



# BEST PRACTICE IN RESTORATION

THE 10<sup>th</sup> EUROPEAN CONFERENCE ON ECOLOGICAL RESTORATION  
PROGRAMME BOOKLET

**August 22–26, 2016, Freising, Germany**

## IMPRESSUM

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## WELCOME BY THE ORGANIZERS OF SER2016

Dear friends,



We are excited to welcome more than 300 delegates from over 40 countries to SER2016 in Freising. For two years, we have been planning this conference in close cooperation with the Board of the European

Chapter of SER, supported by an excellent team of local colleagues and student helpers. We gratefully acknowledge the contributions of several sponsors without whom this conference would not have been possible. Finally, we thank our university for generously hosting this significant event.

The motto of SER2016 is 'Best Practice in Restoration Ecology' within the compartments of LAND, LIFE, PEOPLE and PRACTICE. These topics will be highlighted by six keynote speakers who kindly agreed to share their knowledge with the audience of the conference. Living our motto the "Practitioners Day" on Tuesday will set a spotlight on regional expertise and case studies. To encourage participation of local experts we have decided to run a series of sessions in German with optional English translation.

That day will also be used to set up a Central-European group of restoration experts to be affiliated with SER Europe. Poster sessions will be in the evening of Monday and Tuesday with votes for



the most interesting posters. On Wednesday, our excursions will demonstrate a great diversity of field sites in Bavaria where restoration has been done in the past decades. Thursday offers again a multitude of interesting talks but also time to fill the SER Knowledge Base and to draft a conference declaration. Please, do not miss the membership meeting in the late afternoon. In the evening after closing the conference we invite you to the conference dinner where you can develop the most important aspect of best practice in restoration ecology – a vigorous and enjoyable network of friends and colleagues supporting our discipline and improving the ecological trajectory of our environment.

*Johannes Kollmann Julia-Maria Hermann*

Johannes Kollmann & Julia-Maria Hermann,  
Chair of Restoration Ecology, TUM  
7 July 2016

Dear colleagues,



Welcome to the 10<sup>th</sup> SER Europe Conference on ecological restoration and welcome to Freising!

We hope that this Conference will facilitate knowledge flow among the multiple actors involved in

ecological restoration, and promote high quality restoration in Europe. The organizers at the Technical University of Munich, and particularly Johannes Kollmann and Julia-Maria Hermann, with modest contribution from SERE Board Members, have done their best to ensure the success of this great event.

In this occasion, we emphasize best practice in ecological restoration. The conference structure is designed to capture the interest of a diverse audience and to facilitate exchanges. Key experts with contrasting backgrounds will present plenary lectures, and organize specific sessions to discuss such practices. And finally, the "Practitioners Day" will provide a forum for you to relate hands-on experience from restoration projects in rural and urban areas, terrestrial to aquatic habitats. A wide range of activities and of services will take place enabled by the efforts of the organizers and the kind support of several sponsors.

The status of ecological restoration in Europe is at stake. Political commitments and social willingness to improve European nature by means of ecological restoration are hampered by pressing economic and political difficulties, and aggravated by the absence of a strong leadership to reach consensus. Bad news, when the state of the

environment in Europe continues to deteriorate! In this sense, your participation in this conference is crucial, as is all the support that you can provide to SER Europe. Key questions in this respect are: Do you want degraded ecosystems to be restored with the best available knowledge? Are you interested in ethical, social, cultural, artistic and professional aspects of ecological restoration? Do you think SER Europe could change the way this works? Do you attend SER Europe Conferences regularly? ... → Then do not hesitate to join our Society. We need your contributions to promote high quality ecological restoration in Europe, as we need the efforts of organizations like REVER (France), AEET (Spain), SIRF (Italy), OBN (Netherlands) and FBER (Finland), that recently affiliated to SER Europe in an effort to strengthen the European ecological restoration network, and jointly achieving the objectives of our Society.

As humans, we enjoy information exchange. Music, dancing, reading, chatting ... enrich ourselves and contribute to our welfare. I am sure that there will be a little of all this in our conference, and SER2016 will be kept in our minds as a precious memory, and as a new step towards improving nature through ecological restoration.

Enjoy SER2016 in Freising!

21 July 2016

Jordi Cortina-Segarra, President of SER Europe

## WELCOME BY THE LBV CHAIRMAN

Dear participants of SER2016,



Rapid changes in land use, invasive alien species and global warming have negative impacts on biodiversity. These developments are challenges for nature conservation and environmental planning.

The spatio-temporal patterns of change indicate that the established tools and methods of conservation are no longer sufficient. Even in strict nature reserves atmospheric nitrogen deposition, altered hydrological processes and lack of management cause species losses. We live in a world that is getting warmer, poorer in biodiversity and dominated by a few competitive or opportunistic plants and animals. On the other hand, there are opportunities due to increasing public awareness of the emerging biodiversity crisis. Transformation of industrial land, green infrastructure in cities and production-integrated compensation measures are promising methods to support species diversity and ecosystem functions.

Many of these emerging opportunities benefit from expertise in restoration ecology. This has also been realised by many NGOs. The Bavarian Society for the Protection of Birds (LBV), one of the largest conservation organisation in this region, is successfully involved in numerous restoration ecology projects to improve habitat conditions and to support endangered species, for example in quarries and peatlands. The work of LBV is supported by 75.000 members, a team of about 220 staff, and by close contacts to political and industrial partners. Thus, as Chairman of LBV I warmly welcome the SER2016 conference in Freising. I am particularly happy about the ambitions of the organisers to bring practitioners and scientists in close contact. I wish all participants a stimulating and productive week in this part of Europe, and hope that the conference will contribute to more efficient conservation and restoration of our common environment.

A handwritten signature in black ink, appearing to read 'Norbert Schäffer'.

29 June 2016

Norbert Schäffer, LBV Chairman, Hilpoltstein

Dear conference delegates,



I am very happy to welcome such a large number of international delegates to the TUM Campus of Life Sciences Weihenstephan. As you will notice this is a modern campus set in a somewhat rural setting.

This “green campus” is almost symbolic of the research focus of our faculty “Health and Sustainability”. It is the second largest TUM faculty and encompasses all fields of life sciences, from molecular mechanisms to systemic interactions and including life science engineering processes. You will find leading experts on the molecular principles regarding plant or animal health, specific traits and responses to environmental stress, and factors controlling biodiversity. Others are investigating human health and the effects of diet, improving nutrition and food processing, and last but not least – devising recipes to further improve the quality of Bavarian beer.

Here we have about 80 professors working in diverse disciplines, and around 5000 students enrolled in a significant number of study directions. The TUM School of Life Sciences cooperates closely with the University of Applied Sciences Weihenstephan-Triesdorf, the Bavarian State Research Centre for Agriculture, and the Bavarian State Institute of Forestry. Our research addresses the greatest challenges of the 21<sup>st</sup> century: environmental balance, food security and human health in an era of population growth and global change. The study programmes supported by this research aim to educate the intellectual leaders who will help solving these issues in the coming decades. So I give my warmest welcome to the SER2016 conference on ecological restoration and wish the delegates a productive and enjoyable time on our campus.

A handwritten signature in cursive script, appearing to read 'A. Schnieke'.

27 June 2016

Angelika Schnieke, Dean of the School of Life Sciences Weihenstephan



# SESSION SCHEDULE

## MONDAY

	H14	H15	H16	S1	S3
08:00	<b>Registration (Foyer)</b>				
08:15					
08:30	<b>Opening ceremony (8:30-9:15; HS14)</b>				
08:45	<b>J. Kollmann, SERE President J. Cortina, SERI Executive Director B. Walder, LBV Chairman N. Schäffer, and Dean TUM School of Life Sciences A. Schnieke</b>				
09:00					
09:15	<b>Keynote: Rob Marrs (9:15-9:50; HS14) - Chair: M. Drösler</b>				
09:30	<b>"Managing soil fertility for ecological restoration"</b>				
09:45					
10:00	<b>Coffee break</b>				
10:15					
10:30	S5: Fire in ecosystem dynamics and restoration	S7: Forest and woodland restoration and conversion	S1: River restoration from theory to practice	S3: Restoration of peatlands for climate change mitigation and adaptation	S9: Monitoring restoration
10:45			Chairs: J. Pander, J. Geist	Chairs: M. Drösler, A. Freibauer	Chair: J. Kollmann
11:00	Chairs: O. Valkó, B. Tóthmérész	Chair: M. Weber			
11:15					
11:30					
11:45					
12:00					
12:15					
12:30	<b>Lunch break</b>				
12:45					
13:00	Campus Tour: TUM School of Life Sciences (C. Bräuchler)				
13:15					
13:30					
13:45	S6: Grazing as a best practice restoration tool	Forest and woodland restoration (cont.)	River restoration (cont.)	S4: Towards enhancing ecosystem resilience in fens	S10: Remote sensing in conservation monitoring
14:00	Chairs: S. Tischew, N. Hölzel, P. Török	S8: Restoring multifunctional ecosystems and landscapes		Chairs: K. Hassel, A. Klimkowska, W. Kotowski	Chairs: B. Deák, H. Heilmeier
14:15		Chairs: T. Knoke, A. Rammig			
14:30					
14:45					
15:00					
15:15					



	H14	H15	H16	S1	S3
15:30	<b>Coffee break</b>				
15:45					
16:00	<b>Keynote: A. Tolvanen (16:00-16:35; HS14) - Chair: K. Decler</b>				
16:15	<b>"New approaches to reconsolidate ecological restoration within the multiple land-use scheme"</b>				
16:30					
16:45	Grazing as a best practice restoration tool (cont.)	(cont.)	S2: Floodplain restoration in modified landscapes Chairs: B. Stammel, K. Kiehl (cont. on 23 <sup>rd</sup> )	Workshop: Ecological restoration for disaster risk reduction Chairs: G. Halldorsson, C. Nilsson	Workshop: Restoration principles in landscape architecture Chair: A. Kearsley
17:00					
17:15					
17:30					
17:45					
18:00					
18:15					
18:30	<b>Ice breaker and Poster session (Foyer)</b>				
18:45					
19:00					
19:15					
19:30					
19:45					
20:00					

# SESSION SCHEDULE

## TUESDAY

	H14	H15	H16	S1	S3
08:00	<b>Registration (Foyer)</b>				
08:15	<b>Keynote: K. Prach (8:15-8:50; HS14) - Chair: E. Buisson</b>				
08:30	<b>"Passive restoration: Why - or why not - let nature do the work instead of us"</b>				
08:45					
09:00	S11: Methoden und Fallbeispiele Renaturierung (Best practice, Germany) Chairs: K. Kiehl, S. Tischew	S12: An overview of ecological restoration in Europe Chair: J. Cortina	S15: Conservation importance of early successional stages in restoration of human-made sites Chairs: K. Rehouňková, R. Tropek	S13: Ecological restoration in urban areas Chairs: V. Klaus, R. Schröder	S18: Soil restoration using organic amendments Chairs: D. Page-Dumroese, V. Bruckman
09:15					
09:30					
09:45					
10:00	<b>Coffee break</b>				
10:15					
10:30	Methoden und Fallbeispiele Renaturierung (cont.)	An overview of ecological restoration in Europe (cont.)	(cont.)	(cont.)	Floodplain restoration in modified landscapes (cont.) Chair: B. Stammel
10:45					
11:00					
11:15					
11:30				S14: Green-blue infrastructure Chair: A. Syrakaya	
11:45				S16: Quarries: Win-win for biodiversity Chairs: D. Gosse, M. Séleck	
12:00					
12:15					
12:30	<b>Lunch break</b>				
12:45					
13:00					

