

PROGRAM

Joint 74th ICCP and 39th TSOP Meeting

“Organic Petrology in the Energy Transition Era: Challenges ahead”

17 – 24 September 2023
Conference & Cultural Center
of the University of Patras
Rio-Patras, Greece



With the Support of



UNIVERSITY OF
PATRAS
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ



EUROPE DIRECT
Περιφέρεια Δυτικής Ελλάδας
Region of Western Greece

Our Sponsors



HEREMA

Hellenic Hydrocarbons and Energy
Resources Management Company

**HELPE
UPSTREAM**



Public
Power
Corporation

TERNA
G E K T E R N A G R O U P

KOZANIS' MINING Co. G.P.



IMERYS

Applied™
LABORATORY & ENGINEERING SOLUTIONS

MÆ
M.E.TE. A.E.



FOSSIL
Hilgers
Technisches Buero
Reflectance
Measurement

LaborScience

Schedule of the 2023 Joint 74th ICCP and 39th TSOP Meeting
“Organic Petrology in the Energy Transition Era: Challenges ahead”

Sunday, 17.9.2023			
13:30-17:00	ICCP Council Meeting	13:30-17:00	TSOP Council Meeting
18:00-22:30	Registration, <i>Joint ICCP-TSOP Ice Breaker Party at “DECK”</i>		

Monday, 18.9.2023	
08:30-09:30	Registration
09:30-10:20	2023 ICCP-TSOP Opening Session K. Christanis & S. Kalaitzidis
	Representatives of National and Academic Authorities: C. Bouras, Rector of the University of Patras F. Zaimis, Vice Governor for Entrepreneurship Research and Innovation, Region of Western Greece G. Papatheodorou, Dean of the School of Natural Sciences, University of Patras P. Xypolias, Chair of the Department of Geology, University of Patras M. Voutsina, Europe Direct, Region of Western Greece
10:20-11:00	Invited Talks
10:20-10:40	Hydrocarbon Exploration integrated into Greece’s trajectory towards a net-zero carbon future A. Stefatos, CEO Hellenic Hydrocarbons and Energy Resources Management Company (HEREMA)
10:40-11:00	The contribution of the Hellenic Survey of Geology and Mineral Exploration in coal research in Greece <u>A. Chatziapostolou</u> , M. Xenakis
11:00-11:30	<i>Coffee Break</i>

11:30-13:00	ICCP-Opening ICCP General Assembly Session	11:30-13:00	<p align="center">TSOP Short Course Organic Petrography in support of environmental studies: History, State of the Art and Future Opportunities <i>Instructors</i> G. Siavalas & M. Wojtaszek-Kalaitzidi</p>
13:00-14:30	<i>Lunch Break</i>		
14:30-16:00	ICCP Com I Session	14:30-16:00	TSOP Short Course (cont.)
14:30-14:45	Com I opening remarks S. Kalaitzidis, D. Životić		
14:45-15:30	Single Coal Accreditation Program K. Christanis		
15:30-16:00	Radiolytic alteration of organic matter in coal and rocks enriched in radioactive minerals WG T. Larikova, I. Sýkorová		
16:00-16:30	<i>Coffee Break</i>		
16:30-18:15	ICCP Com I Session (cont.)	16:30-18:00	TSOP Short Course Microscopy Session
16:30-16:45	Peat Petrography WG S. Kalaitzidis, K. Christanis		
16:45-17:00	ISO Standard M.Á. Gómez Borrego		
17:00-17:15	Investigation of fluorescing void filling substances WG P. Crosdale		
17:15-17:40	Classification and Terminology of Zooclasts in old sediments T. Gentzis, X. Zheng		

17:40-18:00	Xylite WG I. Oikonomopoulos		
18:00-18:15	Com I closing remarks S. Kalaitzidis, D. Životić		

