

PROGRAM INTERNATIONAL BLACK CARBON WORKSHOP

MONDAY, JUN 08, 2026, 09:00 TO 13:00 AND 14:00 TO 18:00
UNIVERSIDAD TÉCNICA FEDERICO SANTA MARÍA, VALPARÍSO, CHILE

Hour	Title	Moderator/Speaker
09:00-09:10 (10 min)	Opening address.	Dra. Mónica Pacheco Directora de la Dirección General de Investigación, Innovación y Emprendimiento (DGIIE) Universidad Técnica Federico Santa María (UTFSM), Chile
09:10-09:40 (30 min)	Introduction to Carbonaceous Aerosols: Formation, Distribution and Impact of Black Carbon on the Environment	Dr. Francisco Cereceda Full Professor Department for Chemistry Director of Centre for Environmental Technologies (CETAM-UTFSM) Chile
09:40-10:30 (50 min)	Carbonaceous Aerosols and the New Aethalometer Source Apportionment Model	Dr. Martin Rigler Chief Scientific Officer Aerosol Magee Scientific Slovenia
10:30-10:50 (20 min)	Coffee break	Coffee break sponsored by AyT
10:50-11:20 (30 min)	The role of AyT in the history of environmental monitoring in Chile: the case of BC monitoring.	Carlos Saul General manager (CEO) Ambiente y Tecnología (AyT) Chile
11:20-11:50 (30 min)	Carbonaceous Aerosol Speciation System (CASS): Real-time speciation of primary and secondary carbonaceous aerosols	Dr. Martin Rigler Chief Scientific Officer Aerosol/Magee Scientific Slovenia
11:50-12:20 (30 min)	Aerosol Magee Scientific portfolio, new Aethalometer models and new TCA09	Tjaša Karničar Key Account Manager Aerosol Magee Scientific Slovenia
12:20-12:50 (20 min)	Question and answer session	Carla Knappik, Investigadora, CETAM-UTFSM Chile
13:00-14:50	Lunchtime (lunch at UTFSM)	Lunch sponsored by AyT
15:00-15:30 (30 min)	NUNATAK as a scientific and technological platform for interdisciplinary research and the determination of Black Carbon in the Andes and Antarctica	Dr. Francisco Cereceda Full Professor Department for Chemistry Director of Centre for Environmental Technologies (CETAM-UTFSM) Chile
15:30-16:30 (1 h)	Part 1 Practical work with the equipment for the aerosol determination (BC/BrC)	Dr. Martin Rigler Aerosol Magee Scientific and Prof. Dr. Francisco Cereceda CETAM-UTFSM
16:30-16:50 (20 min)	Coffee break	Coffee break sponsored by AyT
16:50-17:50 (1 h)	Part 2 Practical work with the equipment for the aerosol determination (BC/BrC)	Dr. Martin Rigler Aerosol Magee Scientific and Prof. Dr. Francisco Cereceda CETAM-UTFSM
17:50-18:00 (10 min)	Closing	Prof. Dr. Francisco Cereceda CETAM-UTFSM Chile

PROGRAM INTERNATIONAL BLACK CARBON WORKSHOP

TRIP TO NUNATAK-1, PORTILLO, ANDES MOUNTAIN

TUESDAY, JUN 09, 2026, 09:00 TO 13:00 AND 14:00 TO 18:00
UNIVERSIDAD TÉCNICA FEDERICO SANTA MARÍA, VALPARAÍSO, CHILE

Hour	ACTIVITY	Observation and considerations
08:00-08:10	Arrival at CETAM-UTFSM and boarding the minibus	Please be punctual so as not to delay the trip, which is quite long.
08:10-11:30	Trip to NUNATAK-1 (NNTK-1), Portillo, Andes mountain (3000 m above sea level). Please bring a first and second layer, plus a warm parka (ideally down), a hat and gloves, sunglasses, sunscreen, and thick waterproof shoes.	As we will be in a military base, it is necessary to bring your identity card or passport. Please don't forget it
11:30-12:00	Arrival at Hotel Portillo, reception and coffee break	Here you can go to the bathroom and a coffee and alleyways will be waiting for you to acclimatize to the altitude.
12:00-13:00	GROUP 1 Visit to the NNTK-1 laboratory-shelter, continuous monitoring instruments and field equipment GROUP 2 Visit to the facilities of the Hotel Portillo, scenic visit to the Inca Lagoon and surroundings	To facilitate organization and so that everyone can enjoy both the beauty of the Andes mountain range and the Inca lagoon, as well as the technical visit to the NUNATAK-1 (NNTK-1) of CETAM-UTFSM, we will divide into 2 groups of 10 people each.
13:00-15:00	Lunchtime (lunch at Hotel Portillo)	Lunch sponsored by AyT
15:00-16:00	GROUP 2 Visit to the NNTK-1 laboratory-shelter, continuous monitoring instruments and field equipment GROUP 1 Visit to the facilities of the Hotel Portillo, scenic visit to the Inca Lagoon and surroundings	After lunch, the groups will switch to continue organizing the excursion and technical visit to NNTK-1.
16:00-16:30	The entire group meets at the Hotel Portillo facilities to prepare for the return to CETAM-UTFSM, Valparaíso	Here you can go to the bathroom and prepare for the return trip
16:30-20:00	Trip to CETAM-UTFSM, Valparaíso	Enjoy the views from the comfort of your seat on the winding road in the middle of the Andes mountain range
20:00	Arrival at CETAM-UTFSM and concludes the field trip	We hope you enjoyed the trip and that this was an unforgettable experience where science and nature come together.

Organized by: CETAM-UTFSM

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