	H14	H15	H16	S1	S3
13:15					Workshop: Herausforderung der Fließgewässerrenaturierung (German) Chair: W. Adelman
13:30					
13:45	Methoden und Fallbeispiele Renaturierung (cont.)	S17: Making restoration economically sustainable Chairs: T. Knoke, N. Hanley	(cont.)	S19: Restoring biodiversity on arable land Chair: H. Albrecht	
14:00					
14:15					
14:30					
14:45					
15:00					
15:15					
15:30	<b>Coffee break</b>				
15:45					
16:00	<b>Keynote: N. Hanley (16:00-16:35; HS14) - Chair: T. Knoke</b>				
16:15	<b>"Economic benefits and incentives for habitat restoration"</b>				
16:30					
16:45	Methoden und Fallbeispiele Renaturierung (cont.)	Workshop: Restoration in Europe – a bigger picture Chairs: K. Civic, I. Dickie, R. van Diggelen	Workshop: LBV (NGO) and extraction industry as partners Chairs: M. Sitkewitz, B. Raab, B. Barov	Workshop: Sand habitats and LIFE @SER2016 Chair: H. Rößling	Workshop: Ecological aesthetics in landscape (restoration) design? Chair: U. Weilacher
17:00					
17:15					
17:30	Establishing a German restoration network				
17:45					
18:00					
18:15					
18:30	<b>Poster session with guided tours (Foyer)</b>				
18:45	<b>Chairs: Tour A (B. Stammel), Tour B (Á. Aradóttir), Tour C (A. Tolvanen), Tour D (J. Mitchley),</b>				
19:00	<b>Tour E (H. Heilmeier), Tour F (A. Bucharova), Tour G (K. Prach) and Tour H (V. Klaus)</b>				
19:15					
19:30					
19:45					

# SESSION SCHEDULE

## THURSDAY

	H14	H15	H16	S1	S3
08:00					
08:15	<b>Keynote: B. Wilsey (8:15-8:50; HS14) - Chair: V. Temperton</b>				
08:30	<b>"Ecology of novel and native grassland ecosystems: Implications for restoration"</b>				
08:45					
09:00	S21: Large-scale grassland restoration in Europe: Practice and prospects Chair: J. Mitchley	S23: Unassisted restoration: Progress and pitfalls Chair: A. Fischer	Briefing Postconference student courses (H. Albrecht, P. Török, M. Derak, J. Cortina)	SERE: Outreach to future members and affiliates (J. Cortina)	Filling the SER Knowledge Database (K. Decler, A. Klimkowska)
09:15					
09:30					
09:45					
10:00	<b>Coffee break</b>				
10:15					
10:30	(cont.)	S24: Soil seed banks and seed dispersal: Promising sources for restoration Chairs: O. Valkó, P. Török	S25: Wise use of plants Chair: J. Kollmann	S27: Facilitating restoration Chairs: S. Kuusela, S. Kareksela	Filling the SER Knowledge Database
10:45					
11:00					
11:15					
11:30					
11:45					
12:00	S22: Tuning up grassland restoration Chair: J. Hermann				
12:15					
12:30	<b>Lunch break</b>				
12:45					
13:00					
13:15					
13:30					

	H14	H15	H16	S1	S3
13:45	(cont.)	(cont.)	S26: Dealing with invasives Chairs: J. Kollmann, J. Geist	Conference declaration prep: Europe 15% & Germany 15% Chairs: K. Decler, A. Cliquet	Filling the SER Knowledge Database
14:00					
14:15					
14:30					
14:45					
15:00					
15:15					
15:30	<b>Coffee break</b>				
15:45					
16:00	<b>Keynote: J. Memmott (16:00-16:35; HS14) - Chair: K. Kiehl</b>				
16:15	<b>"The restoration of ecological interaction"</b>				
16:30					
16:45	<b>SER Member Assembly (16:45-17:45)</b>	Foyer: 'Powerful posters' Guided tour (with M. Lejeune)		Mid-conference excursions: Commented slideshow	Commemorating SER2016 ! Action painting (with I. Kapps)
17:00					
17:15					
17:30					
17:45	<b>Closing ceremony (Conference stats, Poster awards, Upcoming events; HS14)</b>				
18:00	<b>J. Kollmann, SERE President J. Cortina, SER2018 Organisers</b>				
18:15					
18:30					
18:45					
19:00					
19:15					
19:30					
19:45					
20:00	<b>Conference dinner (Hofbrauhaus Keller, Freising)</b>				

# MID-CONFERENCE EXCURSIONS

All excursion buses depart on Wednesday, 24<sup>th</sup> July, 8:30 at the parking lot next to the campus library. Exception: The „Urban GI“ excursion (E10) uses public transport and meets at Freising train station at 8:15 (departure of train 8:34, platform 3).

Program details and changes, and weather forecasts, will be announced on the blackboard at the registration desk. Please choose appropriate clothes and footwear – hiking boots are mandatory for the alpine forest excursion, walking sticks helpful. Depending on weather conditions sun- and/or rain-protection is recommended. For the wetland excursions insect repellent might be appropriate. Transport costs, lunch packs and drinks are included in the excursion fee.

## 1 Alpine forest management

Excursion guide: M. Weber

High montane and subalpine forest stands near Lake Schliersee with diverse restoration activities in protective forests.

## 3 Floodplain forest reconstruction

Excursion guides: B. Cyffka & B. Stammel

Extensive floodplain reconstruction along River Danube between Neuburg and Ingolstadt. Establishment of new water courses with controlled flooding of hard- and softwood forests, and increased sediment dynamics.

## 4 Riverbank revitalisation

Excursion guide: J. Kollmann

Revitalisation of riparian habitats along River Isar by the power company VERBUND south and north of the historical town Wasserburg. Boat trip to remote sites with pioneer vegetation and increased lateral connectivity of the river.

## 5 Bog regeneration

Excursion guide: M. Drösler

Tour to two prealpine bogs south of Munich where the effects of raising water tables on vegetation and carbon balance has been studied for many years.

## 6 Ecology and conservation of pre-alpine lakes

Excursion guides: J. Geist and staff of TUM Limnological Station

Visiting the freshwater research station of the School of Life Science Weihenstephan in the village Iffeldorf south of Munich. Demonstration of lakes in different trophic status and of measures to improve their ecological status.

## 7 Quarry rehabilitation

Excursion guide: M. Rademacher

Demonstration of various projects to improve biodiversity in quarries in the towns of Burglengenfeld and Regensburg. The sites participated in the Quarry Life Award of the company HeidelbergCement.

## 8 Calcareous grassland restoration

Excursion guides: K. Kiehl & H. Albrecht

Re-establishment of a network of remnant and restored calcareous grasslands north of Munich; visiting of a farm specialised in production of regional seed of native plants.

### 9 Supporting agrobiodiversity by organic farming

Excursion guide: K. Wiesinger

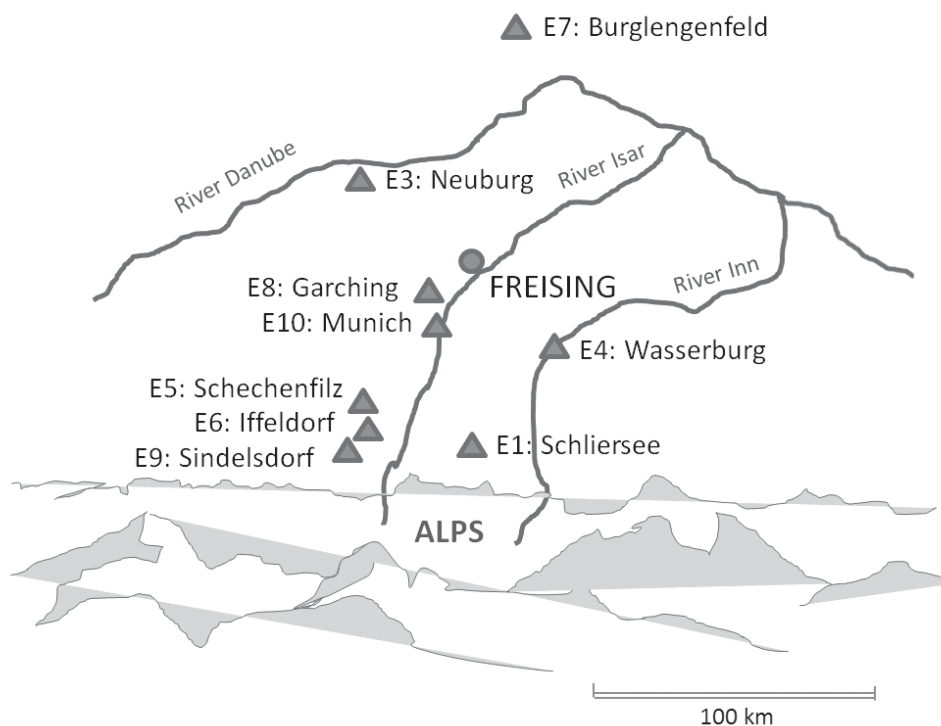
Organic farming as a method to revitalise degraded agricultural landscapes, including production of biofuel from hedgerows, increasing carbon stock in soils, and maintenance of diverse grasslands by grazing and mowing.

### 10 Urban green infrastructure

Excursion guide: S. Pauleit & C. Bräuchler

Demonstration of revitalisation measures in the city of Munich, including a 'wasteland park' and a major project along River Isar with a combination of flood protection, public recreation and nature conservation.

## SER2016 Excursion sites



# SPEAKER SCHEDULE

## MONDAY

	H14	H15	H16	S1	S3
08:00	<b>Registration (Foyer)</b>				
08:15					
08:30	<b>Opening ceremony (8:30-9:15; HS14)</b>				
08:45	<b>J. Kollmann, SERE President J. Cortina, SERI Executive Director B. Walder, LBV Chairman N. Schäffer, and Dean TUM School of Life Sciences A. Schnieke</b>				
09:00					
09:15	<b>Keynote: Rob Marris (9:15-9:50; HS14) - Chair: M. Drösler</b>				
09:30	<b>"Managing soil fertility for ecological restoration"</b>				
09:45					
10:00	<b>Coffee break</b>				
10:15					
10:30	01: Goldammer	01: Pütz	01: Geist	01: Minkkinen	01: Strobl
10:45	02: Marrs	02: Raulund-Rasmussen	02: Nilsson	02: Schlaipfer	02: Goldstein
11:00	03: Engstrom	03: Morsing	03: Basic	03: Adhikari	03: Rydgren
11:15	04: Valkó	04: Martelletti	04: Khanchoul	04: Petersen	04: Boisson
11:30	05: Milberg	Discussion	05: Scheder	05: Gaffney	05: Isselin-Nondedeu
11:45	06: Maringer	05: Svavarsdóttir	06: Sandin	06: Minayeva	06: Harzer
12:00	07: Adámek	06: Aradottir	07: Hanfland	07: Sirin	07: Harzé
12:15	Discussion	07: Agustsdottir	08: Pilotto	Discussion	Discussion
12:30	<b>Lunch break</b>				
12:45					
13:00	<b>Campus Tour: TUM School of Life Sciences (C. Bräuchler)</b>				
13:15					
13:30					



	H14	H15	H16	S1	S3					
13:45	Session 6	S7 cont.	Session 1 cont.	Session 4	Session 10					
14:00						Introduction	08: Santana	09: Koop	01: Kozub	Introduction
14:15						01: Rupprecht	09: Lampela	010: Henschel	02: Michaelis	01: Heilmeyer
14:30		02: Henning				Discussion	011: Coghlan	03: Klimkowska	02: Moeslund	
14:45		03: Köhler				Introduction	012: Loy	04: Grygoruk	03: Deák	
15:00		04: Moinardeau				01: Schulz	013: Riss	05: Øien	04: Spitoni	
15:15	05: Gilhaus	Session 8	014: Eberstaller	06: Ross	05: Qian					
15:30	Coffee break									
15:45										
16:00	<b>Keynote: A. Tolvanen (16:00-16:35; HS14) - Chair. K. Decler</b>									
16:15	<b>"New approaches to reconsolidate ecological restoration within the multiple land-use scheme"</b>									
16:30										
16:45	Session 6 cont.	Session 8	Session 2 cont. Tuesday	Workshop: Ecological restoration for disaster risk reduction Chairs: G. Halldorsson, C. Nilsson	Workshop: Restoration principles in landscape architecture Chair: A. Kearsley					
17:00						06: Blaschka	04: Brinkert	Introduction		
17:15						Discussion	05: Kellner	01: Hein		
17:30						07: Török	06: Temperton	02: Scholz		
17:45						08: Bucher	07: Marcus	03: Januschke		
18:00						09: Rosenthal	Discussion	04: Bejarano		
18:15	Discussion		05: Rodríguez-González							
18:30	Ice breaker and Poster session (Foyer)									
18:45										
19:00										
19:15										
19:30										
19:45										
20:00										
				SERE: Outreach to future members and affiliates (J. Cortina)						

