# Syrcer '23 Crete

14, 15 & 16 June 2023 • Milos Island, Greece

The International RILEM Conference on Synergising Expertise Towards Sustainability and Robustness of Cement-based Materials and Concrete Structures

# PROGRAMME AND PRACTICAL INFORMATION



# Syner '23 Crete

# WELCOME TO SYNERCRETE'23

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# WELCOME TO SYNERCRETE'23

Following the legacy of COST Action TU1404, which initiated the SynerCrete conference series in 2018, the 2023 Edition focuses on communicating, discussing and encouraging progress in research, development and application of cement-based materials and structural con**CRETE**, which has been attained through **SYNER**gy of expertise from distinct fields of knowledge.

SynerCrete'23 has wide international institutional support from RILEM, fib, JCI and ACI. The conference consists of 2 keynote speakers and 226 regular papers presented over 3 days. Organised as a RILEM event, in addition to general conference sessions, SynerCrete'23 encompasses working meetings and special sessions of 8 RILEM TCs.

Intense days are ahead of us, providing various opportunities for scientific discussion and networking. Many people have contributed to the organisation of this event, and will be available to support you during SynerCrete'23.

A warm welcome to all of you!



Agnieszka Jędrzejewska *Chair* 



Fragkoulis Kanavaris
Chair



Miguel Azenha
Co-chair of Scientific
Committee



Farid Benboudjema
Co-chair of Scientific
Committee



Dirk Schlicke Co-chair of Scientific Committee

# **KEYNOTE SPEAKERS**

### **Maria STEFANIDOU**

Title of presentation: Substituting natural pozzolan with artificial derived from industrial perlite waste for mortar production

DAY 2 (Thursday), 9:30 - 10:15

Professor Maria Stefanidou is the director of the Laboratory of Building Materials, Civil Engineering Department AUTH (Greece). She has obtained a degree in Geology, Master in Nanoscience and Nanotechnologies in Physics and a PhD in Civil Engineering from AUTH. Her main research fields are: a) analysis of the physico-mechanical and microstructure properties of historic materials (mortars, stones, bricks); b) study of raw materials for increasing their performance on innovation in science using principles of sustainability and c) introduction of additives in building materials (nano-materials, bio-fibres, by-products) and assessment of their mechanical, physical, chemical, microstructural and thermal properties. She is a research group member in 110 national and European projects and research coordinator in 25 projects. She has organised conferences, training schools and seminars to disseminate new technologies in building materials and serves as an associate editor in Journal of Building Engineering (Elsevier). She is a member of RILEM TCs and is RILEM's Regional Convener in Europe.



### **Jean-Michel TORRENTI**

Title of presentation: Fast carbonation of recycled concrete aggregates - the results of the FastCarb project

DAY 3 (Wednesday), 9:00 - 9:45

Professor Jean Michel Torrenti is a researcher in the department of Materials and Structures at the Université Gustave Eiffel (France). He is also a professor at Ecole nationale des ponts et chaussées. His research concerns mechanics of concrete and its coupling with durability and sustainability aspects: behavior of concrete at early age, creep, leaching, and is applied to model the behavior of structures such as bridges, nuclear power plants, and nuclear waste storage, recycling, low carbon concrete. A director of the French project FastCarb about accelerated carbonation of recycled concrete aggregates. He is a co-author of several papers and books concerning concrete and concrete structures. He is the convener of COM4 (materials) and a member of the presidium of the *fib*.



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### **DAY 1 • WEDNESDAY, JUNE 14, 2023**

		ROOM P	ROOM A2	ROOM B1	ROOM I	ROOM B3
8:00		RILEM TC 287-CCS meeting: Cracking in RC structures	RILEM TC 299-TES meeting: Thermal energy storage in cementitious composites	RILEM TC 298-EBD meeting: Durability of pastes against ions	RILEM TC 283-CAM meeting: Chloride transport in alkali- activated materials	RILEM TC MCP meeting: Accelerated mineral carbonation for material production
13:00	z			LUNCH		
	0	ROOM A1	ROOM A2	ROOM B1	ROOM I	ROOM B3
14:00	SISTRAT	RILEM TC MCP special session: Accelerated	RILEM TC 299-TES special session: Thermal	RILEM TC 298-EBD special session: Durability of pastes against ions	RILEM TC 275-HDB special session: Bio-	
14:00  RILEM TC MCP special session: Accelerated mineral carbonation for material production  RILEM TC 299-TES special session: Durability of pastes against ions energy storage in cementitious composites  RILEM TC 298-EBD special session: Durability of pastes against ions RILEM TC 283-CAM special session: Bio-aggregate based building materials  COFFEE BREAK	RILEM TC 281-CCC					
16:00			COFFEE	BREAK		meeting: Carbonation of concrete with
	I	ROOM A1	ROOM A2	ROOM B1	ROOM B2	supplementary cementitious materials
16:30		RILEM TC 302-CNC special session: Carbon- based materials for cementitious matrices	RILEM TC 299-TES special session: Thermal energy storage in cementitious composites	Rillem TC 298-EBD special session: Durability of pastes against ions	RILEM TC 275-HDB special session: Bio- aggregate based building materials	cemenuuous materiais
18:00				Free Time		
19:00 21:00			Welcome cock	tail and exhibition (conferen	ce venue)	

### **DAY 2 • THURSDAY JUNE 15, 2023**

00							
					ROOM A1		
		9:00			Opening Ceremony		
		9:30 10:15		Keynote Speaker 1: I	<b>Maria Stefanidou</b> (Chair: <b>Fr</b>	agkoulis Kanavaris)	
			ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
	Z O	10:30	Supplementary cementitious materials	Durability and robustness of concrete materials and structures	Modelling of cement- based materials (macroscopic/multiscale approach)		
	₽	11:15		COFFEE	BREAK AND GROUP	РНОТО	
	⊢ R		ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
	REGISTRATIO	11:45	Supplementary cementitious materials	Durability and robustness of concrete materials and structures	Modelling of cement- based materials (macroscopic approach)	Early-age behaviour of non-Portland cement materials	Integral BIM-based planning
	ابا	13:00			LUNCH		
	HALL		ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
		14:30	Supplementary cementitious materials	Durability and robustness of concrete materials and structures	Modelling of cement- based materials (atomistic and dynamic molecular simulations)	Valorisation and recycling of non- binder components of concrete	Design and performance
		16:15			COFFEE BREAK		
			ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
		16:30	Supplementary cementitious materials	Durability and robustness of concrete materials and structures	Modelling of cement- based materials	Valorisation and recycling of non-binder components of	Design and performance
						concrete	
00		18:00 23:00	Pleas	se be at the Milos Conferen	Conference Dinner ce Center entrance at 18h15	o. and board the conference	e bus

### **DAY 3 • FRIDAY JUNE 16, 2023**

8:00							
					ROOM A1		
		9:00		Variata Canaliar 2. I	ann Michal Tarranti (Chair	Family Bombourdiams	
		9:45		Reynote Speaker 2: Je	e <b>an-Michel Torrenti</b> (Chair:	rana Benbouajema)	
			ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
		10:00	Non-standardised testing techniques	RILEM TC 281-CCC Special Session: Carbonation of concrete with supplementary cementitious materials	Behaviour of non- Portland cement materials	Durability and delayed strains in non-Portland cement materials	Structural Health Monitoring and maintenance management
		11:15			COFFEE BREAK		
	_		ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
	EGISTRATION	11:45	RILEM TC 287-CCS Special Session	RILEM TC 281-CCC Special Session: Carbonation of concrete with supplementary cementitious materials	Durability and delayed strains in non-Portland cement materials	Non-standardised testing techniques	Structural Health Monitoring and maintenance management
	REG	13:00			LUNCH		
			ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
	HALL	14:30	RILEM TC 287-CCS Special Session	RILEM TC 281-CCC Special Session: Carbonation of concrete with supplementary cementitious materials	Data, Machine learning & optimization	Non-standardised testing techniques	Supplementary cementitious materials
		15:45			COFFEE BREAK		
			ROOM A1		ROOM B1	ROOM B2	ROOM B3
		16:15	RILEM TC 287-CCS Special Session		3D printing	Non-standardised testing techniques	Supplementary cementitious materials
					ROOM A1		
		17:15			Closing session		
		17:45					
18:00							

### **DAY 4 • SATURDAY JUNE 17, 2023**

9:00	
	Boat tour (Optional) boarding at Adamas port
	Registration needed
14:30	

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### **DAY 1 AM • WEDNESDAY, JUNE 14, 2023**

		ROOM P	ROOM A2	ROOM B1	ROOMI	ROOM B3
8:00						
10:00	STRATION: 10:00 - 19:00 HALL	RILEM TC 287-CCS meeting: Cracking in RC structures	RILEM TC 299-TES meeting: Thermal energy storage in cementitious composites	RILEM TC 298-EBD meeting: <b>Durability of</b> <b>pastes against ions</b>	RILEM TC 283-CAM meeting: Chloride transport in alkaliactivated materials	RILEM TC MCP meeting: Accelerated mineral carbonation for material production
13:00	EGISTR			LUNCH		
14:00	2					

