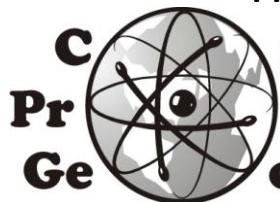


PROGRAM



**Contemporary
problems of
chemistry**

Kielce, Sept 27–30, 2010

Sept 27, 2010 (Monday)

Since 16:00	Arrival and accommodation	"Melodia" Hostel of J. Kochanowski University in Kielce, 15 Śląska St.
Since 16:00	Poster mounting	Institute of Chemistry, 15G Świętokrzyska St.

Sept 28, 2010 (Tuesday)

8:00–8:45	Breakfast	Institute of Chemistry, 15G Świętokrzyska St.
8:45–9:00	Poster mounting	Institute of Chemistry, 15G Świętokrzyska St.

Addresses

9:00–9:05	Zdzisław M. Migaszewski	Greeting of the participants and presentation of the conference agenda
9:05–9:10	President of the Jan Kochanowski University in Kielce	Official opening of the conference
9:10–9:15	President of the Mineralogical Society of Poland	Greeting of the participants

Plenary session I/1 (invited speakers)

Chairperson: Zdzisław M. Migaszewski

9:15–10:00	Alina Kabata-Pendias	Biogeochemistry of trace elements – environmental issues
10:00–10:45	Paul J. Lamothe, Alan Koenig, Richard Wanty, David Borrok	Recent geochemical investigations at the U.S. Geological Survey
10:45–11:00	Discussion	
11:00–11:30	Coffee break + poster session	

Plenary session I/2 (invited speakers)

Chairperson: Alina Kabata-Pendias

11:30–12:15	James G. Crock, Bronwen Wang, Larry P. Gough, Robert Eppinger, Richard Wanty	Selected geochemical investigations of the U.S. Geological Survey in Alaska
12:15–13:00	Agnieszka Gałuszka, Zdzisław M. Migaszewski	Current issues in establishing geochemical background of trace elements
13:00–14:00	Lunch	

Plenary session I/3 (environmental geochemistry)

Chairperson: Ewa Słaby

14:00–14:15	Sabina DOŁĘGOWSKA, Zdzisław M. MIGASZEWSKI	"The use of the soil subhorizon-Ofh for assessing environment quality in the Kielce area, south-central Poland"
14:15–14:30	Dariusz SALA, Grzegorz RZEPKA	"Geochemistry of waters and bottom sediments in landslide lakes of the Babiogórski National Park"
14:30–14:45	Beata SMIEJA-KRÓL, Arkadiusz BAUEREK, Barbara FIAŁKIEWICZ-KOZIĘŁ	"Minerals in Bory mire (Sosnowiec, southern Poland): formation, stability and trace element uptake"

14:45–15:00	Witold SZCZUCIŃSKI	“Geochemistry of the 2004 tsunami deposits – diagnostic features and environmental impacts”
15:00–15:15	Discussion	
15:15–15:45	Coffee break + poster session	
Plenary session I/4 (isotope geochemistry/geochemical modeling)		
Chairperson: Paul J. Lamothe		
15:45–16:00	Ana-Voica BOJAR, Stanisław HAŁAS, Hans-Peter BOJAR, Dan GRIGORESCU	“Late Cretaceous tuffs from the Hateg basin, South Carpathians, Romania: constraining intrabasinal correlation”
16:00–16:15	Stanisław HAŁAS, Ana-Voica BOJAR, Ludmila KHMELEVSKA, Tadeusz M. PERYT	“Oxygen isotopes in authigenic quartz from salt deposits: a possible archive of Earth surface temperature in the Phanerozoic”
16:15–16:30	Andrzej PELC, Stanisław HAŁAS, Robert NIEDZWIEDZKI	“Oxygen isotope analysis of shark teeth phosphates from Eocene deposits in Mangyshlak Peninsula, Kazakhstan”
16:30–16:45	Ewa SŁABY, Michał ŚMIGIELSKI, Andrzej DOMONIK	“3D depiction of geochemical data – a tool for estimation diffusion delay in non-linear system”
16:45–17:00	Discussion	
Chairperson: Ewa Słaby		
17:00–18:00	Poster session (summary)	
19:00–	Break the ice dinner	