# SPEAKER SCHEDULE

## TUESDAY

	H14	H15	H16	S1	S3					
08:00	<b>Registration (Foyer)</b>									
08:15	<b>Keynote: K. Prach (8:15-8:50; HS14) - Chair: E. Buisson</b>									
08:30	<b>"Passive restoration: Why – or why not – let nature do the work instead of us"</b>									
08:45										
09:00	Session 11	Session 12	Session 15	Session 13	Session 8					
09:15						O1 (Plenarvortrag): Finck	O1: Zaunberger	Introduction	O1: Klaus	O1: Ning
09:30						Diskussion	O2: Prach	O1: Řehounková	O2: Fischer	O2: Bruckman
09:45						O2: Baasch	O3: Decler	O2: Tropek	O3: Holm	O3: Doula
			O3: Alday	O4: Jermaczek-Sitak	O4: Page-Dumroese					
10:00	<b>Coffee break</b>									
10:15										
10:30	Session 11	Session 12 (cont.)	Session 15 (cont.)	Session 13 (cont.)	Session 2 (cont.)					
10:45						O3: Harnisch	O5: Török	O4: Bulot	O5: Planchuelo	O6: Kügel
11:00						O4: Siuda	O6: Aradottir	O5: Deák	O6: Schröder	O7: Cyffka
11:15			O5: Walter	O7: Schirone		O6: Braidwood	O7: Ansel	O8: Pander		
11:30			O6: Drews	O8: Nunes		O7: Moroň	Discussion	O9: Schwab		
11:45			Diskussion	O9: Cortina		Discussion	O1: Sirakaya	O10: Gruppe		
12:00			O7: Albrecht	O10: Prades/Cruz		Session 16	O2: Isehara	Discussion		
12:15			O8: Schertler	O11: Sliva		O1: Dutoit	O3: Otsuka			
12:30			O9: Kirmer	Discussion		O2: Silva	O4: Rasmussen			
12:45	<b>Lunch break</b>									
13:00										

	H14	H15	H16	S1	S3	
13:15						
13:30						
13:45	Session 11	O10: Krimmer	Introduction	O4: Chenot	Session 19	
14:00		O11: Lütt		O1: Sietz		O5: Sebelikova
14:15		O12: Grätz	O2: Paul	O6: Tichanek		
14:30		Diskussion	O3: Kuusela	O7: Duncan		
14:45		O13: Schwab	O4: Kareksela	O8: Séleck		
15:00		O14: Schaumberger	Discussion	O9: Gosse & Barov		O6: Gayer
15:15		O15: Krautzer		Discussion		Discussion
15:30		<b>Coffee break</b>				
15:45						
16:00	<b>Keynote: N. Hanley (16:00-16:35; HS14) - Chair: T. Knoke</b>					
16:15	<b>"Economic benefits and incentives for habitat restoration"</b>					
16:30						
16:45	Session 11	O16: Blachnik	Workshop: Restoration in Europe – a bigger picture Chairs: K. Civic, I. Dickie, R. van Diggelen	Workshop: LBV (NGO) and extraction industry as partners Chairs: M. Sitkewitz, B. Raab, B. Barov	Workshop: Sand habitats and LIFE @SER2016 Chair: H. Rößling	
17:00		O17: Graiss				
17:15		Diskussion				
17:30		Zusammenfassung				
17:45		Aufbau Netzwerk				
18:00		Renaturierung Deutschland (S. Tischew, K. Kiehl)				
18:15						
18:30	<b>Poster session with guided tours (Foyer)</b>					
18:45	<b>Chairs: Tour A (B. Stammel), Tour B (Á. Aradóttir), Tour C (A. Tolvanen), Tour D (J. Mitchley), Tour E (H. Heilmeier), Tour F (A. Bucharova), Tour G (K. Prach) and Tour H (V. Klaus)</b>					
19:00						
19:15						
19:30						
19:45						

# SESSION SCHEDULE

## THURSDAY

	H14	H15	H16	S1	S3				
08:00									
08:15	<b>Keynote: B. Wilsey (8:15-8:50; HS14) - Chair: V. Temperton</b>								
08:30	<b>"Ecology of novel and native grassland ecosystems: Implications for restoration"</b>								
08:45									
09:00	Session 21	01: Helm	Session 23	01: Nikolic	Briefing Postconference student courses (H. Albrecht, P. Török, M. Derak, J. Cortina)	SERE: Outreach to future members and affiliates (J. Cortina)	Filling the SER Knowledge Database		
09:15		02: Jaunatre		02: Ilomets					
09:30		03: Alignan		03: Moradi					
09:45		04: Tóthmérész		Discussion					
10:00	<b>Coffee break</b>								
10:15									
10:30	Session 21 (cont.)	05: Szepesváry	Session 24	Introduction	Session 25	01: Navarro-Cano	Session 27	01: Swart	Filling the SER Knowledge Database
10:45		06: Kirmer		01: Klimkowska		02: Ensslin		02: Douwes	
11:00		07: Jongepierová		02: Helm		03: Bräuchler		03: Paloniemi	
11:15		08: Malanikova		03: Castro		04: Vidaller		Discussion	
11:30		09: Mitchley		04: Eichberg		05: Aavik		05: Cortina	
11:45		Discussion		05: Godefroid		06: Bucharova		06: Zhang	
12:00		S 22		01: Esko		06: Buisson		07: Abbandonato	
12:15	02: Schelfhout		Discussion	Discussion	Discussion				
12:30	<b>Lunch break</b>								
12:45									
13:00									
13:15									
13:30									

	H14	H15	H16	S1	S3			
13:45	Session 22	Session 24 (cont.)	Session 26		Conference declaration prep: Europe 15% & Germany 15%	Filling the SER Knowledge Database		
				O3: Velbert			O7: Melnik	Introduction
14:00				O4: Kelemen			O8: Singarayer	O1: Wagner
14:15				O5: Raman			O9: Metsoja	O2: Tesitel
14:30				O6: Bischoff			O10: Auestad	O3: Nsikani
14:45				O7: Weidlich			O11: Wagner	O4: Pyke
15:00				Discussion			O12: Török	O5: Svavarsdóttir
15:15		Discussion	Discussion					
15:30	<b>Coffee break</b>							
15:45								
16:00	<b>Keynote: J. Memmott (16:00-16:35; HS14) - Chair: K. Kiehl</b>							
16:15	<b>"The restoration of ecological interaction"</b>							
16:30								
16:45	<b>SER Member Assembly (16:45-17:45)</b>	Foyer: 'Powerful posters' Guided tour (with M. Lejeune)		Mid-conference excursions: Commented slideshow	Commemorating SER2016! Action painting (with I. Kapps)			
17:00								
17:15								
17:30								
17:45	<b>Closing ceremony (Conference stats, Poster awards, Upcoming events; HS14)</b>							
18:00	<b>J. Kollmann, SERE President J. Cortina, SER2018 Organisers</b>							
18:15								
18:30								
18:45								
19:00								
19:15								
19:30								
19:45								
20:00	<b>Conference dinner (Hofbrauhaus Keller, Freising)</b>							

# SESSIONPLAN

## MONDAY

MONDAY, AUGUST 22, MORNING: LECTURE HALL 14

**09:15 9\* KEYNOTE: Managing soil fertility for ecological restoration**

*Rob Marrs*

**SESSION 5: FIRE IN ECOSYSTEM DYNAMICS AND RESTORATION**

- 10:30 69 Use of prescribed fire in nature conservation, landscape management and forestry – experiences and perspectives for Germany  
*Johann Georg Goldammer, Egbert Brunn*
- 10:45 70 To burn or not – a perspective on British moorlands  
*Rob Marrs*
- 11:00 71 Restoring a grass-dominated ecosystem for a salamander, a lily, and a woodpecker: a case study of fire in the Apalachicola National Forest  
*Todd Engstrom*
- 11:15 72 Supporting biodiversity by prescribed burning in dry grasslands - a multi-taxa approach  
*Orsolya Valkó, Balázs Deák, Tibor Magura, Péter Török, András Kelemen, Katalin Tóth, Roland Horváth, Dávid Nagy, Zsuzsanna Debnár, György Zsigrai, István Kapocsi, Béla Tóthmérész*
- 11:30 73 Forest fires and the regional distribution of beetles favoured by fire  
*Per Milberg, Karl-Olof Bergman, Nicklas Jansson, Henrik Norman, Fia Sundin, Lars Westerberg*
- 11:45 74 Spotlight on beech (*Fagus sylvatica* L.) fire ecology  
*Janet Maringer, Davide Ascoli, Giorgio Vacchiano, Thomas Wohlgemuth, Marco Conedera*
- 12:00 75 Ecological role of fire in the Central European *Pinus sylvestris* forests  
*Martin Adámek*
- 12:15 Discussion

MONDAY, AUGUST 22, MORNING: LECTURE HALL 15

**SESSION 7: FOREST AND WOODLAND RESTORATION AND CONVERSION [CONTINUES IN AFTERNOON]**

- 10:30 91 Restoration of a small catchment in the Eifel National Park  
*Thomas Pütz, Heye Bogena, Michael Röö, Alexander Graf, Wolfgang Tappe, Roland Bol, Andreas Lücke, Clemens Druee, Frank Lehmkuhl, Harry Vereecken*
- 10:45 92 Forest restoration for increased ecological resilience against windthrows  
*Karsten Raulund-Rasmussen, Anders Taerøe, Johannes H. C. de Koning, J. Bo Larsen*
- 11:00 93 How to accelerate the recovery of stream-near vegetation after intensive forest management cessation?  
*Jonas Morsing, Alexia Lopez Rodriguez, Karsten Raulund-Rasmussen*

\* Pages „Book of Abstracts SER2016“

- 11:15 94 Adaptive forest restoration in road construction areas: dealing with seed predation and promoting facilitation  
*Sara Martelletti, Fabio Meloni, Emanuele Lingua, Raffaella Marzano, Renzo Motta, Michele Freppaz, Valter Re, Antonio Nosenzo, Kristín Svavarsdóttir, Asa L. Aradottir*
- 11:30 Discussion
- 11:45 95 Ecological restoration on eroded land beyond biotic and abiotic thresholds: an experimental case study  
*Kristín Svavarsdóttir, Asa L. Aradottir*
- 12:00 96 Colonization of woodland species during restoration – safe site or propagule limitation?  
*Asa L. Aradottir*
- 12:15 97 Ermond-Grógos: Experimental setup estimating the effect of volcanic ash deposition on restored birch woodland vegetation, Hekluškógar, Iceland  
*Anna Maria Agustsdóttir, Anne Bau, Guðmundur Halldórsson, Ása L. Aradóttir*

*MONDAY, AUGUST 22, MORNING: LECTURE HALL 16*

**SESSION 1: RIVER RESTORATION FROM THEORY TO PRACTICE [CONTINUES IN AFTERNOON]**

- 10:30 17 Towards an evidence-based aquatic restoration approach  
*Jürgen Geist*
- 10:45 18 Additional restoration of restored streams: do biota care?  
*Christer Nilsson, Judith Sarneel, Daniel Palm, Johanna Gardeström, Francesca Pilotto, Lina Polvi, Lovisa Lind, Daniel Holmqvist, Hans Lundqvist*
- 11:00 19 Impacts of gravel jetting on spawning substrates of lithophilic fish species  
*Tea Basic, Andrew Pledger, Robert Britton*
- 11:15 20 Estimation of suspended sediment transport in the Kebir drainage basin, Algeria  
*Kamel Khanchoul, Amina Amamra*
- 11:30 21 The importance of leitbild-specific measures for the success of river restoration projects using the examples of three Upper Austrian watercourses  
*Christian Scheder, Ulrike Bart, Klaus Berg, Daniela Csar, Michael Schauer, Clemens Gumpinger*
- 11:45 22 Theoretical and measured effects of hydrological restoration on river biota in relation to hydropower production  
*Leonard Sandin, Peter Carlson, Joel Segersten, Erik Degerman*
- 12:00 23 Restoration of fish habitat adapted to local opportunities – examples from two case studies  
*Sebastian Hanfland, Albert Göttle, Bernhard Lagerbauer, Johannes Schnell*
- 12:15 24 Responses of benthic macroinvertebrates to stream restoration after timber floating  
*Francesca Pilotto, Lina E. Polvi, Christer Nilsson*

