



Isotope Workshop XIV, 25-29 June, 2017, Băile Govora, ROMANIA

Isotope Workshop XIVth - ESIR 2017

Băile Govora, ROMANIA

25-29 June, 2017

PROGRAMME

Organized by
the European Society for Isotope Research (ESIR)
&
the National Research and Development
Institute for Cryogenics and Isotopic
Technologies - ICSI Rm. Valcea



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SPEAKERS



Dr. Damian AXENTE

Senior research scientist at the National Institute for Research and Development of Isotopic and Molecular Technologies - ITIM Cluj-Napoca, Department of Physics and Technology of Isotopes (Romania)



Dr. Christophe LÉCUYER

Professor of Geochemistry at Université Claude Bernard Lyon 1 and Institut Universitaire de France, Department of Earth Sciences, CNRS UMR 5276, Campus de la Doua, 69622 Villeurbanne (France)



Dr. Olivier F.X. DONARD

Director of the MARSS project "Center for Mass Spectrometry and Reactivity for Speciation Sciences", IPREM UMR 5254, Hélioparc, 64053 Pau (France)



Prof. Kazimierz ROZANSKI

Professor at **AGH University of Science and Technology**, Faculty of Physics and Applied Computer Science, Kraków (Poland)



Dr. Jaleh GHASHGHAIE

Professor at Université Paris-Sud, Paris-Saclay, Lab Ecologie, Systématique et Evolution, Orsay (France)



Dr. Dariusz STRĄPOĆ

Senior Interpretation Development Geochemist at Schlumberger, Drilling & Measurements. Paris, (France)



Dr. Pier A. de GROOT

Delta Isotopes Consultancy, Oostham (Belgium)



Dr. Ashok VASEASHTA

Vice Provost for Research and Professor of Physics at the Molecular Science Research Center; Director of Research at the Institute for Advanced Sciences Convergence and International Clean Water Institute for Norwich University Applied Research Institutes, Herndon, VA (USA).

ESIR Isotope Workshop XIV

Băile Govora, România

June 25-29, 2017

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ESIR 2017 PROGRAMME ... at a glance

Sunday 25 th June		Monday 26 th June		Tuesday 27 th June		Wednesday 28 th June		Thursday 29 th June	
16:00	Registration	08:00	Registration	08:30	Registration	09:00	<i>Hydrology and Geochemistry</i>	09:00	<i>Hydrocarbons, petroleum systems, energy industry</i>
19:30	Ice Breaker Party	09:30	Workshop Opening	09:30	<i>Methodological and instrumental developments - Part I</i>	10:45	Coffee Break	10:30	Coffee Break
22:00	End of the 1 st Day	09:45	<i>Geology, earth science and paleo-climatology – Part I</i>	11:00	Coffee Break	11:15	<i>Isotopes in precipitation across Europe - Part I</i>	11:00	<i>General interest application: archaeology, food safety, materials – Part II</i>
		11:00	Coffee Break	11:30	<i>Methodological and instrumental developments - Part II</i>	12:30	Lunch	11:45	Closing & Awards
		11:30	<i>Geology, earth science and paleo-climatology – Part II</i>	12:45	Lunch	14:00	<i>Isotopes in precipitation across Europe - Part II</i>	12:00	Lunch
		13:00	Lunch	14:00	Trip to Horezu	14:30	<i>General interest application: archaeology, food safety, materials - Part I</i>	13:30	<i>Technical visit to isotopes laboratories of ICSI Rm. Vâlcea</i>
		14:30	<i>Environmental science, ecology and speleology – Part I</i>	19:30	End of the 3 rd Day	16:00	Coffee Break		
		16:00	Coffee Break			16:30	ESIR Assembly		
		16:30	<i>Environmental science, ecology and speleology – Part II</i>			17:30	Poster Session II		
		18:15	Poster Session I			20:00	Conference Dinner		
		19:15	End of the 2 nd Day			23:00	End of the 4 th Day		

