

EnMAP Workshop 2017

– Recent Advances in the Scientific Preparation of the EnMAP Mission

Final Program Overview

Open Program		Extended Program	
Time	Wednesday, September 6 th 2017	Thursday, September 7 th 2017	Friday, September 8 th 2017
09 - 10	Registration for Workshop (Schrader, Hank et al.)	Transfer to Oberpfaffenhofen	Introduction to the EnMAP-Box (van der Linden)
	Welcome (Mauser)		Introduction to new features of the EnMAP-Box (Rabe, Jakimow)
10 - 11	Current Status of the EnMAP Mission (Guanter)	Vicarious calibration / validation experiment (Heiden, Bachmann, Zepp)	
	EnMAP Scientific Preparation Part I (Dotzler, Woche)		Parallel training courses on Spectral Modelling & Machine Learning Algorithms using the EnMAP-Box (Danner, Woche, Cooper, Okujeni)
11 - 12	Coffee Break & Exhibition	Transfer to Andechs	
12 - 13	EnMAP Scientific Preparation Part II (Kannig, Gilcher, Riedel, Mielke)		Lunch Break @ Andechs Monastery
	13 - 14	Group Photo, Lunch Break & Exhibition	Transfer back to DLR
EnMAP Scientific Preparation Part III (Rosentreter, Riedel, Senn, Okujeni)			
14 - 15	EnMAP Scientific Preparation Part III (Rosentreter, Riedel, Senn, Okujeni)	Guided tour of GSOC (Kuhlmann, Danner)	Wrap-Up and Evaluation (Hank et al.)
		Guided tour of CHB (Brachmann, Pope)	
15 - 16	Coffee Break & Exhibition	Field Measurements Demonstration (Berger, Danner, Woche, Hank)	Travel home
	EnMAP Scientific Preparation Part IV (Jilge, Beamish, Keck, Utschig)	Transfer from DLR to OHB	
16 - 17		EnMAP Scientific Preparation Part IV (Jilge, Beamish, Keck, Utschig)	
	Lab tour of OHB Oberpfaffenhofen (Stuffer, Dietz et al.)		
17 - 18	Hotel Check-in and walk to Munich City Center	The EnMAP Program @ OHB (Stuffer)	
		Status & Background EnMAP Research Program (Sornig)	
18 - 19	Guided tour of Munich Historic Center (Ebner)	Reception @ OHB Oberpfaffenhofen	
19 - 20	Icebreaker event @ Munich Beer- and Oktoberfest Museum	Transfer back to Munich	
> 20			

Legend

	Administrative Events
	Lectures
	Practical Work
	Travel Times
	Breaks
	Social Program

Day 1

Wednesday, September 6th 2017

Open Program

Time		Topic	Speaker/Exhibitor/Responsibility
09:00	09:30	<i>Registration</i>	Stefanie Schrader, Tobias Hank
09:30	09:45	<i>Welcome</i>	Wolfram Mauser
09:45	10:10	<i>"Current Status of the EnMAP Mission"</i>	Luis Guanter
10:10	10:30	<i>"Imaging Spectroscopy of Forests Under Drought Stress"</i>	Sandra Dotzler
10:30	10:50	<i>"Retrieval of Plant Equivalent Water Thickness from Hyperspectral Data"</i>	Matthias Wocher
10:50	11:20	<i>Coffee Break & Exhibition</i>	LMU Team, SphereOptics GmbH, Cubert GmbH
11:20	11:40	<i>"Agricultural Plant Parameters from Hyperspectral Data of Different Scales"</i>	Martin Kannig
11:40	12:00	<i>"Comparison of Hyperspectral Imagery based Crop Growth Predictions and UAV based Crop Surface Models"</i>	Mario Gilcher
12:00	12:20	<i>"Uncertainties of in-situ Water Remote Sensing Reflectance Measurements for Validation of Atmospheric Correction"</i>	Sebastian Riedel
12:20	12:40	<i>"Mineral Resource and Mine Waste Mapping with EnMAP"</i>	Christian Mielke
12:40	13:50	<i>Group Photo, Lunch Break & Exhibition</i>	LMU Team, SphereOptics GmbH, Cubert GmbH
13:50	14:10	<i>"Classification of Local Climate Zones with Multisensoral Data"</i>	Johannes Rosentreter
14:10	14:30	<i>"EnviMetal - Vegetation Stress as Indicator of Soil Contamination in Floodplain Ecosystems"</i>	Frank Riedel
14:30	14:50	<i>"Linking Community Ecology and Optical Reflectance using Radiative Transfer Models"</i>	Johannes Senn
14:50	15:10	<i>"Generalizing Empirical Regression Models for Land Cover Fraction Mapping across Space and Time"</i>	Akpona Okujeni
15:10	15:40	<i>Coffee Break & Exhibition</i>	LMU Team, SphereOptics GmbH, Cubert GmbH
15:40	16:00	<i>"Challenges Analysing Urban Surfaces with Airborne and Spaceborne Imaging Spectroscopy Data"</i>	Marianne Jilge
16:00	16:20	<i>"Using Spectroscopy to identify Vegetation Type, Phenology and Photosynthetic Activity in a Heterogeneous low Arctic Tundra, Toolik Lake, Alaska"</i>	Alison Beamish
16:20	16:40	<i>"Simulated Chlorophyll-a Fluorescence in Optically Complex Waters"</i>	Therese Keck
16:40	17:00	<i>"The Optical Absorption of Suspended Material in Water - Influence of Particle Size and Composition"</i>	Christian Utschig