*MONDAY, AUGUST 22, MORNING: SEMINAR ROOM 1***SESSION 3: RESTORATION OF PEATLANDS FOR CLIMATE CHANGE MITIGATION AND ADAPTATION**

- 10:30 53 Greenhouse gas balances in low-productive drained boreal peatlands – Is climate-friendly management possible?  
*Kari Minkkinen, Paavo Ojanen, Tiina Heikkinen, Tuomas Haapalehto, Anne Tolvanen, Timo Penttilä*
- 10:45 54 Short rotation forestry on drained and rewetted peatland – Options for climate Change mitigation  
*Martina Schlaipfer, Alicia Fuertes Sánchez, Matthias Drösler*
- 11:00 55 Space for time-GHG balance as indicator for restoration success of a pre-alpine bog  
*Shomnath Adhikari, Matthias Drösler*
- 11:15 56 Nitrous oxide reduction mediates against emissions from arable organic soil  
*Søren O. Petersen, Arezoo Taghizadeh-Toosi, Lars Elsgaard, Vibeke Ernstsén, Tim Clough*
- 11:30 57 Aquatic carbon export and water quality in relation to forest to bog restoration management  
*Paul Gaffney, Mark Taggart, Mark Hancock, Ruth Robinson, Roxane Andersen*
- 11:45 58 The first outcomes of experiments on peatland restoration for climate change mitigation and adaptation in steppe and arctic regions of Russia  
*Tatiana Minayeva, Andrey Sirin, Gennady Suvorov, Danil Ilyasov*
- 12:00 59 The experience of large scale peatland rewetting project in Russia for climate change mitigation  
*Andrey Sirin, Tatiana Minayeva, Hans Joosten, Gennady Suvorov, Dmitry Makarov, John Couwenberg, Arina Schrier, Aleksandr Maslov, Maria Medvedeva, Anna Vozbrannaya, Anastasiya Markina*
- 12:15 Discussion

*MONDAY, AUGUST 22, MORNING: SEMINAR ROOM 3 (BASEMENT)***SESSION 9: MONITORING RESTORATION**

- 10:30 117 Can early monitoring inform about the success of peatland restoration?  
*Katharina Strobl, Johannes Kollmann*
- 10:45 118 Some issues of statistical uncertainties in assessing outcomes of restoration  
*Tomasz Wyszomirski, Klara Goldstein, Łukasz Kozub, Agata Klimkowska, Wiktor Kotowski*
- 11:00 119 Restoring ecosystems: Predicting the future with help from successional rates  
*Knut Rydgren, Inger Auestad, Rune Halvorsen, Liv Norunn Hamre, Jan Sulavik*
- 11:15 120 Is the observer effect significant in vegetation assessment of restored metalicolous grassland?  
*Sylvain Boisson, Grégory Mahy*
- 11:30 121 Multi-level monitoring after the restoration of a network of forest ponds and vernal pools  
*Francis Isselin-Nondedeu, Pauline Hervé, Renaud Jaunatre, Boris Vary, Elodie Pineau*



- 11:45 122 Plant population viability analysis of a floodplain specialist – Implications for restoration of alpine rivers?  
*Romy Harzer, Johannes Kollmann*
- 12:00 123 A population approach to evaluate grasslands restoration – A systematic review  
*Mélanie Harzé, Arnaud Monty, Sylvain Boisson, Carline Pitz, Julia-Maria Hermann, Johannes Kollmann, Grégory Mahy*
- 12:15 Discussion

*MONDAY, AUGUST 22, AFTERNOON I: LECTURE HALL 14*

**SESSION 6: GRAZING AS A BEST PRACTICE RESTORATION TOOL**

**[CONTINUES AFTER COFFEE BREAK]**

- 13:45 Introduction
- 14:00 79 Effects of year-round grazing on the vegetation of nutrient-poor grass- and heathlands – evidence from a large-scale survey  
*Denise Rupprecht, Kristin Gilhaus, Norbert Hölzel*
- 14:15 80 Restoring and managing large scale sandy grassland-heathland ecosystems: Combining large herbivore grazing with shrub cutting and heather mowing  
*Katrin Henning, Antje Lorenz, René Seifert, Sabine Tischew*
- 14:30 81 Year-round horse grazing supports typical vascular plant species, orchids and rare bird communities in a dry calcareous grassland  
*Martina Köhler, Georg Hiller, Sabine Tischew*
- 14:45 Discussion
- 15:00 82 Using Konik Polski horses to restore embankment plant communities in the Rhone Valley (Southern France)  
*Cannelle Moinardeau, François Mesléard, Thierry Dutoit*
- 15:15 83 Seasonal variations of fodder quality and availability as constraints for stocking rates in year-round grazing schemes  
*Kristin Gilhaus, Norbert Hölzel*

*MONDAY, AUGUST 22, AFTERNOON I: LECTURE HALL 15*

**SESSION 7: FOREST AND WOODLAND RESTORATION AND CONVERSION [CONT.]**

- 13:45 98 Disruption of landscape fire traps in Mediterranean Basin ecosystems by the combination of shrub clearing and plantations  
*Victor M. Santana, M. Jaime Baeza, Alejandro Valdecantos, V. Ramón Vallejo*
- 14:00 99 Reforestation trials on degraded tropical peatlands  
*Maija Lampela, Jyrki Jauhainen, Harri Vasander*
- 14:15 Discussion

*MONDAY, AUGUST 22, AFTERNOON I: LECTURE HALL 15***SESSION 8: RESTORING MULTIFUNCTIONAL ECOSYSTEMS AND LANDSCAPES****[CONTINUES AFTER COFFEE BREAK]**

- 14:30 Introduction
- 14:45 103 Planning forest landscape restoration in Central Chile based on recent historical forest pattern and multiple functions  
*Jennifer Schulz, Boris Schröder*
- 15:00 104 Improving multi-objective ecological flow management with flexible priorities and turn-taking: a case study from California  
*Frank Poulsen*
- 15:15 105 Enhancing the resilience of water resources through land restoration in Rangárvellir, Iceland – an overview of the HydroResilience project  
*David Finger, Þórunn Pétursdóttir, Guðmundur Halldórsson*

*MONDAY, AUGUST 22, AFTERNOON I: LECTURE HALL 16***SESSION 1: RIVER RESTORATION FROM THEORY TO PRACTICE [CONT.]**

- 13:45 25 Requirements for restoration measures in large rivers to promote aquatic organisms successfully  
*Jochen Koop*
- 14:00 26 River restoration: From “Just do it” to statewide concepts and practical implementation in Bavaria  
*Thomas Henschel, Wolfgang Kraier, Kai Deutschmann*
- 14:15 27 Applying the Water Framework Directive lens to enhancement strategies in Irish river fisheries  
*Brian Coghlan, Nathy Gilligan, Karen Delanty, Rossa Ó Briain, James King*
- 14:30 28 Large-scale habitat restoration: Approach, implementation and intentions at River Inn, Germany  
*Georg Loy*
- 14:45 29 Establishing a “Good Ecological Potential” of the Münster Aa, a hard-sealed urban channel – a technical design of hydraulic and ecological niches  
*H. Wolfgang Riss, Simon Dorner, Elisabeth I. Meyer, Rainer Mohn*
- 15:00 30 LIFE+ Project “Living space in the estuary stretch of River Traisen”  
*Jürgen Eberstaller, Roland Schmalfuß, Thomas Kaufmann, Helmut Wimmer, Doris Eberstaller-Fleischanderl, Hannes Gabriel, Mathias Jungwirth*
- 15:15 31 What do we know about river restoration effects? Placing the results of the EU-FP<sub>7</sub> REFORM project in the broader context of restoration literature  
*Jochem Kail, Frauke Ecke, Emma Göthe, Kathrin Januschke, Benjamin Kupilas, Susanne Muhar, Michaela Poppe, Stefan Schmutz, Ralf Verdonshot, Daniel Hering*

*MONDAY, AUGUST 22, AFTERNOON I: SEMINAR ROOM 1*

**SESSION 4: TOWARDS ENHANCING ECOSYSTEM RESILIENCE IN FENS**

- 13:45 61 What is resilience in mires and how can we improve it in restoration projects?  
*Wiktor Kotowski, Łukasz Kozub, Marina Abramchuk, Klara Goldstein, Tomasz Wyszomirski*
- 14:00 62 Palaeoecological references for restoring resilient fens  
*Ewa Jabłońska, Dierk Michaelis, Klara Goldstein, Wiktor Kotowski*
- 14:15 63 Are we restoring resilient fens? – An overview of the results of fen restoration projects by rewetting and topsoil removal  
*Agata Klimkowska, Klara Goldstein, Wiktor Kotowski, Tomasz Wyszomirski, Mateusz Wilk, Marina Abramchuk, Mateusz Grygoruk*
- 14:30 64 Where to restore resilient fens? Study on groundwater recharge in the European perspective  
*Mateusz Grygoruk, Wiktor Kotowski*
- 14:45 65 Species composition in boreal rich fens – The role of nutrient limitation and management  
*Dag-Inge Øien, Bård Pedersen, Asbjørn Moen*
- 15:00 66 Patterns and determinants of long-term change in boreal fen vegetation  
*Louise C. Ross, James D.M. Speed, Dag-Inge Øien, Kristian Hassel, Anders Lyngstad, Mateusz Grygoruk, Klara Goldstein, Asbjørn Moen*
- 15:15 67 Impact of large tracked mowers on vegetation structure and functional plant diversity of fens in the Biebrza National Park  
*Marina Abramchuk, Tomasz Wyszomirski, Ewa Jabłońska, Łukasz Kozub, Wiktor Kotowski*

*MONDAY, AUGUST 22, AFTERNOON I: SEMINAR ROOM 3 (DOWNSTAIRS)*

**SESSION 10: REMOTE SENSING IN CONSERVATION MONITORING**

- 13:45 129 Habitat quality and conservation status – what remote sensing can tell us about  
*András Zlinszky, Balázs Deák, Adam Kania, Anke Schroiff, László Bekő, Norbert Pfeifer, Hermann Heilmeier*
- 14:00 130 Using LiDAR to gain knowledge of vegetation-microtopography relationships of potential value for conservation and restoration  
*Jesper Erenskjold Moeslund, Peder Klith Bøcher, Tommy Dalgaard, Lars Arge, Rasmus Ejrnæs, Bettina Nygaard, Mette Vestergaard Odgaard, Jens-Christian Svenning*
- 14:15 131 Application of airborne hyperspectral images in vegetation mapping of complex open habitats  
*Balázs Deák, Orsolya Valkó, Tomor Tamás, Burai Péter*
- 14:30 132 Assessment of dam impact on longitudinal sequences of in-stream habitats  
*Marie Spitoni, Hervé Piégay, Lise Vaudor*
- 14:45 133 The visual environmental impact assessment of the restoration of the damaged landscape structure of the Garraf landfill site near Barcelona  
*Liyuan Qian, Ning Li, Enric Batlle Durany, Alejandra Liébana Leirós*
- 15:00 Discussion

MONDAY, AUGUST 22, AFTERNOON II: LECTURE HALL 14

**16:00 14 KEYNOTE: New approaches to reconsolidate ecological restoration within the multiple land use scheme**

*Anne Tolvanen*

**SESSION 6: GRAZING AS A BEST PRACTICE RESTORATION TOOL [CONT.]**

- 16:45 84 Planning and evaluation of restorational grazing projects: Pasture suitability and animal movements  
*Albin Blaschka, Thomas Guggenberger, Ferdinand Ringdorfer, Reinhard Huber, Petra Haslgrübler*
- 17:00 Discussion
- 17:15 85 Is the livestock type more crucial than grazing intensity? Cattle and sheep grazing in short-grass steppes  
*Péter Török, Orsolya Valkó, Balázs Deák, András Kelemen, Edina Tóth, Béla Tóthmérés*
- 17:30 86 Biodiversity in low-intensity pastures, straw meadows, and fallows of a fen area – a multitrophic comparison  
*Roman Bucher, Christian Andres, Martin F. Wedel, Martin H. Entling, Herbert Nickel*
- 17:45 87 Low-intensity grazing as a tool for maintaining and restoring biodiversity in temperate Europe  
*Gert Rosenthal*
- 18:00 Discussion