### **DAY 1 PM •** WEDNESDAY, JUNE 14, 2023

Carbonation of converte skerty waste and its use applications of control skerty waste of the control specific of a selected process parameters of whitelage of with respiration with the control specific of selected process parameters during carbonation hastening on the CO2 Jointing potential of controllations with respiration in the control of the co	material production Chairpersons: Ruben Snellings and Thomas Matschei	Thermal energy storage in cementitious composites Chairpersons: Antonio Caggiano and Jorge Dolado	RILEM TC 298-EBD special session:  Durability of pastes against ions  Chairperson: William Wilson	RILEM TC 275-HDB meeting: Bio-aggregate based building materials	RILEM TC 281-CCC meeting	
Supplementary contraction candred complements of control programs	ROOM A1	ROOM A2	ROOM B1	ROOMI	ROOM B3	
accordant former former (CVS shorter)  former for Committee former forme	s supplementary cementitious material rank Winnefeld, Johannes Tiefenthaler,	shrinkage of ultra-light foam concrete with phase change material <u>Barbara Klemczak</u> , Jacek Gołaszewski, Grzegorz	investigate external sulfate attack on blended cement pastes			14:00
the contract of the contract of contract of the contract of th	proportion hardening on the CO2-binding otential of cementitious materials ena Woydich, Anne Heisig, Harald Hilbig, Alisa	Graphene Oxide for Thermal Insulation for Buildings Edurne Erkizia, Christina Strunz, Jean Luc Dauvergne, Guido Goracci, Ignacio Peralta, Ángel Serrano, Amaya Ortega, Beatriz Alonso, Francesca Zanoni, Michael Düngfelder, Jorge S. Dolado, Juan Jose Gaitero, Christoph Mankel,	dependence of diffusion in cementitious materials			14:15
Programed with recycled control aggregation provings, regarding servings, regarding se	ggregates by accelerated carbonation lexander Oliva Rivera, Jan Suchorzewski,	thermal metamaterials <u>Víctor D. Fachinotti</u> , Juan C. Álvarez Hostos,	cements			14:30
Coolerated carbonistion of necycled concerts projected of anti-impropulation on themsochemical projected of anti-impropulation of industrial projected of anti-impropulation on themsochemical projected of anti-impropulation of industrial projected of anti-impropulation of themsochemical projected of anti-impropulation projected of anti-impropulation of anti	repared with recycled concrete aggregates: aggregate property, experimental setup and reliminary results	Change Materials (PCM) and Biomass ash for energy efficiency in architectural applications Cynthia Guardia, Ana Guerrero, <u>Gonzalo</u>	Düngfelder, Jorge S. Christoph Mankel,  Alvarez Hostos, Iggiano  Sites with Phase d Biomass ash for ctural applications rero, Gonzalo  RILEM TC 275-HDB meeting: Bio-aggregate based building materials  Numerical simulation of chloride ion ingression in mortar incorporating the effect of ITZ using an integrated COMSOL-IPHREEOC framework Siventhirarajah Krishnya, Yogarajah Elakneswaran, Yoda Vuya, Kitagaki Ryoma  RILEM TC 283-CAM special session: Chloride transport in alkali-activated materials Chairperson: Arnaud Castel  ROOM B1  Durability of nano-engineered High Volume fly ash composite: Sustainable alternative for adaptation to climate change Chamila Gunssekara, David W. Law, Charith Herath, Sujeeva Setunge  Microstructure and performance of three silicate binders in the range CSH-CASH-NAS Jeanette Visser, Juan Garzon-Amortegui, Timo Nijland, Sacha Hermanns  Testing geopolymer concrete performance in chloride environment  RILEM TC 275-HDB meeting:  RILEM TC 275-HDB meeting:  Bio-aggregate based building materials  RILEM TC 275-HDB special session: Bio-aggregate based building materials Chairperson: Arnaud Castel  Rilem TC 275-HDB special session: Bio- aggregate based building materials Chairperson: Arnaud Castel		14:45	
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materials materials contends appeared price of processes and processes designed prices (place) processes and processes designed prices (place) processes and	ggregates and model materials arah Kaddah, Ouali Amiri, Harifidy	Dolado, Juan Jose Gaitera, Christoph Mankel, Eduardus Koenders  Computational design of building envelopes as thermal metamaterials are Riverory Jan Suchorzewski, aga where Jan Suchorzewski, aga whe			15:00	
of peopolymers and hybrid materials for solar between clarkedoch, Alexander progression alturnary clarked byte date, Marked Engine Agency Series Series Control Courney Deve Regions, Advanced Courney Courney Deve Regions, Advanced Courney	r the production of carbonated supplementary ementitious materials <u>rancesca Bonfante</u> , Giuseppe Ferrara, Pedro	materials	binders in the range CSH-CASH-NAS <u>Jeanette Visser</u> , Juan Garzon-Amortegui, Timo	aggregate based building materials		15:15
Internal energy  Intern				ROOM B2		15:30
Contraction between the high carbon devices the finite between the high carbon devices the high ca	agnesium alumino silicate hydrates (M-A-S-H) lina Bernard, Barbara Lothebach, Alexander	In the formation of ordrates (M-S-H) and ilicate hydrates (M-S-S-H) are Lothebach, Alexander feld  In the formation of of dates (M-S-H) and ilicate hydrates (M-S-H) are Lothebach, Alexander feld  In the formation of of dates (M-S-H) and ilicate hydrates (M-S-H) are Lothebach, Alexander feld  In the formation of of depoplymers and hybrid materials for solar thermal energy and properties for chloride environment and properties for chloride envi				
RILEM TC 292-TES special session: Carbon-based materials for cementiflous matrices Chairperson: Mirror Liebsher Chairperson: Softme Amdraine and Florence Collet  ROOM 81  Phase Change Metharial shape stabilized in blockar for energy efficiency and structural steragh enhancement in buildings composites with improved water and chloride seistance Chairperson: Softme Amdraine and Florence Collet  ROOM 81  Phase Change Metharials shape stabilized in blockar for energy efficiency and structural steragh enhancement in Judicians steragh enhancement in Judicians American Lieutural had methanical programs (Florence Collet)  Self-sufficient reactive transport modelling in cement based materials with low-cathon food sprint Quitable Mirror Florence Collet Julies Desorte, Timer Floryad, Mohammed Samely, Su Toylor  Self-sufficient reactive transport modelling in cement pasts under an electric field Francesca Reichlin, Christian Ragilia Francesca Reichlin, Ragilia Francesca Ragilia Francesca Rag		for sustainable constructions: thermal and sensing characterization Andrea Meoni, Claudia Fabiani, Antonella	and diffusion coefficients of Alkali-Activated Concrete <u>Patrycja Duży</u> , Izabela Hager, Marta Choińska,	of mineral binders and the mechanical performance of plant-based concretes Ana Laura Berger Cokely, Natalia Araujo Martinhoo, Rafik Bardouh, <u>Sandrine Marceau</u> , Fabienne Farcas, Evelyne Toussaint, Sofiane	Carbonation of concrete with supplementary cementitious	
Chairperson: Marco Liebsher ROOM A1 ROOM A2 ROOM B1 ROOM B2 Phase Change Metalish shape stabilized in bick-the for energy efficiency and structural sendance and individue seistance of lime-natural pozocolan mortars in salk-baden environment of self-sensing cementitious of the properties of the importance of migrating corrections of the properties of the importance of migrating correct self-state for energy efficiency and structural structural hand mechanical properties of the marco and the compressive strength of hemp concrete same at and ultrasensitive reinforcements of mentioning in cement-based materials with low-carbon foot-print of the properties of the my because of the compressive strength of hemp concrete same at and ultrasensitive reinforcements of mentioning in cement-based materials with low-carbon foot-print of the print of the p			BREAK			16:00
