Cecile Langlois
IMBE Team



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 *Timetable*

EPD Meeting Program

01.-03.06.2016 Aix en Provence

01.06. Wednesday

9:00 – 9:00 Arrival, Registration, Poster placement

9:30 -10:30 Welcome, State of the EPD, past and current activities and scope of this meeting

Speakers: *Jacques-Louis de Beaulieu, Michelle Leydet, Richard Bradshaw, Thomas Giesecke*

10:30-11:00 Coffee

11:00 – 11:30 *Joël Guiot*: Holocene vegetation and climatic changes in the Mediterranean area and comparison with global warming projections

11:30 – 12:00 *Marie José Gaillard*: Pollen-based quantitative reconstructions of past land cover for climate modelling: contribution to the PAGES LandCover6k initiative.

12:00 – 12:30 *Chronis Tzedakis*: Long pollen sequences and their chronological framework: confessions of a 'wiggle-matcher'

12:30 – 13:00 *Eric Grimm*: Neotoma Paleoecology Database: Community-led Cyberinfrastructure for Global Change Research

13:00 – 14:00 Lunch

14:00 – 16:00 Plenum and Group discussions

16:00-16:30 Coffee

16:30 –17:30 Poster flash – One-minute poster presentations

17:30 – ~21:00 Poster session /Ice breaker with drinks and food

02.06. Thursday

9:30 – 10:00 *Ralph Fyfe*: Human impacts on vegetation: from the local scale to continental synthesis

10:00 – 10:30 *Boris Vannièrè & Daniele Colombaroli*: The Global Paleofire Working Group and the Global Charcoal Database: review and new insights

10:30-11:00 Coffee

11:00 – 13:00 Parallel workshops

- | | |
|--|---|
| 1. Tilia and Neotoma | <i>Eric Grimm</i> |
| 2. Charcoal software and database | <i>Boris Vannièrè, Walter Finsinger</i> |
| 3. Surface samples | <i>Basil Davis</i> |
| 4. LRA: PPEs, REVEALS, LOVE | <i>Petr Kuneš, Martin Theuerkauf</i> |
| 5. Help in pollen and NPP identification | <i>Benjamin Dietre, Steffen Wolters</i> |
| 6. Using the EPD with 'R' | <i>Alistair Seddon, Joseph Chipperfield</i> |
| 7. Age depth modelling | <i>Thomas Giesecke</i> |

13:00 – 14:00 Lunch

14:00 – 16:00 Parallel workshops continue

16:00-16:30 Coffee

16:30 – 18:30 Plenum and Group discussions

03.06. Friday

9:30 – 10:00 *Maria Fernanda Sanchez Goñi*: The ACER pollen database: vegetation response to the abrupt changes of the last glacial

10:00 – 10:30 *Richard Bradshaw*: Use of pollen data to set targets for nature conservation

10:30-11:00 Coffee

11:00 – 11:30 *Thomas Giesecke*: Using the EPD to explore the postglacial vegetation dynamics of Europe

