

recent advances  
in geology  
of fine-grained  
sediments

September 24-26, 2014  
Warsaw, Poland

**THE 2<sup>nd</sup> INTERNATIONAL CONFERENCE  
DEDICATED TO MUDROCKS**

organized by

**POLISH GEOLOGICAL INSTITUTE  
NATIONAL RESEARCH INSTITUTE**

**FIRST CIRCULAR**

**REGISTRATION NOW OPEN  
CALL FOR ABSTRACTS**

[www.geoshale.com](http://www.geoshale.com)





# GENERAL INFORMATION

The 2nd scientific conference – **GeoShale 2014** – dedicated to fine-grained sediments will be hosted by the Polish Geological Institute – National Research Institute in Warsaw, 24-26 September, 2014.

The conference brings together geoscientists from around the world, who are engaged in shale research studies...

The conference brings together geoscientists from around the world, who are engaged in shale research studies. The conference will continue the work of the GeoShale 2012, which ended up with a great success! 180 scientists from 19 countries for three days discussed shale sedimentology, stratigraphy, physical and geochemical properties, and gas exploration and production issues.

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Mudrocks make up to 70% of sedimentary record and attract attention of scientists representing a wide spectrum of geological disciplines. Recently, gas- and oil-bearing shales have received a rapid advancement in understanding of shale fabric, pore networks, geomechanical properties, and depositional processes. It was possible due to an interest of the petroleum industry that treated shales as an important source and seal rocks as well as reservoir of the hydrocarbons released from them. Moreover, fine-grained terrigenous clastics provide insight into an evolution of sedimentary basins in time and space as well as climatic and sea-level changes in the Earth history.

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## SESSIONS

Three days of parallel lectures and poster sessions are planned, including a series of keynote lectures. Preliminary topics of scientific sessions include:

- **Shale Basins Stratigraphy, Paleoenvironment and Paleoclimate**
- **Shale Geochemistry, Diagenesis and Reservoir Properties**
- **Shale Basins' Geophysics and Tectonics**
- **Shale Gas Exploration and Production**

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## IMPORTANT DATES:

- **April 2014** – 2nd Circular
- **30th May 2014** – Deadline for submissions of abstracts
- **30th May 2014** – Early registration deadline
- **15th June 2014** – Notification on the abstracts' acceptance
- **15th August 2014** – Normal registration deadline

## CONFERENCE CALENDAR:

- **21–23rd September 2014** – Pre-conference field trip
- **24–26th SEPTEMBER 2014 – CONFERENCE**
- **27–29th September 2014** – Post-conference field trips