Tuesday, 19.9. 2023

09:00-11:00	ICCP Com II Session	09:00-11:00	TSOP Technical Session A Chair: E.S. Esterle, W. Li
09:00-09:15	Com II opening remarks J. Kus, G. Siavalas	09:00-09:15	Welcome – General Business
09:15-09:30	Correction Function for Fluorescence Lamps WG M.Á. Gómez Borrego, J. Kus	09:15-09:30	Depositional and climate control of organic facies: Ordovician, Early-Middle Triassic and Cretaceous-Eocene in the Canning, Roebuck and Gippsland Basins, Australia <u>G. Smith</u> , L. Johnson, I. Sadd
09:30-10:00	Dispersed organic matter in sedimentary rocks J. Kus, P. Hackley, P.A. Gonçalves	09:30-09:45	Coal petrology, palynology and carbon isotope record of the Aramac Coal Measures (Galilee Basin, Australia) <u>A. Wheeler</u> , U. Heimhofer, J.S. Esterle, R. Littke
		09:45-10:00	Palaeo-peatlands as organic carbon pools in geological history: Quantitative estimation from net primary productivity L. Shao
10:00-10:30	DOM VR Accreditation Program J.G. Mendonça Filho	10:00-10:15	Observation and quantitative analysis of the effect of enhanced tectonic deformation on the nanostructural alteration of coal W. Yang, <u>W. Li</u>
		10:15-10:30	Nano-sized phase in different coal lithotype and their fractions under pyridine treatment <u>B. Sun</u> , C. Liu

10:30-11:00	Classification of Dispersed Organic Matter ICCP-TSOP DOM Atlas P.A. Gonçaves	10:30-10:45	Desorption rate of methane in coal matrix and its main controlling factors <u>D. Song</u> , Y. Li, Y. Zhai
		10:45-11:00	Petrographic study of palynomorphs and macerals to assess the kerogen in Gondwana and Tertiary coal seams, India <u>S. Pandey</u> , V. Atmaram Mendhe, P. Shukla
11:00-11:30	<i>Coffee Break</i>		
11:30-12:30	ICCP Com II Session (cont.)	11:30-12:30	TSOP Technical Session B Chair: K. Pinetown, G. Lis
11:30-11:45	Geological application of graptolite reflectance WG X. Zheng, T. Gentzis	11:30-11:45	Reactivity assessment of coal, lignite and biomass organic constituents through detailed petrography: An implication to gasification, carbon conversion and syngas A. Damodhar Kamble
11:45-12:00	Identification of Thermal Maturity Relevant Organic Matter WG P. Hackley	11:45-12:00	Exploring the influence of maturity evolving maceral composition on shale porosity: Example from the lower Paleozoic shale from the Baltic Basin (Poland) <u>G.P. Lis</u> , I. Jelonek, M. Mastalerz, T. Topór
12:00-12:30	Identification of Secondary Organic Matter in Sedimentary Rocks G. Siavalas, P. Hackley	12:00-12:15	The selective effect of pore-fracture evolution during the process of liquid nitrogen cyclic fracturing in coal <u>Y. Li</u> , D. Song, H. Wang, X. Guo, Z. Ren
		12:15-12:30	Towards the identification of coal macerals through deep learning <u>N. Xu</u> , Q. Wang, P. Li, M.A. Engle
12:30-14:30	<i>TSOP General Meeting & Business Lunch</i>		
14:30-16:00	ICCP Com II Session (cont.)	14:30-16:00	TSOP Technical Session C Chair: T. Moore, L. Zhao
14:30-15:15	Identification of Dispersed Organic Matter J. Kus	14:30-14:45	Geochemistry of tuff layers and its implications for Li-Zr (Hf)-Nb (Ta) enrichments in Cisuralian Coal Seams, Shanxi Province, North China Z. Guo, <u>B. Sun</u>

		14:45-15:00	Petrographic, geochemical and mineralogical characterization of coals from the Carboniferous Douro Basin: São Pedro da Cova and Pejão Coalfields <u>M. Costa</u> , H. Moura, A. Pinto de Jesus, D. Flores
15:15-15:35	Igneous intrusions in coal seams and shales WG S. Rodrigues	15:00-15:15	Cathodoluminescence differentiates sedimentary organic matter types <u>P.C. Hackley</u> , R.J. McAleer, A.M. Jubb, B.J. Valentine, J.E. Birdwell
		15:15-15:30	Rock-Eval based kerogen kinetics and the effect of rock matrix <u>V.I. Makri</u> , K. Kokkinopoulou, N. Pasadakis
15:35-16:00	Pseudovitrinite Working Group L. Gurba	15:30-15:45	Thermal maturation of the La Luna Formation in the Middle Magdalena Basin, Colombia <u>M. Garcia-Gonzalez</u> , T.S. Palmera-Henao
		15:45-16:00	Influence of thermal intrusion on solid bitumen in the Alum Shale, Central Sweden <u>A. Liu</u> , H. Sanei, N.H. Schovsbo, X. Zheng, L. Bian
16:00-16:30	<i>Coffee Break</i>		
16:30-17:30	ICCP Com. II Session (cont.)	16:30-17:30	TSOP Technical Session D Chair: T. Gentzis, C. Fonseca
16:30-16:45	Coal Bed Methane-CO ₂ Sequestration L. Gurba	16:30-16:45	Elemental composition and facies analysis of the Late Cenomanian-Early Turonian Second White Specks and adjacent oil shales, Western Interior Seaway, Canada S. Mohebaty, F. Goodarzi, P.K. Pedersen, <u>T. Gentzis</u>
16:45-17:00	Shale Gas Studies L. Gurba	16:45-17:00	Organic matter characterization of a sedimentary succession of the Barra Velha Formation carbonates from the Santos Basin, offshore Brazil <u>C. Fonseca</u> , J. Torres Souza, A.D. de Oliveira, J. de Oliveira Mendonça, J.G. Mendonça Filho, L. Borghi

