



**EXPLO**  
EXPLORING THE DYNAMICS AND CAUSES OF PREHISTORIC  
LAND USE CHANGE IN THE CRADLE OF EUROPEAN FARMING



# Prehistoric lakeshore settlements in South-East Europe: archaeological, palaeoecological and bioarchaeological investigations within the EXPLO project.

## Mid-term Conference

5-6 July 2022, Research Dissemination Center (KEDEA), Aristotle University of Thessaloniki, Greece

## PROGRAMME

Organization: Aristotle University of Thessaloniki  
School of History and Archaeology

Laboratory for Interdisciplinary Research in Archaeology (LIRA)

Funding: The EXPLO project has received funding from the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme (grant agreement No. 810586)



## **Archaeological Fieldwork at Lake Ohrid**

Johannes Reich<sup>1</sup>

<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland

The presentation gives an overview of the fieldwork carried out since 2019 under the direction of the Institute of Archaeological Sciences of the University of Bern. This involved underwater archaeological excavations and core drillings, with which new archaeological finds as well as numerous samples for dendrochronological and archaeobotanical analysis could be obtained. The absolute dates so far, both from the construction timbers and the archaeological layers, together with the recorded stratigraphies, allow a preliminary presentation of absolutely dated ceramic find complexes from Ploča, Mičov Grad (North Macedonia) and Lin 3 (Albania).

Tuesday, 5 July 2022

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## WELCOMING ADDRESS

**Chair: Prof. Em. Kostas Kotsakis**

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 09:30-09:50 Prof. Konstantinos Bikos, Dean of the Faculty of Philosophy  
Aristotle University of Thessaloniki, Thessaloniki, Greece
- Prof. Eleni Manakidou, Chair of the School of History and Archaeology  
Aristotle University of Thessaloniki, Thessaloniki, Greece

**Opening of the Conference: Prof. Eleni Manakidou**

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## SESSION 1. THE EXPLO PROJECT: OVERVIEWS

**Chair: Prof. Em. Stelios Andreou**

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 09:50-10:00 Overview of the University of Bern archaeological project  
Albert HAFNER<sup>1,2</sup>  
<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 10:00-10:10 Overview of the University of Bern palaeoecological project  
Willy TINNER<sup>1,2</sup>  
<sup>1</sup>Institute of Plant Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 10:10-10:20 Overview of the University of Oxford project  
Amy BOGAARD<sup>1</sup>  
<sup>1</sup>School of Archaeology, University of Oxford, Oxford, United Kingdom
- 10:20-10:30 Overview of the Aristotle University of Thessaloniki project  
Kostas KOTSAKIS<sup>1</sup>  
<sup>1</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 10:30-11:00 *Coffee break*
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## SESSION 2. DENDROCHRONOLOGY: METHODS AND RESULTS

**Chair: Assistant Prof. Maria Ntinou**

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 11:00-11:30 Dendrochronology: Turning Prehistory into History? An outline of the methodological basics of building and dating tree-ring chronologies from wood sampled from wetland sites  
John FRANCUZ<sup>1</sup>  
<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland

- 11:30-12:00 Prehistoric dendrochronology in the southern Balkans: state-of-the-art and prospects  
Andrej MACZKOWSKI<sup>1,2</sup>  
<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 12:00-12:30 The dendroarchaeology of the prehistoric waterlogged site Ploča - Mičov Grad, Lake Ohrid, North Macedonia  
Matthias BOLLIGER<sup>1,2</sup>  
<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland
- 12:30-14:00 *Lunch break*
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### SESSION 3. MATERIAL CULTURE

**Chair: Dr. Maria Pappa**

**Ephorate of Antiquities of Thessaloniki Region, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece**

- 14:00-14:30 Phases and architecture of Dispilio: results and challenges  
Tryfon GIAGKOULIS<sup>1</sup>, Filippos STEFANO<sup>1</sup> and Kostas KOTSAKIS<sup>1</sup>  
<sup>1</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 14:30-15:00 Site stratigraphy and key stratigraphic markers at the Neolithic wetland settlement of Dispilio. Our progress to date within the project of EXPLO  
Stella KYRILLIDOU<sup>1</sup>, Ioanna SIAMIDOU<sup>1,2</sup>, Ioannis OIKONOMOU<sup>3</sup>, Rena VEROPOULIDOU<sup>1,4</sup> and Kostas KOTSAKIS<sup>1</sup>  
<sup>1</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece  
<sup>2</sup>Department of Prehistory, Protohistory and Near Eastern Archaeology, Heidelberg University, Heidelberg, Germany  
<sup>3</sup>Institute of Archaeology, Hebrew University of Jerusalem, Jerusalem, Israel  
<sup>4</sup>Museum of Byzantine Culture, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece
- 15:00-15:30 Reassembling continuity and change in Neolithic Dispilio  
Evangelia VOULGARI<sup>1</sup>, Marina SOFRONIDOU<sup>2</sup>, Niki SARIDAKI<sup>1</sup>, Ioanna SIAMIDOU<sup>1,3</sup>, Eleni TSIOLA<sup>1,4</sup>, Nikos KATSIKARIDIS<sup>1</sup> and Kostas KOTSAKIS<sup>1</sup>  
<sup>1</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece  
<sup>2</sup>Ephorate of Antiquities of Drama, Hellenic Ministry of Culture and Sports, Drama, Greece  
<sup>3</sup>Department of Prehistory, Protohistory and Near Eastern Archaeology, Heidelberg University, Heidelberg, Germany  
<sup>4</sup>School of History and Archaeology, University of Ioannina, Ioannina, Greece