# SCIENTIFIC COMMITTEE:

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Romania

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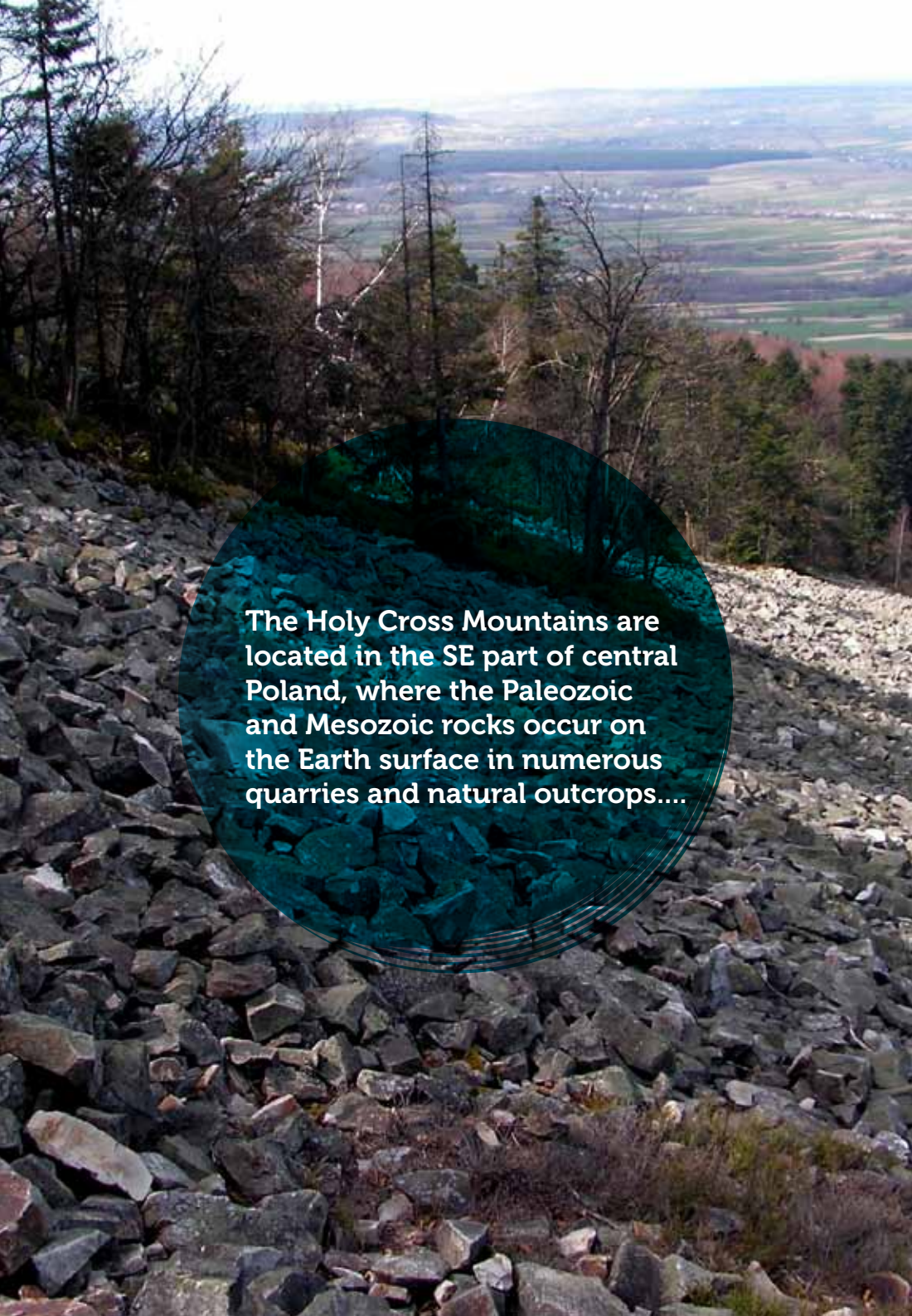
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The Holy Cross Mountains are located in the SE part of central Poland, where the Paleozoic and Mesozoic rocks occur on the Earth surface in numerous quarries and natural outcrops....

## FIELD TRIPS:

Three field trips are dedicated to the Palaeozoic mudrock successions in Poland and other aspects of the regional geology. Participants will have a good opportunity to visit an outstanding outcrops of mudrocks in the Holy Cross Mountain and Sudetes Mountains as well as a drill site in the Pomerania region.

### Pre-conference field trip: Paleozoic mudrock facies in the Holy Cross Mountains (21-23 September, 2014)



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The Holy Cross Mountains are located in the SE part of central Poland, where the Paleozoic and Mesozoic rocks occur on the Earth surface in numerous quarries and natural outcrops. During the 3-day field-trip participants will have opportunity to visit an outstanding exposures of Cambrian, Ordovician, Silurian and Carboniferous mudstones and shales.

Moreover, we will see regional aspects of the Caledonian and Variscan tectonic evolution as well as the post-Variscan sedimentary record.



# POST-CONFERENCE FIELD TRIPS:

## Shale Gas:

### Drilling and Fracturing in Poland (27-28 September, 2014)



The 2-day field trip is mainly devoted to shale gas drill site visit. An exact location depends on the current state of works on the site. In the second part of the trip regional geology of the Pomerania region will be presented.

## The Sudetes

### Metalliferous Black Shales in SW Poland (27-29 September, 2014)



The 3-day field trip will focus on three shale formations in the Sudetic and Fore-Sudetic mining district around Lubin where the world-class Kupferschiefer deposit is mined in three underground mines. We will have the opportunity to visit the following geological sites:

- Upper Permian Kupferschiefer black shale ore in the Rudna underground mine (the leading copper ore producer), and the past-producing open-pit Nowy Kościół mine.
- Lower Permian lacustrine black claystone developed as an uranium occurrences and oil source rock.
- Lower Paleozoic Radzimowice black shale of high thermal maturation in Kaczawa Mountains.



