

SPACECARBON FINAL CONFERENCE

GENERIC AGENDA

Title: European Excellence in Space

Date: 7th June

Organizer: NTUA, INEGI

Time: 10.00 – 17.45 Portugal time (CEST -1)

Venue: Alfandega Do Porto

Location: Porto, Portugal

Board members

Nuno Rocha, SpaceCarbon coordinator | Helena Morreira, SpaceCarbon project manager | Prof. Costas Charitidis, Chair of EsSENce (Cost Action entitled: High-performance Carbon-based composites with Smart properties for Advanced Sensing Applications-CA19118) | Georgios Konstantopoulos, SpaceCarbon dissemination manager | Carlos Mangas, AIRBUS Defense & Space | Federico Di Vizio, AVIO | Ricardo Caldas, SGL | Michael Scheerer, AAC

Time	Technical presentations	Presenter
10.00 – 10.10	Welcome	Nuno Rocha
10.10 – 10.30	SpaceCarbon project overview	INEGI, Nuno Rocha
	Invited Speakers:	
	<ul style="list-style-type: none"> ○ Suresh Advani, Professor at the Center for Composite Materials, University of Delaware 	
10.30 – 11.30	<ul style="list-style-type: none"> ○ Spiros Pantelakis, founding member and Chairman of the European Aeronautics Science Network EASN ○ Andrés Caparrós, Head of AIT division at Deimos Space 	
	Roundtable discussion moderated by:	
	<ul style="list-style-type: none"> ○ Nuno Correia, Composite Materials and Structures Unit Director at INEGI 	
11.30 – 11.45	Break	
11.45 – 13.15	Scientific presentations <i>Topic: Lightweight high-performance materials for Space applications</i>	
11.45 – 12.00	Dionisis Semitekolos, PhD candidate at Research Lab of Advanced, Composite, Nano-Materials and Nanotechnology, NTUA <i>Development of nano-enhanced sizing solutions for carbon fibres</i>	
12.00 – 12.15	Nikolaos Athanasopoulos, Principal Investigator at FORTH/ICEHT & founder of the start-up 4D-Mater Private Company	



Responsive materials and patterned surfaces for thermal control

12.15 – 12.30	Roberto Guzman de Villoria, Distinguished Researcher at Universidad de Salamanca <i>Ultrasonic welding of Carbon Fiber Tapes</i>
12.30 – 12.45	Andreas Dietz, Strategic Researcher for Space at Fraunhofer Institute for Surface Engineering and Thin Films IST <i>New applications for CFRP components through galvanic metallization</i>
12.45 – 13.00	Fernando Cunha, Director at Fibrenamics <i>Multiscale and multifunctional materials for space applications</i>
13.00 – 13.15	Federico Danzi, Post-doctoral researcher at INEGI <i>Effects of hybridization and ply-thickness on carbon-carbon composite laminates for aerospace applications</i>
13.15 – 14.00	Lunch Break

Time	Technical presentations	Presenter
	Invited Speakers:	
	<ul style="list-style-type: none"> ○ Hugo Costa, Member of the Board, Portugal Space – PT Space ○ Marco Blanco, Materials Engineer, Materials and Processes Section, European Space Agency – ESA ○ Rolf Michels, EDA Materials & Structures Captech, European Defense Agency – EDA 	
14.00 – 15.00	Roundtable discussion moderated by:	
	<ul style="list-style-type: none"> ○ Alicia Ayuso, HO Materials and Processes Composites and Organics TEIMO at Airbus Defense and Space 	
15.00 – 16.30	Scientific presentations <i>Topic: Emerging composites technologies for advanced applications</i>	
15.00 – 15.15	Celeste Pereira, Chief Operations Officer at Fibersail <i>Turning critical structures into smart structures</i>	
15.15 – 15.30	Gustavo Dalmarco, Researcher at INESC TEC <i>Adoption Strategies of Additive Manufacturing Technologies in Nanosatellite Development</i>	
15.30 – 15.45	Helena Rocha, Research Engineer at PIEP Innovation in Polymer Engineering <i>Evaluation of Optical Fibre Sensor Embedding Location on CFRP for Impact Detection</i>	
15.45 – 16.00	Gregoire Beauduin, Business Manager at Com&Sens <i>Space composites structures life-cycle monitoring : digital manufacturing & structural health monitoring</i>	
16.00 – 16.15	Victoriia Bessmertna, Scientist at Frantsevich Institute for Problems of Material Sciences of National Academy of Sciences of Ukraine <i>Knitted carbon filler for the functional polymer based composite materials</i>	
16.15 – 16.30	Iryna Bilan, Head of department at Frantsevich Institute for Problems of Material Sciences of National Academy of Sciences of Ukraine <i>Shielding polymer-based composites reinforced by fibers with metamaterial structure</i>	
16.30 – 16.45	Break	

16.45 -	Scientific presentations	
17.45	Topic: Innovative design of Space structures and components of the future	
16.45 -	Ramon Miralbes, Research intership at INEGI / University of Zaragoza	
17.00	<i>Possible uses of Triple Periodic Minimal Surface Structures generated by Additive Manufacturing</i>	
17.00 -	Ricardo A. M. Pereira, Ph.D. Student at Institute of Telecommunications -	
17.15	University of Aveiro	
17.15 -	<i>A Lunar Solar Power Satellite System Capable of Energy Storage</i>	
17.30	Antonio Santos, Innovation Manager at Active Space Technologies	
17.30 -	<i>Titanium additive manufacturing technology for space infrastructure</i>	
17.45	André Silva, Assistant Professor at AEROG-LAETA, Universidade da Beira Interior	
17.45	<i>Aeronautics and Astronautics Research Center</i>	
17.45	Closure of the day	Nuno Rocha