

Schedule of Winter School COST ACTION NanoSpace-2026

Monday 19th January 2026

15:00/15:30	Departure Bus from Barcelona Downtown/Airport http://benasque.org/2025heteronanocarb/#bu
~19:30	Arrival Bus to Benasque
20:30	Welcome cocktail

Tuesday 20th January 2026

Wednesday 21st January 2026

Thursday 22nd January 2026

8:15 - 8:40	Registration - Badge				
8:40 - 9:05	Introduction				
9:05-11:05	Lecture I	8:45-10:45	Lecture IV	8:45-10:45	Lecture VII
11:05 - 11:30	Coffee Break	10:45-11:10	Coffee Break	10:45-11:10	Coffee Break
11:30-13:30	Lecture II	11:10-13:10	Lecture V	11:10-13:10	Lecture VIII
13:30-18:30	Mini Workshops	13:15-18:30	Mini Workshops	13:15-18:30	Mini Workshops
18:30-20:30	Lecture III	18:30-20:30	Lecture VI	18:30-20:30	Lecture IX
20:30-21:45	Poster session / Cocktail	20:30-21:45	Poster session / Cocktail	21:00-...	Conference Dinner

Friday 23rd January 2026

8:00	Departure Bus to Barcelona Airport/Downtown http://benasque.org/2025heteronanocarb/#bu
12:45-13:45	Arrival Bus to Barcelona Airport

- **COST ACTION NanoSpace Presentation / Introduction:** Anibal GARCIA, IAC, SPAIN.
- **LECTURE I:** Introduction to Carbon Nanomaterials - Chris EWELS, CNRS-IMN, France
- **LECTURE II:** Transmission Electron Microscopy (TEM) - Imaging and Spectroscopy on Carbon Nanomaterials - Raúl ARENAL, INMA-CSIC-Universidad de Zaragoza, Spain
- **LECTURE III:** Spectral features and Photophysics of Laboratory Analogues of Carbonaceous Nanograins - Thomas PINO, CNRS-ISMO, France
- **LECTURE IV:** Modelling for Experimentalists: The Case of Carbon Defects - Chris EWELS, CNRS-IMN, France
- **LECTURE V:** Probing the Matter with infrared and Raman Spectroscopies: from Molecules to Solids - Cedric PARDANAUD, CNRS-PIIM, France
- **LECTURE VI:** Scanning Probe Microscopy/Spectroscopy (AFM, STM-STs, KPM...) Studies on Carbon Materials - José Ángel MARTIN-GAGO, ICMM-CSIC, Spain
- **LECTURE VII:** Kicking Out Electrons: What Photoemission Tells Us About Carbon Materials - Paola AYALA, Vienna Univ., Austria
- **LECTURE VIII:** First principles modelling of electronic, structural, and vibrational properties of carbon materials - Vincent MEUNIER, Penn State Univ., USA
- **LECTURE IX:** Laboratory IR Spectroscopy of Astrophysically Relevant Molecules and Ions using Fancy Lasers - Jos OOMENS, HFML-FELIX, The Netherlands

Tuesday 20th January 2026

8:15-8:40	Registration/badge	
8:40 – 8:45		Raul ARENAL - Short School Introduction
8:45 – 9:05		Anibal GARCIA - NanoSpace COST Action Presentation agarcia@iac.es
9:05 – 11:05		<i>Introduction to Carbon Nanomaterials</i> Chris EWELS Chris.Ewels@cnrs-imn.fr
11:05 – 11:30		COFFEE BREAK
11:30 – 13:30		<i>Transmission Electron Microscopy (TEM) - Imaging and Spectroscopy on Carbon Nanomaterials</i> Raul ARENAL arenal@unizar.es
18:30-20:30		<i>Spectral features and Photophysics of Laboratory Analogues of Carbonaceous Nanograins</i> Thomas PINO thomas.pino@cnrs.fr
20:30-21:45	<i>Poster Session</i>	<i>Cocktail</i>

Wednesday 21st January 2026

8:45 – 10:45		Modelling for Experimentalists: The Case of Carbon Defects Chris EWELS Chris.Ewels@cnr-imn.fr
10:45 – 11:10		COFFEE BREAK
11:10 – 13:10		<i>Probing the Matter with infrared and Raman Spectroscopies: from Molecules to Solids</i> Cedric PARDANAUD cedric.pardanaud@univ-amu.fr
18:30-20:30		<i>Scanning Probe Microscopy/Spectroscopy (AFM, STM-STs, KPM...) Studies on Carbon Materials</i> José Ángel MARTIN-GAGO gago@icmm.csic.es
20:30-21:45	Poster Session	Cocktail

Thursday 22nd January 2026

8:45 – 10:45		Kicking Out Electrons: What Photoemission Tells Us About Carbon Materials Paola AYALA paola.ayala@univie.ac.at
10:45 – 11:10		COFFEE BREAK
11:10 – 13:10		<i>First principles modelling of electronic, structural, and vibrational properties of carbon materials</i> Vincent MEUNIER vincent.meunier@psu.edu
18:30-20:30		<i>Laboratory IR Spectroscopy of Astrophysically Relevant Molecules and Ions using Fancy Lasers</i> Jos OOMENS jos.oomens@ru.nl
20:30 – 20:35		<i>Concluding remarks</i>
21:00		School Dinner