Organizing Committee

Sunday - June 25, 2017

16:00 – 19:30	Registration
19:30 – 22:00	Ice Breaker Party

Monday - June 26, 2017

08:00 – 09:30	Registration
09:30 – 09:45	Workshop Opening
GEOLOGY, EARTH SCIENCE AND PALEOCLIMATOLOGY	
Chairpersons: <i>Ana Voica Bojar & Vasile Stanciu</i>	
09:45 – 10:15	Keynote: Bringing Speciation and Isotopes Together to Improve our Understanding of the Fate of Metals in the Environment <i>Olivier F. X. Donard</i>
10:15 – 10:30	A Novel Approach to Rapid Elemental and Isotopic Imaging of Carbonates <i>Ciprian Stremțan, Virgil Drăgușin, Olga Borovinskaya, Dominique Blamart</i>
10:30 – 10:45	Carbon and Oxygen Isotopes of Carbonates from Flysch Rocks of the Ukrainian Carpathians <i>Vasyl Guliy, S. Kril, V. Zagnitko, Ya. Kuzemko, V. Stepanov, N. Bilyk, Il'chenko T.</i>
10:45 – 11:00	Isotope geochemistry of carbonates of loess-related soils in Western Hungary <i>István Fórizs, Bernadett Bajnóczi, Viktória Mozgai, Máté Szabó, István Hegyi, Mária Tóth</i>
11:00 – 11:30	Coffee Break
11:30 – 12:00	Keynote: D/H Fractionation During the Sublimation of Water Ice <i>Christophe Lécuyer, François Fourel, and François Robert</i>
12:00 – 12:15	Reconstruction of the Black Sea Late Pleistocene to Holocene Paleoenvironmental Evolution Based on Microfaunal and Stable Oxygen Isotope Change <i>Andrei Briceag, Anastasia Yanchilina, William B.F. Ryan, Marius Stoica, Mihaela C. Melinte-Dobrinescu</i>
12:15 – 12:30	Isotopic Investigation of Hydrated Sulfates of Permian-Triassic Age <i>Ana-Voica Bojar, Stanisław Hałas, Hans-Peter Bojar, Andrzej Trembaczowski</i>
12:30 – 12:45	Oxygen and Carbon Stable Isotope Variability in Pinus Cembra L. - a 400-year Perspective of Summer Climatic Conditions in the Northern Carpathian Mts. (Eastern Europe) <i>Viorica Nagavciuc, Zoltán Kern, Aurel Perșoiu, Ionel Popa</i>
12:45 – 13:00	Applications of Stable Isotope Studies on Cave Deposits <i>Bogdan P. Onac</i>
13:00 – 14:30	Lunch

ENVIRONMENTAL SCIENCE, ECOLOGY AND SPELEOLOGYChairpersons: *Bogdan Onac & Ferenc Forray*

14:30 – 15:00	Keynote: Carbon Isotope Fractionation during Dark Respiration in C3 vs C4 Plants <i>Jaleh Ghashghaie, Camille Bathellier, Franz-W. Badeck</i>
15:00 – 15:15	The $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in Guano from Romanian Caves <i>Ferenc L. Forray, Daniel M. Cleary, Jonathan G. Wynn, Bogdan P. Onac</i>
15:15 – 15:30	iWUE as a Fingerprint of Pollutions for Southern Poland <i>Sławomira Pawełczyk, Barbara Sensuła</i>
15:30 – 15:45	Carbon Isotope Composition and Sources of Aerosol Particles in Urban Site <i>Andrius Garbaras, Agne Masalaite, Justina Sapolaite, Ruta Bariseviciute, Zilvinas Ezerinskis, Vidmantas Remeikis</i>
15:45 – 16:00	Estimation of Uptake Rate of Carbon Dioxide Through the Skin by Measurement of Carbon Isotope Ratio of Exhaled Air <i>István Csige, István Futó, Róbert Janovics, Mihály Molnár, László Rinyu, László Palcsu, István Major, Marianna Túri, Erzsébet Sóki, József Molnár</i>
16:00 – 16:30	Coffee Break
16:30 – 16:45	Climatic Signals in Tree-Ring Width and Stable Isotopes Composition of <i>Pinus Sylvestris</i> L. Growing in the Industrialized Area Nearby Kędzierzyn-Koźle <i>Barbara Sensuła, Sławomir Wilczyński</i>
16:45 – 17:00	K40 and Tritium from the Romanian Sector of Black Sea Water <i>Romul Mircea Margineanu, Corina Anca Simion, Claudia Mariana Gomoiu, Ana-Maria Blebea-Apostu</i>
17:00 – 17:15	Reflection of Stable Isotopes with Inundation pattern at Matang Mangrove Forest Reserve(MMFR) Malaysia <i>Waseem Razzaq Khan, M. Nazre, Syaizwan Zahmir Zulkifli, Umer Rashid, Kamziah Abd Kudus, Martin Zimmer</i>
17:15 – 17:30	Radiation Decontamination of Soils Integrated in an Economically Profitable Renewable Energy Project <i>Elena Agarwal, Iurie Bosneaga</i>
17:30 – 17:45	Monitoring of Radionuclides Concentrations in Moss Samples in Romania <i>Elena Simion, A. Gherasim, D. David</i>
17:45 – 18:00	Advances in Radiocarbon Dating at RoAMS Laboratory <i>Gabriela Odilia Sava, Iuliana Stanciu, Oana Gaza, Tiberiu Bogdan Sava, Corina Anca Simion, Doru Pacesila, Bianca Stefan, Alexandru Vasiliu, Vasile Mosu</i>
18:00 – 18:15	Evaluation of Apparent Kinetic Isotope Effect (AKIE) as Tool to Determine the Degradation Pathways of Chiral Organic Pollutants <i>Silviu Laurentiu Badea</i>
18:15 – 19:15	POSTER SESSION - I

