

Time	Name	Surname	Affiliation	Title Presentation
<b>Day 1 - May 12<sup>th</sup></b>				
09:00	<b>Introduction and presentation of the workshop</b>			
09:30	Georg	Grell	NOAA, retired, NSF-NCAR, Boulder, Colorado, USA	<b>History, state of the art, and overview of WRF-Chem</b>
10:30	<b>Coffee Break &amp; Poster Session</b>			
11:00	Alexander	Ukhov	King Abdullah University of Science and Technology, Thuwal, Saudi Arabia	<b>Recent advances in modeling regional simulations and in Extending WRF-Chem volcanic capabilities</b>
11:15	Umberto	Rizza	National Research Council – Institute of Atmospheric Sciences and Climate (CNR-ISAC), Lecce, Italy	<b>Evaluating the Radiative Forcing impacts of the 2015 Calbuco eruption using WRF-Chem v4.8 and the PrepEmissSource Preprocessor</b>
11:30	Silvia	Di Nisio	Polytechnics University of Marche, Ancona, Italy	<b>Coupling WRF-Chem v4.8 with Near-Source L-Band Radar Observations for High-Resolution Simulation of Volcanic Emissions at Mt. Etna</b>
11:45	Manas	Mohanty	Department of Atmospheric and Oceanic Sciences, University of California, Los Angeles, CA, USA	<b>Modeling of a degassing volcanic plume using two different aerosol and chemical mechanism: Insights from evaluating against satellite retrievals and in situ observations.</b>
12:00	Ólafur	Rögnvaldsson	Belgingur Ltd., Reykjavík, Iceland	<b>Simulating gases from volcanic eruptions in SW-Iceland</b>
12:15	Georg	Grell	NOAA, retired, NSF-NCAR, Boulder, Colorado USA	<b>The new version of the GFL convective parameterization (former GF) in WRF and MPAS, including aerosol–convection interactions</b>
12:30	Maja	Bubalo	Croatian Meteorological and Hydrological Service, Zagreb, Croatia	<b>Modeling with LOTOS-EUROS: Comparison of two simulations with different time profiles with measured data</b>
12:45	Amirhossein	Nikfal	Jülich Supercomputing Center (JSC), Jülich, Germany	<b>A Modular Toolchain for Reproducible WRF and WRF-Chem Workflows</b>
13:00	<b>Free Lunch</b>			
14:30	Pablo*	Lichthig	National Commission for Atomic Energy (CNEA), Buenos Aires, Argentina	<b>MELODIES-MONET: A User-Friendly Tool for Model Evaluation</b>

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14:45	William*	Hatheway	San Marcos, Texas, USA	WRF-MOSIT: a modular and cross-platform tool for configuring and installing the WRF model
15:00	Huanxin*	Zhang	Department of Chemical and Biochemical Engineering, The University of Iowa, Iowa City, IA, 52242, USA	Development of UI-WRF-Chem Modeling Framework for the MAIA Satellite Mission
15:15	Anahí	Villalba Pradas	Department of Atmospheric Physics, Charles University, Prague, Czech Republic	Evaluation of High-Resolution WRF-Chem Simulations During the East Asian Summer Monsoon
15:30	Coffee Break & Poster Session			
16:00	Mary*	Barth	NSF National Center for Atmospheric Research (NCAR), Boulder, Colorado, USA	NSF NCAR's Transition from WRF-Chem to MPAS-A with Chemistry and Aerosols
17:00	Jordan*	Schnell	NOAA Earth System Research Laboratory, Boulder, Colorado, USA	NOAA GSL experimental aerosol forecasting in MPAS-A
WRAP UP - Day 1				
Day 2 - May 13 <sup>th</sup>				
09:00	Jan	Karlický	Department of Atmospheric Science, Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic	Impact of boundary conditions, model type and chemistry on ambient meteorology and air-quality
09:15	Sompoke*	Kingkaew	Clean Air and Climate as a Service, CACAAS Co., Ltd., Surin 32180, Thailand	Analytical Forecasting of a Destructive Summer Storm Event Driven by Aerosol-Induced Convective Intensification in Northern Thailand
09:30	Antonio	Ricchi	CETEMPS/UNIVAQ, L'Aquila, Italy	Implementation of a fully coupled atmosphere-aerosols-waves-ocean model based on the COAWST package and the WRF-Chem model: Application for the Medicane IANOS
	Umberto	Rizza	National Research Council – Institute of Atmospheric Sciences and Climate (CNR-ISAC), Lecce, Italy	
10:30	Coffee Break & Poster Session			