MONDAY, AUGUST 22, AFTERNOON II: LECTURE HALL 15

**SESSION 8: RESTORING MULTIFUNCTIONAL ECOSYSTEMS AND LANDSCAPES [CONT.]**

- 16:45 106 Hydrological resilience and carbon stocks in wet broadleaved forests in north-western Germany  
*Annika Brinkert, Kristina Behlert, Dirk Bieker, Michael Elmer, Katharina Greiving, Norbert Hölzel, Britta Linnemann, Christopher Reith*
- 17:00 107 Restoration of degraded arid- and semi-arid Savannas in South Africa  
*Klaus Kellner, C.J. Harmse, J.H. Fouche, J.J. Pelsler*
- 17:15 108 Exploring the potential role of priority effects for ecological restoration  
*Vicky Temperton, Cara Nelson, Emanuela Weidlich*
- 17:30 109 Restoration of Totorá Reed Beds (*Schoenoplectus californicus*) in Huanchaco, Peru: linking fishermen and tourism  
*Julie Marcus, Mickey Marcus*
- 17:45 Discussion

MONDAY, AUGUST 22, AFTERNOON II: LECTURE HALL 16

**SESSION 2: FLOODPLAIN RESTORATION IN MODIFIED LANDSCAPES [CONTINUES TUESDAY, AUGUST 23]**

- 16:45 Introduction
- 17:00 37 Potential effects of restoration measures on ecosystem properties in an urban floodplain  
*Thomas Hein, Gabriele Weigelhofer, Andrea Funk, Eva Pözl, Stefan Preiner, Walter Reckendorfer, Daniel Trauner*
- 17:15 38 Dike re-location along the River Elbe: Effects on vegetation, molluscs and invertebrates  
*Mathias Scholz, Andrea Rumm, Franziska Löffler, Christiane Schulz-Zunkel, Holger Rupp, Christine Fischer, Michael Gerisch, Peter Horchler, Francis Foeckler, Timo Hartmann, Christiane Ilg, Claudia Schmidt, Frank Dziock*
- 17:30 39 Effects of river restoration on riparian ground beetles (Coleoptera: Carabidae) in Europe  
*Kathrin Januschke, Ralf Verdonschot*
- 17:45 40 Restoring riparian vegetation along rivers used for hydropower production  
*Maria Dolores Bejarano, Emelie Fredriksson, Roland Jansson, Christer Nilsson*
- 18:00 41 Combining field studies with vegetation modelling to guide future floodplain woods recovery in altered river basins of Southern Europe  
*Patricia María Rodríguez-González, Rui Rivaes, Filipe Campelo, Inês Marques, António Albuquerque, Gregory Egger, António Pinheiro, Maria Teresa Ferreira*
- 18:15 Discussion

MONDAY, AUGUST 22, AFTERNOON II: SEMINAR ROOM 1

**Workshop: Ecological restoration for disaster risk reduction**

- 16:45 The Nordic network ERMOND aims at assessing how ecological restoration actions can be used to reduce the risk from natural hazards in the Nordic region (see: <http://ermond.land.is/>). In the proposed workshop we will review experience from existing projects on combating disasters with restoration of ecological resilience.  
*Gudmundur Halldorsson, Christer Nilsson*

MONDAY, AUGUST 22, AFTERNOON II: SEMINAR ROOM 3 (BASEMENT)

**WORKSHOP: RESTORATION PRINCIPLES IN LANDSCAPE ARCHITECTURE**

- 16:45 Landscape architecture integrates landscape form, spatial structure and client goals with the dynamics of a project site's natural systems, as illustrated by the example of two current U.S. projects. Some key points of discussion: What is the impact of proposed development on the existing site conditions through the lens of ecological restoration? How can the science and techniques of ecological restoration be used to inform client goals and frame landscape design decisions?  
*Ann Kearsley*

# SESSIONPLAN

## TUESDAY

TUESDAY, AUGUST 23, MORNING I: LECTURE HALL 14

**08:15 10 KEYNOTE: Passive restoration – allow nature to do the work instead of us**

*Karel Prach*

**SESSION 11: BEST PRACTICE – METHODEN UND FALLBEISPIELE RENATURIERUNG**

**[ALL DAY; TRANSLATED FROM GERMAN]**

09:00 137 Die Umsetzung des 15 % Ziels der EU zur Renaturierung degradierter Ökosysteme in Deutschland – eine Situationsanalyse aus Sicht des Bundes  
Implementing the 15%-restoration target in Germany – a government perspective  
*Peter Finck*

09:30 Discussion

09:45 138 Renaturierung von Auengrünland im Biosphärenreservat Mittelelbe  
Restoration of floodplain meadows in the “Mittelelbe“ Biosphere Reserve, Saxony-Anhalt, Germany  
*Annett Baasch, Karen Runge, Carola Schuboth, Georg Rast*

TUESDAY, AUGUST 23, MORNING I: LECTURE HALL 15

**SESSION 12: AN OVERVIEW OF ECOLOGICAL RESTORATION IN EUROPE**

**[CONTINUES AFTER COFFEE BREAK]**

09:00 155 Restoration policy developments on EU and international levels  
*Karin Zaunberger*

09:15 156 Ecological restoration in the Czech Republic  
*Karel Prach, Klára Řehounková, Ivana Jongepierová*

09:30 157 The status of ecological restoration in Flanders (Belgium)  
*Kris Decler*

09:45 158 REVER, the French restoration network  
*Renaud Jaunatre, Sébastien Gallet, Baptiste Regnery, Jean-François Alignan, Ivan Bernez, Isabelle Combroux, Thibaut Glasser, Alma Heckenroth, Simon Jund, Samuel Lelièvre, Sandra Malaval, Stéphanie Moussard, Isabelle Muller, Marie-Pierre Vécrin-Stablo, Elise Buisson*

*TUESDAY, AUGUST 23, MORNING I: LECTURE HALL 16*

**SESSION 15: CONSERVATION IMPORTANCE OF EARLY SUCCESSIONAL STAGES IN RESTORATION OF HUMAN-MADE SITES [CONTINUES AFTER COFFEE BREAK]**

- 09:00 Introduction
- 09:15 183 Conservation potential of human-made sites: a wasteland or Noah's Ark for threatened higher plants?  
*Klára Řehouňková*
- 09:30 184 Conservation value of young habitats: Are natural processes in post-industrial sites threatening endangered arthropods?  
*Robert Tropek, Milan Rezac, Filip Tichanek, Jiri Benes*
- 09:45 185 Early-successional stages in reclaimed mine sites in Spain: Are they worth to be preserved?  
*Josu G. Alday, Rob H. Marrs, Carolina Martínez-Ruiz*

*TUESDAY, AUGUST 23, MORNING I: SEMINAR ROOM 1*

**SESSION 13: ECOLOGICAL RESTORATION IN URBAN AREAS [CONTINUES AFTER COFFEE BREAK]**

- 09:00 167 Seeds and the city – about the importance of using native seed mixtures for urban grasslands restoration  
*Valentin Klaus, Martin Rudolph, Nils Stahlhut, Till Kleinebecker, Norbert Hölzel*
- 09:15 168 Triple benefits from urban grassland restoration to people, plants and bees  
*Leonie Katharina Fischer, Ingo Kowarik*
- 09:30 169 URBANCOWS – Restoration of urban coastal meadow complex in Pärnu town, Estonia  
*Bert Holm*
- 09:45 170 Ecological and socio-economic conditions of meadows restoration in the multifunctional landscape of urban floodplain  
*Marta Jermaczek-Sitak, Wiktor Kotowski*

*TUESDAY, AUGUST 23, MORNING I: SEMINAR ROOM 3 (DOWNSTAIRS)*

**SESSION 18: SOIL RESTORATION USING ORGANIC AMENDMENTS**

- 09:00 215 Urban tree debris as organic mulch: Effects on soil characteristics and tree growth  
*Zhu Ning, Kamran Abdollahi*
- 09:15 216 The supply chain of biochar: Aspects for soil restoration  
*Viktor J. Bruckman, Jay Liu, Esin Apaydin-Varol*
- 09:30 217 How to evaluate the suitability of organic amendments for soil land-spreading in relation to legislation and soil properties?  
*Maria Doula, Kyriakos Elaiopoulos, Antonis Zorpas, Panagiotis Kouloumpis*
- 09:45 218 Changes in decomposition rates after forest thinning and application of soil amendments  
*Deborah Page-Dumroese, Martin Jurgensen, Joanne Tirocke, Joanna Rogers, Christopher Miller*

TUESDAY, AUGUST 23, MORNING II: LECTURE HALL 14

**SESSION 11: BEST PRACTICE – METHODEN UND FALLBEISPIELE RENATURIERUNG**

**[ALL DAY; TRANSLATED FROM GERMAN]**

- 10:30 139 20 Jahre Renaturierung von Stromtalwiesen am hessischen Oberrhein /  
Restoration of floodplain meadows on the Rhine river, Hesse, Germany: A summary  
of 20 years experience  
*Matthias Harnisch*
- 10:45 140 Moore als FFH-Lebensraumtypen – wie kann sich die Moorrenaturierung auf die  
Bewertung der Lebensraumtypen auswirken?  
What is the effect of peatland restoration on evaluation criteria for Natura  
2000-habitats?  
*Cornelia Siuda*
- 11:00 141 Moorrenaturierung durch die Stiftung Naturschutz in Schleswig-Holstein  
Peatland restoration by the Nature Conservation Foundation of Schleswig-Holstein,  
Germany  
*Jutta Walter*
- 11:15 142 Amphibieninitiative Schleswig-Holstein: ein Programm für streng geschützte  
Amphibienarten – Erfahrungen aus 10 Jahren Umsetzung  
Protection of highly endangered amphibians in Schleswig-Holstein, Germany:  
Experiences from a ten-year campaign  
*Hauke Drews, Lars Briggs*
- 11:30 Discussion
- 11:45 143 Erfahrungen zur Wiederansiedlung gefährdeter Ackerwildpflanzen in Europa  
Establishment of rare arable weed species in Europe: An overview  
*Harald Albrecht, Marion Lang, Markus Wagner*
- 12:00 144 Wiederansiedlung von Ackerwildkräutern auf Flächen von Biobetrieben in den  
Naturräumen Münchner Ebene und Fränkischer Jura  
Re-establishment of rare arable weed species on organic farmland in Bavaria,  
Germany  
*Katharina Schertler, Marion Lang*
- 12:15 145 Wiederherstellung von Biodiversität in Agrarlandschaften am Beispiel von  
mehnjährigen Blühstreifen und Feldrainen  
Restoring biodiversity in agricultural landscapes by perennial flower strips and field  
margins  
*Anita Kirmer, Sandra Mann, Matthias Schrödter, Sabine Tischew*



*TUESDAY, AUGUST 23, MORNING II: LECTURE HALL 15*

**SESSION 12: AN OVERVIEW OF ECOLOGICAL RESTORATION IN EUROPE [CONT.]**

- 10:30 159 Ecological restoration in Hungary – a recent overview  
*Katalin Török, Péter Török*
- 10:45 160 Ecological restoration in Iceland  
*Asa L. Aradóttir, Guðmundur Halldorsson*
- 11:00 161 An overview of restoration in Italy  
*Bartolomeo Schirone*
- 11:15 162 Restoration efforts across the Mediterranean Basin: From a silvicultural to an ecological restoration approach  
*Alice Nunes, Graça Oliveira, Teresa Mexia, Melanie Köbel, Pedro Pinho, Otilia Correia, Cristina Branquinho*
- 11:30 163 Ecological restoration in Spain  
*Jordi Cortina*
- 11:45 164 Restoration strategies from Latin America: experiences for Europe towards Aichi ecosystem restoration targets  
*Fernando Vinegla Prades, Veronica Cruz Alonso, Jordi Cortina, Pilar Andrés, José Ignacio Barrera-Cataño*
- 12:00 165 LIFE Nature – Closing the gap between applied research and restoration practice?  
*Jan Sliva, Johannes Kollmann, João Pedro Silva, Bent Jepsen, Anne Burrill*
- 12:15 Discussion