Tuesday - June 27, 2017

08:30 – 09:30	Registration
METHODOLOGICAL AND INSTRUMENTAL DEVELOPMENTS	
Chairpersons: <i>Zbigniew Czupyt and Damian Axente</i>	
09:30 – 10:00	Keynote: On Some Neglected Matters in the Stable Isotope Systematics: The Acid Digestion Grain Size Effect of Carbonates and the Use of Proxies from 'Complete Systems' <i>Pier A. de Groot</i>
10:00 – 10:15	RoAMS - The New AMS Center in Bucharest <i>Tiberiu Bogdan Sava, Iuliana Stanciu, Corina Anca Simion, Gabriela Odilia Sava, Doru Pacesila, Bianca Stefan, Alexandru Vasiliu, Vasile Mosu, Ilie Maria</i>
10:15 – 10:30	TIMS Ion Source for Alternate Isotope Ratio Determination of Two Samples <i>Adrian Pacek, Stanisław Hałas, Tomasz Pieńkos</i>
10:30 – 10:45	Microarea $\delta^{18}\text{O}$ Analysis in Bioapatites on High Resolution Ion Microprobe SHRIMP IIe/MC <i>Zbigniew Czupyt and Mateusz Rechowicz</i>
10:45 – 11:00	Sponsor talk: ThermoFisher Scientific Pushing Research Boundaries: Benefits of Temperature Ramped Gas Chromatography in EA-IRMS <i>Oliver Kracht, Christopher Brodie, Andreas Hilkert, Charles Douthitt</i>
11:00 – 11:30	Coffee Break
11:30 – 12:00	Keynote: Isotope Effects in Chemical Exchange Reactions of Uranium and in Amalgamation of Gadolinium <i>Damian Axente, Cristina Marcu</i>
12:00 – 12:15	Radionuclides' Ionizing Potential - An Indispensable Component of Energy-Efficient Cold Plasma Microbiological Decontamination <i>Elena Agarwal, Iurie Bosneaga</i>
12:15 – 12:30	New Desalination Procedure for the Routine Determination of ^{18}O and ^2H Isotopic Composition of Saline Waters and Brines <i>Adam Porowski</i>
12:30 – 12:45	Simultaneous Determination of $\delta^{34}\text{S}$ and $\delta^{36}\text{S}$ on SO_2 Gas <i>Tomasz Pieńkos, Stanisław Hałas, Andrzej Pelc</i>
12:45 – 14:00	Lunch
14:00 – 19:30	Trip to Horezu

