

**COST Action CA19118 - High-performance Carbon-based composites with Smart properties for Advanced Sensing Applications (EsSENce)**

**AGENDA**

**3<sup>rd</sup> Full Action Meeting (FAM)**

**October 23-25, 2023 - online & in-person FAM**

**Monday, October 23, 2023**

**09:00 – 10:00 Registration**

*Prof. Evangelia Pavlatou / GH Manager-Administrator Maria-Anna Gatou (NTUA)*

**10:00 – 10:15 Welcome**

*Prof. Evangelia Pavlatou / Prof. Costas Charitidis (NTUA)*

**10:15 – 10:45 Invited talk**

**Development of CNT-based nanocomposites with ohmic heating capability towards self-healing applications in extrusion-based 3D printing technologies**

*Dr. Aikaterini Trompeta / Prof. Costas Charitidis (R-NANO)*

**10:45 – 11:15 Coffee Break**

**11:15 – 12:15 STSM presentations (20 min each)**

- **Thermal transport studies of ABS polymer and its composite with graphene oxide**  
*Daria Szewczyk / Alexander Krivchikov*
- **Investigation of application and monitoring of smart carbon nanomaterials in buildings**  
*Aleksandar Petrovski*
- **Carbon-coated copper nanoparticles and MWCNT based hybrid composites for electromagnetic applications**  
*Dzmitry Tsyhanok*

**12:15 – 12:45 Invited talk**

**Selected activities of Essence WG4 “Sensing Applications & Smart Sensor Development” 2022-2023**

*M.Sc. Davood Peyrow Hedayati / Prof. Robert Böhm (HTWK)*

**12:45 – 14:15 Lunch**

**14:15 – 15:45 WGs meetings (WG6 & WG7)**

**15:45 – 16:00 Coffee Break**

**16:00 – 17:15 WGs meetings (WG1, WG2 & WG3)**

**Tuesday, October 24, 2023**

**09:00 – 09:30 Registration**

*Prof. Evangelia Pavlatou / GH Manager-Administrator Maria-Anna Gatou (NTUA)*

**09:30 – 11:00 WGs meetings (WG4 & WG8)**

**11:00 – 11:20 Coffee Break**

**11:20 – 12:00 STSM presentations (20 min each)**

- **Thermoresistive carbon nanomaterials (CNM)-based nanocomposites and its applications**  
Stiliyana Stoyanova
- **Effect of SWCNT deposition by electrospaying concurrently with electrospinning nanofibers on thermoelectric sensor applications**  
Ismail Borazan

**12:00 – 12:30 Invited talk**

**Graphene and CNTs for different applications: energy, sensors, information storage and EMS**

*Dr. Paolo Bondavalli (Thales Research and Technology)*

**12:30 – 13:30 Lunch**

**13:30 – 14:30 Facilities visit**

**14:30 – 15:00 Invited talk**

**Material Extrusion Based Additive Manufacturing of soft structures with carbon based nanomaterial sensor elements – what are the challenges?**

*Dr. Frank Clemens (EMPA)*

**15:00 – 16:15 WGs meetings (WG5 & WG9)**

**16:15 – 16:30 Coffee Break**

**16:30 – 18:00 Core Group Meeting**

**20:00 Optional dinner in Rakkan Athens restaurant at Athens city center**

**Wednesday, October 25, 2023**

**09:00 – 09:30 Registration**

*Prof. Evangelia Pavlatou / GH Manager-Administrator Maria-Anna Gatou (NTUA)*

**09:30 – 11:00 MC meeting – presentations of WG leaders**

**11:00 – 11:30 MC meeting – discussion, vote and closing words**

*Prof. Evangelia Pavlatou / Prof. Costas Charitidis (NTUA)*

**11:30 – 12:00 Farewell coffee**

**14:00 – 16:00 Visit to the Acropolis Museum**

*Transfer with mini bus*

**Important Note:**

***The timetable of the FAM's Agenda refers to Athens local time.***

**Meeting Venues:**

23rd-25th October: Room Multimedia Amphitheatre, NTUA's Library Building

