



APECS ITALY NATIONAL CONFERENCE

CNR Headquarters, Rome - October 8-9, 2026

*Online presentation **Presentation in Italian

PROGRAM - OCTOBER 8

SESSION	TIME	TITLE AND SPEAKER
<u>Intro</u>	8:30 - 9:00	REGISTRATION
	9:00 - 9:15	CONFERENCE OPENING AND OFFICIAL GREETINGS
<u>Invited speaker</u>	9.15 - 9:45	International Science & Infrastructure For Synchronous Observation: The Antarctica Insync Initiative Chiara Vernier - CNR-ISP
<u>Cryospheric Processes, Snow Hydrology, and Radiative Properties</u>	9:45 - 10:00	Analysis Of Glacier Impurities And Weathering Crust In Southeast Greenland* Giacomo Traversa - Meteorological Research Institute (Giappone) & CNR-ISP
	10:00 - 10:15	Sunlight Radiative Transfer In Arctic Snowpacks Luca Teruzzi - Università degli Studi di Milano
	10:15 - 10:30	From PRISMA To Sentinel-2: A Framework For The Retrieval Of Snow Properties And Radiative Forcing At Plateau Rosa And Cime Bianche Claudia Ravasio - Università di Milano-Bicocca
	10:30 - 11:00	BREAK
	11:00 - 11:15	Antarctic Snowfall: From Ground To Space, Bridging In-Situ And Remote Sensing Observations Giacomo Roversi - Ca' Foscari Università di Venezia & CNR-ISAC
	11:15 - 11:30	First Rain On Snow Event In Winter Recorded At THAAO: Preliminary Results Monica Tosco - Ca' Foscari Università di Venezia & INGV
<u>Invited speaker</u>	11.30 - 12:15	Towards IPY5: Polar Educators International And The Legacy Of IPY4 In Polar Education* Maria Pia Casarini - PEI
<u>APECS Italy</u>	12:15 - 12:30	ACTIVITIES PLANNED FOR 2026-2027
	12:30 - 14:00	LUNCH BREAK
<u>Paleoclimate Proxies, Deep Time, and Ocean-Ice Dynamics</u>	14:00 - 14:15	Discovering Past Climates Through Hidden Molecular Fossils: An Introduction To Biomarker Proxies In Polar Environments Letizia Roscelli - Ca' Foscari Università di Venezia & CNR-ISP
	14:15 - 14:30	Digital Holography For The Reconstruction Of Particles Suspended In Diamagnetic Droplets Levitated In A Magneto-Gravitational Trap** Sofia Biscotti - Sapienza Università di Roma
	14:30 - 14:45	Deep Sea Warming In The Eastern Fram Strait Driven By Atlantic Water Intrusions Lorenzo Pasculli - OGS
	14:45 - 15:00	Variability Of Water Masses, Circulation And Freshwater Sources In The Ross Sea: Insights From Long-Term Hydrographic And Velocity Records And Recent Geochemical Tracers* Angela Garzia - Università Politecnica delle Marche
	15:00 - 15:15	Infrasound Monitoring Of Glacier Calving: From Event Detection To Quantifying Ice Loss At Grey Glacier, Patagonia* Claudia Sánchez - INGV
	15:15 - 15:30	BREAK