Wednesday - June 28, 2017

HIDROLOGY AND GEOCHEMISTRY	
Chairpersons: <i>Gerhard Strauch & Sonja Lojen</i>	
09:00 – 09:30	Keynote: Isotopes in the Atmosphere: What Can We Learn? <i>Kazimierz Rozanski</i>
09:30 – 09:45	Palaeoclimate Reconstruction based on Noble Gas Recharge Temperatures: Turonian Aquifer, Tadla Basin, Morocco <i>László Palcsu, Marianna Túri, Radouan Saadi, István Futó, Mihály Molnár, László Rinyu, Oum Keltoum Hakam, Hamid Marah</i>
09:45 – 10:00	Critical Zone Impact on Groundwater Salinization Determined from O, H, Sr, and ³⁶ Cl Isotopes in the Buffels River, South Africa <i>Jani van Gend, Jodie Miller, Catherine Clarke, Petrus Le Roux, Keith Fifield, László Palcsu</i>
10:00 – 10:15	Authigenic Formation of Nanostructured Calcite in a Lacustrine Karstic Environment (Kuti Lake, Croatia): Stable Isotope and FESEM Study <i>Sonja Lojen, Srečo D. Škapin, Maja Ivanić, Tamara Troskot-Čorbić, Ivan Sondi</i>
10:15 – 10:30	Application of Stable Isotopes for Investigating the Dynamics of Waters in Rosia Montana and Zlatna Mining Areas <i>Calin Baciu, Delia Papp, Alexandra Cozma</i>
10:30 – 10:45	Stable Isotopes Survey of Olt River – Middle Basin (Romania). Attempts on Nitrogen Source Identification in the Vicinity of the Ramnicu Valcea Industrial Area <i>Raluca Popescu, Diana Costinel, Oana-Romina Botoran, Roxana-Elena Ionete</i>
10:45 – 11:15	Coffee Break
ISOTOPES IN PRECIPITATION ACROSS EUROPE	
Chairpersons: <i>István Fórizs & Carmen Varlam</i>	
11:15 – 11:30	Isotopic Composition of Precipitation in Central Europe: Comparison of Two Sites with Contrasting Characteristics <i>Michał Galkowski, Marek Dulinski, Anna Pierchala, Zbigniew Gorczyca, Kazimierz Rozanski</i>
11:30 – 11:45	Isotope Composition of Precipitation at Ljubljana and Portorož (Slovenia) – Period 2011-2015 <i>Polona Vreča, Ines Krajcar Bronić, Albrecht Leis, Stefan Terzer</i>
11:45 – 12:00	Stable Isotopic Composition of Precipitation in Romania <i>Aurel Perşoiu, Viorica Nagavciuc, Bădăluță Carmen-Andreea, Alexandru Onaca, Sandu Boengiu, George Murătoareanu, Florin Zăinescu</i>
12:00 – 12:15	Influence of Atmospheric Circulation on Isotopic Composition of Precipitation in Foothill Altai Mountains (Russia) <i>Natalia Malygina, Alla Eirikh, Tatiana Barlyaeva, Tatiana Papina</i>
12:15 – 12:30	Deuterium Excess as a Recharge and Flood Generation Tracer in the Valescure Catchment, France <i>Nicolas Patris, Jean-Denis Taupin, Christophe Bouvier</i>
12:30 – 14:00	Lunch

14:00 – 14:15	Tritium Level in Individual Precipitation of the Warm Months in Ramnicu Valcea in 2008-2016 Period <i>Carmen Varlam, Ionut Faurescu, Irina Vagner, Diana Bogdan, Denisa Faurescu</i>
14:15 – 14:30	Tritium in Precipitation in Germany: Features and Patterns Induced by Local Evaporation <i>Jürgen Sültenfuß</i>
GENERAL INTEREST APPLICATIONS: ARCHEOLOGY, FOOD SAFETY, MATERIALS – PART I	
Chairman: <i>Roxana Elena Ionete & Ashok Vaseashta</i>	
14:30 – 15:00	Keynote: Nanomaterials and Converging Technologies: Scenario in Risk Assessment, Safety and Security by Design <i>Ashok Vaseashta, Antonietta Gatti, Marina Turcan, Nicolae Enaki, Eusebiu Ilarian Ionete</i>
15:00 – 15:15	Radiocarbon Dating of Putineiu and Peretu Organic Sediments as a Pre-screening Tool in Palinology; Limes Transalutanus Case Study <i>Corina Anca Simion, Constantin Haită, Tiberiu Bogdan Sava, Iuliana Mădălina Stanciu, Odilia Gabriela Sava, Oana Gaza, Doru Păceșilă, Bianca Maria Ștefan, Eugen S. Teodor</i>
15:15 – 15:30	Radiocarbon Dating of Single Amino Acids Isolated by HPLC Method from Archaeological Bone Samples <i>Oana Gaza, Catalin Stelian Tuta, Tiberiu Bogdan Sava, Dan Gabriel Ghita, Corina Anca Simion, Iuliana Madalina Stanciu, Doru Gheorghe Pacesila, Vasile Mosu</i>
15:30 – 15:45	Origin of Hydrocarbon Gases, Carbon Dioxide and Hydrogen Sulphide from Selected Petroleum Fields of the Zechstein Main Dolomite Carbonates of the Southern Permian Basin (Poland): Isotopic and Geological Approach <i>Maciej J. Kotarba, Elżbieta Bilkiewicz, Stanisław Hałas</i>
15:45 – 16:00	Sponsor talk: <i>Agilent Technologies</i> ICP-MS/MS: A New Tool for Isotopic Analysis <i>Gregory Lecornet, Jean-Pierre Lener</i>
16:00 – 16:30	Coffee Break
16:30 – 17:30	ESIR ASSEMBLY
17:30 – 19:00	POSTER SESSION - II
20:00 - 23:00	Conference Dinner

