

16TH INTERNATIONAL GEORAMAN CONFERENCE, RHODES, GREECE, 24/27.09.2024

		PROGRAM						
		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY		
		23/9	24/9	25/9	26/9	27/9		
8:00-8:30		REGISTRATION						
8:30-9:00		OPENING OF THE CONFERENCE						
9:00-9:15	Renery talk Chair/Presenter: Adam Cuba		Maria Luca Frazzetti	Raman Microspectroscopy to Unravel Earth's Deep Carbon Cycling		Lutz Nasdala	Raman Spectroscopy - How It All Began	
9:15-9:30								
9:30-9:45								
9:45-10:00	Mineralogy & Petrology Chair: Sergio Anib, Stavros Triantafyllidis		David Pavlenko , Peter Voronchak, Alberto Resentini, Yamilck Buret	High resolution Raman mapping applied to geothermochronology		Juan Reyes Rodriguez , Marco Veneranda, Sofia Juve-Gonzalez, Aurelio Sanz-Amanz, Jose Antonio Manrique, Fernando Rull, Guillermo Lopez-Royes	Raman Spectroscopy Sensor for Gas Detection: Implications for Planetary Exploration and Industry	
10:00-10:15			Lorena Pappas , Simona Raneri, Alessandra Gianocelli, Sebastian Schoeder, Laurent Tranchant, Sabrina Mazzarelli, Luciana Karampala, Ferdinando Bossi, Stefania Karampala, Danilo Bersani	Exploring Tourmaline Chemistry: Insights From JUNOS, a 600 Å Raman Spectroscopy		Andoni G. Moral , Carlos Perez, Laura Seoane, Pablo Rodriguez-Perez, Iñaki Huchinson, Hannah Lerman, Melissa McHugh, Patricia Benito Parajo, Jesús Zafra, J. A. Rodriguez, Rosario Carcalch, Pilar Santamaría, Olga Prieto-Ballesteros, Juan López, José Antonio Manrique, G. Lopez Royes, I. Llanodraskovic, A. Ball	The PHOENIX for PANGAEA project: Portable and combined Raman instruments for ESA's future Lunar astromaterial exploration programme	
10:15-10:30			Kirill Andrey Andrey , Deyanir Sergey, Mikhailenko Denis	Raman imaging of melt inclusions in kyanite porphyroblasts in high pressure granulite xenoliths (the Eastern Pamir)		Shao Wang , Kim Zhang	Application of surface-enhanced Raman technique to in-situ detection of deep-sea cold seep	
10:30-11:00	COFFEE BREAK							
11:00-11:15	Mineralogy & Petrology Chair: Ntare Camille Chumun, Andriy Korovin		Katerina Papanikolaou , Denis Mikhailenko	Inclusions of Disordered Graphite in Kyanite-bearing Felsic Granite (the Eastern Pamir)		Patric Simonsen , Hannu Bachelis, Ludmila Fomina, Carmen Sanchez-Vale, Stephan Klemm, Jaeger Herold, Erika Karantza, Dimitrios Palios, Patric N. Okamoto, Paul Asimov	Raman Spectroscopy of the Steubica Melanite	
11:15-11:30			Tatyana Hovari , Sergey Zhmudik, Sergey Gayalov	Raman spectra of pyrite from black shale and asphaltite deposits, Russia		Luisa Palencia , Inaki Prieto, Cristina Garcia-Florentina, Inaki Aramendi, Laine Cilencia, Fernando Alberquilla, Jennifer Nolasco, Gorka Arak, Kapa Castro, Jesús Martínez-Frías, Juan Manuel Madariaga	Raman Imaging as a key tool for determining the nature of organic inclusions and alteration phases in metamorphic rocks in a diagenetic system	
11:30-11:45			Hankang Li , Ming Chou, Xian Wang	Pressure Sensor Based on the Raman Shift of the 128-cm ⁻¹ Band of Quartz for Pressure Measurements in the Hydrothermal Diamond-Anvil Cells		David Malabar , Ian R. Hutchinson, Hannah Lerman, Melissa McHugh, Gaskin Eppie	PCA as a simple tool to characterize the composition of olivine and other oxide minerals from a meteorite sample interrogated by Raman spectroscopy	
11:45-12:00			Jing Chou , Hankang Li, Xian Wang, Shenghe Li	The Use of Raman Shifts of Quartz 128-cm ⁻¹ Band for the Refinement of the α - β Quartz Pressure-Temperature Stability Boundary and the Acquisition of Isochores of NaCl-H ₂ O Solutions in the Hydrothermal Diamond-Anvil Cells		Esteban Ruiz , Iván Latorre, Tania Delgado, Laura Barrio, Guillermo Lopez-Royes, José Antonio Manrique, María Veneranda, Aurilio Sainza, Anaiz, Fernando Gálvez, José María Calafra	Raman spectroscopic study of oligoclase at the Rio Pico of Pico (Azores) Spinel (Antarctica) Implications	