APECS ITALY NATIONAL CONFERENCE

CNR Headquarters, Rome - October 8-9, 2026

*Online presentation **Presentation in Italian

PROGRAM - OCTOBER 8

SESSION	TIME	TITLE AND SPEAKER
<u>Volcanism & Aerosol Transport</u>	15:30 – 15:45	Deciphering Magma Plumbing Systems And Glacial Interactions In Northern Victoria Land: Insights From The Pleiades And Mount Melbourne Volcanic Fields <i>Irene Rocchi</i> - Università di Pisa
	15:45 – 16:00	Complex Open-System Magma Evolution At The Pleiades Volcanic Field (Antarctica) Revealed By In Situ Radiogenic Isotopes <i>Stefano Iannini Lelarge</i> - CNR-GEO
	16:00 – 16:15	The Role Of Light Absorbing Aerosol On The Atmospheric Heating Rate In Remote Areas (Arctic Region: Ny-Ålesund)** <i>Sofia Cerri</i> - Ca' Foscari Università di Venezia & Università di Milano-Bicocca
	16:15 – 16:30	Study Of The Sources And Atmospheric Transport Processes Of Crustal-Origin Particulate Matter In Antarctica** <i>Caterina Parodi</i> - INFN Firenze & Università di Torino
	16:30 – 17:00	BREAK
<u>Polar Exploration & Data Governance</u>	16:45 – 17:00	High-Resolution Characterisation Of Arctic Ocean Cold-Seep Habitats <i>Fereshteh Hemmateenejad</i> – Università di Milano-Bicocca
	17:00 – 17:15	The Securitization of Scientific Data in the Arctic: Between Scientific Openness and Strategic Interests <i>Marco Dordoni</i> - Università per Stranieri di Perugia
<u>Invited speaker</u>	17:15 – 17:45	The United States in Antarctica: the political, military and scientific dimensions of Operation Highjump (1946-1947)** <i>Pier Paolo Alfei</i> - Royal Historical Society
<u>Conclusion</u>	17:45 – 18:00	SUMMARY OF THE CONFERENCE FIRST DAY





APECS ITALY NATIONAL CONFERENCE

CNR Headquarters, Rome - October 8-9, 2026

*Online presentation **Presentation in Italian

PROGRAM - OCTOBER 9

SESSION	TIME	TITLE AND SPEAKER
<u>Intro</u>	8:45 - 9:00	REGISTRATION AND OPENING OF CONFERENCE SECOND DAY
<u>Polar Ecosystems in a Changing Environment</u>	9:00 - 9:15	Nutrient Distribution And The Carbonate System In The Glomar Challenger Basin: Implications For The Biogeochemical Cycles Of The Ross Sea (Antarctica)* Michele Torri - Università degli Studi di Genova
	9:15 - 9:30	Phytoplankton Bloom Dynamics And Functional Traits At The Sea Ice-Water Interface In Terra Nova Bay (Ross Sea)** Emanuela Serino - Università degli Studi di Napoli Federico II
	9:30 - 9:45	Sea Ice Melting Shifts Microbial Food Web Architecture From Chemoautotrophy To Phytoplankton-Based Heterotrophy In Coastal Antarctic Waters Marco Basili - CNR-IRBIM
	9:45 - 10:00	Resolving The Spatial And Environmental Organization Of Antarctic Desert Soil Microbial Communities Fabiana Canini - Università degli Studi della Toscana
	10:00-10:15	Fungal-Mineral Interactions In Antarctic Cryptoendolithic Communities: Phenotypic And Genomic Insights Giorgia Cavallini - Università degli Studi della Toscana
	10:15 - 10:30	Microfibers Pollution In Antarctic Coastal Ecosystems: Evidence From Multiple Benthic Species From The Fildes Peninsula To The Ross Sea* Silvia Simonetti - Università di Siena
	10:30 - 10:45	Decadal Reorganization Of Soil Microbial Communities In A Warming High-Mountain Ecosystem Francesca Contemori - Università degli Studi della Toscana
	10:45- 11:15	BREAK
<u>Invited speaker</u>	11:15 - 11:30	The International Science Council and IPY* Salvatore Aricò - ISC
<u>Space, High Atmosphere, & Ice Cores</u>	11:30 - 11:45	Precision Cosmology From The Antarctic Plateau: The COSMO Experiment Alessandro Capponi - Ca' Foscari Università di Venezia & Sapienza Università di Roma & INFN
	11:45 - 12:00	Multi-Instrument Observations Of Ionospheric Irregularities Associated With A STEVE Event Carlos Castillo-Rivera - Sapienza Università di Roma & INGV
	12:00 - 12:15	Investigating Ionospheric Dynamics In Antarctica: Multi-Method Velocity Analysis During The Mother's Day Superstorm Rebecca Ghidoni - INGV
	12:15 - 12:30	Tritium Activity Analysis By Liquid Scintillation Counting For Dating The "ADA270" Ice Core Ellen Barlow - Università di Bologna
	12:45 - 13:00	Dansgaard-Oeschger Events: An Open Question In Polar Research Rocco Cogliati - Università di Torino
<u>Conclusion</u>	13:00 - 13:15	SUMMARY OF THE CONFERENCE AND FINAL GREETINGS