Thursday - June 29, 2017

HYDROCARBONS, PETROLEUM SYSTEMS, ENERGY INDUSTRY	
Chairman: <i>Dariusz Strapoć & Călin Baci</i>	
09:00 – 09:30	Keynote: CH ₄ – Simple Molecule, Many Mysteries <i>Dariusz Strapoć, Shahnawaz R.M. Khan</i>
09:30 – 09:45	Origin of Methane from Geologic Sources Constrained by Isotopic and Molecular Composition – Application to Romania <i>Artur Ionescu, Călin Baci, Giuseppe Etiope, Boglarka-Mercedesz Kis, Antonio Caracausi, Franco Tassi, István Futó, Szabolcs Harangi</i>

09:45 – 10:00	Gas Geochemical Survey of Ciomadul Volcano (South Harghita Mts., Romania): Constraints on the Origin of Fluids <i>Boglárka-Mercedesz Kis, Artur Ionescu, Calin Baci, Szabolcs Harangi, László Palcsu, István Futó</i>
10:00 – 10:15	Methodological Aspects of K-Ar Dating in Application to Sedimentary Basins Thermal History Reconstruction <i>Sylwia Kowalska, Stanisław Hałas, Artur Wójtowicz, Klaus Wemmer, Zbyszek Mikołajewski</i>
10:15 – 10:30	Complex Radionuclides' Utilization as a Decisive Contribution for Nuclear Energy Rehabilitation <i>Elena Agarwal, Iurie Bosneaga</i>
10:30 – 11:00	Coffee Break
GENERAL INTEREST APPLICATIONS: ARCHEOLOGY, FOOD SAFETY, MATERIALS – PART II	
Chairman: <i>Roxana Elena Ionete & Ashok Vaseashta</i>	
11:00 – 11:15	The Exodus of Harappans from Rajasthan and Gujarat, India: Revisiting a Plausible Reason <i>Ashish Sarkar</i>
11:15 – 11:30	Applications of Stable Isotopes as Indicators in Food Quality and Authenticity Studies <i>Roxana Elena Ionete, Oana Romina Botoran, Raluca Popescu, Diana Costinel</i>
11:30 – 11:45	Chemometric Discrimination of Transylvanian Vegetables Based on their Isotopic and Elemental Fingerprint <i>Dana Alina Maqdas, Ioana Coralia Feher, Adriana Dehelean, Gabriela Cristea, Cezara Voica, Stelian Radu, Romulus Puscas</i>
11:45 – 12:00	Closing & Awards
12:00 – 13:30	Lunch
13:30 – 15:30	Technical visit to ICSI Rm. Valcea (Tritium and Stable Isotopes Laboratories)