- 15:30-16:00      Dispilio pottery in its regional context: affinities and potential contacts  
Marina SOFRONIDOU<sup>1</sup>, Evangelia VOULGARI<sup>2</sup>, Anastasia DIMOULA<sup>2</sup>,  
Niki SARIDAKI<sup>2</sup>, Kostas KOTSAKIS<sup>2</sup>  
<sup>1</sup>Ephorate of Antiquities of Drama, Hellenic Ministry of Culture and Sports, Drama,  
Greece  
<sup>2</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki,  
Greece
- 16:00-16:30      *Coffee break*
- Chair: Prof. Em. Nikos Efstratiou**  
**School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece**
- 16:30-17:00      The stone and bone industries from Neolithic Dispilio: preliminary  
typological and technological observations  
Tasos BEKIARIS<sup>1</sup>, Angeliki KITA<sup>1</sup>, Eleni KOUTSOPOULOU<sup>1,2</sup>, Bogdana  
MILIĆ<sup>3</sup> and Georgia STRATOULI<sup>4</sup>  
<sup>1</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki,  
Greece  
<sup>2</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland  
<sup>3</sup>Mila y Fontanals Institute on Humanities research, Spanish National Research Council,  
Barcelona, Spain  
<sup>4</sup>Ephorate of Antiquities of Kilikis, Hellenic Ministry of Culture and Sports, Kilikis, Greece
- 17:00-17:30      Archaeological Fieldwork at Lake Ohrid  
Johannes REICH<sup>1</sup>  
<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 17:30-18:00      Farmers of the Bronze Age – Exploring land use dynamics and  
agricultural practices using legacy data and land-use modelling  
Marco HOSTETTLER<sup>1</sup>  
<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 18:00              *Reception*

Wednesday, 6 July 2022

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#### **SESSION 4. PALAEOECOLOGY AND BIOARCHAEOLOGY**

**Chair: Dr. Rena Veropoulidou**

**Museum of Byzantine Culture, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece**

**School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece**

- 09:00-09:30      Reconstructing Holocene climate dynamics in Northern Greece using  
biomarker proxies in lake sediments  
Antoine THÉVENAZ<sup>1,2</sup>, César MORALES-MOLINO<sup>1,2</sup>, Erika GOBET<sup>1,2</sup>,  
Céline MARTIN<sup>3</sup>, Cindy DE JONGE<sup>4</sup>, Oliver RACH<sup>5</sup>, Dirk SACHSE<sup>5</sup> and  
Willy TINNER<sup>1,2</sup>  
<sup>1</sup>Institute of Plant Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland  
<sup>3</sup>Surface Waters Research & Management, Eawag, Dübendorf, Switzerland  
<sup>4</sup>Swiss Federal Institute for Technology, Zurich, Switzerland  
<sup>5</sup>German Research Centre for Geosciences, Potsdam, Germany