11:30 – 13:00 Plenum discussions

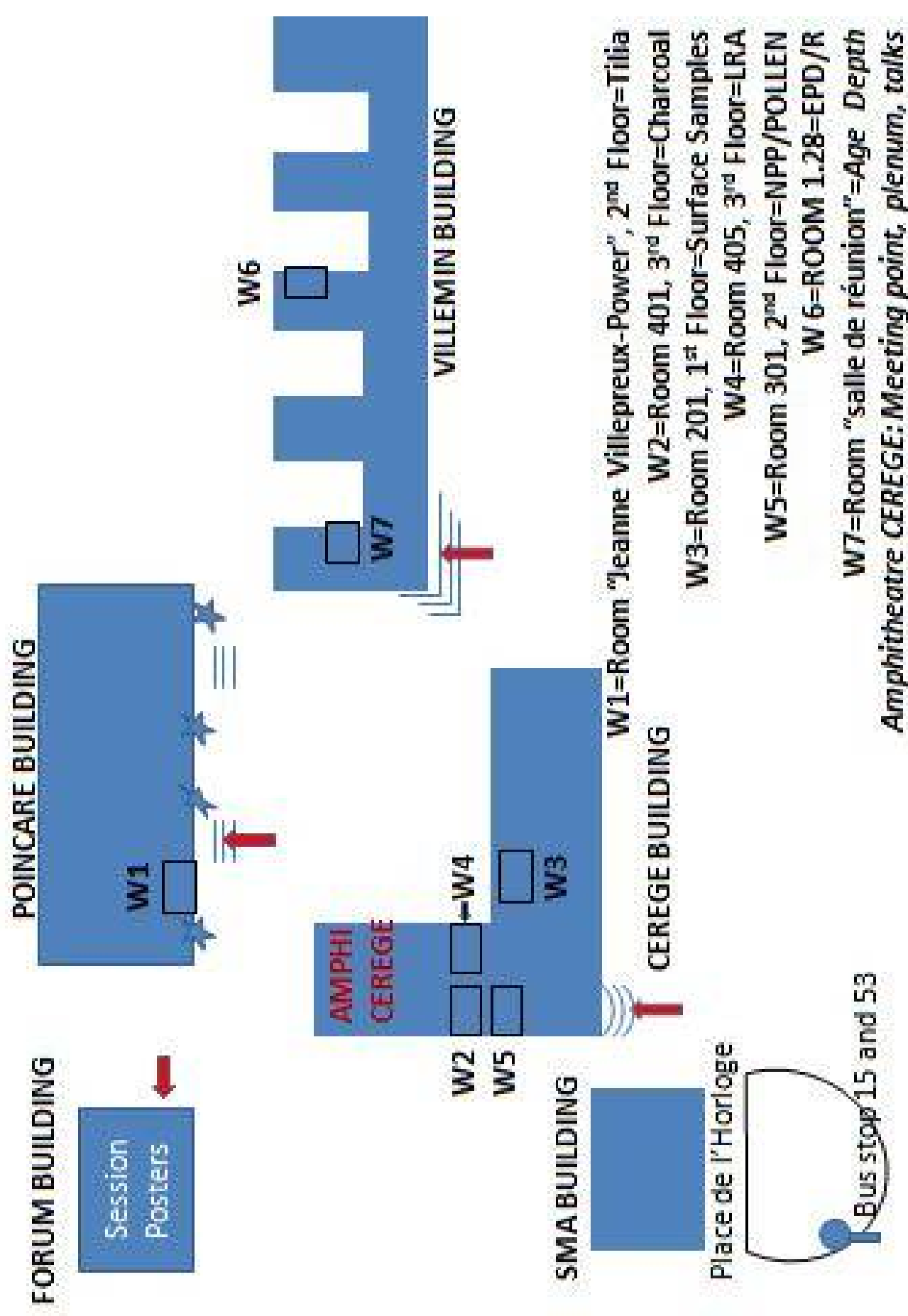
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16:00-16:30 Coffee

16:30 – 18:30 Parallel workshops continue



- W1=Room "Jeanne Villepreux-Power", 2nd Floor=Titlia
 - W2=Room 401, 3rd Floor=Charcoal
 - W3=Room 201, 1st Floor=Surface Samples
 - W4=Room 405, 3rd Floor=LRA
 - W5=Room 301, 2nd Floor=NPP/POLLEN
 - W 6=ROOM 1.28=EPD/R
 - W7=Room "salle de réunion"=Age Depth
- Amphitheatre CEREGE: Meeting point, plenum, talks*

Oral communications

In chronological order:

Jacques-Louis de Beaulieu: Welcome and a little bit of History

Richard Bradshaw: The transition from formal governance to a community structure

Michelle Leydet: The current status of the EPD

Thomas Giesecke: Current activities and future developments

Joël Guiot: Holocene vegetation and climatic changes in the Mediterranean area and comparison with global warming projections

Marie José Gaillard: Pollen-based quantitative reconstructions of past land cover for climate modelling: contribution to the PAGES LandCover6k initiative

Chronis Tzedakis: Long pollen sequences and their chronological framework: confessions of a 'wiggly-matcher'

Eric Grimm: Neotoma Paleoecology Database: Community-led Cyberinfrastructure for Global Change Research

Ralph Fyfe: Human impacts on vegetation: from the local scale to continental synthesis

Boris Vanni re & Daniele Colombaroli: The Global Paleofire Working Group and the Global Charcoal Database: review and new insights

Maria Fernanda Sanchez Go ni: The ACER pollen database: vegetation response to the abrupt changes of the last glacial

Richard Bradshaw: Use of pollen data to set targets for nature conservation

Thomas Giesecke: Using the EPD to explore the postglacial vegetation dynamics of Europe

Training workshops

1) Tilia and Neotoma

Eric Grimm

Tilia is a spreadsheet and graph program developed by Eric Grimm to manipulate individual palaeoecological datasets. It also serves as an upload and download tool to Neotoma. The program is widely used in the community. New features and capacities have been recently added and participants will be trained in using the new and older functionality first hand.