17:00-17:15	Com II closing remarks J. Kus, G. Siavalas	17:00-17:15	Spatial and temporal changes in the organic matter supply during the Cenozoic basin evolution in the Danish North Sea <u>Z. Zhou</u> , H.I. Petersen, N.H. Schovsbo, A. Rudra, H. Sanei
17:15-17:30	Optimization of reflectance measurements on complex blends WG (Com III) P. Crosdale	17:15-17:30	New insights into oil-to-source rock correlation of oils and asphalt seeps from Zakynthos Island and the west coast of Peloponnese, Western Greece <u>I. Oikonomopoulos</u> , T. Gentzis, H. Carvajal-Ortiz, E. Tripsanas
17:30-19:00	<i>Joint Poster Session</i>		
19:00-20:30	ICCP Council Meeting	19:00-20:30	TSOP Council Meeting
19:00-21:00	Joint TSOP-ICCP Student Event at "Poolevard"		

Wednesday, 20.9.2023

08:00-21:00	Mid-week field trips to Delphi or Mycenae archaeological sites
--------------------	---

Thursday, 21.9.2023

09:00-11:00	Joint ICCP-TSOP Symposium Chair: H.I. Petersen, M. Misz-Kennan
09:00-09:20	Molecular structure and long-term stability of biochars <u>A. Rudra</u> , H.I. Petersen, H. Sanei
09:20-09:40	Insight into the composition and permanence of biochar produced from pyrolysis of land plant and macroalgae biomass <u>H.I. Petersen</u> , H. Deskur, A. Rudra, S. Bachmann Ørberg, D. Krause-Jensen, H. Sanei
09:40-10:00	Olive kernel biochar and charcoal "in-fusion" in coke matrix vs. biocoke quality <u>M. Wojtaszek-Kalaitzidi</u> , M. Rejdak, M. Książek, S.Y. Larsen, S. Kalaitzidis
10:00-10:20	Pyrolytic alterations in organic matter of lignite gangue rocks from Troyanovo-3 Mine dump area (Mini Maritsa Iztok, Bulgaria) <u>M. Misz-Kennan</u> , Z. Milakovska, M.J. Fabiańska, M. Stefanova, D. Więclaw, G. Vladislavov

