



Summer school: Flux measurement techniques for non CO₂ GHG: methods, sensors, databases and modelling

PROGRAM

This ten-day summer school will consist of lectures/exercises (4 to 8 hours per day) in Mierzecin Palace Conference Centre, including on hand measurements of trace gases at Tuczno forest site and a visit to Rzecin wetland site, both run by PULS.

Our course will address a variety of topics related to flux measurement techniques: e.g. eddy covariance technique, database and eddy data post-processing, chamber measurements, air profile measurements, and modelling. We would like to prepare groups of trainees with comparable knowledge for exercises and therefore we ask to fill out the application form with special attention to point 10.

All lectures/exercises are prepared and given by 14 invited experts:

Dennis Baldocchi, University of California, USA,	Bogdan Chojnicki PULS, Poland,	Werner Eugster - ETH Zurich, Swetzerland,
Silvano Fares,CRA, Italy,	Arjan Hansen, ECN, The Netherland,	Radek Juszczczak PULS, Poland,
Monique Leclerc University of Georgia, USA	Lutz Merbold ETH Zurich, Switzerland,	Meelis Mölder - Lund University, Sweden,
Janusz Olejnik PULS, Poland,	Dario Papale - University of. Tuscia, Italy,	Mari Pihlatie, University of Helsinki, Finland,
Marek Urbaniak PULS, Poland,	Timo Vesala -University of Helsinki, Finland	d,

The cost of the summer school is about 800 Euro per trainee (excluding travel costs). We expect about 30-35 trainees. The deadline for application is 20st of February 2013 (application form attached). The applicants will be informed about the results of application procedure by the 1th of March 2013.

The table below shows the general program of the summer school – details and keywords of all lectures and exercises will be sent to selected trainees in March 2013. Outside the clas, trainers will be available for students (personal communication) the day before and the day after theirs classes.

Please send this information and application form to anybody who could be interested,

Local Organizer, Janusz Olejnik

4.05 Saturday	15:00 - Arrival to Mierzecin Conference Center (bus from Poznan Lawica Airport		us from	16:00 – 17:00: Janusz Olejnik (L1) Welcome	17: 00 – 18:30: Monique Leclerc: (L2) Introduction	
DATE 2013	9:00- 10:30	11:00- 12:30	14:00- 15:30	16:00- 17:30	SUBJECT keyword <mark>(L-lecture</mark> , E exercise),	TRAINER
05.05 Sunday	<mark>L 3</mark>	<mark>L 4</mark>			Introduction (L3, L4)	Monique Leclerc University of Georgia, USA (L3, L4)
			E1	E 2	Chamber and EC demonstration (E1, E2)	Marek Urbaniak, Radek Juszczak, PULS.Poland, (E1, E2)
06.05 Monday	<mark>L 5</mark>	<mark>L 6</mark>			Introduction (L 5, L6)	Timo Vesala, Univ., Helsinki, Finland (L5)
			L7	L 8	N2O, CH4 fluxes (L 6, L 7, E 3)	Lutz Merbold ETH Zurich, Switzerland (L7, L8) Arjan Hansen, ECN,The Netherland (L7, L8)
07.05 Tuesday	<mark>L9</mark>	<mark>E 4</mark>	<mark>E 5</mark>		N2O, CH4 fluxes (L 6, L 7, E 3)	Arjan Hansen, ECN, The Netherland (L9, E4, E5) Lutz Merbold ETH Zurich, Switzerland (L9, E4, E5)
				<mark>L 10</mark>	Database and eddy data post-processing	Dario Papale, Univ. Tuscia, Italy (L9, E5)
08.05 Wednesday	<mark>E 6</mark>		_		Database and eddy data post-processing	Dario Papale, Univ. Tuscia, Italy (L9, E5)
		E 7	<mark>E 8</mark>	<mark>E 9</mark>	Excursion to Tuczno forest and Rzecin wetland sites	Januz Olejnik, PULS, Poznan, Poland
09.05 Thursday	<mark>L 11</mark>	<mark>E 10</mark>			N20 measurements by chambers	Mari Pihlatie, University of Helsinki, Finland (L10, E6)
			<mark>L 12</mark>	E7	Ozone measurement by eddy covariance	Silvano Faresi, ARC, Italy (L11, E7)
10.05 Friday	<mark>L 13</mark>	<mark>E 11</mark>			Air profiles method	Meelis Mölder, Lund Univ., Sweden (L11, E 7)
			<mark>L 14</mark>	E 12	Modelling	Werner Eugster, ETH, Zurich, Switzerland (L12,)
11.05 Saturday	<mark>E 13</mark>				Modelling	Werner Eugster, ETH, Zurich, Switzerland (E1,2)
		<mark>L 15</mark>	<mark>L 16</mark>	<mark>L 17</mark>	Summary lectures based on ESPM 228	Dennis Baldocchi, University of California, USA
12.05 Sunday	<mark>L 18</mark>	<mark>L 19</mark>			Summary lectures based on ESPM 228	Dennis Baldocchi, University of California, USA
			<mark>L 20</mark> E 14		Farewell lecture and summary of the TS	Januz Olejnik, PULS, Poznan, Poland
12.05 Monday	7:00 Departure to Poznan		znan			