POSTER PRESENTATION

Monday - June 26, 2017

18:15 – 19:15	POSTER SESSION - I
MP-1	Influence of Wood Decay on the Isotopic Composition of Tree Rings <i>Viorica Nagavciuc, Zoltán Kern, Aurel Perşoiu, Ionel Popa</i>
MP-2	Stable Isotopes in Pine Tree Rings: Glucose, α -Cellulose, Wood <i>Barbara Sensuła and Sławomira Pawełczyk</i>
MP-3	Carbon Based Proxies of Palaeoenvironmental Records in the Sediments of Two Lakes, the Plitvice Lakes, Croatia <i>Nada Horvatinčić, Andreja Sironić, Jadranka Barešić, Ivan Sondi, Ines Krajcar Bronić, Damir Borković</i>
MP-4	Bivalve Glycymeris Pilosa as Data Archive of the Global Atmospheric ^{14}C Change and the Suess Effect <i>Melita Peharda, Andreja Sironić, Damir Borković, Krešimir Markulin</i>
MP-5	Sulphur Isotopes in Soil Around the Thermoelectric Power Plant Plomin (Croatia) <i>Neža Malenšek, Gordana Medunić, Sonja Lojen, Nina Zupančič</i>
MP-6	Atmospheric C-14 Observation During 2013-2016 in Ramnicu Valcea, Romania <i>Ionut Faurescu, Carmen Varlam, Irina Vagner, Denisa Faurescu, Diana Bogdan, Diana Costinel</i>
MP-7	Estimation of the Purification Techniques of the Samples from the Wines for Tritium Analysis Using Liquid Scintillation Counting <i>Irina Vagner, Carmen Varlam, Ionut Faurescu, Denisa Faurescu, Diana Bogdan, Diana Costinel, Violeta Niculescu</i>
MP-8	Climatic Signals Recorded in Romanian Carpathians Ice Caves <i>Carmen-Andreea Bădăluță, Aurel Perşoiu, Natalia Piotrowska</i>
MP-9	Anomalous Isotope ^{33}S in Rocks Sharyzhalgai Uplift of the Siberian Craton and SO_2 in Electrical Discharge <i>Alexander Ignatiev, Tatiana Velivetskaya, Sergey Vysotskiy, V. Levitskiy, S. Budnickiy, Victoria Yakovenko</i>
MP-10	Detrital Zircon U-Pb Dating from the Carboniferous Rocks of the Fore-Sudetic Monocline, Poland <i>Urszula Zagórska, Sylwia Kowalska, Jiří Sláma, Krzysztof Wolański</i>
MP-11	Experimental Study of Mass-Independent Oxygen Isotope Effects in Hydrogen Peroxide Formation <i>Tatiana Velivetskaya, Alexander Ignatiev, Victoria Yakovenko, Sergey Vysotskiy</i>
MP-12	Preliminary Results of a Stalagmite Palaeoclimate Record Covering the Transition of the Last Interglacial/Glacial Period <i>László Palcsu, László Elemér, Gabriella Kiss, István Futó, Marianna Túri, Marjan Temovski, Hai Cheng</i>

MP-13	Variations in Collagen $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ Values of Red Deer Since the Late Pleistocene Until Today <i>Sławomira Pawełczyk, Maciej Sykut, Natalia Piotrowska, Magdalena Niedziatkowska, Krzysztof Stefaniak, Bogumiła Jędrzejewska, Anna Stankovic</i>
MP-14	Radon Concentration Measurements as a Tool For Major Tectonic Lines Determination in the Carpathians <i>Leszek Jankowski, Sylwia Kowalska, Rafał Skupio, Marek Dohnalik</i>
MP-15	Control of Decay Rates of Nuclear Isotopes by Cooperative Effects Between the Blocks of Three Radiators <i>Nicolae Enaki, Sergiu Bazgan, Tatiana Paslari, Ashok Vaseashta</i>
MP-16	Hydrogen Stable Isotopes Detection with Carbon Nanotube Based Sensor <i>Eusebiu Ilarian Ionete, Stefan Ionut Spiridon, Bogdan Florian Monea, Daniela Ebrasu-Ion, Oana Romina Botoran, George Stoian, Ashok Vaseashta</i>
MP-17	Distribution of Organically Bound Tritium in Soil Around Nuclear Power Plant <i>Lin Du, Shao-zhong Gu, Zheng-hai Xia, Yu-hua Ma, Qin Zhang, Ke Deng, Jia-yu Liu, Lai-lai Qin, Guang-hua Wang, Wei Liu</i>