2) Charcoal software and database

Boris Vanni re, Walter Finsinger

Charcoal analysis is often carried out in conjunction with pollen analysis and some charcoal data is stored in the EPD, however, a specialized community with a separate database and a set of analytical tools has emerged. Here we aim to train palaeoecologists in how to analyze data using the latest numerical tools.

3) EPD Surface samples and modern analogue reconstructions

Basil Davis

A new EPD surface sample dataset has been assembled and is available for climate or land-cover reconstructions using the analogue method. The workshop will provide training in how to use the surface sample data for quantitative reconstructions for individual pollen diagrams.

4) Quantitative vegetation reconstructions using the Landscape Reconstruction Algorithm (PPEs, REVEALS, LOVE)

Petr Kuneš, Martin Theuerkauf

The Landscape Reconstruction Algorithm is a functional approach to reconstruct past land-cover quantitatively. It contains several components and requires relative pollen productivity estimates that have been obtained for several European regions. This workshop will focus on the application of the LOVE and REVEALS model with available data, and will also provide an introduction and discussion on how to obtain relative pollen productivity estimates in the field.

5) An introduction to Non Pollen Palynomorphs and help with pollen identification

Jean Nicolas Haas, Benjamin Dietre, Steffen Wolters

The identification and taxonomy of pollen and Non Pollen Palynomorphs (NPP) is an important prerequisite for all subsequent data analysis. We will set up a number of microscopes manned by experts in pollen morphology to give palynologists an opportunity to share their knowledge or get help with difficult types. The analysis of NPPs is still a new field and the taxonomy not yet consolidated. Here we will offer introduction to NPP analysis aimed at palaeoecologists who so far do not include these types in their analysis or want to broaden their knowledge.

6) Using the EPD with 'R

Alistair Seddon, Joseph Chipperfield

The data analysis software R is increasingly used in ecology and palaeoecology to carry out data analyses. We will show participants how the EPD can be directly queried from within the R-environment, and train analysts in how to use and alter pre-existing scripts which are increasingly published alongside analytical results.

7) Age depth modelling and EPD chronologies

Thomas Giesecke

Age depth modelling is a prerequisite for data interpretation, comparison and analysis of nearly all stratigraphic data. It is increasingly important to communicate age uncertainties and make them part of the analysis. We will provide hands on training in classical and Bayesian age-depth modelling and discuss advantages and disadvantages of the various approaches. In addition, we will explain in depth the dual classification systems adopted for age models in the EPD.

1

Reconstruction of spatial organization within archaeological sites through pollen and non-pollen palynomorphs analyses. Preliminary results from the early Neolithic site of La Draga (Girona, Spain).

Jordi Revelles¹ and Francesc Burjachs^{2,3,4}

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² *Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Catalonia, Spain.*

³ *Institut Català de Paleoecologia Humana i Evolució Social (IPHES), Campus Sescelades URV (Edifici W3), 43007 Tarragona, Spain.*

⁴ *Departament d'Història i Història de l'Art, Facultat de Lletres, Universitat Rovira i Virgili, Avinguda Catalunya 35, 43002 Tarragona, Spain.*

Presenter: Jordi Revelles [Jordi.Revelles\(at\)uab.cat](mailto:Jordi.Revelles(at)uab.cat)

2

EPD and ArkeoGIS : data exchange and implementation between archaeology and palynology

Loup Bernard¹

¹ *Maison Interuniversitaire des Sciences de l'Homme, University of Strasbourg, 5 allée du général Rouvillois CS 50008, 67083 Strasbourg, France.*

Presenter: Loup Bernard loup [bernard\(at\)unistra.fr](mailto:bernard(at)unistra.fr)

3

Holocene climate change, vegetation dynamics, lake-level changes and anthropogenic impacts in the Lake Urmia region, NW Iran

Talebi, T.¹, Ramezani, E.¹, Djamali, M.², Alizadeh, H.³, Naqinezhad, A.⁴, Alizadeh, K.⁵,
Andrieu-Ponel, V.²