*TUESDAY, AUGUST 23, MORNING I: LECTURE HALL 16*

**SESSION 15: CONSERVATION IMPORTANCE OF EARLY SUCCESSIONAL STAGES IN RESTORATION OF HUMAN-MADE SITES [CONT.]**

- 10:30 186 Impacts of a soil transfer for the restoration of a Mediterranean grassland after a pipeline leak: importance of young successional stages  
*Adeline Bulot, Thierry Dutoit*
- 10:45 187 Micro-topography driven succession in early- and mid-successional recovering grasslands  
*Balázs Deák, Orsolya Valkó, Péter Török, András Kelemen, Tamás Miglécz, Szilárd Szabó, Gergely Szabó, Béla Tóthmérész*
- 11:00 188 Flower power, the beetles and the stones: Progress of restoration trials at the Dounreay nuclear plant, northern Scotland  
*David Braidwood, Mark Taggart, Graeme Morgan, Melanie Smith, Roxane Andersen*
- 11:15 189 Pollinators at human-affected sites: role of succession  
*Dawid Moroń*
- 11:30 Discussion

*TUESDAY, AUGUST 23, MORNING I: LECTURE HALL 16*

**SESSION 16: QUARRIES – WIN-WIN FOR BIODIVERSITY [CONTINUES AFTER LUNCH]**

- 11:45 191 10 years of relations between scientists and quarry operators: From constraint collaborations to a real win-win partnership for biodiversity  
*Thierry Dutoit, Pierre Bourguet, Julie Chenot, Elise Buisson, Renaud Jaunatre*
- 12:00 192 Quarries meet biodiversity: insights from a long-term project of quarry rehabilitation  
*Carmo Silva, Sofia Eufrazio, Vânia Salgueiro, Pedro Salgueiro, Amália Oliveira, Otilia Miralto, Denis Medinas, Alexandra Silva, António Mira*
- 12:15 193 Occurrence rates of invasive plants in limestone quarries (southern Belgium)  
*Carline Pitz, Alexis Jorion, Grégory Mahy, Arnaud Monty*

*TUESDAY, AUGUST 23, MORNING II: SEMINAR ROOM 1*

**SESSION 13: ECOLOGICAL RESTORATION IN URBAN AREAS**

- 10:30 171 Relative contributions of novel and remnant ecosystems in determining the spatial distribution of rare and endangered plant species in urban environments  
*Greg Planchuelo, Ingo Kowarik, Moritz von der Lippe*
- 10:45 172 Roofs for biodiversity – the potential of native plant species for extensive roof greening  
*Roland Schröder, Vera Straub, Kathrin Kiehl*
- 11:00 173 Developing a new urban green infrastructure: Green roof inventory and potential analysis with remote sensing technology  
*Wolfgang Ansel, Julian Zeidler, Thomas Esch*
- 11:15 Discussion

*TUESDAY, AUGUST 23, MORNING II: SEMINAR ROOM 1*

**SESSION 14: GREEN-BLUE INFRASTRUCTURE**

- 11:30 177 International targets and restoration in urban areas  
*Aysegül Sirakaya*
- 11:45 178 Revitalizing post-industrial landscapes through Green Infrastructure (GI) in Japan  
*Yuto Isehara, Hirokazu Abe, Noriko Otsuka*
- 12:00 179 Applying the green infrastructure concept for regenerating the region affected by the nuclear accident in the Fukushima prefecture  
*Noriko Otsuka, Tetsuo Yasutaka, Hirokazu Abe, Tomoko Miyagawa*
- 12:15 180 Restoration of urban nature in synergy with climate adaptation  
*Kristine Kjørup Rasmussen*

*TUESDAY, AUGUST 23, MORNING II: SEMINAR ROOM 3 (DOWNSTAIRS)*

**SESSION 2: FLOODPLAIN RESTORATION IN MODIFIED LANDSCAPES**

**[CONTINUED FROM MONDAY]**

- 10:30 42 River and floodplain restoration on the Upper Danube by re-establishing river continuum and ecological flooding  
*Benno Kügel, Bernd Cyffka*
- 10:45 43 Restoration of fluctuating water zones in floodplains by temporary groundwater draw down: Case study of the Danube floodplain in Bavaria  
*Bernd Cyffka, Barbara Stammel, Peter Fischer, Marion Gelhaus*
- 11:00 44 Biological community responses to a large-scale floodplain restoration at the upper Danube river  
*Joachim Pander, Jürgen Geist*
- 11:15 45 Vegetation development in a re-connected oxbow system of the Danube in southern Germany  
*André Schwab, Kathrin Kiehl*
- 11:30 46 Does the renaturation process benefit species richness?  
*Axel Gruppe, Reinhard Schopf*
- 11:45 Discussion

*TUESDAY, AUGUST 23, AFTERNOON I: LECTURE HALL 14*

**SESSION 11: BEST PRACTICE – METHODEN UND FALLBEISPIELE RENATURIERUNG**

**[ALL DAY; TRANSLATED FROM GERMAN]**

- 13:45 146 Vermehrung und Wiederansiedlung gebietsheimischer Wildpflanzenarten aus der Sicht eines regionalen Saatgutproduzenten  
Regional propagation and establishment of native plant species: A seed producer's perspective  
*Johann Krimmer*
- 14:00 147 Beispiele integrativer Pflanzenartenschutzprojekte aus Schleswig-Holstein  
Examples for integrative plant-species protection projects in Schleswig-Holstein, Germany  
*Silke Lütt*
- 14:15 148 Renaturierungen mit naturnahen Begrünungsmethoden in Brandenburg  
Near-natural restoration in Brandenburg, Germany  
*Christina Grätz*
- 14:30 Discussion
- 14:45 149 Gewinnung und Einsatz von Wiesendrusch zur Wiederherstellung und Aufwertung von Goldhaferwiesen – erste Erfahrungen aus Hessen  
Harvest and application of threshed material for restoration of golden oatgrass meadows, Hesse, Germany  
*Günter Schwab, Ruben Max Garchow*

- 15:00 150 Langzeit-Beobachtung einer Almweide-Rekultivierung nach Wald-Weide-Trennung  
Long-term monitoring of mountain pastures established as forest-pasture substitutes,  
Austria  
*Silke Schaumberger, Bernhard Krautzer, Wilhelm Graiss*
- 15:15 151 Standortgerechte Hochlagenbegrünung in Österreich – Stand der Technik und  
aktuelle Herausforderungen  
Site-specific re-vegetation at high altitudes in Austria – state-of-the-art and current  
challenges  
*Bernhard Krautzer, Wilhelm Graiss, Silke Schaumberger*

*TUESDAY, AUGUST 23, AFTERNOON I: LECTURE HALL 15*

**SESSION 17: MAKING RESTORATION ECONOMICALLY SUSTAINABLE**

- 13:45 Introduction
- 14:00 209 Alternative ecosystem regimes as a guide to economically sustainable restoration  
*Diana Sietz, Luuk Fleskens, Lindsay C. Stringer*
- 14:15 210 Agroforestry for promoting productive forest restoration in the tropics  
*Carola Paul, Michael Weber, Thomas Knoke*
- 14:30 211 Balancing costs and nature values in prioritization schemes – examples from the  
Finnish restoration prioritization plan  
*Saija Kuusela, Janne S. Kotiaho, Atte Moilanen*
- 14:45 212 Targeting restoration through spatial conservation prioritization  
*Santtu Kareksela*
- 15:00 Discussion

*TUESDAY, AUGUST 23, AFTERNOON I: LECTURE HALL 16*

**SESSION 16: QUARRIES: WIN-WIN FOR BIODIVERSITY [CONT.]**

- 13:45 194 Release or restore abandoned quarries? The case of the La Crau plain in South-  
Eastern France  
*Julie Chenot, Renaud Jaunatre, Elise Buisson, Thierry Dutoit*
- 14:00 195 Do we need forestry reclamation of spoil heaps in the central Europe?  
*Lenka Sebelikova*
- 14:15 196 Technical reclamation can produce valuable freshwater habitats in postmining sites:  
example of threatened insects in lignite spoil heaps  
*Filip Tichanek, Vojtech Kolar, Robert Tropek*
- 14:30 197 Long-term planning for successful biodiversity enhancement at Batts Combe Quarry,  
Somerset, UK  
*Andy Duncan, Alexandra Pick*

- 14:45 198 The LIFE in Quarries project: building partners' confidence and sound nature management within active quarries  
*Maxime Séleck, Alexandre Sneessens, Julien Taymans, Charlotte Mathelart, Grégory Mahy*
- 15:00 199 Restoration through partnerships: Lessons learned from industry and NGO case studies  
*Dido Gosse, Carolyn Jewell, Boris Barov*
- 15:15 Discussion

*TUESDAY, AUGUST 23, AFTERNOON I: SEMINAR ROOM 1*

**SESSION 19: RESTORING BIODIVERSITY ON ARABLE LAND**

- 13:45 221 Arable plant conservation in Germany – practical knowledge and management guidelines  
*Stefan Meyer*
- 14:00 222 Characteristic arable weed species in NE Spain: What can we do to conserve them?  
*Roser Rotchés-Ribalta, José M. Blanco-Moreno, F. Xavier Sans*
- 14:15 223 Sowing seeds of rare arable weeds on crop edges: a double opportunity to restore biodiversity in arable fields and to preserve endangered plants  
*Jocelyne Cambecèdes, Rémy Bonneville, Jérôme Garcia, Lionel Gire, Karine Saint-Hilaire, Hervé Brustel, Jean Bugnicourt, Véronique Sarthou, Fabien Soldati*
- 14:30 224 Re-introduction of rare arable plants on organic farms: Establishment and impact on crop yield  
*Marion Lang, Johannes Kollmann, Julia Prestele, Klaus Wiesinger, Harald Albrecht*
- 14:45 225 Seed preferences by rodents in arable landscapes and implications for agroecological restoration approaches  
*Christina Fischer, Manfred Türke*
- 15:00 226 Reducing field size and farming intensity to enhance arable field centres as suitable habitats for birds and small mammals  
*Christoph Gayer, Kornelia Kurucz, Christina Fischer, Teja Tschardtke, Péter Batáry*
- 15:15 Discussion

*TUESDAY, AUGUST 23, AFTERNOON I: SEMINAR ROOM S3 (DOWNSTAIRS)*

**Workshop: Von der Planung zur Praxis – Herausforderung der Fließgewässerrenaturierung (German)**

- 13:15 Ziel des deutschsprachigen Workshops ist ein offener Austausch und die Diskussion von Praxisbeispielen der Auen- und Fließgewässerrenaturierung. Besonders wird die erfolgreiche, aber auch die verbesserungsfähige Umsetzung, d.h. die Differenz zwischen Planung und Praxis betrachtet. Praktiker und Wissenschaftler sind zu diesem Workshop eingeladen, ihre eigenen Erfahrungen und Untersuchungen ausgehend von einigen Praxisbeispielen aus Bayern zu diskutieren und auszutauschen und aus den Fehlern, aber vor allem auch aus den Erfolgen für neue Projekte zu lernen.  
*Wolfram Adelman*

*TUESDAY, AUGUST 23, AFTERNOON II: LECTURE HALL 14***16:00 13 KEYNOTE: Economic benefits and incentives for habitat restoration***Nick Hanley***SESSION 11: BEST PRACTICE – METHODEN UND FALLBEISPIELE RENATURIERUNG****[ALL DAY; TRANSLATED FROM GERMAN]**

16:45 152 Renaturierung von Felsvegetation – Einflüsse von Neophyten und Landnutzung  
Impact of neophytes and land use on restoration of rock vegetation in Bavaria,  
Germany

*Thomas Blachnik, Johannes Kollmann*

17:00 153 Anlage von Schotterrasen mit standortgerechtem Saatgut  
Creation of gravel lawns with site-specific seed mixtures, Austria

*Bernhard Krautzer, Wilhelm Graiss, Silke Schaumberger*

17:15 Discussion

*TUESDAY, AUGUST 23, AFTERNOON II: LECTURE HALL 15***Workshop: Restoration in Europe – a bigger picture**

16:45 Realization of the ambitious goal of restoring 15% of degraded ecosystems in Europe by 2020 is lagging behind. There is growing concern that the recognition and facilitation of restoration are not sufficiently addressed at national and EU level. The reasons for this poor performance will be explored in this workshop, which will discuss preliminary results of the EC contract on: "Promotion of restoration in the context of EU 2020 biodiversity strategy".