10:20-10:40	Organic matter research from the Pieniny Klippen Belt (Central Western Carpathians) <u>M. Zielińska</u> , E. Szram, M. Misz-Kennan, M. Fabiańska, D. Plašienka, R. Aubrecht, M. Molčan Matejová, T. Potočný
10:40-11:00	Interlaboratory study: Testing reproducibility of solid biofuel component identification using reflected light microscopy <u>A. Drobnik</u> , M. Mastalerz, I. Jelonek, Z. Jelonek
11:00-11:30	<i>Coffee Break</i>
11:30-13:00	Joint ICCP-TSOP Symposium Chair: H. Sanei, I. Sýkorová
11:30-11:50	Petrographic facets of Middle Eocene lignite with implications to coalbed methane potential from northern part of Cambay Rift Basin, India V.A. Mendhe
11:50-12:10	Influence of lithotypes and petrographic constituents on methane and CO ₂ sorption of coal from Early Permian-Gondwana deposits, India <u>P. Shukla</u> , V.A. Mendhe, S. Pandey
12:10-12:30	Evaluation of the effect of supercritical CO ₂ injection on remaining oil in depleted chalk reservoirs, Danish North Sea <u>X. Zheng</u> , R. Ørnekkoll Stenshøj, H.I. Petersen, H. Sanei
12:30-12:50	Exotic liptinite macerals – what are they and why such good generative potential? <u>G. Smith</u> , L. Johnson, I. Sadd
13:00-14:30	<i>Family Photo - Lunch Break</i>
14:30-16:00	Joint ICCP-TSOP Symposium Chair: S. Rodrigues, X. Xie
14:30-14:50	The characteristics comparisons of Cambrian source rocks in South China and Alum Shale in Europe <u>X. Xie</u> , Y. Liu, Y. Xu
14:50-15:10	Radiolytic alteration of uraniferous organic matter and base-metal mineralization in Bytiz, Příbram district, Czech Republic <u>T. Larikova</u> , I. Sýkorová, M. Havelcová, B. Kříbek
15:10-15:30	Decrypting paleomire conditions of superhigh-organic-sulfur coals from Meghalaya, India <u>T. Adsul</u> , S. Ghosh, M.D. O'Beirne, J.P. Werne, W.P. Gilhooly III, J. Houghton, D. Fike, P.C. Hackley, J. Hatcherian, A. Kumar Varma

15:30-15:50	Organic facies variability and paleoenvironmental characterization of the Codó and Itapecuru Formations (Aptian-Albian) of Parnaíba Basin, Brazil D.M. de Lima, J.G. Mendonça Filho, <u>C. Fonseca</u> , A.D. de Oliveira, J. de Oliveira Mendonça, P.A. Gonçalves
16:00-16:30	<i>Coffee Break</i>
16:30-18:00	Joint ICCP-TSOP Symposium Chair: P.A. Gonçalves, N.J. Wagner
16:30-16:50	Organic petrographical features of Miocene Meliadi-Moschopotamos lignite, Macedonia, northern Greece <u>P. Khanaqa</u> , S. Kalaitzidis, W. Riegel
16:50-17:10	Mineralogy and organic petrography of the No. 6 coal seam, Soutpansberg Coalfield, South Africa: Evidence for hydrothermal activity S. Biswas, <u>N.J. Wagner</u> , O.M. Moroeng
17:10-17:30	Petrological, mineralogical and geochemical proxies to the organic matter dispersed in the sedimentary rocks in Turgut area, Yatağan Basin, SW Türkiye <u>Z. Büçkün</u> , M. Çolak
17:30-17:50	Contribution of organic petrography in the study of volcanoclastic sequences: the case of West Acrocheiras section, Petrified Forest of Lesvos, Greece P. Papadopoulou, G. Iliopoulos, <u>K. Perleros</u> , S. Kalaitzidis, K. Christanis, N. Zouros
17:50-18:00	TSOP Closing Ceremony
20:30-24:00	<i>Dinner at "HEDYLOPHON ESTATE" (Sweet Hill)</i>

Friday, 22.9.2023

09:30-11:00	ICCP Com III, Session A
09:30-09:45	Com III Opening session M. Misz-Kennan, S. Rodrigues
09:45-10:10	Carbon Materials WG G. Predeanu, M. Wojtaszek-Kalaitzidi

10:10-10:35	Coke Petrography WG M. Wojtaszek-Kalaitzidi
10:35-11:00	Environmental applications of Organic Petrology WG G. Siavalas, S. Kalaitzidis
11:00-11:30	<i>Coffee Break</i>
11:30-13:30	ICCP Com III, Session B
11:30-12:00	Petrographic Identification and Classification of Components in Fly Ashes WG B. Valentim, N. Wagner
12:00-12:30	Self-heating in coal and coal waste dumps J. Kus, M. Misz-Kennan, D. Flores
12:30-13:00	Coal Blends Accreditation Program (CBAP) M. Wojtaszek-Kalaitzidi
13:00-13:30	Com III Closing Session M. Misz-Kennan, S. Rodrigues
13:30-14:30	<i>Lunch Break</i>
14:30-16:00	Joint ICCP-TSOP Microscope Session
16:00-16:30	<i>Coffee Break</i>
16:30-18:00	ICCP Closing Plenary Session

Post-Meeting field trips	
23.9.2023	Field trip to Keri Mire on Zakynthos Island
23-24.9.2023	Field trip to Western Greece and Ptolemais lignite-bearing Basin