¹ *Department of Forestry, Faculty of Natural Resources, Urmia University, Urmia, Iran.*

² *IMBE, Aix-Marseille Université, CNRS, IRD, Avignon Université, Europôle Méditerranéen de l'Arbois, BP80,13545 Aix-en-Provence cedex 04, France*

³ *Iranian National Institute for Oceanography and Atmospheric Science (INIOAS), Tebran, Iran*

⁴ *Faculty of Sciences, University of Mazandaran, Babolsar, Mazandaran, Iran*

⁵ *Department of Palynology and Climate Dynamics, University of Göttingen, Göttingen, Germany*

Presenter: Kamaledin Alizadeh [kamal.alizadeh\(at\)biologie.uni-goettingen.de](mailto:kamal.alizadeh(at)biologie.uni-goettingen.de)

Palynological and Physiochemical Monitoring of Iranian Honey

Akbari Azirani, T.¹, Ramezani, E.², Henareh, F.², Alizadeh, K.³, Behling, H.³

¹ *Department of Physical Geography, Faculty of Earth Sciences, Shahid Beheshti University, Iran.*

² *Department of Forestry, Faculty of Natural Resources, Urmia University, Iran*

³ *Department of palynology and climate dynamics, University of Goettingen, Germany*

Presenter: Tayebeh Akbari Azirani [t_akbari\(at\)sbu.ac.ir](mailto:t_akbari@sbu.ac.ir)

Pollen-based reconstruction of the Middle and Late Holocene vegetation and climate history of the upper Kama region (middle Cis-Urals, Russia)

Elena Lapteva¹

¹ *Laboratory of Paleocology, Institute of Plant and Animal Ecology, Ural Branch, Russian Academy of Sciences 8 Marta st., 202, Yekaterinburg, the Russian Federation, 620144.*

Presenter: Elena Lapteva [lapteva\(at\)ipae.uran.ru](mailto:lapteva@ipae.uran.ru)

Pollen- Late Glacial and Early Holocene Vegetation and Climate Development in Bohemian – Moravian Highlands (Czech Republic)

Markéta G. Švarcova^{1,2}, Helena Svitavska Svobodova¹, Petr Kuneš^{1,2} & Péter Szabó²

¹ *Institute of Botany, Academy of Sciences of the Czech Republic*

² *Department of Botany, Faculty of Sciences, Charles University in Prague, Czech Republic*

Presenter: Helena Svitavska Svobodova [dr.helena.svobodova\(at\)seznam.cz](mailto:dr.helena.svobodova@seznam.cz)

Pollen-based climate reconstructions for the last 15,6 ka in the central Italian Alps

Roberta Pini¹, Cesare Ravazzi¹, Lorenzo Castellano², and Francesca Vallè³

¹ *CNR-IDPA Milano, Italia*

² *University of New York, USA*

³ *University of Milano, Bicocca, Italia*

Presenter: Roberta Pini [roberta.pini\(at\)idpa.cnr.it](mailto:roberta.pini(at)idpa.cnr.it)

From Late Pliocene to Early Pleistocene: pollen-inferred vegetation and climate change in the north Caucasus, north-western Caspian region

Olga D. Naidina¹

¹ *Geological Institute, Russian Academy of Sciences, Moscow, Russia*

Presenter: Olga D. Naidina [onaidina\(at\)gmail.com](mailto:onaidina(at)gmail.com)

The representation of taxa in surface pollen spectra of boreal forests and tundra inlands of Russia

Larisa A. Savelieva¹, Elena A. Rasnitsyn^{2,3}

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² *Alfred Wegener Institute for Polar and Marine Research, Potsdam, Germany*

³ *Arctic and Antarctic Research Institute, St. Petersburg, Russia*

Presenter: Larisa Savelieva [savelieval\(at\)mail.ru](mailto:savelieval(at)mail.ru)

Drivers of regional and local boreal forest dynamics during the Holocene

Niina Kuosmanen^{1,2}

¹ *Department of Forest Ecology, Czech University of Life Sciences Prague*

² *Department of Geosciences and Geography, University of Helsinki*

Presenter: [kuosmanen.niina\(a\)gmail.com](mailto:kuosmanen.niina(a)gmail.com)

Pollen-inferred millennial changes in landscape patterns at a major biogeographical interface within Europe

