

## STANCO Training Course, 26 June - 6 July 2017, Cambridge, UK PROGRAM

	Monday 26/06	Tuesday 27/06	Wednesday 28/06	Thursday 29/06		Friday 30/06		Saturday 01/07
9:00-10:30	Arrival	<b>8:45-8:50</b> Welcome (EUFAR) <b>8:50-9:15</b> P. Di Carlo & J. McQuaid: Welcome and general information on STANCO course <b>9:15-10:30</b> Self introduction of students, division of students into working groups	<b>R. Jones:</b> Composition and climate change	<b>R. Krejci:</b> Aerosol microphysics and physically based methods	7:00	<i>Departure to Cranfield</i>	9:00-10:30	<b>O. Henry:</b> Process, plot, analyze aircraft data: EGADS software
10:30-11:00		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	10:30-10:45	<i>Coffee break</i>	10:30-11:00	<i>Coffee break</i>
11:00-12:30		<b>A. Archibald:</b> Atmospheric chemistry: Key topics	<b>J. McQuaid:</b> airborne measurements of VOC : WAS and online techniques	<b>J. Trembath:</b> Aerosol Instrument Fittings on aircraft platform: setup, calibration	10:45-12:00	Meteo briefing, flight objectives and planning	11:00-12:00	<b>P. Di Carlo:</b> New frontiers on airborne observations: from big aircrafts to drones
12:30-13:30		Lunch	Lunch	Lunch	12:00-13:00	Lunch	12:00-13:00	Lunch
13:30-14:45		<b>A. Archibald:</b> Models application to aircraft observations	<b>S. Bauguitte:</b> Chemistry of GHG-airborne measurements of GHG: QC-L technique	<b>B. Ouyang:</b> Airborne Custom Instruments: BBCEAS	13:00-13:30 13:30-14:00	<b>S. Devereau:</b> Instrument Certification <b>M. Smith:</b> BAe 146 safety rules		
14:45-15:00		<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	14:00-15:00	<b>A. Wellpott:</b> BAe 146 data access and use		
15:00-16:00		<b>S. Bauguitte:</b> NOx chemistry and airborne measurement techniques for NOx, O3 and CO	<b>A. Vaughan :</b> Aircraft flux measurements	<b>A. Aruffo:</b> Aircraft custom Instruments: TD-LIF	15:00-17:00	BAe-146 Visit		<i>Afternoon off</i>
16:00-17:00	<b>17:00-18:00</b> Welcome Icebreaker Sidney Sussex College ( JCR TV Room)	<b>A. Vaughan:</b> New emerging instruments and techniques for airborne measurements of the atmospheric composition	<b>R. Krejci:</b> Aerosol chemistry, mixing state, SOA.	<b>J. McQuaid:</b> BAe 146 campaigns and main scientific results so far	17:00	Departure to Cambridge		
18:00	Dinner College	Dinner	Dinner	Dinner	18:00	Dinner		Dinner

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Sunday 02/07	Monday 03/07 (*)				Tuesday 04/07 (*)				Wednesday 05/07	Thursday 06/07	
	7:30	<i>(Group A)</i> Departure to airport		<i>(Group B, C)</i>	7:30	<i>(Group B, C)</i> Departure to airport		<i>(Group A)</i>	9:00-9:30	Debriefing	
Day off Tour of Cambridge	8:00-12:00	<i>Pre-flight</i>	9:00-10:30	<b>M. Cain:</b> Introduction to Airborne measurements analysis	8:00-12:00	<i>Pre-flight</i>	9:00-10:30	<b>M. Cain:</b> Introduction to Airborne measurements analysis	9:30-10:30	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Data pre-analysis, discussion	Student presentations
	12:00-15:00	Mission Flight 1 <i>(Group A)</i>	10:30-11:00	<i>Coffee break</i>	12:00-15:00	Mission Flight 2 <i>(Group B)</i>	10:30-11:00	<i>Coffee break</i>	10:30-11:00	<i>Coffee Break</i>	<i>Coffee Break</i>
	16:30	Departure from airport	11:00-12:30	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Classroom Exercises: Airborne Data analysis	15:00-16:30	Refuel; Departure from airport <i>(Group B)</i>	11:00-12:30	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Classroom Exercises: Airborne Data analysis	11:00-12:30	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Data pre-analysis, discussion	Student presentations STANCO conclusions
	17:00-17:30	Debriefing	12:30-13:30	<i>Lunch</i>	16:30-19:30	Mission Flight 3 <i>(Group C)</i>	12:30-13:30	<i>Lunch</i>	12:30-13:30	<i>Lunch</i>	<i>Lunch</i>
			13:30-14:45	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Classroom Exercises: Airborne Data analysis	20:30	Departure from airport	13:30-14:45	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Classroom Exercises: Airborne Data analysis	13:30-14:45	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Data pre-analysis, discussion	<i>Student Departure</i>
			14:45-15:00	<i>Coffee break</i>			14:45-15:00	<i>Coffee break</i>	14:45-15:00	<i>Coffee break</i>	
			15:00-17:00	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Classroom Exercises: Airborne Data analysis			15:00-17:00	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Classroom Exercises: Airborne Data analysis	15:00-17:00	<b>E. Aruffo, A. Wellpott, J. McQuaid, R. Krejci, M. Cain, P. Di Carlo:</b> Data analysis, discussion, preparation of student presentations	
Dinner College	18:00	Dinner College			18:00	Dinner College			18:00	Dinner College	

(\*) Students will be divided in 3 groups (Group A, B, C): Group A joins Mission Flight 1, Group B Mission Flight 2 and Group C Mission Flight 3. For each mission flight day the students not involved in the flight will attend classroom exercises on airborne measurements analysis, using data acquired during previous campaigns for the classroom exercises on Monday 03/07 and data collected during the STANCO mission flights for classroom exercises on Tuesday 04/07.