Povelopment of self-sensing cementitious composites with improved water and chloride esistance where the properties with improved water and chloride esistance where the properties with improved water and chloride esistance where the properties with improved water and chloride esistance where the properties with improved water and chloride esistance where the properties of the provided properties of the pr	Carbon-based materials for cementitious matrices	Thermal energy storage in cementitious composites Chairpersons: Antonio Caggiano and	Durability of pastes against ions	<b>Bio-aggregate based building materials</b> Chairpersons: Sofiane Amziane and		
salt-baden environments selstance se	ROOM A1	ROOM A2	ROOM B1	ROOM B2		
in cement-based materials with low-carbon foot-print on the presentations matrices for crack detection and toot-print on the print of t	omposites with improved water and chloride isistance lenkui Dong, Wengui Li, Marco Liebscher, Viktor	biochar for energy efficiency and structural strength enhancement in buildings Carolina Santini, <u>Claudia Fabiani</u> , Antonella	Calibration of Tang's Model for concentration dependence of diffusion in cementificus materials  Never Ukrainczyk, Eddie Koenders  Numerical simulation of chioride ion ingression in mortar incorporating the effect of ITZ using an integrated CMOSI - PHREEO Cramerous. Siventhironyals Krishnyu, Yogongibi.  Placineswama, Yoshi Yug, Katgadis Krjomo.  RILEM TC 233-CAM special session: Chloride transport in alkall-activated materials Chairperson: Amoud Costel  ROOM B1  Durability of nano engineered High Volume Fy and composits Sistandahe alternative for adaptation to climate change. Chemility General Public Market Fy and composits. Sistandahe alternative for adaptation to climate change. Chemility General Public Associated Public	16:30		
In the piezo-resistive behavior of self- sensing cementatious composites sensing cementations composites sensing cementations composites sensing cementations composites sensing cementations composites softenear Collet, Stijn Mertens, Paulina Faria, Softenear Miziane, Thibaut Collinart, Camille Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Oscar Mendoza Reales Selfect of carbon nanomaterials on the microstructural and mechanical properties of Seopolymer Binders Selfect of military bubyey, Leon Winn, Neven Ukrainczyk, Scrivener  Performance of migrating corrosion inhibitors in cracked reinforced concrete exposed to marine environment Igar Lapira, Guy Zur, Ela Ofer-Rozovsky, Rami Eld, Konstantin Kovler  Slag or reacted binder, which dissolves first in sulphuric acid? Nana Wen, Arne Peys, Tobias Hetrel, Vincent Hallet, Yiannis Pontikes  measurement of vegetal concrete Florence Collet, Stijn Mertens, Paulina Faria, Sofinea miziane, Thibaut Collinart, Camille Magniont, Stylvie Prérot, Romildo Dias Toledo Filho, Mergin Lapounia Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Romildo Dias Toledo Filho, Megin Libutation of the resistance against Magniont, Sylvie Prérot, Reales Magniont, Sylvie Prérot, Reales Magniont, Sylvie Prérot, Reales Rheological behavior of 3D printable bio- concretes	nart and ultrasensitive reinforcements of ementitious matrices for crack detection and ructural health monitoring arco Liebscher, Lazaros Tzounis, Cesare		in cement-based materials with low-carbon foot-print	properties of hemp thermal insulation <u>Lily Deborde</u> , Christophe Lanos, Florence Collet,		16:45
bulk chloride diffusion William Wilson, Fabien Georget, Karen L. Scrivener  Performance of migrating corrosion inhibitors in cracked reinforced concrete exposed to marine environment Igor Lapiro, Guy Zur, Ela Ofer-Rozovsky, Rami Eld, Konstantin Kovler  Slag or reacted binder, which dissolves first in sulphuric acid? Nana Wen, Arne Peys, Tobias Hetrel, Vincent Hallet, Viannis Pontikes  bulk chloride diffusion Concretes produced with rice husk Matheus P. Tinoco, Oscar A.M. Reales, Romildo D. Toledo Filho  Flax fabric-reinforcement lime composite as a strengthening system for masonry materials: Study of adhesion Ali Rakhsh Mahpour, Josep Claramunt, Mònica Ardanuy, Joan Ramon Rosell  17:30	egree on the piezo-resistive behavior of self- ensing cementitious composites laudio José Aguiar Junior, Pedro de Almeida arísio, Carlos Fernando Teodósio Soares,	RILEM TC 293-CMS special session: Concrete and model materials (Participation on thermochemical properties of a metakading special geopolymer composite participation on thermochemical properties of a metakading special geopolymer composite participation of the properties of a metakading special geopolymer composite participation of industrial waste by the properties of a metakading special geopolymer composite participation of industrial waste by the properties of a metakading special geopolymer composite participation of industrial waste by the properties of the metakading special geopolymer composite participation of industrial waste by the properties of the propert	measurement of vegetal concrete <u>Florence Collet</u> , Stijn Mertens, Paulina Faria, Sofiane Amziane, Thibaut Colinart, Camille Magniont, Sylvie Prérot, Romildo Dias Toledo		17:00	
cracked reinforced concrete exposed to marine environment  Igor Lapiro, Guy Zur, Ela Ofer-Rozovsky, Rami Eld, Konstantin Kovler  Slag or reacted binder, which dissolves first in sulphuric acid?  Nana Wen, Arne Peys, Tobias Hetrel, Vincent Hallet, Yiannis Pontikes  strengthening system for masonry materials: Study of adhesion Ali Rakhsh Mahpour, Josep Claramunt, Mònica Ardanuy, Joan Ramon Rosell  Results of RILEM TC-275 (HDB) interlaboratory test on water vapor permeability of bio- aggregate based building materials Thibaut Colinart, Camille Magniont	icrostructural and mechanical properties of eopolymer Binders <u>liya Dubyey</u> , Leon Winn, Neven Ukrainczyk,		Interpreted COMSOL PHREEDC framework Semeror, Genzelo  RILENT C 238-CAM special session: Chloride transport in alkalf-activated materials Chrispierson: Amount Custel  RILENT C 238-CAM special session: Chloride transport in alkalf-activated materials Chrispierson: Amount Custel  ROOM BI  Station on themochemical in propolymer composite pic, Jonathon Evins, Amount composite pic, Jonathon Evins, Playing, Scatch Hermans  Amount composite pic, Jonathon Evins, Playing, Scatch Hermans  Amount composite pic, Jonathon Evins, Playing, Joseph Evins, Playing, Scatch Hermans  Amount composite pic, Jonathon Evins, Playing, Joseph Evins, Playing, Joseph Evins, Playing, Joseph Evins, Amount Composite pic, Jonathon Evins, Playing, Joseph Evins, Playing, Joseph Evins, Amount Composite pic, Jonathon Evins, Playing, Joseph Evins, Playing, Joseph Evins, Playing, Joseph Evins, Amount Composite pic, Jonathon Evins, Playing, Joseph Evins, Amount Composite pic, Joseph Evins, Playing, Joseph Evins, Pla	17:15		
sulphuric acid? test on water vapor permeability of bio-  Nana Wen, Arne Peys, Tobias Hetrel, Vincent aggregate based building materials  Hallet, Yiannis Pontikes Thibaut Colinart, Camille Magniont			cracked reinforced concrete exposed to marine environment Igor Lapiro, Guy Zur, Ela Ofer-Rozovsky, Rami	strengthening system for masonry materials: Study of adhesion Ali Rakhsh Mahpour, Josep Claramunt, Mònica		17:30
FREE TIME 18:00			Slag or reacted binder, which dissolves first in	Results of RILEM TC-275 (HDB) interlaboratory		17:45
THE COME COCKET AND EXCURPINE VIOLENCE VIOLET CONFERENCE VIOLET			sulphuric acid? <u>Nana Wen,</u> Arne Peys, Tobias Hetrel, Vincent Hallet, Yiannis Pontikes	aggregate based building materials		