*Kristijan Civic, Ian Dickie, Ruurd van Diggelen**TUESDAY, AUGUST 23, AFTERNOON II: LECTURE HALL 16***Workshop: LBV (NGO) and extraction industry as partners**

16:45 Successful NGO-business-society partnerships in the sphere of mining consider the interests of all involved parties and are based on mutual trust and understanding of the parties' objectives. Is there a recipe for success? What are the key ingredients? The workshop will introduce examples of good practices and in a structured discussion will develop, with the help of the participants, recommendations and guidelines for sustainable mineral extraction and nature conservation.

*Marc Sitkewitz, Bernd Raab, Boris Barov*

*TUESDAY, AUGUST 23, AFTERNOON II: SEMINAR ROOM S1*

**Workshop: Sand habitats and LIFE @ SER 2016**

16:45            Recently, sandy habitats became quite prominent for conservation by NATURA 2000 habitats directive. A lot of restoration work has been done and is still ongoing in several LIFE projects throughout Europe. The workshop will highlight recent restoration activities and their results, offering a discussion platform for all who are already involved or who are interested in practical restoration work in sandy habitats.  
*Holger Rößling*

*TUESDAY, AUGUST 23, AFTERNOON II: SEMINAR ROOM S3 (DOWNSTAIRS)*

**Workshop: Ecological aesthetics in landscape (restoration) design?**

16:45            Traditional manifestations of ecological aesthetics are no longer useful today – but often displayed, especially in new restoration projects. All disciplines involved in designing the environment are required to develop new, progressive images of nature and up-to-date ecological forms committed to a progressive understanding of nature and culture. We will discuss different transformation strategies in contemporary landscape architecture with a special focus on so-called ‘ecological aesthetics’.  
*Udo Weilacher, Lars Hopstock, Diana Böhm*

# SESSIONPLAN

## THURSDAY

THURSDAY, AUGUST 25, MORNING I: LECTURE HALL 14

**08:15 12 KEYNOTE: Ecology of novel and native grassland ecosystems**

*Brian Wilsey*

**SESSION 21: LARGE-SCALE GRASSLAND RESTORATION IN EUROPE – PRACTICE AND PROSPECTS**

[CONTINUES AFTER COFFEE BREAK]

- 09:00 241 Monitoring changes in biodiversity patterns and in landscape structure during the large-scale grassland restoration in Estonia  
*Aveliina Helm, Tsipe Aavik, Nele Ingerpuu, Mari Ivask, Reet Karise, Liis Kasari, Tiiu Kupper, Riho Marja, Mart Meriste, Jaak-Albert Metsoja, Lena Neuenkamp, Ede Oja, Anu Tiitsaar*
- 09:15 242 Setting and assessing a large-scale restoration project: example of a steppe grassland rehabilitation project in south-eastern France  
*Renaud Jaunatre, Elise Buisson, Jean-François Alignan, Baptiste Dolidon, Michel Oberlinkels, Fanny Sauguet, Axel Wolff, Thierry Dutoit*
- 09:30 243 Effects of ecological restoration on insect assemblages (Coleoptera – Orthoptera) in a Mediterranean steppe rangeland  
*Jean-François Alignan, Jean-François Debras, Renaud Jaunatre, Thierry Dutoit*
- 09:45 244 Landscape-scale restoration of species rich grasslands on croplands by sowing low- and high-diversity seed mixtures  
*Béla Tóthmérész, Balázs Deák, Péter Török, András Kelemen, Tamás Migléc, Katalin Tóth, Orsolya Valkó*

THURSDAY, AUGUST 25, MORNING I: LECTURE HALL 15

**SESSION 23: UNASSISTED RESTORATION – PITFALLS AND PROGRESS**

- 09:00 267 Don't overlook nutrient efficiency in explaining principles of spontaneous revegetation of severely altered habitats  
*Nina Nikolic, Reinhard Böcker, Miroslav Nikolic*
- 09:15 268 Success of self-revegetation on peat-fields and peat pits abandoned over 30 years ago  
*Mati Ilomets, Raimo Pajula, Laimdota Truus, Kairi Sepp*
- 09:30 269 Primary succession seen through shifted patterns of soil macrofauna surface activity, a different ecological perspective towards post mining sites  
*Jabbar Moradi, Ondrej Mudrak, Jan Frouz*
- 09:45 Discussion



*THURSDAY, AUGUST 25, MORNING I: LECTURE HALL 16*

- 09:00 Briefing on post-conference student courses  
*M. Derak, Harald Albrecht, Peter Török, Jordi Cortina*

*THURSDAY, AUGUST 25, MORNING I: SEMINAR ROOM S1*

- 09:00 Outreach to future SER Europe members and affiliates  
*Jordi Cortina/n.n.*

*THURSDAY, AUGUST 25, MORNING I: SEMINAR ROOM S3 (DOWNSTAIRS)*

- 09:00 Filling the SER Europe knowledge database  
 Networking time! Share your practical experience, interesting case studies, information on ongoing projects by preparing and uploading an extended abstract, or poster pdf to the SER Europe knowledge base (<http://www.ser.org/europe/> - ISSN 2295-5704). Instructions will be mailed, senior scientists will be available for corrections on-site.  
*Kris Decler, Agata Klimkowska*

*THURSDAY, AUGUST 25, MORNING II: LECTURE HALL 14*

**SESSION 21: LARGE-SCALE GRASSLAND RESTORATION IN EUROPE: PRACTICE AND PROSPECTS [CONT.]**

- 10:30 245 Rewilding the landscape: Effects of large-scale grassland restoration and management on animals  
*Csaba Szepesváry, Olivér Thomas Méré, Béla Mester, István Márton Szabolcs, Szabolcs Lengyel*
- 10:45 246 Grassland succession in former lignite mining areas  
*Anita Kirmer, Sabine Tischew*
- 11:00 247 Hierarchy of factors determining grassland restoration on arable land  
*Ivana Jongepierová, Karel Fajmon, Karel Prach*
- 11:15 248 Responses of phytophagous insect communities to restoration of species-rich grasslands in the White Carpathians (Czech Republic)  
*Eliška Malaníková, Igor Malenovský, Lukáš Spitzer, Petr Kment, Karel Fajmon, Ivana Jongepierová*
- 11:30 249 Grassland restoration at Stonehenge World Heritage Site, UK  
*Jonathan Mitchley, Susan Medcalf, Grace Twiston-Davies, Simon Mortimer*
- 11:45 Discussion

*THURSDAY, AUGUST 25, MORNING II: LECTURE HALL 14*

**SESSION 22: TUNING UP GRASSLAND RESTORATION [CONTINUES AFTER LUNCH BREAK]**

- 12:00 253 LIFE to alvar: Large-scale Estonian alvar grassland restoration in practice  
*Annely Esko, Bert Holm*
- 12:30 254 Restoration of species-rich *Nardus* grasslands on former fertilized land by reinitiating mowing and grazing is inadequate  
*Stephanie Schelfhout, Maud Raman, An De Schrijver*

THURSDAY, AUGUST 25, MORNING II: LECTURE HALL 15

**SESSION 24: SOIL SEED BANKS AND SEED DISPERSAL – PROMISING SOURCES FOR RESTORATION**

**[CONTINUES AFTER LUNCH BREAK]**

- 10:30 Introduction
- 10:45 275 Where are the missing seeds? Constraints and opportunities related to seed banks and seed transfer with hay in fen meadows restoration  
*Agata Klimkowska, Rudy van Diggelen, Ab P. Grootjans, Klara Goldstein, Wiktor Kotowski*
- 11:00 276 Plant dispersal traits in fragmented habitats: implications for restoration  
*Aveliina Helm*
- 11:15 277 Nut dispersal by magpies in agroforestry systems  
*Jorge Castro, Loreto Martínez, Mercedes Molina-Morales, Lorenzo Pérez-Camacho, Pedro Villar-Salvador, Alexandro Leverkus, Salvador Rebollo, José M. Rey-Benayas*
- 11:30 278 Seed addition and seed-bed preparation by sheep in ecological restoration  
*Carsten Eichberg, Christian Storm, Angelika Schwabe*
- 11:45 279 What if soil seed bank and seed rain failed? A case study with sandy grasslands  
*Sandrine Godefroid, Sarah Le Pajolec, Fabienne Van Rossum*
- 12:00 280 Seed bank and seed rain studies in tropical grasslands and Mediterranean ecosystems: lessons learnt for restoration  
*Elise Buisson, Andre Jardim Arruda, Renaud Jaunatre, Soizig Le Stradic, Isabelle Muller, Nicole Yavercovski, Loic Willm, Thierry Dutoit, François Mesléard, Fernando A.O. Silveira*
- 12:15 Discussion

THURSDAY, AUGUST 25, MORNING II: LECTURE HALL 16

**SESSION 25: WISE USE OF PLANTS**

- 10:30 289 The role of nurse plants as drivers of community assembly and ecosystems functions in metalliferous mine tailings  
*Jose A. Navarro-Cano, Marta Goberna, Alfonso Valiente-Banuet, Miguel Verdú*
- 10:45 290 Preserving functional traits and trait variation in ex situ conservation programs: lessons from botanic garden collections  
*Andreas Ensslin, Sandrine Godefroid*
- 11:00 291 Does intraspecific genetic structure support seed transfer zones currently used in restoration?  
*Christian Bräuchler, Maximiliane Schümann, Johannes Kollmann, Harald Meimberg*
- 11:15 292 Differentiation among populations of *Brachypodium retusum*: Consequences for the restoration of Mediterranean steppes  
*Christel Vidaller, Vivien Carrere, Lara Amorsi, Kevin Maurin, Thierry Dutoit, Armin Bischoff*
- 11:30 293 To sow or not to sow – potential genetic consequences of using seed mixes for restoration  
*Tsipe Aavik, Peter J. Edwards, Regula Billeter, Rolf Holderegger*

- 11:45 294 Plant genotype effect on herbivore performance: a meta-analysis  
*Florian Joos, Anna Bucharova*
- 12:00 295 Ecological restoration policy and a native seed solution: can we seed the future of Europe?  
*Holly Abbandonato, Giles Laverack, Hugh Pritchard, Costantino Bonomi, Simone Pedrini*
- 12:15 Discussion

*THURSDAY, AUGUST 25, MORNING II: SEMINAR ROOM S1*

**SESSION 27: FACILITATING RESTORATION**

- 10:30 311 Utilitarian and non-utilitarian valuation of nature and natural resources: A game-theoretical approach of valuation  
*Sjaak Swart, Jorien Zevenberg*
- 10:45 312 Building better researcher practitioner partnerships: restoration stories from local government in Durban, South Africa  
*Errol Douwes, Debra Roberts*
- 11:00 313 Integrating landowners' perceptions into prioritization of valuable areas – implications for forest conservation management  
*Riikka Paloniemi, Teppo Hujala, Salla Rantala, Annika Harlio, Anna Salomaa, Eeva Primmer, Sari Pynnönen, Anni Arponen*
- 11:15 Discussion
- 11:30 314 Prioritization and implementation of the 15% restoration target in Spain  
*Jordi Cortina*
- 11:45 315 Human health and ecological restoration: A legal perspective  
*Jing Zhang, An Cliquet*
- 12:00 316 Sueing your government to reach ecological restoration targets: utopia or reality?  
*An Cliquet*
- 12:15 Discussion

*THURSDAY, AUGUST 25, MORNING II: SEMINAR ROOM S3 (DOWNSTAIRS)*

- 10:30 Filling the SER Europe knowledge database  
Networking time! Share your practical experience, interesting case studies, information on ongoing projects by preparing and uploading an extended abstract, or poster pdf to the SER Europe knowledge base (<http://www.ser.org/europe/> - ISSN 2295-5704). Instructions will be mailed, senior scientists will be available for corrections on-site.