- 09:30-10:00 From sea to summit: the impact of climate and land-use change on vegetation at different altitudes and along two Neolithisation routes  
Kathrin GANZ<sup>1,2</sup>, César MORALES-MOLINO<sup>1,2</sup>, Erika GOBET<sup>1,2</sup>, Luc HÄCHLER<sup>2,3</sup>, Dmytro KIOSAK<sup>4</sup>, Nadezhda KOTOVA<sup>5</sup>, Jacqueline VAN LEEUWEN<sup>1,2</sup>, Sergey MAKHORTYKH<sup>6</sup>, Sarah OGI<sup>1,2</sup>, Emmanuel SCHAAD<sup>1,2</sup>, Christoph SCHWÖRER<sup>1,2</sup>, Paul ZANDER<sup>2,3</sup>, Martin GROSJEAN<sup>2,3</sup> and Willy TINNER<sup>1,2</sup>  
<sup>1</sup>Institute of Plant Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland  
<sup>3</sup>Institute of Geography, University of Bern, Bern, Switzerland  
<sup>4</sup>Department of Asian and North African Studies, Ca' Foscari University of Venice, Venice, Italy  
<sup>5</sup>Department of Archaeology of Eneolithic and Bronze Age, Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine  
<sup>6</sup>Department of Early Iron Age Archaeology, Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine
- 10:00-10:30 Insights into the impacts of climate and land use on the vegetation of the Four Lakes region in Northern Greece  
Lieveke VAN VUGT<sup>1,2</sup>, César MORALES-MOLINO<sup>1,2</sup>, Erika GOBET<sup>1,2</sup>, Martin GROSJEAN<sup>2,3</sup>, Antonietta KNETGE<sup>1</sup>, Jaqueline F.N. VAN LEEUWEN<sup>1,2</sup>, André F. LOTTER<sup>1,2</sup>, Hendrik VOGEL<sup>2,4</sup>, Albert HAFNER<sup>2,5</sup> and Willy TINNER<sup>1,2</sup>  
<sup>1</sup>Institute of Plant Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland  
<sup>3</sup>Institute of Geography, University of Bern, Bern, Switzerland  
<sup>4</sup>Institute of Geological Sciences, University of Bern, Bern, Switzerland  
<sup>5</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 10:30-11:00 *Coffee break*
- Chair: Associate Prof. Sevi Triantafyllou**  
**School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece**
- 11:00-11:30 First results on 50,000 years of vegetation history at Limni Orestias Kastorias  
Lieveke VAN VUGT<sup>1,2</sup>, Erika GOBET<sup>1,2</sup>, Kathrin GANZ<sup>1,2</sup>, Gian-Luca GRÜNENFELDER<sup>1</sup>, Hendrik VOGEL<sup>2,3</sup> and Willy TINNER<sup>1,2</sup>  
<sup>1</sup>Institute of Plant Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland  
<sup>3</sup>Institute of Geological Sciences, University of Bern, Bern, Switzerland
- 11:30-12:00 The zooarchaeology of Dispilio, Lake Orestias, Kastorias  
Valasia ISAAKIDOU<sup>1</sup>, Rena VEROPOULIDOU<sup>2,3</sup>, Roula CHRONAKI<sup>3</sup> and Dafni ANDROULAKI<sup>3</sup>  
<sup>1</sup>School of Archaeology, University of Oxford, Oxford, United Kingdom  
<sup>2</sup>Museum of Byzantine Culture, Hellenic Ministry of Culture and Sports, Thessaloniki, Greece  
<sup>3</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 12:00-12:30 The archaeobotany of Dispilio, Lake Orestias, Kastorias  
Müge ERGUN<sup>1</sup>, Evgenia GKATZOGIA<sup>2</sup> and Maria NTINO<sup>2</sup>  
<sup>1</sup>School of Archaeology, University of Oxford, Oxford, United Kingdom  
<sup>2</sup>School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece
- 12:30-14:00 *Lunch break*

**Chair: Prof. Tania Valamoti**

School of History and Archaeology, Aristotle University of Thessaloniki, Thessaloniki, Greece

- 14:00-14:30 Vegetation dynamics and land-use change at the Neolithic lakeshore settlement site of Ploča Mičov Grad, Lake Ohrid  
Erika GOBET<sup>1,2</sup>, Sarah BRECHBÜHL<sup>1</sup>, Lieveke VAN VUGT<sup>1,2</sup>, César MORALES-MOLINO<sup>1,2</sup>, Joseph VOLERY<sup>1</sup>, André F. LOTTER<sup>1,2</sup>, Ariane BALLMER<sup>2,3</sup>, Sandra O. BRUGGER<sup>1,2</sup>, Albert HAFNER<sup>2,3</sup> and Willy TINNER<sup>1,2</sup>  
<sup>1</sup>Institute of Plant Sciences, University of Bern, Bern, Switzerland  
<sup>2</sup>Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland  
<sup>3</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland
- 14:30-15:00 The archaeobotany of Progradec, Lin 3, Lake Ohrid  
Rachel BALLANTYNE<sup>1</sup>  
<sup>1</sup>School of Archaeology, University of Oxford, Oxford, United Kingdom
- 15:00-15:30 The archaeobotany of Ploča Mičov Grad, Lake Ohrid  
Amy HOLGUIN<sup>1</sup>  
<sup>1</sup>School of Archaeology, University of Oxford, Oxford, United Kingdom
- 15:30-16:00 Discussion

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**Please note:**

The 30 minutes slots include 20 minutes for the presentations and 10 minutes for questions.

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**Poster design:** Tasos Bekiaris

**Workshop's Venue:**

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**Research Dissemination Center (KEDEA)**  
**Tritis Septemvriou Str. - University Campus**  
**546 36 THESSALONIKI – GREECE**

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- 2,7,14,58 (Bus Stop: University of Macedonia)
- 17,24,37 (Bus Stop: Fititiki Leschi)
- 10,31 (Bus Stop: Agia Foteini-University of Macedonia)
- 27,28,83 (Bus Stop: Terma Grammis)

<https://goo.gl/maps/tqa4pxokdyVjbA6c7>