## SHORT COURSES:

### **Lab Tour:** Shale research in Polish Geological Institute – National Research Institute

The purpose of this tour is to get the participants familiar with the methods used in different shale research studies which are conducted in different labs and rooms located in PGI-NRI in Warsaw.

The participants will have an opportunity to meet the PGI-NRI scientist, chat about their work, “touch” the apparatus and collect the general overview on how a certain method is used and what are its advantages and limitations.

**The tour will include:** Sensitive High Resolution Ion MicroProbe (SHRIMP) lab, Scanning electron microscopy lab, Micro-area analysis lab, Rock-Eval lab, Palaeomagnetic lab and more. Additional information about PGI-NRI laboratories can be found at PGI-NRI website.

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# SHORT COURSES:

## Workshop: Tectonics of gas-bearing shales

In the first part of the workshop the lecture will address:

- a specific mechanic properties of shale rock and their petrographic constraints
- meso- and micro-scale tectonic structures in shale rock
- geophysical imaging methods of tectonic structures in shale complex.
- technologically induced borehole wall and core features controlled by a present-day tectonic stress

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Implication of tectonic investigations for planning stimulation of hydrocarbon production from shales will be also discussed.

In the second part of the workshop we are going to have a look at the shale core samples from the Polish Geological Archive, on which tectonic structures can be seen as they are exposed to the shale-gas explorer.

Leader: Marek Jarosiński (PGI-NRI)



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## REGISTRATION FEES:

- **Early registration (to 30.05.2014) 200 € (800 PLN) - professionals**  
Normal registration (after **30.05.2014**) 250 € (1000 PLN) - professionals  
Registration fee includes: abstract volume, coffee-brakes, ice-breaker party.

Students can intend to earn the reduced price after presenting the official declaration of Thesis from supervisor.

Field trip fees will be announced in the 2nd Circular.  
For more information about registration and payment please visit our website **www.geoshale.com**

## ACCOMMODATION

Need to be booked by the participants themselves.  
On **www.geoshale.com** we present a list of hotels.

A detailed Guide  
for Authors is available on  
**www.geoshale.com**

## PUBLICATIONS:

- Thematic issue

A thematic conference volume will be published as an issue of **Geological Quarterly (GQ)** <https://gq.pgi.gov.pl/>

All manuscripts for the thematic volume will be subjected to regular peer-review and need to follow the journal's style. Detailed instructions will be provided in the 2nd Circular. GQ is an international geosciences journal with current Impact Factor of 0.843 and indexed in ISI and Scopus.



# VENUE: WARSAW, POLAND



Warsaw, with over 400 years of pride as a capital, is the largest city and an economic, political and cultural centre of Poland. The fourth of its area is covered by parkland, what gives the city freshness and unique character. In Warsaw you can see the history of hundreds of years written in architecture – with unique balance between graceful old and striking new buildings surrounded by green areas.

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See more about Warsaw at: <http://www.warsawtour.pl>



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# ABOUT PGI-NRI

**The Polish Geological Institute – National Research Institute** was founded on the 7th of May 1919 and is the oldest Polish nationwide scientific institution. It is involved in comprehensive studies of geological structure of the country for practical use in national economy and environmental protection. In addition to scientific activities in all fields of modern geology the Institute was entrusted with the tasks of the Polish Geological Survey and the Polish Hydrogeological Survey.

Moreover, it is responsible for the country's security in supply of mineral resources, the groundwater management, for monitoring of the geological environment and warning against natural hazards and risks.

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The Polish Geological Institute belongs to the association of European geological surveys – **EuroGeoSurvey (EGS)**.

See more about the PGI-NRI: <http://www.pgi.gov.pl>



**95** years PGI has been dedicated to protection of **NATURAL ENVIRONMENT** and its **RESOURCES**

# ORGANIZING COMMITTEE:

WIESŁAW TRELA  
– CHAIRMAN



KATARZYNA SOBIEŃ  
– SECRETARY



ANNA BAGIŃSKA



TOMASZ NAŁĘCZ



IRENEUSZ DYRKA



MARCIN JANAS



HUBERT KIERSNOWSKI



JOANNA ROSZKOWSKA  
-REMIN



MAGDALENA SIDORCZUK





For the latest news see our webpage:  
**[www.geoshale.com](http://www.geoshale.com)**

In case of any questions please contact:  
**[geoshale@pgi.gov.pl](mailto:geoshale@pgi.gov.pl)**

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