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### **DAY 2 AM • THURSDAY, JUNE 15, 2023**

8:00			Registration (Hall): 08:00 - 18:00		
			ROOM A1		
9:00	Agnieszka Jędrzejewska (Chair)	and Fragkoulis Kanavaris (Chair), Emma	Opening Ceremony anuel Mikelis (Mayor of Milos), Nele de B	Belie (RILEM Vice President), Maria Stef	anidou (RILEM Europe Convener)
9:30	Keynote S	peaker 1: <b>Maria Stefanidou</b> - Substitutin	ng natural pozzolan with artificial derived Chairperson: <b>Fragkoulis Kanavaris</b>	I from industrial perlite waste for mortar	production
	Supplementary cementitious materials Chairperson: Dirk Schlicke	Durability and robustness of concrete materials and structures Chairperson: Agnieszka Jędrzejewska	Modelling of cement-based materials (macroscopic/multiscale approach) Chairperson: Farid Benboudjema		
	ROOM A1	ROOM A2	ROOM B1		
10:30	Binary and ternary shale binders with high replacement levels <u>Wolfgang Kunther</u> , Lasse Norbye Dossing	Length change and water uptake characteristics of synthesized calcium silicate hydrates Shinga Asamoto, Rintaro Koyama, Kunio Matsui, Keisuke Takahashi	A multiscale multiphysics platform to investigate cement based materials <u>Julien Sanahuja</u> , Francois Soleilhet, Jean-Luc Adia		
10:45	Properties of belite-rich cement with supplementary cementitious materials <u>Martin Boháč, Dana Kubátová, Anežka</u> Zezulová, Theodor Staněk	Leaching characteristics of Cs from the decomposed Cu ferrocyanide adsorbent solidified by Portland cement and geopolymer Kazuo Yamada, Tsuneki Ichikawa, Tojo Yasumasa, Kazuto Endo	Temperature-dependent behavior of mature cement paste: creep testing and multiscale modeling Eva Binder, Markus Königsberger, Rodrigo Diaz Flores, Herbert A. Mang, Christian Hellmich, Bernhard L.A. Pichler		
11:00	The Influence of Gypsum Content on the Hydration and Properties of Belite- Ye'elimite-Ferrite (BYF) Clinker Adam Sabbah, Semion Zhutovsky	Restoration of degraded calcium-silicate- hydrate in calcium-leached cement paste <u>Thinh Nguyen</u> , Quoc Tri Phung, Norbert Maes, Geert De Schutter, Özlem Cizer	Estimation of Protected Paste Volumes by Dirichlet Tessellation Associated with Point Processes of Air Voids Kazuya Ohyama, Shin-ichi Igarashi		
11:15			COFFEE BREAK AND GROUP PHOTO		
	Supplementary cementitious materials Chairperson: Kosmas Sideris	Durability and robustness of concrete materials and structures Chairperson: Shingo Asamoto	Modelling of cement-based materials (macroscopic approach) Chairperson: Bernhard Pichler	Early-age behaviour of non-Portland cement materials Chairperson: TBA	Integral BIM-based planning Chairperson: Jose Granja
	ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
11:45	Using non-standard concretes in a major infrastructure project: a multidisciplinary approach for implementation Athina Papakosta, Apostolos Tsoumelekas, Wolf Wichmann, Fragkoulis Kanavaris	Reaching beyond internal curing: the effects of superabsorbent polymers on the durability of reinforced concrete structures José Roberto Tenório Filho, Nele De Belie, Didier Snoeck	Numerical Modeling of Water Transfer in Geomaterials: Application to a Concrete Tunnel Subjected to Both Drying and Liquid Overpressure Aya Rima, Laurie Lacarrière, Alain Sellier, Minh Ngoc Vu	Effect of activator solutions on the thixotropic behavior of alkali-activated slag concrete Yubo Sun, Saeid Ghorbani, Guang Ye, Geert De Schutter	Enhanced Interoperability between Geotechnical and Structural Engineering for 3D Building Models <u>Haris Felic</u> , Dirk Schlicke, Andreas-Nizar Granitzer, Franz Tschuchnigg
12:00	Reduction of CO2 emission by using low carbon concretes with accelerating admixtures <u>Ekaterina Illarionova</u> , Anna Antonova, Fahim Al-Neshawy, Jouni Punkki	Experimental investigation on the novel self-healing properties of concrete mixed with commercial bacteria-based healing agent and crystalline admixtures Harry Hermawan, Virginie Wiktor, Pedro Serna, Elke Gruyaert	Multi-physics modelling of concrete shrinkage with the Lattice Discrete Particle Model considering the volume of aggregate <u>Yilin Wang</u> , Roman Wan-Wendner, Giovanni Di Luzio, Jan Vorel, Jan Belis	Evaluation of the cracking risk in alkali activated materials by means of restrained shrinkage test <u>Marco Sirotti</u> , Sarah Blomart, Brice Delsaute, Stéphanie Staquet	RecycleBIM approach towards integrated data management for circularity: proof of concept in a RC building Artur Kuzminykh, Manuel Parente, Vieira Vasco, José Granja, Miguel Azenha
12:15	Development of low-carbon lightweight concrete using pumice as aggregate and cement replacement Ali Abbas, Mathura Mahadevan, Saru Prajapati, Bamdad Ayati, Fragkoulis Kanavaris	A New Class of Hybrid Self-Healing Cementitious Materials Combining Shape Memory Alloy Wires and Super Absorbent Polymers Mario Antoun, Liam Butler	MASKE: Particle-Based Chemo-Mechanical Simulations of Degradation Processes Enrico Masoero	Effect of Aggregate Skeleton and Admixtures on Fresh and Hardened Properties of High-Strength Geopolymer Mortars Zoi G. Ralli, Stavroula J. Pantazopoulou	Towards standardization of data for structural concrete: product data templates Mohamad El Sibaii, Renan Rocha Ribeiro, Ricardo Dias, José Rui Pinto, José Granja, Miguel Azenha
12:30	Study on Properties and Performance of Green Concrete <u>Lisen Johansson</u> , Alireza Bahrami, Mathias Cehlin, Marita Wallhagen	Incorporation of Hybrid Biopolymer/Silicate- Based Microcapsules in cementitious mixtures for potential uses in Self-Healing Technology with Renewable Materials Sandra Arroyave, Eloy Asensio, Jairo E. Perilla, Paulo César Narváez-Rincón, Albeiro Cadavid, Ana Guerrero	Modelling of the CO2 uptake by recycled concrete aggregates <u>Philippe Turcry,</u> Bruno Huet, Jonathan Mai-Nhu, Pierre-Yves Mahieux, Thomas Pernin	Effect of SiO2/Na2O ratio on the fresh and mechanical properties of binary blend alkali activated mortar incorporating copper and blast furnace slags Saeid Ghorbani, Kobe Peeters, Stijn Matthys	Integral BIM-based planning José Alejandro Arellano Pericón, Dirk Schlicke
12:45	Exploration of Waste Glass Powder as Partial Replacement of Cement in Concrete Gaurav Chand, <u>Mithila Achintha</u> , Yong Wang	Study on Performance of Self-healing and Water Leakage Channel-Blocking Admixture for Mortar and Concrete <u>Karen Ito</u> , Hiromi Fujiwara, Masanori Maruoka, Kenji Kuwamoto		Effect of Organic Retarders On Fluid-State and Strength Development of a Rock-Based Geopolymer  Mohammadreza Kamali, Mahmoud  Khalifeh, S.M Samindi M.K Samarakoon, Saeed Salehi, Yuxing Wu	Industry 4.0 enabled modular precast concrete components: a case study Simon Kosse, Patrick Forman, Jan Stindt, Jannik Hoppe, Markus König, Peter Mark
13:00 14:30			LUNCH		