12:00-12:15			Angeliki Papadopoulou , Vasilios Pletas, Stephanos Kilias, Evangelia Dimou, Paraskevi Polymenakou, Paraskevi Nomiou, Vasiliki Papadimitriou, Joely Haak, Magnus Ivarsson, Nikos Kyriades	Raman spectroscopy evidence for arsenic sulfide mineralized diatom-like structures in deep-sea hydrothermal vents of Kolyma: contribution to arsenic biomineralization		Jenny Zeng , Wang Cheng, Zu Q. Q. Xiaohu, Shi Erbin, Zeng Xiaojia, Changming Lu, Lu Yagite	Exploring the mineralogical geology of Canua del Volcán in La Palma (Canary Islands, Spain) through Raman spectroscopy: A new mineralogical analogue for planetary exploration	
12:15-12:30			Maria-Camille Chumun , Alexandre Tarantola, Caroline Hussard, Gabriele Chocoy	Identification of some salt hydrates by Raman spectroscopy		Juan Zeng , Wang Cheng, Zu Q. Q. Xiaohu, Shi Erbin, Zeng Xiaojia, Changming Lu, Lu Yagite	Mineral Modes Quantification of Lunar Soil Simulants by Raman Spectroscopy	
12:30-12:45			Fernando Cruz Mesa , Fabio Gosetti, Sergio Andri, Davide Ballabio, Edoardo Garzanti	Experimental Evaluation of Pyrite Weathering Assisted by Raman Hyperspectral Imaging		Jin Hwang , Adam Dutka	Colorizing stone by microorganisms: from microbes to archaeology: 30 years of Raman spectroscopic advances	
12:45-13:45		LUNCH						
13:45-14:00		Geo-Environment & Geo-Energy Chair: Evangelia Papanikolaou, Maria Petraki		Michael Hondzo , Anna Stark, Simeon Yarov, Athena Chalari	Distributed Fibre Optic Sensing for CO ₂ Monitoring		Melissa McHugh , John Parnell, Ian Hutchinson, Hannah Lerman, Joseph Armstrong, Andoni Moral, Carlos Perez, Olga Prieto-Ballesteros, Carlos Perez, Cédric Malherbe, Howell Edwards	Lithium exploration adapted from Raman diagnosis of phyllosilicates for Mars
14:00-14:15				Jiangang Yang , Shuang Jin, Wenmei Yan, Yan Chen, Yao Ge, Lei Shi	Effects of Added Chemicals on Expansion of Oil Volume with CO ₂ Injection: Experimental Studies with High Pressure Optical Cell (HPOC) and In-situ Raman Spectroscopy		Carmen Huchinson , Ian Hutchinson, Hannah Lerman, Melissa McHugh, Howell Edwards, Andoni Moral, Carlos Perez, Olga Prieto-Ballesteros, Andrew Ball, Igor Drozdovskiy, Lorendana Bessone, Cedric Malherbe	Optimizing Handheld Instrumentation for Future Astromaterial Missions
14:15-14:30		Christos Salmas , Venantinos Alivisatos, Benedetti Kepar, Vasilios Sklitos, Petros Meza, Eleni Vasileiou, Ioannis Papanikolaou, Maria Petraki, Hantakis Papanikolaou	First Evidence of Microplastics in Mt. Tymfi's Akrotis Lake (Diagoras) in Greece Using μ -Raman Spectroscopy		Enli Erandadi , Ian Hutchinson, Melissa McHugh, Hannah Lerman, Howell G. M. Edwards, John Parnell, Joe Armstrong, Andoni Moral, Carlos Perez, Olga Prieto-Ballesteros	Context Imaging Enabled Raman Analysis for ESA's PANGAEA Programme		
14:30-14:45		Hanna Adveha Mäkelä , Anthony Dorazio, Mark Constantinos, Bill David, Christopher Masjo, Anne Rich, Zsófia Thomas, Cheng Wang, Guan Heng Yeoh, Scott Monozee	Twentieth Century Changes in the Fire Regimes of the Greater Blue Mountains World Heritage Area of Eastern Australia as Recorded in the Accumulation and Raman Character of Charcoal in Temperate Highland Peat Sequences		Jack Stachan-Dug , Ian Hutchinson, Hannah Lerman, Melissa McHugh, Howell Edwards, Andrew Ball, Igor Drozdovskiy, Lorendana Bessone	Development of a Raman Spectrometer Autoclave System		
14:45-15:00	Gemology Chair: Stephano Karampala, Danilo Bersani		Rafael Alonso-Ferraz , Adriana Hermann, Daniel Grey, Manuel Palacios, Arthur McClelland	Micro-Raman Spectroscopy Characterization of Emeralds Combined With LA-ICP-MS Analysis and Multivariate Statistical Methods		Hannah Lerman , Ian Hutchinson, Melissa McHugh, Howell Edwards, Fernando Rull, Andoni Moral, Carlos Perez, Olga Prieto-Ballesteros, John Parnell, Joe Armstrong, Christian Schroder	Raman Spectroscopy on the Moon: the space HAKUTO-R/MSO-4	