Eva Jamrichová ^{1,2}, Libor Petr ¹, Borja Jiménez- Alfaro ¹, Vlasta Jankovská ², Lydie Dudová ^{2,1}, Petr Pokorný ³, Piotr Kołaczek ⁴, Valentina Zernitskaya ⁵, Malvína Čierníková⁶, Eva Břízová ⁷, Petra Hájková^{1,2} & Michal Hájek ¹

¹ *Department of Botany and Zoology, Faculty of Science, Masaryk University, Brno, Czech Republic*

² *Department of Vegetation Ecology, the Czech Academy of Science, Brno, Czech Republic*

³ *Center for Theoretical Study, Charles University in Prague and the Academy of Sciences of the Czech Republic, Prague, Czech Republic*

⁴ *Department of Biogeography and Paleocology, Adam Mickiewicz University in Poznań, Poznań, Poland*

⁵ *Institute of Nature Management, National Academy of Belarus, Minsk, Republic of Belarus*

⁶ *Department of Soil Science, Comenius University in Bratislava, Bratislava, Slovakia*

⁷ *Czech Geological Survey, Prague, Czech Republic*

Presenter: Eva Jamrichová [Eva.Jamrichova\(at\)ibot.cas.cz](mailto:Eva.Jamrichova(at)ibot.cas.cz)

MARCO POLO – new and simple tool for pollen-based stand-scale vegetation reconstruction

Almut Mrotzek¹

¹ *Institute for Botany and Landscape Ecology, Greifswald University, Germany*

Presenter: Almut Mrotzek [almut.mrotzek\(at\)gmx.de](mailto:almut.mrotzek(at)gmx.de)

European alpine floods aggravated by past Human impact: coupled evidences from sedimentological and pollen analysis of Lake of Allos

E. Brisset^{1,2}, F. Guiter¹, C. Miramont¹, T. Troussier¹, P. Sabatier³, Y. Poher², R. Cartier^{1,2}, F. Arnaud³,
E. Malet³, E. Anthony^{2,4}

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³ *Université Savoie Mont Blanc, CNRS, UMR 5204 EDYTEM, Le-Bourget-du-Lac, France*

⁴ *Institut Universitaire de France*

Presenter: Elodie Brisset [elodie.brisset\(at\)gmail.com](mailto:elodie.brisset(at)gmail.com)

Investigation of Paleoclimatological and Paleoenvironmental Changes of Lake Yeniçağa (Bolu, Turkey)
During the Holocene Period

Prof. Dr Demet Biltekin¹ and Devrim Kaynar¹

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Presenter: Devrim Kaynar kaynard@tiu.edu.tr

New pollen sites in central-eastern Europe:
Results of an interdisciplinary project on long-term woodland dynamics

Petr Kuneš^{1,2}, Lydie Dudová^{1,3}, Radim Hédl¹, Eva Jamrichová^{1,3}, Jan Kolář¹, Lucie Křížová¹, Jana Müllerová⁴, Sylvie Suchánková¹, Markéta Švarcová^{1,2}, Helena Svobodová-Svitavská⁴, Peter Tkáč¹ & Péter Szabó¹

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⁴ *Department of GIS and Remote Sensing, Institute of Botany of the Czech Academy of Sciences, Průhonice, Czech Republic*

Presenter: Petr Kuneš petr.kunes@natur.cuni.cz

Size Matters: Quantification of microscopic charred particles in pollen slides

Frederike Verbruggen¹, Ignace Bourgeois² and Philippe Crombé³

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² *Province of Antwerp – Heritage Department, Koningin Elisabethlei 22, B-2018 Antwerp, Belgium*

³ *Ghent University – Department of Archaeology, Section Prehistory of western Europe, Sint-Pietersnieuwstraat 35, B-9000 Ghent, Belgium*

Presenter: Frederike Verbruggen verbruggen@biax.nl

The development of vegetation of peatbog from late middle
Holocene to recent days - preliminary results

Malvína Čierniková¹

¹ *Department of Soil Science, Faculty of Sciences, Comenius University in Bratislava, Slovak Republic*

Presenter: Malvína Čierniková [hortinka\(at\)gmail.com](mailto:hortinka(at)gmail.com)

PYROS : An example of using the EPD and GPWK addressing broad spacial questions

Graciela Gil-Romera¹, María Leunda¹, Josu Aranbarri¹, Penélope González Sampériz¹