17:00 End of Open Program

Day 1

Wednesday, September 6th 2017

Extended Program

Time		Topic	Speaker/Exhibitor/Responsibility
17:00	18:00	<i>Hotel Check-In and walk to city center</i>	Participants
18:00	19:00	<i>Tour of Munich historic center</i>	Matthias Ebner
19:00	19:30	<i>Visit of the Munich Beer & Oktoberfest Museum</i>	Matthias Ebner
19:30		<i>Icebreaker and Dinner @ Museumsstüberl</i>	All

Day 2

Thursday, September 7th 2017

Extended Program

Time		Topic	Speaker/Exhibitor/Responsibility
09:00	09:30	<i>Bus transfer from Munich to Oberpfaffenhofen</i>	LMU Team
09:30	12:00	<i>Vicarious calibration / validation experiment</i>	Uta Heiden, Martin Bachmann, Simone Zepp
12:00	12:30	<i>Transfer to Andechs</i>	LMU Team
12:30	13:30	<i>Lunch Break @ Andechs Monastery</i>	All
13:30	14:15	<i>Transfer back to DLR</i>	LMU Team
14:15	14:45	<i>Guided tour of DLR German Space Operations Centre</i>	Sven Kuhlmann, Martin Danner
14:45	15:15	<i>Guided tour of DLR Calibration Home Base</i>	Johannes Brachmann, Charles Pope
15:15	15:45	<i>Field Measurements Demonstration</i>	LMU Team
15:45	16:00	<i>Transfer DLR to OHB</i>	LMU Team
16:00	16:20	<i>"Welcome & Overview OHB"</i>	Timo Stuffer
16:20	17:10	<i>Guided tour of EnMAP facilities @ OHB</i>	Timo Stuffer, Alexandra Dietz et al.
17:10	17:40	<i>"The EnMAP Program @ OHB (incl. Q&A)"</i>	Timo Stuffer
17:40	18:00	<i>"Status & Background EnMAP Research Program"</i>	Manuela Sornig
18:00	18:15	<i>Discussion</i>	All
18:15	19:00	<i>Reception 'Bavarian Brotzeit' @ OHB</i>	Timo Stuffer, Alexandra Dietz et al.
19:00	19:30	<i>Transfer back to Munich</i>	LMU Team

Day 3

Friday, September 8th 2017

Extended Program

Time		Topic	Speaker/Exhibitor/Responsibility
09:00	09:30	<i>"Introduction to the EnMAP-Box"</i>	Sebastian van der Linden
09:30	10:30	<i>Introduction to new features of the EnMAP-Box</i>	Andreas Rabe, Benjamin Jakimow
10:30	11:00	<i>Coffee Break</i>	LMU Team
11:00	12:30	<i>Two parallel trainings on Spectral Modelling and Machine Learning Algorithms using the EnMAP-Box</i>	Martin Danner, Matthias Wocher, Sam Cooper, Akpona Okujeni
12:30	13:30	<i>Lunch Break and switch of trainings</i>	
13:30	15:00	<i>Two parallel trainings on Spectral Modelling and Machine Learning Algorithms using the EnMAP-Box</i>	Martin Danner, Matthias Wocher, Sam Cooper, Akpona Okujeni
15:00	15:30	<i>Wrap-Up and Evaluation</i>	Tobias Hank

15:30 End of Workshop