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11:00	Giorgos*	Papadopoulos	Laboratory of Atmospheric Physics, School of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece	High-resolution Assessment of the Impact of Climate Change on Air Quality in Thessaloniki, Greece with WRF-Chem: Model Configuration, Performance Evaluation and Future Projections
11:15	Andrea	Mazzeo	Lancaster Environment Centre, Lancaster University, UK	How Heatwaves Reshape Ozone Budgets over the UK: Transport and Chemistry Interactions within the PBL
11:30	Cansu*	Düzgün	Florida State University, Tallahassee, FL, US	Simulating Parameterized Vertical Transport by Mesoscale Storms Using Lightning Data Assimilation in WRF-Chem
11:45	Andrea	Miranda-Corzo	National Service of Meteorology and Hidrology, Lima, Peru	Spatiotemporal variability of black carbon in high mountain environments: an observational and modeling approach in the huaytapallana mountain range
12:00	Leandro C.	Segado-Moreno	Department of Physics, University of Murcia, Murcia, Spain	Tropospheric ozone sensitivity in response to changes in soil moisture and vegetation over the Iberian Peninsula
12:15	Luka	Ilić	Institute of Physics Belgrade, Belgrade, Serbia	Toward a Globally Transferable Numerical Pollen Forecasting System: Advancing DREAM-POLL for Multi-Region Pollen Prediction
12:30	Boris	Mifka	Faculty of Physics, University of Rijeka, Rijeka, Croatia	Fungal Spore Parameterization in WRF-Chem: Implementation and Finland Case Study
12:45	Qing*	Luo	Sostenipra Research Group, Institute of Environmental Sciences and Technology, Universitat Autònoma de Barcelona (UAB), Barcelona, Spain	Assessing the Contribution of Urban Green Spaces to Atmospheric CO <sub>2</sub> Dynamics Using WRF-Chem in a Metropolitan Area
13:00	<b>Free Lunch</b>			
14:30	Mauro	Morichetti	Forest Modeling Laboratory, Institute for Agriculture and Forestry Systems in the Mediterranean (ISAFoM), CNR, Italy	Climate-driven loss of resilience in Italian forests under ISIMIP3 scenarios: insights from 3D-CMCC-FEM v5.7
14:45	Rami*	Yagni	Civil (Environmental) Engineering Department, Pandit Deendayal Energy University, Gandhinagar, India	High-Resolution Urban Emission Mapping and WRF-Chem Simulations to Evaluate Clean-Air Pathways for Ahmedabad, India

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15:00	Antoine	Pasternak	Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Brussels, Belgium	WRF-Chem analysis of ammonia emissions over the Benelux and neighboring regions: seasonal insights from IASI
15:15	Rene*	Parra	Colegio de Ciencias e Ingenierías, Universidad San Francisco de Quito USFQ, Quito, Ecuador	Modeling PM2.5 Levels Due to Combustion Activities and Fireworks at the Beginning of the Year in Quito (Ecuador) Using WRF-Chem
15:30	Coffee Break & Poster Session			
16:00	Jordan*	Schnell	NOAA Earth System Research Laboratory, Boulder, Colorado, USA	Using WRF-Chem and MPAS-A for experimental pollen forecasting in RAP-Chem and cheMPAS-Fire
WRAP UP - Day 2				
Day 3 - May 14 <sup>th</sup>				
09:00	Goran	Gašparac	Amego Ltd, Zagreb, Croatia	Evaluation of WRF-Chem performance in simulating background particulate matter in Europe during stable atmospheric conditions
09:15	Zorica*	Podrascanin	University of Novi Sad, Faculty of Sciences, Department of Physics, Novi Sad, Serbia	Possible use of the WRF-Chem model for air quality prediction in Serbia
09:30	Alessandra	Chiappini	Polytechnics University of Marche, Ancona, Italy	Sub-seasonal WRF-Chem reanalysis of extreme Saharan dust outbreaks in spring-summer 2024: balancing phase consistency and aerosol realism
09:45	Luka	Ilić	Barcelona Supercomputing Center, Barcelona, Spain	Sensitivity of Dust Absorption to Regionally and Size-Resolved Mineralogy in MONARCH
10:00	Douglas	Lima de Bem	Federal University of Santa Maria, Department of Physics, Santa Maria, 97105-900, Brazil	Investigating Aerosol-Driven Atmospheric Perturbations from Extreme Biomass Burning over South America with WRF-Chem
10:15	Stergios*	Kartsios	Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing, National Observatory of Athens, Athens, Greece	The impact of aerosols on a severe weather event in Greece

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10:30	Anas Ibnu*	Basheer	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India	Impact of LULC modifications on Aerosol-induced changes in surface temperature and energy partitioning
10:45	Vagner	Anabor	Graduate Program in Meteorology, Department of Physics, Federal University of Santa Maria, Santa Maria, Brazil	Aerosol-Induced Shifts in Mesoscale Convective Trajectories
11:00	Coffee Break			
11:30	Mauro	Morichetti	Forest Modeling Laboratory, Institute for Agriculture and Forestry Systems in the Mediterranean (ISAFoM), NCNR, Italy	WRF-Chem hands-on: how to set up and run
WRAP UP - Day 3				

Online*
Seminar
Volcanic Emissions & Eruption Modeling
Tools, Frameworks & Model Development
Chemistry–Meteorology Interactions & Extreme Events
Biosphere–Atmosphere & Land Interactions
Air Quality, Emissions & Urban Environment
Aerosols, Dust & Biomass Burning