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Presenter: Graciela Gil-Romera [graciela.gil\(at\)ipe.csic.es](mailto:graciela.gil(at)ipe.csic.es)

Hydroclimatic changes in Talesh Mts, NW-Iran, during the Lateglacial and Holocene, based on
chironomid and pollen analyses

Cyril Aubert¹, Morteza Djamali¹, Frédéric Guibal¹, Hamid Lahijani², Abdolmajid Naderi², Jacques-Louis
de Beaulieu¹, Ali Pourmand³, Arash Sharifi³, Alain Thiéry¹, Philippe Ponel¹,
Tayebeh Akbari Azirani⁴, Emmanuel Gandouin¹

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Shahid Beheshti University, Tebran, Iran*

Presenter: Cyril Aubert [cyril.aubert\(at\)imbe.fr](mailto:cyril.aubert(at)imbe.fr)

Potential of high-altitude pollen record of an Alpine peat bog for quantitative paleoclimate estimates

Giulia Furlanetto^{1,2}, Federica Badino¹, Michele Brunetti³, Elena Champvillair¹, Mattia De Amicis¹,
Valter Maggi¹, Roberta Pini², Cesare Ravazzi², Francesca Vallé¹

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Presenter: Giulia Furlanetto [g.furlanetto1\(at\)campus.unimib.it](mailto:g.furlanetto1(at)campus.unimib.it)

“Fire & biodiversity conservation” an initiative to assess biodiversity responses to disturbance regimes

D. Colombaroli¹, P. van der Knaap¹, J. van Leeuwen¹, W. Tinner¹ & GPWG collaborators*

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* <http://www.gpwg.paleofire.org>

Presenter: Daniele Colombaroli [daniele.colombaroli\(at\)ips.unibe.ch](mailto:daniele.colombaroli(at)ips.unibe.ch)

Reconstructing past herbivore abundance using dung fungal spores: a taphonomic approach

Eline van Asperen¹

¹ *Liverpool John Moores University, UK*

Presenter: Eline van Asperen [envanasperen\(at\)palaeo.eu](mailto:envanasperen(at)palaeo.eu)

Coupled terrestrial and aquatic ecosystems evolution of Lake Allos since ca. 13,500 cal. BP (Mediterranean French Alps)

Rosine Cartier¹, E. Brisset¹, F. Sylvestre², F. Guiter¹, C. Paillès², C. Miramont¹

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Presenter: Rosine Cartier [cartier\(at\)cerege.fr](mailto:cartier(at)cerege.fr)

Extracting data from the European Pollen Database using EPDr package for R

Diego Nieto-Lugilde¹, Grettel Vargas-Azofeifa¹, José Manjón-Cabeza¹, Francisca Alba-Sánchez¹

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Presenter: Francisca Alba-Sánchez [falba\(at\)ugr.es](mailto:falba(at)ugr.es)

Long-term dynamics of a remarkable Corsican wetland (Bagliettu peatland, 209 m a.s.l.)

Yoann Poher¹, Philippe Ponel¹, Frédéric Médail¹, Valérie Andrieu-Ponel¹, Frédéric Guiter¹

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Presenter: Yoann Poher [yoann.poher\(at\)imbe.fr](mailto:yoann.poher(at)imbe.fr)

Late Holocene vegetation dynamics and disturbance regimen in North Patagonia (Lat 38°-40°S)

Alvarez-Barra, V.¹, Fontana, S¹ and Giesecke, T¹

¹ *Palynology and Climate Dynamics, Georg-August-Universität Göttingen, Germany*

Presenter: Valentina Alvarez-Barra [valentina.alvarez.barra\(at\)gmail.com](mailto:valentina.alvarez.barra(at)gmail.com)

A consortium charged with the task of indexing Mediterranean biodiversity data, a new way for datamining in ecology

Romain David¹, Jean-Pierre Ferral¹, and Thierry Taton¹

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Presenter: Romain David [romain.david\(at\)imbe.fr](mailto:romain.david(at)imbe.fr)

Complementing the Pollen Data ☒ Refining the Understanding of Climate-Human-Environment Interactions- Two Case Studies from SE Norway and NW Russia -

Magda Wieckowska-Lüth

¹ *Graduate School 'Human Development in Landscapes' Institute of Prehistoric and Protohistoric Archaeology, University of Kiel*