## **DAY 2 PM • THURSDAY, JUNE 15, 2023**

development of low-carbon concrete Anna Antonova, Ekaterina Illarionova, Fahim Al-Neshawy, Jouni Punkki  Evaluation of the correlation between ASR expansion and pozzolanic reactivity of ternary concrete systems containing glass powder Wena de Nazaré do Rosario Martel, Josée Duchesne, Benoît Fournier  Development of a framework to provide	ROOM B1  Einstein explains water transport in C-S-H Tulio Honorio  Multiscale modeling of the dielectric response of C-S-H Sofiane Ait-Hamadouche, Tulio Honorio, Thierry Bore, Farid Benboudjema, Franck Daout, Eric Vourc'h	ROOM B2  Microbial induced calcium carbonate precipitation (MICP) treatments for the reduction of water absorption of recycled mixed aggregates  Brigitte Nogy, Johanna Zentner, Andrea  Kustermann  Effect of elevated temperatures on concrete  made with ash from wood biomass and	ROOM B3  Fiberglass mesh reinforced rendering mortar: Effect of fiberglass reinforcement Pascale Saba, Tulio Honorio, Xavier Brajer, Farid Benboudjema  Flexural and shear performance of precast	14:30
development of low-carbon concrete  Anna Antonova, Ekaterina Illarionova, Fahim Al-Neshawy, Jouni Punkki  Evaluation of the correlation between ASR expansion and pozzolanic reactivity of ternary concrete systems containing glass powder Wena de Nazaré do Rosario Martel, Josée Duchesne, Benoît Fournier  Development of a framework to provide	Tulio Honorio  Multiscale modeling of the dielectric response of C-S-H Sofiane Alt-Hamadouche, Tulio Honorio, Thierry Bore, Farid Benboudjema, Franck	precipitation (MICP) treatments for the reduction of water absorption of recycled mixed aggregates Brigitte Nogy, Johanna Zentner, Andrea Kustermann  Effect of elevated temperatures on concrete made with ash from wood biomass and	mortar: Effect of fiberglass reinforcement <u>Pascale Saba</u> , Tulio Honorio, Xavier Brajer, Farid Benboudjema	14:30
expansion and pozzolanic reactivity of ternary concrete systems containing glass powder Wena de Nazaré do Rosario Martel, Josée Duchesne, Benoît Fournier Development of a framework to provide	response of C-S-H <u>Sofiane Ait-Hamadouche, Tulio Honorio,</u> Thierry Bore, Farid Benboudjema, Franck	made with ash from wood biomass and	Flexural and shear performance of procest	
		recycled polymer fibers from waste rubber Marija Jelcic Rukavina, Ivan Gabrijel, Martina Kozlik, Vanja Žvorc, Nina Štirmer	prestressed composite beams  Jakub Zając, Łukasz Drobiec, Julia Blazy, Krzysztof Grzyb	14:45
enhanced resistance against ASR-induced	Is thermal pressurization in C-S-H relevant for concrete spalling? <u>Fatima Masara</u> , Tulio Honorio, Farid Benboudjema	Evaluation of eco-friendly concrete release agents based on bio-waxes  Ojas Chaudhari, Giedrius Zirgulis, Isra Taha, Dag Tryggö	Assessing early-age dynamic elastic modulus in high-performance concrete Arosha Dabarera, Liang Li, Vishvendra Singh Jamwal, Nisarg Satapara, Xifeng Liu, Vinh Dao	15:00
freeze-thaw resistance of concrete Alexander Haynack, Alexander Schneider, Jithender J. Timothy, <u>Thomas Kränkel</u> , Christoph Gehlen, Charlotte Thiel	Atomistic dissolution of β-C2S cement clinker crystal surface: Part 1 Molecular Dynamics (MD) Approach <u>K. M. Saioh Uddin,</u> Mohammadreza Izadifar, Neven Ukrainczyk, Eduardus Koenders, Bernhard Middendorf	Use of recycled carbon fibres in textile reinforced concrete for the construction industry <u>Vanessa Overhage</u> , Thomas Gries	Assessment of deviations in material properties quantified under laboratory conditions and from the construction site <u>David Ov.</u> Juan Mauricio Lozano Valcarcel, Thomas Kränkel, Rolf Breitenbücher, Christoph Gehlen	15:15
is the durability key factor in low reactivity clay and limestone blended concrete Juan Lizarazo-Marriaga, Luis Felipe Salazar-Mayorga, Luis Eduardo Peña-Cruz		Development of Concrete Mixtures Based Entirely on Construction and Demolition Waste and Assessment of Parameters Influencing the Compressive Strength Gurkan Yildirim, Emircan Ozcelikci, Musab Alhawat, Ashraf Ashour	Development of filling grout material for boulder ground <u>Tomohiko Abe</u> , Egy Crystal Soesilo, Hiromi Fujiwara	15:30
metakaolin paste to cold chloride-sulfate environment: NMR spectroscopy assessment of structural changes in hydrated phases and	Quantum mechanically informed kinetic Monte Carlo models for hydrogen diffusion in BCC-iron Gonzalo Alvarez, Alvaro Ridruejo, Javier Sanchez	Deconstructable Concrete Structures made of Recycled Aggregates from Construction & Demolition Waste: the experience of the DeConStRACtion project Marco Pepe, Julien Michels, Giulio Zani, Marco Carlo Rampini, Enzo Martinelli	In-situ Casting Method and Durability of Cementitious Materials at Deep Seafloor Keisuke Takahashi, Tetsu Akitou, Mari Kobayashi	15:45
Air permeability of concrete damaged by Internal Swellings Reactions (ISR) Joe Maalouf, Hugo Cagnon, Jérôme Verdier, Jacques Jabbour, Stéphane Multon		Production waste fibres as a sustainable alternative for strengthening cementitious composites  Ana Baricevic, Katarina Didulica, Branka Mrduljaš, Antonija Ocelić	Effect of spatial variability on the failure behaviour of a reinforced concrete shear wall Wafaa Abdallah, Jacqueline Saliba, Sidi Mohammed Elachachi, Zoubir Mehdi Sbartai, Marwan Sadek, Fadi Hage Chehade	16:00
	COFFEE BREAK			16:15
Durability and robustness of concrete materials and structures Chairperson: Luca Valentini	Modelling of cement-based materials Chairperson: Tulio Honorio	Valorisation and recycling of non-binder components of concrete Chairperson: Camille Magniont	Design and performance Chairperson: Christophe Lanos	
Toward sustainable strengthening systems for RC structures	Experimental and numerical investigations on concrete abrasion of hydraulic structures <i>Qiong Liu, Min Wu</i>	Durability characterization of concrete using seashell co-products as aggregate replacement Camille Martin-Cavaillé, Alexandra Bourdot, Nassim Sebaibi, Rachid Bennacer	Probabilistic Assessment of RC Piers Considering Vertical Seismic Excitation Based on Damage Indices Shima Mahboubi, Mahmoud R Shiravand, Golshid Shid, Mahdi Kioumarsi	16:30
fiber-reinforced cementitious composite (HPFRCC) using titanium dioxide and	Thermomechanical investigations for the design of reinforced concrete facings <u>Eva Maria Dorfmann</u> , Dirk Schlicke, Viet Tue Nguyen	Valorization of sulphidic mine tailings as artificial aggregate: implementation in cement-based materials  Yury Villagran-Zaccardi, Liesbeth Horckmans, Arne Peys	Axial Strength of Pile Head Embedded with Steel Column: Effect of Reinforcing Bar on Axial Strength Kunie Ikeuchi, Tetsu Usami, Miyauchi Yasuyoshi	16:45
improve performance of dense mortar at elevated temperature	A benchmarking of Slag blended cement hydration models Jack Atallah, Harifidy Ranaivomanana, François Bignonnet, Stéphanie Bonnet	Influence of the composition of original concrete on the carbonated recycled concrete aggregates properties Sandrine Braymand, Sébastien Row, Hugo Mercado Mendoza, Florian Schlupp	Investigation of combined electronic and ionic thermoelectric concrete  Mostafa Yossef, Seyedabolfazl Mousavihashemi, Tanja Kallio, Jari Puttonen	17:00
Ultra High Performance Fiber Reinforced Concrete (UHPFRC) Spyridon Paschalis, Andreas Lampropoulos, Joseph Rizzuto	Development of an experimental-numerical approach to model cement paste microstructure using quantitative phase assemblage from XRD and thermodynamic modeling Mohammed Krameche, William Wilson, Arezki Tagnit-Hamou	Utilisation of COVID-19 waste PPE in the applications of structural concrete Shannon Kilmartin-Lynch, Rajeev Roychand, Jie Li, Mohammad Saberian, Fangjie Chen	New conceptions and constructive methods for Pumped Storage Hydropower plants <u>Eduardo Fairbairn</u> , Larissa Santos, Oscar Reales, Marina Farias, Rodolfo Andrade, Alfredo Flores	17:15
	Effect of member geometry on the modification factor for the degree of	Experimental investigation of the influence of hemp particles on hydration kinetics of multicomponent mineral binder Dmytro Kosiachevskyi, Kamilia Abahri, Anne Daubresse, Evelyne Prat, Mohend Chaouche	Design and Development of Multi-Faceted Engineered Concrete Nabodyuti Das, Prakash Nanthagopalan	17:30
	Replicating the failure mechanism of a Real-world Event with the Lattice Discrete Particle Model Gill Lifshitz Sherzer, Amichai Mitelman	Use of marble sludge waste and polypropylene fibers in developing eco-friendly strain resilient cementitious composites Souzann Tastani, Paraskevi Christou, Christos Kostas, Joannis Ismail		17:45
Effración Ciscles Emerore Michael Mich	fect of chloride concentration on the eeze-thaw resistance of concrete lexander Haynack, Alexander Schneider, thender J. Timothy, Thomas Kränkel, hristoph Gehlen, Charlotte Thiel arbonation or Chloride ingress? Which one the durability key factor in low reactivity ay and limestone blended concrete una Lizarazo-Marriaga, Luis Felipe alazar-Mayorga, Luis Eduardo Peña-Cruz exposure of Portland-limestone cement — etakaolin paste to cold chloride-sulfate environment: NMR spectroscopy assessment istructural changes in hydrated phases and elation to chloride ingress onstantinos Sotiriodis, Anton Mazur, Peter olistoy, Radek Ševčik ir permeability of concrete damaged by ternal Swellings Reactions (ISD) emanded from the materials and structures are materials and structures chairperson: Luca Valentini ROOM A2  Durability and robustness of concrete materials and structures Chairperson: Luca Valentini ROOM A2  Deward sustainable strengthening systems of RC structures ever-reinforced cementitious composite IPFRCC) using titanium dioxide and ylon fiber ong-Joon Choi, Soonho Kim, Taekgeun h, Rongzhen Piao, Doo-Yeol Yoo  VME as a sustainable alternative to prove performance of dense mortar at everated temperature (kash Singh, Gaurov Srivastava overads Development of Sustainable litra High Performance Fiber Reinforced oncrete (UHPFRC) pyridon Paschalis, Andreas	Atomistic dissolution of β-C2S cement clinker crystal surface: Part 1 Molecular by a manufaction of β-C2S cement clinker crystal surface: Part 1 Molecular by a manufaction of β-C2S cement clinker crystal surface: Part 1 Molecular by a manufaction of β-C2S cement clinker crystal surface: Part 1 Molecular by a manufaction of β-C2S cement clinker crystal surface: Part 1 Molecular by a manufaction of β-C2S cement clinker crystal surface: Part 1 Molecular by a manufaction of β-C2S cement clinker crystal surface: Part 2 Monamadreza Izadifar, Neven Ukrainczyk. K. M. Salah Uddin, Mohammadreza Izadifar, Neven Ukrainczyk. M. Molath Uddin, Mohammadreza Izadifar, Neven Ukrainczyk. M. Salah Uddin, Abarbar Neven Ukrainczyk. M. Salah Uddin, Neven Ukrainczyk. M. Salah Uddin, Abarbar Neven Ukrainczyk. M. Salah Uddin, Neven Ukrainczyk. M. Salah Uddin, Abarbar Neven Ukrainczyk. M. Salah Uddin, Neven Ukrainczyk. M. Salah Uddin, Newen Ukrainczyk	Alomistic dissolution of β-C2S cement clinker crystal surface. Part Molecular concrete for the construction monders byte of the construction industry in the control of promises (Mg) Approach (Mg) Ap	Secretarian content and an experiment of the property and an experiment of the property and an experiment of the property and a content of discontinuous desiration of the property and an experiment of the property and a second of the property and an experiment of the property a

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### **DAY 3 AM • FRIDAY, JUNE 16, 2023**