15:00-15:15			Stefania Karampala , Ugo Henkebot, Aurélien Delavay	Raman spectroscopy of amphibole inclusions in emeralds		Julia Salas , Marco Veneranda, José Antonio Manrique, Pilar Remoto, Paula Xacobe-Vega, Juan Reyes-Rodriguez, Aurelio Ben-Avramo, Fernando Rull, Guillermo Lopez-Royes	Determine the Elemental Composition of Minerals from Complex Solid-Solution Series by Raman Spectroscopy: Implications for Mars Exploration Missions	
15:15-15:30		Stefania Karampala , Stefano Legnelli, Vincenzo Pallacchi, Simona Raneri	The "Peace of Siena" in Arezzo (Italy) and their gems		Eréndico Escobar , Mickael Baquet, Jean Pierre Paul de Vera, Aurelien Canizares, Rebecca Martellotti, Thierry Sauvage, Paul Signé, Olivier Wendling, Aurélien Bottony, William Nave, Françoise Bradiat	Alteration of Astrobiological Materials under Proton Irradiation Studied by In-Situ Raman Spectroscopy: Relevance for the Search for Life on Mars		
15:30-15:45		Luis E. Aradi , Ester Horváth, Viktória Mészai, Bernadett Bajnóczi	Tracking Gemel Provenance of Polychrome Jewellery from the Hunnic Period in the Carpathian Basin		Alan Wang , Chuck Yan, Andrew Jackson, Neil Sturchio, Alex Braday, Jen Houghton, Hao Yan, Huiming Bao, Kevin Oskin	Chlorine Cycle on Mars Driven by Heterogeneous Electrochemistry (HEC)		
15:45-16:00		Maria Nikolaidou , Stefania Karampala, Evangelia Tsongaraki, Lambini Papadopoulou, Christos Katsifas, Ioannis Nafis, Annarita Touloumtzidou, Vasilios Melios, Nikolaos Kantiranis	Gems in Hellenic Jewellery of ancient Pnyca from the Collections of the Archaeological Museum of Thessaloniki, Greece		Susanne Schröder , Ute Böttger, Yulchiro Cho, Heiko-Wilhelm Hübers, Olga Prieto-Ballesteros, Fernando Rull, Maximilian Buder, Yuli Runkel, Emma Dietz, Till Hageböhmer, Shingo Kamada, Emanuel Kopp, Andoni Moral Inza, Martin Perntner, Disbert Peter, Andreas Pohl, Kristin Pannofili, Sergio Ruffini, Conor Ryan, Thomas Saubert, Friedrich Schmitt, Fabian Seel, Stephan Wamee, Tomohiko Usui, Iris Weber, Karsten Westendorff	RAX: The Raman Spectrometer on the MMX IDEXF Rover for in-situ Surface Analysis on Phobos		
16:00-16:30	COFFEE BREAK - POSTER SESSION							
16:30-16:45	Planetary Sciences & Exobiology Chair: Adam Cuba					José Antonio Manrique , Elise Clave, Guillermo Lopez-Royes, Oliver Royes, Marco Veneranda, Juan Martín Ollas, Olivier Fani, Evni Dehouck, Kapa Castro, Juan Manuel Madariaga, Jaione Aramendi, Inaki Poblacion, Shiv K. Sharma, Susanne Schroder, Sylvain Bernard, José Cornejo, Evan Kelly, Sofia Juve-Gonzalez, Juan Reyes-Rodriguez, Tatyra Acosta, Teresa Farnano, Fernando Rull, Sylvette Maurice, Olivier Gasshauf, Sam Clegg, Agnes Cousin, Roger Wiens, the SuperCam Raman Working Group, the SuperCam Team	SuperCam: 1000 Sols of Roman Results From Jovian Crater	
16:45-17:00						Olga Prieto-Ballesteros , César Menor Salván, Laura J. Bonales, Yulchiro Cho, Andoni G. Moral, Javier Sánchez-España, Carlos Peral-Camero, Oscar Ercilla, Ana de Dios-Cullitas	Asteroid Treasure Hunt Probing Proberic precursors in C-Type Asteroids	
17:00-17:15	POSTER SESSION							
17:15-17:30	POSTER SESSION							
17:30-17:45	POSTER SESSION							
17:45-18:00	POSTER SESSION							
18:00-20:00	R S T E T I G R O U P I A N	GUIDED VISIT TOUR IN THE MEDIEVAL AND THE NEW CITY						
20:00-22:00		WELCOME DRINK			CONFERENCE DINNER		GRISAC DINNER	

FIELD EXCURSION

Cultural Heritage & Archaeometry
Chair: Adriano Sabatini, Jari Veikkola

Cultural Heritage & Archaeometry
Chair: Peter Vandembaele, Adriano Sabatini

Sponsors
1230-1250
Chair: Peter Vandembaele, Adriano Sabatini

CLOSURE OF THE CONFERENCE

Cultural Heritage & Archaeometry
Chair: Peter Vandembaele, Adriano Sabatini

Planetary Sciences & Exobiology
Chair: Adam Cuba