Presenter: Magda Wieckowska-Lüth [mwickowska\(at\)ufg.uni-kiel.de](mailto:mwickowska(at)ufg.uni-kiel.de)

Holocene vegetation dynamics of sub-montane rainforests following volcanic deposition in the Kerinci Seblat National Park, Sumatra (Indonesia)

Christina Ani Setyaningsih¹, Siria Biagioni, Asmadi Saad, Yudhi Achnopa, Supiandi Sabiham, Hermann Behling

¹ *Department of Palynology and Climate Dynamics, University of Goettingen, Germany*

Presenter: Christina Ani Setyan [csetyan\(at\)gwdg.de](mailto:csetyan(at)gwdg.de)

Late glacial and Holocene environmental history on the eastern slope of the Middle Ural Mountains, Russia.

N.K. Panova¹, T.G. Antipina¹

¹ *Botanic Garden, Ural Branch, Russian Academy of Sciences, Russia Federation*

Presenter: Tatiana Antipina [antanya1306\(at\)mail.ru](mailto:antanya1306(at)mail.ru)

The improvement of the FPD tool

Armand Rotereau¹, M. Barbier-Leydet², R. David², and E. Gandouin²

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Presenter: Armand Rotereau [rotereau\(at\)eccorev.fr](mailto:rotereau(at)eccorev.fr)

Palynology in Romania—state of the art—

Roxana Grindean¹, Ioan Tanțău¹, Angelica Feurdean^{1,2}

¹ Babeş-Bolyai University, Department of Geology, M. Kogălniceanu Street 1, 400084 Cluj-Napoca, Romania

² Senckenberg Biodiversity and Climate Research Centre (BiK-F), Senckenberganlage 25, D-60325, Frankfurt am Main, Germany

Presenter: Roxana Grindean [roxana.grindean\(at\)yahoo.com](mailto:roxana.grindean(at)yahoo.com)

Reaction of biota to the late glacial climate amelioration in the Danubian Lowland (SW Slovakia)

Anna Potuckova^{1,3}, Eva Jamrichova^{1,3}, Michal Horsak², Libor Petr² and Petra Hajkova^{2,3}

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² Department of Botany and Zoology, Masaryk University, Brno, CZ;

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Vegetation history of the Eastern Romanian Carpathians during the Late Glacial recorded in sediments from Mohoş crater

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New PPEs for key Mediterranean taxa and adaptation of the REVEALS model for lagoon's geometry

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On the edge: thresholds of woodland regeneration

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Asynchronous expansion of *Fagus* in the Hercynian highland

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Heterogenous pattern in fire activity in a homogenous climate: test using Holocene charcoal records from Northern Romanian Carpathians

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Comparison of the modern vegetation with pollen spectra in terrestrial and lacustrine surface samples of the Lake El'gytgyn (Chukotka, Russia)

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**Spatio-temporal changes in forest composition inferred from fossil pollen records in the Upper
Midwestern USA**

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Determination of Modern Pollen Deposition in Murat Mountain

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**Determination of Late Holocene vegetational history of Aktaş Lake and its surrounding area by
Palynological Analysis**

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Approaching to build up a Chinese Pollen Database

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Palaeoecological Studies of Upper Montane Araucaria Forest and Grasslands in Southeastern and Southern Brazil

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Mauritius on fire

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Vegetation response to human, fire and volcanic disturbance in Araucaria araucana forests in southern South America

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Middle East Pollen Reference Collection and Atlas

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Modern Pollen Monitoring Studies in Turkey

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Updated site compilation of the Latin American Pollen Database : Outreach to the community LatinAmericanPollenDB.com

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Posidonia as environmental archive: long-term ecology and conservation views

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Regional Pollen Database from South America

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European Holocene landscape change: a comparison of pollen-based approaches to reconstructing land use shifts and forest decline

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Holocene climate change and landscape evolution in the Mediterranean-Saharan transition area of Southern Tunisia

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Pollen productivity estimates in a biodiversity hotspot of Central Europe and sampling effort of the vegetation survey.

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Pollen Monitoring Programme database - current status and basic statistic.

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2000 years of grazing history and the making of the Cretan Mountain landscape, Greece

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Palynological results from the Lake Ladoga postglacial-glacial-preglacial sediment record

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