Sept 29, 2010 (Wednesday)

8:15–9:00	Breakfast	Institute of Chemistry, 15G Świętokrzyska St.
Plenary session II/1 (environmental geochemistry)		
Chairperson: Marek Michalik		
9:00–9:15	Monika KWAŚNIAK-KOMINEK, Maciej MANECKI, Grzegorz RZEPA	“Geochemistry of pore waters in the foreland of retreating glacier, Werenskioldbreen SW Spitsbergen”
9:15–9:30	Artur MICHALIK	“The geologic signature to the chemistry of spring waters in Świętokrzyski National Park, Poland”
9:30–9:45	Zdzisław M. MIGASZEWSKI, Agnieszka GAŁUSZKA, Sabina DOŁĘGOWSKA	“An impact of pyrite oxidation on two water bodies in the Podwiśniówka area near Kielce, Poland”
9:45–10:00	Michał WOSZCZYK, Henry BOKUNIEWICZ	“Spatial and seasonal changes in salinity of coastal lakes – new insights from Lake Sarbsko, northern Poland”
10:00–10:15	Discussion	
10:15–10:45	Coffee break + poster session	
Plenary session II/2 (applied geochemistry)		
Chairperson: James G. Crock		
10:45–11:00	Irena JERZYKOWSKA, Marek MICHALIK	“Speciation and mobility of heavy metals (Zn, Pb, As, Cd and Tl) in flotation tailing pond from ZGH “Bolesław” in Bukowno, S Poland”

11:00–11:15	Maciej MANECKI	“In-situ lead immobilization with pyromorphite $Pb_5(PO_4)_3Cl$ – geochemistry of the long term problems”
11:15–11:30	Dariusz WIDEŁ, Jerzy OSZCZUDŁOWSKI	“Application of modified clinoptilolite-heulandite adsorbents in removing volatile organic compounds from the air”
11:30–11:45	Wanda WILCZYŃSKA-MICHALIK, Mateusz DAMRAT, Łukasz TYRAŁA, Witold BOROWIEC, Marek MICHALIK	“Single particle analysis of aerosols in Kraków (Poland)”
11:45–12:00	Discussion	
12:00–13:00	Lunch	
14:00–18:00	Tour of Kielce: “Geodiversity and geologic heritage protection in Kielce” (leaders: Zdzisław Migaszewski, Agnieszka Gałuszka)	Itinerary: (1) Upper Devonian fossil reef and other geologic features at the Kadzielnia Geologic Reserve; (2) Traces of Old Polish mining at the Karczówka Landscape Reserve; (3) Recumbent fold at the Ślichowice Geologic Reserve.
19:00–	Official dinner	“Monte Carlo” restaurant in Kielce

Sept 30, 2010 (Thursday)

8:15–9:00	Breakfast	Institute of Chemistry, 15G Świętokrzyska St.
Field sessions 1 & 2 (start at 9:00 from “Melodia” Hostel and Institute of Chemistry)		
1. Excursion leaders: Zdzisław M. Migaszewski, Sabina Dołęgowska		“Influence of pyrite mineralization on the generation of Acid Mine Drainage in the Wiśniówka mining area near Kielce”
2. Excursion leaders: Agnieszka Gałuszka, Artur Michalik		“Biogeochemical and hydrogeochemical studies in Świętokrzyski National Park”

List of Posters (24):

Topic “Environmental Geochemistry”

