

ICOS Science Conference 2026: Talks and posters with ICOS-CH contributions

Session	Poster / Talk	ICOS-CH Institution	Authors	Title
33	299 (oral)	ETH Zurich	Liliana Scapucci, Yue Wu, Iris Feigenwinter, Yi Wang, Susanne Burri, Sabina Keller, Nina Buchmann	"The colors of breathing ecosystems" – A visual language for ecosystem fluxes
Plenary session 1	Talk	ETH Zurich	Nina Buchmann, Marius Floriancic, Iris Feigenwinter, Lukas Hörtnagl, Harsh Beria, Ankit Shekhar, Mana Gharun	Evapotranspiration of the subalpine spruce forest Davos: 27 years of fluxes, a handful of drivers, one main water source
	Poster 326	Empa	Josef Stauber, Jia Chen, Junwei Li, Andreas Luther, Moritz Oliveira Makowski, Haoyue Tang, Dominik Brunner	Quantifying Munich's CO ₂ and CH ₄ emissions from 2019 to 2025 using MUCNet data and Bayesian inversion
	Poster 469	Empa	Jacoline van Es, Carina van der Veen, Paolo Cristofanelli, Stephan Henne, Thomas Rockmann	Methane isotopic measurement at the Monte Cimone ICOS station
	Poster 520	Empa	Javis A. Nwaboh, Joachim Mohn, Olav Werhahn	New Metrology for Nitrous Oxide
	Poster 42	Empa	Leonie Bernet, Lionel Constantin, Lukas Emmenegger, Christoph Hüglin, Pascal Rubli, Dominik Brunner	Estimating CO ₂ emissions in the city of Zurich using building-resolved simulations and a Bayesian framework
	Oral 77	Empa	Patrick Siegwolf, Andrew Whitehill, Stephan Henne, Dominik Brunner, Sangil Lee, Ruth Hill-Pearce, Samuel Hammer, Lukas Wacker, Lukas Emmenegger, Béla Tuzson, Joachim Mohn	Laser based $\Delta^{14}\text{C}$ -CO ₂ monitoring for identifying urban fossil emissions

	Poster 78	Empa	Patrick Siegwolf, Lukas Emmenegger, Béla Tuzson	Continuous CO ₂ Stable Isotope Measurements at the High-Alpine Station Jungfrauoch
21	Oral 79	Uni Basel, Empa	Jia Chen, Josef Stauber, Daniel Kühbacher, Junwei Li, Patrick Aigner, Betty Molinier, Natascha Kljun, Ann-Kristin Kunz, Andreas Christen, Samuel Hammer, Rainer Hilland, Andreas Luther, Moritz Oliveira Makowski, Adrian Wenzel, Florian Dietrich, Stavros Stagakis, Christopher Claus Holst, Changxing Lan, Dominik Brunner	Multi-Scale Greenhouse Gas Emission Monitoring and Assessment System in the ICOS Pilot City Munich
11	Poster 163	ETH Zurich	Iris Feigenwinter, Yi Wang, Lukas Hörtnagl, Fabio Turco, Regine Maier, Nina Buchmann	High greenhouse gas emissions after grassland destruction
14	Poster 245	ETH Zurich	Aolin Jia, Helge Aasen, Lukas Hörtnagl, Iris Feigenwinter, Sélène Ledain, Thomas Lauber, Jacob A. Nelson, Sophia Walther, Kukka-Maaria Kohonen, Flavian Tschurr, Lorenz Allemann, Turco Fabio, Nina Buchmann	Integrating satellite-derived management indicators improves modeling of water and greenhouse gas fluxes in Swiss agroecosystems
10	Poster 378	ETH Zurich	Lukas Hörtnagl, Marius G. Floriancic, Arthur Gessler, Mana Gharun, Iris Feigenwinter, Kukka-Maaria Kohonen, Luana Krebs, Lutz Merbold, Liliana Scapucci, Ankit Shekhar, Philip Meier, Sophia Etzold, Roman Zweifel, Nina Buchmann	Atmospheric dryness threshold reveals dominant control over forest carbon sinks

14	Poster 439	ETH Zurich	Ziyu Guo, Iris Feigenwinter, Nina Buchmann	Evapotranspiration in Swiss agroecosystems: from eddy covariance measurements to plant dendrometers
17	Oral 188	Uni Basel, Empa	Jesse Soininen, Kukka-Maaria Kohonen, Stavros Stagakis, Ara Cho, Betty Molinier, Pascal Rubli, Rainer Hilland, Natascha Kljun, Liisa Kulmala, Leena Järvi	COS in cities: Exploring possibilities and limitations
	Poster 259	Uni Basel	Konstantinos Politakos, Stavros Stagakis, Matthias Roth, Nektarios Chrysoulakis	A Decade of Urban CO ₂ Emission Changes in Heraklion, Greece: Evaluating Municipal Interventions with Eddy Covariance
	Poster 262	Uni Basel	Aneena Binoy, Armin Sigmund, Stavros Stagakis, Alessandro Bigi	Removal of Anomalies in High-Frequency Data Using the IMAS Algorithm for Improved Urban Eddy-Covariance CO ₂ Flux Estimates
21	Oral 357	Uni Basel	Stavros Stagakis, Christian Feigenwinter, Armin Sigmund, Roland Vogt, Robert Spirig, Markus Kalberer	Tracking the urban transition towards net-zero CO ₂ emissions using two long-term flux towers in the city centre of Basel, Switzerland
17	Oral 359	Uni Basel, Empa	Armin Sigmund, Dominik Brunner, Jia Chen, Changxing Lan, Rainer Hilland, Andreas Christen, Christopher C. Holst, Betty Molinier, Christian Feigenwinter, Roland Vogt, Lukas Emmenegger, Natascha Kljun, Markus Kalberer, Stavros Stagakis	Assessing the CO ₂ storage change and advection for tall-tower eddy-covariance sites in two cities

Poster 432	Uni Basel	Robert Spirig, Stavros Stagakis, Konstantinos Politakos, Beatriz Piñeiro, Zina Mitraka, Emmanouil Panagiotakis, Katy Karampour, Elisa Covato, Owen Cranshaw, Mauricia Benedito Bordonau, Alessandra Gandini, Manuel Benito Moreno, Andres Simon Moral, Cristina Monaco, Annalisa Riccardi, Mattia Marconcini, Alessandra Feliciotti, Faezeh Kazemihatami, Giovanni Giacco, Ana Monteiro, Zaheer Khan, Nektarios Chrysoulakis	CLMS-Cities: Towards monitoring CO2 emissions on the neighbourhood scale in European cities based on Copernicus data
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