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## **INTERNATIONAL ICLEA FINAL SYMPOSIUM (POTSDAM, 7-9 JUNE 2017)**

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On 7-9 June 2017 the International ICLEA Final Symposium was held at the Deutsches GeoForschungsZentrum GFZ in Potsdam. Its aim was to conclude the Polish-German project ICLEA ("Integrated Climate and Landscape Evolution Analyses").

The ICLEA project, conducted in 2011-2017, was funded by the Helmholtz Association of German Research Centres. The partners in the project were four research units: GeoResearchCenter GFZ (principal investigator: Achim Brauer), Brandenburg University of Technology (principal investigator: Thomas Raab), Ernst Moritz Arndt University of Greifswald (principal investigator: Reinhard Lampe) and Institute of Geography and Spatial Organization of the Polish Academy of Sciences (principal investigator: Mirosław Błaszkiwicz).

The basic idea of the project was to create a common research platform for interdisciplinary teams from the aforementioned scientific centres exploring the interactions between climate and environmental change. The

primary goal of the project was to integrate data from direct monitoring, remote sensing, modelling and multiproxy analyses. The research was carried out in five work packages: WP 1 – Hydrological and climate data, WP 2 – Archive remote sensing data, WP 3 – Tree-ring data, WP 4 – Lake sediment data, WP 5 – Soil and geomorphological data. Thanks to the project, cooperation between Polish and German research units was established and strengthened over six years. It was expressed through the exchange of researchers between GeoForschungs Zentrum Potsdam and the Institute of Geography and Spatial Organization of the Polish Academy of Sciences. As a result of the work of more than fifty people, over 80 scientific papers have been published so far (list of publications on [www.iclea.de](http://www.iclea.de)). The results of the studies were also presented at many conferences.

The results of the research were also presented at the conference closing the project. The symposium was divided into four thematic

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**VARIA: PROJECT REPORT**

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blocks: (1) Abrupt and high-frequency climate variability since the Last Glaciation, (2) Recent change and instrumental observations, (3) Integral time-scales and regional synchronisation, (4) Man-environment-climate interactions. During the two days of the conference, 21 papers and 50 posters in three poster sessions were presented. The conference was attended by 86 scientists from Germany, Poland, Austria, Finland, Israel, Switzerland and the United Kingdom. They represented a dozen or so research units, including GFZ Potsdam, IGSO PAS, University of Warsaw, University Innsbruck, MPI SHH Jena, IGB Leibniz Institute of Freshwater Ecology and Inland Fisheries, University of London, University of Lausanne, University Greifswald or BTU Cottbus-Senftenberg. Poland was represented by 23 scientists.

As part of the conference, one-day field workshop near Cottbus was organised. Scientists from the BTU Cottbus-Senftenberg presented the sites that are the subject of integrated research by archaeologists, soil scientists and geomorphologists. Participants had

the opportunity to learn about the operation of the Janschwalde lignite mine, see the traditional charcoal kilns and visit the early Slavic castle in Raddusch.

During the final discussion, based mainly on the results of the research of Lake Czechowskie and Lake Tieffer-See, it was concluded that the present-day changes are much more dynamic than in the past, since the anthropogenic factor plays an important role alongside of the climatic factor. As a result, the changes in the Holocene environment have to be dealt with in different temporal and spatial scales. The project summary has identified some new research directions, which motivate for the implementation of new projects and the extension of Polish-German scientific cooperation.

The conference materials in the form of abstracts have been published in "ICLEA Final Symposium 2017 Climate Change, Human Impact and Landscape Evolution in the Southern Baltic Lowlands, Abstract Volume & Excursion Guide. Scientific Technical Report STR17/03".