1. Tomasz BAJDA, Maciej MANECKI – “Dissolution of lead arsenates promoted by organic acids”
2. Dariusz BOTOR – “Trace element geochemistry in coals from the Southern Cantabrian Zone (NW Spain): preliminary results”
3. Jolanta CZERNIAWSKA – “Chemical properties of Łebsko and Dołgie Wielkie lakes waters”
4. Luiza GALBARTCZYK-GĄSIOROWSKA, Michał GĄSIOROWSKI – “Chemical composition of sediments from two small oxbow lakes near Warsaw (Poland) as an effect of human influence”
5. Piotr JEZIERSKI, Adriana TROJANOWSKA – “The UV-irradiation effect on redox potential in freshwater organic sediments – preliminary studies”
6. Mohammad Ali MACKIZADEH – “Formation of halotrichite $[Fe^{2+}Al_2(SO_4)_4 \cdot 22H_2O]$ in an acid sedimentary environment, Shirkuh Mountain, Taft-Yazd, Iran”
7. Leszek MARYNOWSKI, Michał ZATOŃ – “Molecular evidences of widespread wildfires in Laurasia and Gondwana during the Lower and Middle Jurassic”
8. Beata SMIEJA-KRÓL, Jerzy WIEDERMANN – “Authigenic minerals in the Bagno Bruch mire (Southern Poland) contaminated by trace metals through atmospheric deposition”
9. Danuta SMOŁKA-DANIELOWSKA – “Radioactivity of coal mine waste formed in the Sobieski Mining and Power Plant in Jaworzno”
10. Batoul TAGHIPOUR, Mohammad Ali MACKIZADEH – “Geochemical effects of mining on geological environments, north-west Isfahan, central Iran”
11. Anna WOJTOŃ, Monika FABIAŃSKA – “Geochemical features of fossil fuel contaminants found in urban wastes”
12. Krzysztof WOŁOWIEC, Krzysztof JĘDRZEJCZYK – “Leachability of sulfate ions from the sulfur ore pile (Jeziórko sulfur mine, southeastern Poland)”
13. Michał WOSZCZYK, Achim BECHTEL, Jens FIEBIG, Mikołaj KOKOCIŃSKI – “Composition and origin of organic matter in surface sediments of Lake Sarbsko, a highly eutrophic and shallow coastal lake (northern Poland)”

Topic “Applied Geochemistry”

1. Zhamilya BOPUROVA, Piotr JEZIERSKI, Adam JEZIERSKI – “Uptake of arsenates by peat”
2. Kamil CZECH, Magdalena GARNUSZEK, Artur MICHALIK, Piotr ŚŁOMKIEWICZ – “Sorption of phosphates and nitrates from aqueous solutions on halloysite clay”
3. Małgorzata GDAŃSKA – “Paleoecology of the Miocene brown coals from the Chłapowo Cliff in Władysławowo, northern Poland”
4. Mariola JABŁOŃSKA, Lucyna LEWIŃSKA-PREIS – “Mineral matter and silica concentration in atmospheric dust and human lungs from the Upper Silesia – preliminary results”
5. Ryszard KRYZA, Marta PRELL, Franciszek CZECHOWSKI, Małgorzata DOMARADZKA – “Resistance of carbonate building stones to chemical weathering: experimental assessment in acidic solutions”

Topic “Isotope Geochemistry”

1. Michał BUCHA, Oliwia BIENIEK, Katarzyna KUBIAK, Mieczysław BŁASZCZYK, Mariusz-Orion JĘDRYSEK – “Methanogenic fermentation of lignite: preliminary results”
2. Stanisław CHMIEL, Stanisław HAŁAS, Sławomir GŁOWACKI, Andrzej TREMBACZOWSKI – “Quantitative and qualitative differentiation of dissolved inorganic carbon in a groundwater zone at Wygnanowice (Giełczew Upland, SE Poland)”

3. Maciej GÓRKA, Elżbieta ZWOLIŃSKA, Małgorzata MALKIEWICZ, Dominika LEWICKA-SZCZEBAK, Mariusz-Orion JĘDRYSEK – “Coupled carbon and nitrogen isotopic analysis with palynological data of PM10 dust in Wrocław city (SW Poland) – assessment of anthropogenic impact”
4. Stanisław HAŁAS, Miłosz HUBER, Sergey G. SKUBLOV – “Geochemical and isotopic characteristics of rocks from the Kandalkshyan part of the Lapland Granulite Belt in the Kola Peninsula”
5. Andrzej TREMBACZOWSKI – “The use of isotopic composition of fish scales for identification of fish origin”
6. Adriana TROJANOWSKA, Wojciech DRZEWICKI – “Isotopic signatures of enzymatic mineralization of organic sulphur in freshwater sediments”