8:00			Registration (Hall): 08:00 - 18:00		
9:00	Keyn	ote Speaker 2: <b>Jean-Michel Torrenti</b> - F		ggregates - the results of the FastCarb p	project
	Non-standardised testing techniques Chairperson: Eduardo Fairbairn	RILEM TC 281-CCC Special Session: Carbonation of concrete with supplementary cementitious materials Chairperson: Nele de Belie and Susan Bernal	Chairperson: Farid Benboudjema  Behaviour of non-Portland cement materials Chairperson: Zhidong Zhang	Durability and delayed strains in non-Portland cement materials Chairperson: Arezki Tagnit-Hamou	Structural Health Monitoring and maintenance management Chairperson: Ueli Angst
	ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
10:00	An innovative experiment for air pressure measurements in crack models representative of real cracks in concrete Jean-Louis Tailhan, Giuseppe Rastiello, Jean-Claude Renaud, Claude Boulay	New insights into the carbonation process of mortars and concretes <u>Marlene Sakoparnia</u> , Isabel Galan, Bernhard Müller, Iris Zoegl, Joachim Juhart, Florian Mittermayr, Michael Autischer, Cyrill Grengg	Taguchi Method for Optimizing Alkali- Activated Mortar Mixtures Using Waste Perlite Powder and Granulated Blast Furnace Slag Joud Hwalla, Abdulkader El-Mir, Hilal El-Hassan, Amr El-Dieb	Strength and durability assessment of geopolymer mortars based on non-calcined dredged sediments <u>Lisa Monteiro</u> , Jacqueline Saliba, Humberto Yanez-Godoy, Nadia Saiyouri	Development of a low-budget monitoring system for expansion joints with real-time data analyses <i>Lukas Ambros, Natalie Binder, Christian</i> <i>Hölzl, Markus Vill</i>
10:15	Assessing cement matrix permeability by neutron dark field imaging Luca Valentini, Gregorio Dal Sasso, Fabio Castiglioni, Matteo Busi, Giorgio Ferrari, Maria Chiara Dalconi, Markus Strobl, Gilberto Artioli	Carbonation performance of hybrid ternary binders containing low-calcium fly ash and sodium sulfate Juan Manuel Etcheverry, Philip Van den Heede, Yury Andres Villagrán-Zaccardi, Nele De Belie	Influence of slag chemistry on the carbonation of sodium sulfate-activated slag cements  Zengliang Yue, Yuvaraj Dhandapani, Samuel Adu-Amankwah, Susan A. Bernal	Monitoring and modeling of visco-elastic strains of alkali-activated slag mortar since the earliest age Ali Naqi, Brice Delsaute, Markus Königsberger, Stéphanie Staquet	Monitoring of reinforced concrete structures: disposal of low and intermedia level radioactive waste Nuria Rebolledo, Julio E. Torres, Servando Chinchon, Javier Sanchez, Sylvia de Gregorio, Inmaculada López, Manuel Ordoñez
10:30	Dam concrete in situ creep tests. Experimental setup and results from six large concrete dams Carlos Sera, João Conde Silva, António Lopes Batista, Nuno Monteiro Azevedo	Carbonation of concretes with different binder chemistry – a comparative analysis Motea Flegar, Alma-Dina Bašić, Olivera Bukvić, <u>Marijana Serdar</u>	Characterization and prediction of clinker phase assemblage in low-CO2 iron-rich calcium sulfo-aluminate cements incorporating high volumes of bauxite residue Rahul Roy, Tobias Hertel, Yiannis Pontikes	Delayed deformations of Na- and K- sulfates activated blast-furnace slag mortars  Lei Li, Kinda Hannawi, <u>Aveline Darquennes</u>	Calibration of multi-physics models on weakly instrumented structures: applications to containment buildings Francois Soleilhet, Julien Sanahuja, Jean-Luc Adia
10:45	Developing a new rapid, relevant, and reliable (R3) method for accelerated measurement of carbonation progress under gas pressure Benedikt Grimm, Sebastian Münchmeyer, Thomas Kränkel, Christoph Gehlen, Chorlotte Thiel	Influence of curing type and duration on the resistance to accelerated carbonation and its relation to natural indoor and outdoor sheltered carbonation  Hanne Vanoutrive, Peter Minne, Özlem Cizer, Elke Gruyaert	Early-age hydration of an EAF slag based Alite—Ferrite cement clinker in the presence of Na2CO3 Aniruddha Baral, Visa Isteri, Elijah Adesanya, Juho Yliniemi, Timo Fabritius, Theodore Hanein	Effect of internal and external factors on the volume changes of slag binder activated by sodium hydroxide at early-age <u>Maité Lacante</u> , Brice Delsaute, Stéphanie Staquet	Strain and temperature monitoring in early-age concrete by distributed optical fiber sensing Carlos Gil Berrocal, Ignasi Fernandez, Ingemar Löfgren, Erik Nordström, Rasmus Rempling
11:00	Evaluation of chloride diffusivity in reinforced concrete under tensile load Amandine Asselin, Jean-Phillippe Charron, Clélia Desmettre, Farid Benboudjema, Cécile Oliver-Leblond	Influence of humidity and loading on carbonation and 4-point bending strength of slag cement basic mortar Elodie Piolet, Siham Kamali-Bernard	Thermal study of hemp concrete behavior when subjected to high temperatures by X-ray microtomography Chady El Hachem, Joseph Moussa, Kamilia Abahri (presented by Dmytro Kosiachevskyi)	Long-term mechanical and durability behaviour of two alkali-activated types of concrete Huibert Jilles Bezemer, Nikhil Awasthy, Miadena Lukovic	A novel service life prediction for reinforce concrete infrastructure systems Nabil Semaan
11:15			COFFEE BREAK		
	RILEM TC 287-CCS Special Session: Cracking in RC structures Chairperson: Miguel Azenha and Fragkoulis Kanavaris	RILEM TC 281-CCC Special Session: Carbonation of concrete with supplementary cementitious materials Chairperson: Nele de Belie and Susan Bernal	Durability and robustness of concrete materials and structures Chairperson: Neven Ukrainczyk	Non-standardised testing techniques Chairperson: Sousana Tastani	Structural Health Monitoring and maintenance management Chairperson: Jan Suchorzewski
	ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3
11:45	Early-age to long-term numerical simulation of concrete members tested in Adjustable Restraining Frames <u>Cláudio Ferreira</u> , Dirk Schlicke, Carlos Sousa, Miguel Azenha	On the carbonation dilemma and how to escape from it Ueli Angst	Rheology, mechanical properties and durability of Self-Compacting Concrete using sustainable expanded perlite microspheres Andreas Kounadis, Efstratios Badogiannis, Panagiotis Angelopoulos, Dimitrios Petrakis, Vasilios-Orfeas Tsiaras	Innovative FWD testing on concrete slabs Rodrigo Diaz Flores, Valentin Donev, Mehdi Aminbaghai, Luis Zelaya-Lainez, Ronald Blab, Martin Buchta, Lukas Eberhardsteiner, Bernhard L. A. Pichler	Investigation of the impact of concrete surface treatment methods on the interfacial bond strength August Jansson, Ignasi Fernandez, Carlos Gil Berrocal, Rasmus Rempling
12:00	Parametric calculation tool for flexural crack width in concrete slabs assuming seismic damage <u>Alhussain Yousef</u> , Panagiotis Spyridis	Carbonation resistance of recycled aggregate concrete using different cement types Miren Etxeberria	The effect of temperature and ageing on the behaviour of self-compacting concrete containing supplementary cementitious materials  Almutlagah Ayman, Abdullah Alshahrani, Riccardo Maddalena, Sivakumar Kulasegaram	Understanding the degradation of concrete structures during the nitrification process for the treatment of wastewater: a lab biological degradation test <u>Yasmine Werghi, Tony Pons, Marielle Guéguen Minerbe, Marcos Oliveira, Sam Azimi, Vincent Rocher, Thierry Chaussadent</u>	Piezoresistive Self-compacting concretes (PSSC) with carbon fibers (CF) and nano- fibers (CNF) for structural health monitorin Javier Puentes, Irene Palomar, Gonzalo Barluenga
12:15	Calculation of steel stresses in cracked reinforced rectangular concrete elements loaded in bending Anton van der Esch, Rob Wolfs, Simon Wijte	Corrosion kinetics of steel in carbonated pore solutions containing chlorides and sulphates <u>Cristhiana Albert</u> , Shishir Mundra, O. Burkan Isgor, Ueli Angst	Correlations between localized pitting corrosion and deflection in reinforced concrete beams subjected to accelerated corrosion  David Dackman, Ignasi Fernandez, Carlos Gil Berrocal, Rasmus Rempling	Development of damage monitoring techniques during fatigue compression test on concrete specimen <u>Laura Kerner</u> , Renaud-Pierre Martin, Mezgeen Rasol, Jean-Claude Renaud, Léopold Denis	Flexural damage evaluation in Fiber Reinforced Concrete Beams using a PZT- based Health Monitoring System George Sapidis, Maria Naoum, Nikos Papadopoulos, Maristella Voutetaki
12:30	Significance of thermal eigenstresses on the risk of cracking due to concrete hardening with focus on ground-slab types Christina Krenn, Dirk Schlicke	The impact of chloride binding on the resistance to carbonation: from single cycle degradation towards the complexity of multi cycle degradation Hanne Vanoutrive, Peter Minne, Özlem Cizer, Elke Gruyaert	Investigation of the mechanical properties and durability of concretes produced with microsilica and crystalline admixtures <u>Kosmas K. Sideris</u> , <u>Eirini Mingou</u> , <u>Christina Solomou</u>	A cost-effective micro-controller based system for EMM-ARM tests in cement paste Renan Rocha Ribeiro, José Granja, Rodrigo Lameiras, Miguel Azenha	Structural health monitoring of reinforced concrete beam-column joints using piezoelectric transducers Maria Naoum, George Sapidis, Nikos Papadopoulos, Emmanouil Golias, Constantin Chalioris
12:45	Numerical Simulation for Early-Age Cracking Mitigation in Durable RC Deck Slab on Multiple Span Steel Box Girder Bridges Considering Thermal and Stepwise Construction Stresses Thanh Ngoc Phan, Akira Hosoda, Yoichiro Tsujita, Ayana Shirakawa	Study on properties of UFC cured by autoclaving <u>Junon Yoshikawa</u> , Hiromi Fujiwara, Masanori Maruoka, Kotaro Yoshikawa, Katsuhiko Yamada	An experimental study on the thermomechanical properties of cement mortar with textile fibers for building applications Rabeb Ayed, Emiliano Borri, Gemma Gasa, Salwa Bouadila, Luisa F. Cabeza	Open-source emm-arm implementation for mortars based on single-board computer <i>Thomas Russo, Miguel Azenha, José Granja</i>	Rehabilitation of underground garages – risk based decision-making process Juan Mauricio Lozano Valcarcel, Thomas Kränkel, Christoph Gehlen, Angelika Schießl-Pecka
13:00			LLINCH		

