EUFAR TRAINING COURSE

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Exploring Air-Sea Interaction via Airborne Measurements

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TRAINER PHOTOBOOK

Francesco Cairo

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NATIONALITY: Italian
INSTITUTE, CITY/TOWN, COUNTRY: Institute of Atmospheric Sciences and Climate, CNR
EDUCATION: Degree in Physics, PhD in Optics

RESEARCH EXPERIENCE:
Francesco Cairo is a senior researcher at ISAC and contract professor of Atmospheric Physic at the University of Rome “Tor Vergata”. His expertise ranges from Optics to Electronics to Atmospheric Sciences, with emphasis on high altitude clouds, polar stratospheric clouds, tropospheric and stratospheric aerosols, tropical upper troposphere and lower stratosphere. He also has more than 10 years of experience in the study of the atmosphere by optical techniques with ground-based and airborne/balloon-borne devices, and authored more than 60 scientifically reviewed publications.

Darius Ceburnis

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NATIONALITY: Lithuanian
INSTITUTE, CITY/TOWN, COUNTRY: National University of Ireland Galway, Galway, Ireland
EDUCATION:MSC IN PHYSICS, PhD in Natural Sciences

RESEARCH EXPERIENCE:
"My expertise in atmospheric science is centered on aerosol particles spanning from their formation mechanisms, fluxes and transport to climatic implications and air quality issues utilizing large variety of instruments. My other novel idea was developed around using carbon isotopes for the advanced source apportionment simultaneously using stable and radiocarbon isotopes. I contributed to three Nature papers published in 2004, 2016 and 2017. I published over 80 peer-reviewed papers to-date and I am among the top 1% of cited authors in the Geosciences discipline.
I have provided critical technical and research support for Mace Head Atmospheric Research Station which has significantly contributed towards the establishing Mace Head infrastructure among the top atmospheric research infrastructure in the world. I am a member of the Mace Head Management Committee since 2010 and Mace Head Operations Manager since 2016."

Ian Faloona

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NATIONALITY: American
INSTITUTE, CITY/TOWN, COUNTRY: University of California Davis, USA
EDUCATION:
> B.A. in Chemistry, UC Santa Cruz
> Ph.D. in Meteorology, The Pennsylvania State University

RESEARCH EXPERIENCE:
Ian studied physical chemistry at UC Santa Cruz, including two summer research internships in computational chemistry at Los Alamos National Lab, and then earned a Ph.D. in meteorology from Penn State University with an Earth Systems Science Fellowship from NASA. For four years in between he worked as an air quality consultant with SECOR Inc. in Fort Collins, Colorado. Later, after a postdoc in the Advanced Study Program at the National Center for Atmospheric Research, he joined the faculty at UC Davis. He has been involved with several NASA (including DISCOVER-AQ, SUCCESS, SONEX, PEM-Tropics B) and NSF (including ACE-ASIA, DYCOMS-II, and PASE) airborne projects, and currently works primarily with a single engine Mooney aircraft (operated by Scientific Aviation, Inc.) to study greenhouse gas emissions, air pollution chemistry, and turbulent boundary layer dynamics.

Olivier Henry

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Nationality: French
Institute, City/Town, Country: CNRM/ Météo-France/ EUFAR, Toulouse, France
Education: MSc in Geophysics and Physics (applied to Cultural Heritage), Rennes, 2006, and Bordeaux, 2008

Research experience:
"I have worked on Climate Change and its consequences on global sea level rise, ENSO and Continental Hydrology from 2009 to 2014. Since 2014 I am a research engineer for EUFAR. I am in charge of the development of few EUFAR software (EGADS, ASMM, EMC), and Standards and Protocols for atmospheric measurements".

Alessandra Sabina Lanotte

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Nationality: Italian
Institute, City/Town, Country: Institute of Atmospheric Sciences and Climate, CNR, Lecce, Italy
Education:
> Degree in Physics (Univ. La Sapienza, Rome 1995)
> PHD in Physics (Univ. Sophia Antipolis, Nice 1999)

Research experience:
Alessandra is a researcher at CNR-ISAC since 2001 and has been contract professor of Complex Systems at the Physics Dept. of University of Rome "Tor Vergata". Starting from a background on statistical physics approaches to turbulence, she then developed interest for geophysical fluid dynamics, on multi-phase flows and planetary boundary layer flows. In particular, she worked for some years on the Lagrangian transport of inertial particles in turbulent flows, and on the role of turbulence in the formation of cumulus clouds. She has more than 10 years of experience in the numerical study of turbulent flows. She is currently Associate Editor of Physics of Fluids.

Szymon Malinowski

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Nationality: Polish
Institute, City/Town, Country: Institute of Geophysics, Faculty of Physics, University of Warsaw, Poland
Education:
> MSc in Physics Univ. Warsaw, 1982
> PhD Polish Academy of Sciences, 1988

Research experience:
Szymon Malinowski works in cloud physics, atmospheric turbulence measurements and modeling since 1982. He participated in many airborne research campaigns, including DYCOMS-II (2001) and POST (2008). He was a research assistant in Polish Academy of Sciences, Post-Doc at Université de Quebec in Montreal, and for over 20 years works as adjunct professor and full professor at the University of Warsaw. He is an associate editor of "Atmospheric Measurement Techniques".

Mario Marcello Miglietta

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NATIONALITY: Italian
INSTITUTE, CITY/TOWN, COUNTRY: Institute of Atmospheric Sciences and Climate, CNR
EDUCATION: PhD in Physics

RESEARCH EXPERIENCE:
Mario Marcello Miglietta is researcher at ISAC-CNR since December 2001. He worked as a weather forecaster in the Italian National Meteorological Service from 1993 to 2001.
He has been several times visiting scientist at NCAR, in Boulder,
Colorado and at the Atmospheric and Ocean Research Institute, University of Tokyo. He is Associate Editor for Atmospheric Research. His research interest is mainly in the field of mesoscale meteorology, in particular the theoretical study of orographic precipitation and the analysis of case studies of heavy rain, Mediterranean tropical-like cyclones, tornadoes and severe weather in general.

Bruno Piguet

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NATIONALITY: French
INSTITUTE, CITY/TOWN, COUNTRY: CNRM/ Météo-France/ GMEI, Toulouse, France
EDUCATION: Engineer's degree in Meteorology, French National School of Meterology, 1987

RESEARCH EXPERIENCE:
Bruno Piguet began working on airborne measurement processing when he joined the experimental and instrumental group of CNRM, Meteo-France's research center, in 1992.
Since 1998, he's the head of the data processing team of the group, mostly in charge of turbulent flux computation from surface and balloon-borne station operated by CNRM and final data processing of SAFIRE's aircraft.

Ils Reusen

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NATIONALITY: Belgian
INSTITUTE, CITY/TOWN, COUNTRY: Flemish Institute for Technological Research (VITO), Mol, Belgium
EDUCATION:
> MSc in Physics (astronomy), KULeuven, 1993
> PhD in Physics (nuclear physics-spectroscopy), KULeuven, 1999

RESEARCH EXPERIENCE:
> 2000: Post-doc in image processing at KULeuven
> 2000-now: Researcher/project manager in airborne hyperspectral remote sensing at VITO

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