Wednesday - June 28, 2017

17:30 – 19:00	POSTER SESSION - II
WP-1	The Stable Isotopic Composition of Rivers in Romania <i>Aurel Perșoiu, Bădăluță Carmen-Andreea, Viorica Nagavciuc, Alexandru Onaca, Sandu Boengiu, George Murătoreanu, Florin Zainescu</i>
WP-2	Stable Isotopic Perspectives on Hydroclimatic Processes in Suceava River Basin <i>Carmen - Andreea Bădăluță, Viorica Nagavciuc, Aurel Perșoiu</i>
WP-3	Geochemistry and Isotope Composition of Groundwaters in Multiaquifer System of the Daimishche Area, Leningrad Artesian Basin, Russia <i>Anastasia Romanova</i>
WP-4	Interaction Between Spring Waters and Mining Lakes in the Upper Harz Mountains (Germany) – an Isotope-Hydrochemical Approach <i>Elke Bozau, Sonja Lojen</i>
WP-5	Water Isotopic Variability in Mallorca: A Path to Understanding Past Changes in Hydroclimate <i>Oana A. Dumitru, Ferenc L. Forray, Joan J. Fornós, Vasile Ersek, Bogdan P. Onac</i>
WP-6	Nitrates and Sulphates Isotopic Response to Change of Environmental Conditions in the Small Dam Reservoir <i>Beata Gebus-Czupyt, Stanisław Chmiel, Andrzej Trembaczowski, Stanisław Hałas</i>
WP-7	Role of Meteorological Processes and Isotope Effects on the Stable Isotope Composition of Precipitation Originated from the Mediterranean Region <i>György Czuppon, Hajnalka Breuer, Emese Bottyán, Zoltán Kern, Gergő Simon, Tamás Mona, Júlia Göndöcs</i>

WP-8	Variogram Analysis of Stable Oxygen Isotope Composition of Daily Precipitation over the British Isles <i>Balázs Kohán, Jonathan J. Tyler, Matthew Jones, <u>Zoltán Kern</u></i>
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WP-10	Long-term Record of ^2H , ^{18}O and ^3H Variations in Precipitation in Leipzig <i>Gerhard Strauch, Peter Kowski, Stephan Weise, Kay Knöller</i>
WP-11	The Effect of the Solar Cycle to the Cosmogenic Tritium in Meteoric Precipitation <i>László Palcsu, Elemér László, Carmen Varlam</i>
WP-12	Assessment of Deuterium in Plants Grown with Waters of Different Concentrations in Deuterium. Remarks <i>Diana Costinel, Roxana Elena Ionete, Raluca Popescu, Oana Romina Botoran, Radu Tamaian, Gallia Butnaru</i>
WP-13	Application of Chemometric Tools for the Determination of Authentication Apricot Brandies in Serbia <i>Maja M. Lojović, Biljana V. Marošanić, Aleksandra P. Bauer, Strahinja Z. Kovačević, Sanja O. Podunavac-Kuzmanović, Lidija R. Jevrić</i>
WP-14	Application of Chemometric Techniques in Stable Isotope Evaluation <i>Oana-Romina Botoran, Roxana-Elena Ionete, Diana Costinel, Raluca Popescu</i>
WP-15	Traceability of Heavy Metals and Strontium-Lead Isotope Characterization in Soil-Wine Systems from Dealu Bujorului Vineyard, Romania <i>Florin-Dumitru Borga, Cezara Voica, Elena Postolache, Alina Donici</i>
WP-16	Isotopic and Elemental Analysis – a Tool to Differentiate Between Greenhouse and Field Vegetables Commercialized on Romanian Market <i>Gabriela Cristea, Dana Alina Magdas, Cezara Voica, Ioana Feher, Romulus Puscas</i>
WP-17	Identification and Characterization of Some Seed Extracts by using Isotopic Dilution-Gas Chromatography-Mass Spectrometry <i>Ramona Bleiziffer, Sonia Suvar, Paula Podea, Andreea Maria Iordache, Ramona Zgavarogea, Cornelia Mesaros, <u>Monica Culea</u></i>
WP-18	Comparison of Amino Acids and Antioxidant Capacity of Some Herb Extracts <i>Andreea Maria Iordache, Ramona Bleiziffer, Sonia Suvar, Paula Podea, Cornelia Mesaros, <u>Monica Culea</u></i>

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