### **DAY 3 PM • FRIDAY, JUNE 16, 2023**

Special Session: Cracking in RC structures Chairperson: Miguel Azenha and Fragkoulis Kanavaris	Rilem TC 281-CCC Special Session: Carbonation of concrete with supplementary cementitious materials Chairperson: Nele de Belie and Susan Bernal	Data, Machine learning & optimization Chairperson: Ali Abbas	Non-standardised testing techniques Chairperson: Jacqueline Saliba	Supplementary cementitious materials Chairperson: Sandrine Marceau	
ROOM A1	ROOM A2	ROOM B1	ROOM B2	ROOM B3	
Crack-resistance of 25 cements determined by the ring shrinkage test <u>vit Śmilauer</u> , Pavel Reiterman, Bohuslav Idánský	Carbonation rate of alkali-activated concretes: Effects of compositional parameters and carbonation conditions Gregor Gluth, Xinyuan Ke, Anya Vollpracht, Lia Weiler, Susan A. Bernal, Martin Cyr, Katja Dombrowski-Daube, Dan Geddes, Cyrill Grengg, Cassandre Le Galliard, Marija Nedeljkovic, John L. Provis, Luco Valentini, Brant Walkley	Comparison of Machine Learning algorithms for the prediction of the external sulphate attack resistance of blended cements  Abdelhamid Hafidi, Benoit Hilloulin, Sonia Boudache, Umunnakwe Rejoice, Ahmed Loukili	Preliminary analysis of non-destructive test methods to evaluate the self-healing efficiency on the construction site Tim Van Mullem, Gerlinde Lefever, Arthur Decuypere, Erik De Vleeschouwer, Yasmina Shields, Laurena De Brabandere, Didier Snoeck, Dimitrios Aggelis, Nele De Belie	Characterizing Sewage Sludge Ashes in Dry and Wet States for use as Supplementary Cementitious Materials Danah Shehadeh, Alexandre Govin, Philippe Grosseau, Hichem Krour, Laetitia Bessette, Gonzague Ziegler	14:
Cracks detection during early-age concrete hydration using distributed fibre optic sensing: from laboratory to field applications Parfal Sieńko, Łukasz Bednarski, <u>Tomasz</u> Howiacki, Kamil Badura	Effect of the carbonate source on the carbonation performance of blended binders containing calcined clays <a href="Yuvaraj Dhandapani">Yuvaraj Dhandapani</a> , Srajan Bhadauria, <a href="Sreejith Krishnan">Sreejith Krishnan</a> , Maria C. G Juenger, <a href="Susan A. Bernal">Susan A. Bernal</a>	Improved generalization capability in machine learning approaches for hammering test method Hiroshi Shimbo, Toshiaki Mizobuchi, Tomoko Ozeki, Junichiro Nojima, Shunsuke Sano, Masafumi Okamato, Tomohiro Shizuno	Analysis of concrete transient thermal deformation in the context of structures submitted to various levels of temperature and mechanical loading Robin Cartier, Hugo Cagnon, Thierry VIDAL, Jean-Michel Torrenti, Alain Sellier, Jérôme Verdier	Mineral residues and by-products upcycled into reactive binder components for cementitious materials Florian Roman Steindl, Klaus Doschek-Held, Katharina Weisser, Joachim Juhart, Cyrill Grengg, Dominik Wohlmuth, Florian Mittermayr	14:
Effect of high temperature at early age and mineral additives on drying shrinkage of concrete with the blast furnace slag cement latsuya Usui, Shingo Asamoto, Shintaro Miyamoto	Long-term natural carbonation in concretes with fly ash and limestone calcined clay systems Sundar Rathnarajan, Umesh Hule, Radhakrishna G. Pillai, Ravindra Gettu	Prediction of mechanical properties of steel fibre-reinforced self-compacting concrete by machine learning algorithms <u>Tianyi Cui, Sivakumar Kulasegaram,</u> Haijiang Li	A transient re-touching of carbon fiber to cement interface under single fiber pullout testing with direct current measurement Shaofeng Qin, Jishen Qiu	Clay brick powder as partial cement replacement Ida Bertelsen, <u>Sissel Albrecht Kahr</u> , Wolfgang Kunther, Lisbeth M. Ottosen	15:
The internal curing effect of pre-saturated ight weight aggregate (LWA) on rementitious material Runqi Hao, Kinda Hannawi, Aveline Orarquennes	Influence of fly ash as cement substitution on accelerated and natural carbonation of concrete  Vedran Carević, Aleksandar Radević, Ivan Ignjatović	Performance of data driven algorithms to predict concrete strength using production raw data Arnaud Delaplace, Ulli Olivetti Razinhas, Régis Bouchard, Andreas Griesser	Thermal gradient in large concrete test bodies: A macroscale experimental approach Thierry Houndonougbo, Thierry Chaussadent, Loïc Divet, Joao Custodio, Jean-François Seignol	Micromechanical properties assessment of slag blended cements using nanoindentation and scanning electron microscopy Imane Bekrine, Benoit Hilloulin, Ahmed Loukili	15:
ow Viscosity, High Temperature Stable Beopolymer For Crack Injection And Cavity Filling With Optional Increase Of Volume And Preload Hendrik Morgenstern, Michael Raupach	Comparing the carbonation performances of low-clinker blended slag cement with alkali-activated slag via thermodynamic modelling Xinyuan Ke	An optimum mix design method for 3D concrete printing applications Vasilis Sergis, Claudiane Quellet-Plamondon	Comparison of different approaches for quantification of amorphous phase in hydrated cement paste by XRD Antonina Goncharov, Semion Zhutovsky	Interfacial transition zone formed on wet-on-wet cast between ultra-high-performance fiber reinforcement concrete - blast furnace slag concrete Klaudja Telhaj, Andrzej Cwirzen	15:
		COFFEE BREAK			15:
RILEM TC 287-CCS and 281-CCC Special Session Chairperson: Miguel Azenha and Fragkoulis Kanavaris		<b>3D printing</b> Chairperson: Semion Zhutovsky	Non-standardised testing techniques Chairperson: Philippe Turcry	Supplementary cementitious materials Chairperson: Vit Smilauer	
ROOM A1		ROOM B1	ROOM B2	ROOM B3	
Modelling of moisture transport in cracked concrete by using RBSM and TNM		Development of an innovative 3D-printing process for reinforced concrete – AMoRC method  Sisi Zhang, Matthias Kalus, Sven Engel, Josef Hegger, Martin ClaBen	ROOM B2  New repair approach using ultra high performance fibre reinforced concrete for structures affected by alkali aggregate reaction Clélia Desmettre, Jean-Philippe Charron, Sarra Abid	ROOM B3  Recycling potential of cellular lightweight concrete insulation as supplementary cementitious material  Jan Suchorzewski, Natechanok  Chitvoranund, Sumit Srivastava, Miguel  Prieto, Katarina Malaga	16:
Modelling of moisture transport in cracked concrete by using RBSM and TNM Srimook Puttipong, Ippei Maruyama  An Analytical Approach for Calculating Crack Width of RC Members: Pure Shear Method (Aarolis Sakalauskas, Gintaris Kaklauskas)		Development of an innovative 3D-printing process for reinforced concrete – AMORC method  Sisi Zhang, Matthias Kalus, Sven Engel,	New repair approach using ultra high performance fibre reinforced concrete for structures affected by alkali aggregate reaction <u>Clélia Desmettre</u> , Jean-Philippe Charron, Sarra Abid	Recycling potential of cellular lightweight concrete insulation as supplementary cementitious material Jan Suchorzewski, Natechanok Chitvoranund, Sumit Srivastava, Miguel	16:
Modelling of moisture transport in cracked concrete by using RBSM and TNM Stimook Puttipong, Ippei Maruyama  An Analytical Approach for Calculating Crack Width of RC Members: Pure Shear Method		Development of an innovative 3D-printing process for reinforced concrete – AMORC method Sisi Zhang, Matthias Kalus, Sven Engel, Josef Hegger, Martin Claßen  Reducing the carbon footprint of thin walled concrete structures by 3D printing topology optimized prefabricated elements Marc-Patrick Pfleger, Sebastian Geyer,	New repair approach using ultra high performance fibre reinforced concrete for structures affected by alkali aggregate reaction Clélia Desmettre, Jean-Philippe Charron, Sarra Abid  Monitoring of Capillary Pressure Evolution in Young Age Concrete using High Capacity Tensiometers  Armin Jamali, Joao Mendes, Brabha	Recycling potential of cellular lightweight concrete insulation as supplementary cementitious material Jan Suchorzewski, Natechanok Chitvoranund, Sumit Srivastava, Miguel Prieto, Katarina Malaga Development of low carbon textile reinforced concrete from composite cements	
Modelling of moisture transport in cracked concrete by using RBSM and TNM irimook Puttipong, Ippei Maruyama  In Analytical Approach for Calculating Crack Width of RC Members: Pure Shear Method (arolis Sakalauskas, Gintaris Kaklauskas)  Influence of blended cements on the ervice life of reinforced concrete structures gainst carbonation induced corrosion (asmas K. Sideris, Panagiota Manita)  Insight from modeling service life of ow-Clinker cements at moderate relative umidity under carbonation attack		Development of an innovative 3D-printing process for reinforced concrete – AMoRC method Sisi Zhang, Matthias Kalus, Sven Engel, Josef Hegger, Martin Claßen  Reducing the carbon footprint of thin walled concrete structures by 3D printing topology optimized prefabricated elements Marc-Patrick Pfleger, Sebastian Geyer, Christian Hölzl, Markus VIII  3BUILD – First 3D printed structure in Greece Marios Katsiotis, Vasileios K. Michalis, Despoina Papargyriou, Emmanouil Mavratzotis, Martha Savvidou, Theodoros Mavrelos, Despoina Almpani, Joannis Tsilikas, Christos Kalligeros, Georgios	New repair approach using ultra high performance fibre reinforced concrete for structures affected by alkali aggregate reaction Clélia Desmettre, Jean-Philippe Charron, Sarra Abid  Monitoring of Capillary Pressure Evolution in Young Age Concrete using High Capacity Tensiometers  Armin Jamali, Joao Mendes, Brabha Nagaratnam, Michael Lim  Effect of Moisture on the Piezoresistive Properties of Aluminosilicate-Based Building Materials  Pavel Rovnaník, Ivo Kusák, Pavel Schmid,	Recycling potential of cellular lightweight concrete insulation as supplementary cementitious material Jan Suchorzewski, Natechanok Chitvoranund, Sumit Srivastava, Miguel Prieto, Katarina Malaga  Development of low carbon textile reinforced concrete from composite cements Mohammad Alma'aitah, Bahman Ghiassi  Influence of rice husk ash on rheology of conventional concrete	16:
Modelling of moisture transport in cracked concrete by using RBSM and TNM crimook Puttipong, Ippei Maruyama  An Analytical Approach for Calculating Crack Width of RC Members: Pure Shear Method  Carolis Sakalauskas, Gintaris Kaklauskas  Influence of blended cements on the evervice life of reinforced concrete structures against carbonation induced corrosion		Development of an innovative 3D-printing process for reinforced concrete – AMoRC method Sisi Zhang, Matthias Kalus, Sven Engel, Josef Hegger, Martin ClaBen  Reducing the carbon footprint of thin walled concrete structures by 3D printing topology optimized prefabricated elements Marc-Patrick Pfleger, Sebastian Geyer, Christian Hölzl, Markus Vill  3BUILD – First 3D printed structure in Greece Marios Katsiotis, Vasileios K. Michalis, Despoina Papargyriou, Emmanouil Mavratzotis, Martha Savvidou, Theodoros Mavrelos, Despoina Almpani, Joannis Isilikas, Christos Kalligeros, Georgios Vasileiou, Athina Stavridou, Vasileios Spitas  Natural fibers for 3D printable eco-ECC material  Fernando Fernández, Rocío Jarabo, Eloy	New repair approach using ultra high performance fibre reinforced concrete for structures affected by alkali aggregate reaction Clelia Desmettre, Jean-Philippe Charron, Sarra Abid  Monitoring of Capillary Pressure Evolution in Young Age Concrete using High Capacity Tensiometers  Armin Jamali, Joao Mendes, Brabha Nagaratnam, Michael Lim  Effect of Moisture on the Piezoresistive Properties of Aluminosilicate-Based Building Materials  Pavel Rovnaník, Ivo Kusák, Pavel Schmid, Libor Topolář  A Literature Review of Shrinkage in Repair Materials with Fine Materials  Luan Reginato, Étore Funchal de Faria, Ana Carolina Parapinski Santos, Luis Antonio	Recycling potential of cellular lightweight concrete insulation as supplementary cementitious material Jan Suchorzewski, Natechanok Chitvoranund, Sumit Srivastava, Miguel Prieto, Katarina Malaga  Development of low carbon textile reinforced concrete from composite cements Mohammad Alma'aitah, Bahman Ghiassi  Influence of rice husk ash on rheology of conventional concrete Arshdeep Singh, Bhupinder Singh  The effect of ladle furnace slag (LFS) content replacement as a supplementary cementitious material in Portland cement-based systems Paulo Araos, Anna Uribarri, Marilda Barra,	16:

SynerCrete'23 · 14, 15 & 16 June 2023 · Milos Island, Greece

# CONFERENCE VENUE MAP

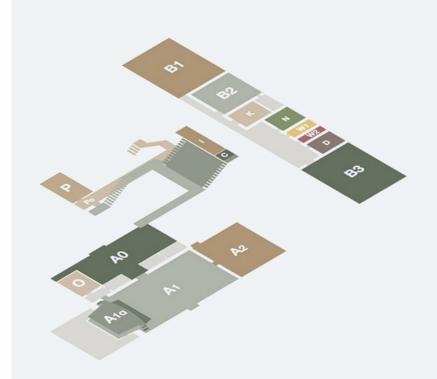
(OVERVIEW)

SynerCrete'23 is hosted at the **Milos Conference Centre – George Eliopoulos**, located in Adamas, Milos Island's main port.

The Milos Conference Center is housed in a restored old kaolin processing plant, built in 1925, overlooking the gulf of Milos.

It is an excellent sample of its period's industrial architecture.

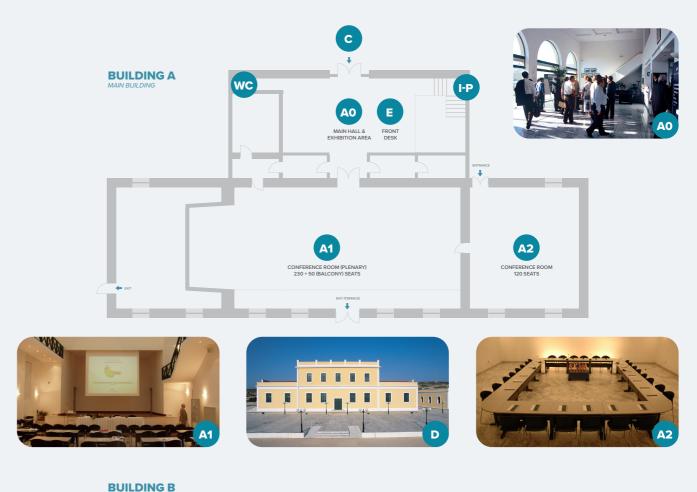






## **LEGEND**

- A BUILDING A
  MAIN BUILDING
- B BUILDING B
- C ENTRANCE
- **D** TERRACE
- FRONT DESK
- G LUNCHES AND COFFEE
- ROOM AO
  MAIN HALL & EXHIBITION AREA
- ROOM A1
  CONFERENCE ROOM (PLENARY)
- ROOM A2
  CONFERENCE ROO
- ROOM B1
- ROOM B2
  CONFERENCE ROO
- ROOM B3
  CONFERENCE ROO
- ROOMS I AND P





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# GENERAL PRACTICAL INFORMATION

### **PUNCTUALITY AND SYNCHRONISATION**

The program of the conference is very tight. Efficient functioning of the program depends on the *punctuality* of delegates and speakers. Please cooperate.

As it happens in all conferences, there may be a need for issuing warnings to conference delegates (e.g. next session starts 10 min late). We will keep a constantly updated news feed in:

www.synercrete.com/lastinfo

#### **REGISTRATION AND DOCUMENTATION**

The registration desk is open on Wednesday 14th June 2023 from 10h00m to 19h00m for collection of conference badges and bags. On Thursday 15th and Friday 16th, the registration desk is open form 8h00m to 18h00m.

#### WI-FI AND PARALLEL MEETINGS OR WORK

Wi-fi access is free throughout the entire conference venue.

If you wish to have a meeting or work for some moments, you can use either room P in Building A or room N in Building B. Please mind that we cannot guarantee exclusivity of these rooms without prior agreement with the Organising Committee.

#### **LUNCHES AND COFFEE BREAKS**

Lunches and coffee breaks are served in the dedicated enclosed palce with a tent roof in the vicinity of Building B.

Access to the lunches and coffee breaks is given to all conference delegates, provided that the conference badge is brought. If you do not bring your conference badge, you may be requested for proof of registration.

#### **SMOKING**

Smoking is not permitted within interior spaces. Outdoor smoking is allowed.

### **GROUP PHOTO**

We are taking a group photo at 16h15m of 15th June 2023 (during the afternoon coffee break) at the front terrace of Building A.

Be sure to show up!

#### **SUBMISSION OF PRESENTATION**

Each conference room will be equipped with a notebook (Windows-based) and a video projector. If you have not yet uploaded your presentation via a designated link, you are asked to provide it at the front desk upon your registration.

Acceptable formats:

PPTX (PowerPoint 2007/2010/2013/2016) or PDF.

#### **BADGE TYPES**

Conference badges are customised, so as to allow clear identification of people that play particular roles in the conference: Chair, Organiser, Keynote speaker, Regular delegate, Student delegate, Sponsor and Technical support.

### CONTACTS

The organisation is willing to assist you at all times. Feel free to contact us in case of need.

For conference secretariat matters, contact the front desk staff.

For general local organisational matters, contact:

### Fragkoulis Kanavaris:

+30 697 1671 561 (Greece)

+44 79 2324 3721 (UK)

For any further matters, contact:

Agnieszka Jędrzejewska: +48 505 493 027 (Poland) Miguel Azenha: +351 938 404 554 (Portugal) Farid Benboudjema: +33 601 801 915 (France) Dirk Schlicke: +43 660 458 695 6 (Austria)

The general emergency number (e.g. medical, fire) in Greece is **112**.

# WELCOME COCKTAIL AND CONFERENCE DINNER

### **WELCOME COCKTAIL**

All conference delegates are invited to the welcome cocktail, which will take place on Wednesday, 14th June 2023, from 19h to 21h in Milos conference centre. Be sure to bring your badge, that serves also as your 'invitation' for this concern. The cocktail will take place at the conference venue. The conference organisation gratefully acknowledges the support of the 'Municipality of Milos island' in this welcome cocktail and the arrangement of an exhibition relevant to the history, tradition and geology of the Milos island.

### **DRESS CODE:** Smart casual.



### **CONFERENCE DINNER**

The conference dinner access is limited to the conference delegates holding the "Gala Dinner voucher" (given together with the conference material at the registration desk). Make sure that you do not forget the voucher for yourself and all your accompanying persons, as it will represent your 'dinner invitation'.

The conference dinner takes place at 'Kipos' venue, a fabulous tavern placed on the top of the hill with an amazing view over the Kipos beach, mesmerising with its crystal-clear turquoise waters. The restaurant offers traditional Greek and Mediterranean cuisines, including kleftiko, dakos and fish. A taste of local folk music will be given by the music duo of the Milos Cultural Centre.

'Kipos' venue is located 10 km / 15 mins drive from the conference venue and provisions have been taken to ensure transportation by bus. Please be at the Milos Conference Center entrance at 18h15m, and board the conference bus according to availability. Return transportation will also be provided between 22h30m and 23h30m.





# POST-CONFERENCE TOUR

## THE BOAT TOUR AROUND THE MILOS ISLAND

The boat tour is designed to take approximately 5 hours and visit via sea the most beautiful spots of Milos island. The boat will be navigated by experienced Captain Stavros, who will guide us for the entire trip, and the boat crew will be by your side to aid and serve you with whatever you may need for a pleasurable and safe outing. The boat also encompasses toilet facilities and smoking area. Snacks (sandwiches) and refreshments (soft drinks) will be provided during the boat trip.

The tour includes setting off from Adamas port at 9h and disembarkation at Polonia port at 14h (red route). From there, the group will embark on coaches and be brought back to Adamas port (orange route) with an arrival time of approximately 14h30m.









# Syner '23 Crete