THURSDAY, AUGUST 25, AFTERNOON I: LECTURE HALL 14

**SESSION 22: TUNING UP GRASSLAND RESTORATION [CONT.]**

- 13:45 255 Assessing the functional effects of restoration management: A trait-based analysis from 25-year field experiments in wet grasslands of Northwestern Germany  
*Frederike Velbert, Till Kleinebecker, Ondřej Mudrák, Jutta Klevesahl, Peter Schwartz, Norbert Hölzel*
- 14:00 256 Old-field succession theories revisited from the viewpoint of perennial-crop-mediated succession  
*András Kelemen, Orsolya Valkó, Béla Tóthmérész, Tamás Migléc, Balázs Deák, Péter Török*
- 14:15 257 Restoring the habitat of corncrake (*Crex crex*) on arable land: The challenge to improve the soil nutrient status and hydrological conditions  
*Maud Raman, An De Schrijver, Gerald Louette*
- 14:30 258 Hay transfer to restore floodplain grasslands: How important are date and soil preparation ?  
*Armin Bischoff, Sandy Hoboy, Nadja Winter, Jeanne Poulet, Guido Warthemann*
- 14:45 259 Priority effects influence plant traits and biomass in a grassland field experiment  
*Emanuela W.A. Weidlich, Vicky M. Temperton*
- 15:00 Discussion

THURSDAY, AUGUST 25, AFTERNOON I: LECTURE HALL 15

**SESSION 24: SOIL SEED BANKS AND SEED DISPERSAL – PROMISING SOURCES FOR RESTORATION [CONT.]**

- 13:45 281 Microtopographic features aid in the establishment of colonizing vegetation from soil seedbank on reclamation sites  
*Katharine Melnik, S. M. Landhüsser, K. Devito*
- 14:00 282 Species composition of soil seed bank and recruitment within revegetation sites: a measure of ecological restoration potential  
*Florentine Singarayer, Per Milberg, Graeme Ambrose, Martin Westbrooke*
- 14:15 283 The importance of the unseen – can soil seed bank contribute to grassland restoration? Two Estonian examples – alvars and flooded meadows  
*Jaak-Albert Metsoja, Kersti Püssa, Rein Kalamees, Martin Zobel*
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*Inger Auestad, Knut Rydgren, Joachim Töpper*
- 14:45 285 Seed bank dynamics during seven years of experimental grassland restoration  
*Markus Wagner, Kevin Walker, Richard Pywell*
- 15:00 286 Is the promising vegetation recovery in calcareous sand grasslands reflected by the seed banks?  
*Péter Török, Orsolya Valkó, András Kelemen, Balázs Deák, Katalin Tóth, Tamás Migléc, Anikó Csecserits, Tamás Rédei, Béla Tóthmérész*
- 15:15 Discussion

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*Jakub Tesitel*
- 14:30 303 Barriers to ecosystem restoration arising from soil legacy effects after clearing invasive N-fixing species  
*Mlungelwe Nsikani, Brian van Wilgen, Mirijam Gaertner*
- 14:45 304 Restoring shrub steppe landscapes in the face of fire and invasive species – prioritizing using resistance and resilience  
*David Pyke, Jeanne Chambers, Jeremy Maestas, Mike Pellant, Chad Boyd*
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*Kristín Svavarsdóttir, Menja von Schmalensee, Asa L. Aradottir, Anne Bau, Róbert A. Stefánsson*
- 15:15 Discussion

THURSDAY, AUGUST 25, AFTERNOON I: SEMINAR ROOM S1

- 13:45 Preparing the conference declaration  
*An Cliquet, Kris Decler*

THURSDAY, AUGUST 25, AFTERNOON I: SEMINAR ROOM S3 (DOWNSTAIRS)

- 10:30 Filling the SER Europe knowledge database  
Networking time! Share your practical experience, interesting case studies, information on ongoing projects by preparing and uploading an extended abstract, or poster pdf to the SER Europe knowledge base (<http://www.ser.org/europe/> - ISSN 2295-5704). Instructions will be mailed, senior scientists will be available for corrections on-site.

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- 16:00 11 **KEYNOTE: The restoration of ecological interactions**  
*Jane Memmott*
- 16:45 SER Europe Member Assembly  
*Chair: Jordi Cortina*
- 17:45 Closing Ceremony  
*Chairs: Johannes Kollmann, Jordi Cortina*

# POSTER-TOUR PLAN

## MONDAY & TUESDAY

MONDAY, AUGUST 22, AND TUESDAY, AUGUST 23, EVENING: POSTER SESSION IN FOYER AND CORRIDORS OF LECTURE HALL BUILDING (LETTERS INDICATE GUIDED POSTER TOURS\*)

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*Ahmed Al-Zankana, Tom Matheson, David Harper*
- A 33 A framework for predicting stream sites with potential restoration success – integrating ecogeomorphology into a landscape perspective  
*Wiebke Schulz*
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*Nadia Fernandez, Frédéric Labat, Corinne Grac, Bruno Fontan, Jean-Nicolas Beisel*
- A 35 Exploring riverine landscape patterns and the driving forces  
*Ting Zhou, Bei Huang, Shaolin Peng*

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*Stefanie Seifert, Gregory Egger, Johannes Kollmann*
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*Stefanie Luka, Janine Ruffer, Inga Willecke, Michael Zauft*
- A 49 Ecological restoration of the upper stream Øle Å, Bornholm, Denmark  
*Jonas Morsing, Karsten Raulund-Rasmussen, Kaj Sand-Jensen, Lars Baastrup-Spohr, Christian Gamborg, J. Bo Larsen*
- A 50 Restoration and conservation of wetlands in a tsunami disaster zone after the 2011 Tohoku Earthquake  
*Tomohiro Ichinose, Satoru Itagawa*

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*Anne Tolvanen, Miia Parviainen*
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\*Chairs: Tour A (B. Stammel), Tour B (Á. Aradóttir), Tour C (A. Tolvanen), Tour D (J. Mitchley), Tour E (H. Heilmeyer), Tour F (A. Bucharova), Tour G (K. Prach) and Tour H (V. Klaus)

- B 112 Resilient and multifunctional Mediterranean-type ecosystems: Improving restoration by trait-based simulation modelling  
*Sebastian Fiedler, Michael P. Perring, Britta Tietjen*
- B 113 Prioritizing protection measures through ecosystem services  
*Li Yuliang*
- B 114 Soil carbon sequestration and biodiversity reconstruction in rehabilitated coal mine spoil in a tropical region, India: A case study  
*Anand Narain Singh*

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- B 219 Biochar amendment, fertilization, and mastication impacts on ponderosa pine tree growth  
*Haley Anderson, Christopher Keyes, Deborah Page-Dumroese, Mark Coleman*

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*Nancy Shaw, Stephanie Frischie, Kingsley Dixon, Rob Fiegenger, Olga Kildisheva, Simone Pedrini*
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*Solvita Rusina, Lauma Kupča*
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# GENERAL INFORMATIONS

## **Instructions for oral presenters**

Please hand over your presentation on a USB memory stick to the staff at our IT Desk in seminar room 2. You can pre-view the presentation there. To minimize potential incompatibilities between software versions, we recommend limited use of animation, and use of common Windows fonts for text and symbol fonts for equations.

At the start of the conference on Monday, the registration will be open from 07:30 AM onwards. In case your talk is scheduled for the first sessions on Monday, please take extra care to arrive in time. All the other presentations need to be handed over to the conference IT staff no later than the afternoon preceding the day the presentation is scheduled!

Please arrive in your session room at least 10 minutes prior to the start of your session time.

## **Instructions for poster presenters**

Please put up your poster at registration time Monday 08:00 to 18:00. Posters should be on display from 12:00 on Monday 22 August 2016 until the end of the Conference on Thursday 25 February 2016. Posters remaining by Friday morning will be disposed of.

Posters boards will be numbered and labelled with session headings, and your ID. Poster pins will be supplied by the organisers.

Please attend your poster during both Monday evening poster party, and Tuesday evenings formal poster session. Poster presenters, please be ready on Tuesday to give a very brief introduction of yourself and your work – poster session chairs, please be prepared to lead 30–60 minute tours through the poster exhibition according to tour schedules.

## **Conference name tags and vouchers**

Please wear your Conference name tag in the Conference and when entering the shuttle buses and the social program. If you have bought lunch vouchers, registered to the Conference dinner and Mid-Conference excursion, the vouchers are in your Conference name tag bag.

### Mid-conference excursions

The buses take off at 8:30 at the parking lot next to the university library – the circular building next to Weihenstephan bus stops (E10 8:34 from Freising Railway Station). Lunch packets and drinks are included in the fee. The buses are numbered as follows:

- 1 Alpine forest management (Weber)
- 3 Floodplain forest reconstruction (Cyffka)
- 4 Riverbank revitalisation (Kollmann)
- 5 Bog regeneration (Drösler)
- 6 Ecology and conservation of pre-alpine lakes (Geist)
- 7 Quarry rehabilitation (Rademacher)
- 8 Calcareous grassland restoration (Kiehl)
- 9 Supporting agrobiodiversity in organic farming (Wiesinger)
- 10 Urban green infrastructure (Pauleit)

### City reception Sunday, August 21<sup>st</sup>

The City of Freising will welcome the Conference participants in the Town Hall on Marienplatz (Central square) on Sunday evening at 19:00 hs. Refreshments will be served. Please note that there was pre-registration to this event.

### Contribute to the SER Knowledge Database!

Add your expertise to the SER Europe Knowledge Base on Ecological Restoration, accessible via [http://www.ser.org/europe/SER\\_Europe\\_Knowledge\\_Base.asp](http://www.ser.org/europe/SER_Europe_Knowledge_Base.asp). We wish to provide a web-based tool for the restoration community to share knowledge, best practice experience, interesting case studies, ongoing projects.

Our Knowledge Base is officially registered with an International Standard Serial Number: ISSN 2295-5704. All content of the SER Europe Knowledge Base is available for web search engines, providing maximal on-line visibility of your work. Additionally, we offer our own search menu to consult solely the SER Europe Knowledge Base. Key words facilitate browsing available contributions on a particular subject.

You can either upload pdfs of your poster presentation, or extended abstracts. An extended abstract is no longer than four pages. Please focus on results, discussion and conclusions (e.g. lessons learned, best practice recommendations). Tables, figures and photos can be added to the abstract and are highly useful to clarify your research or case study to the wider public. Templates are available in seminar room S3 on Thursday, at the registration desk and at [www.ser2016.org](http://www.ser2016.org).

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Krautzer, Bernhard	S 11-014; S 11-015; S 11-017
Kretschmer, Klaus	OpenS-02
Krimmer, Johann	S 11-010
Kügel, Benno	S 2-07
Kuusela, Saija	S 17-03
Laarmann, Diana	S 16-P4; S 7-P2
Lampela, Maija	S 7-09
Lang, Marion	S 19-04; S 11-07; S 11-08; S 19-P1
Lee, Yong Ho	S 25-P2
Lencova, Kamila	S 23-P3
Loy, Georg	S 1-012
Luka, Stefanie	S 2-P2

Participant	Contributions
Lütt, Silke	S 11-011
Lyngstad, Anders	S 4-06; S 21-P1; S 21-P2
Malaniková, Eli ka	S 21-08
Marcus, Mickey	S 8-07
Marcus, Julie	S 8-07
Maringer, Janet	S 5-06
Marrs, Rob	Keynote lecture; S 5-02; S 15-03; S 5-P1; S 9-P1
Martelletti, Sara	S 7-04
Melnik, Katharine	S 24-07
Memmott, Jane	Keynote lecture
Messier, François	S 26-P4
Metsoja, Jaak-Albert	S 24-09; S 21-01
Meyer, Stefan	S 19-01
Meyer, Elisabeth I.	S 1-013
Michaelis, Dierk	S 4-02
Milberg, Per	S 5-05; S 24-08; S 22-P1
Minayeva, Tatiana	S 3-06; S 3-07
Minkinen, Kari	S 3-01
Mitchley, Jonathan	S 21-09
Moeslund, Jesper Erenskjold	S 10-02
Moinardeau, Cannelle	S 6-04
Moradi, Jabbar	S 23-03; S 23-P1
Moroň, Dawid	S 15-07
Morsing, Jonas	S 7-03; S 2-P3
Mortimer, Simon	S 21-09; S 9-P1
Müllerová, Anna	S 16-P7
Navarro -Cano, Jose Antonio	S 25-01
Nikolic, Nina	S 23-01
Nilsson, Christer	S 1-02; S 1-08; S 2-07
Ning, Zhu	S 18-01; S 7-P1
Nsikani, Mlungele	S 26-03
Nunes, Alice	S 12-08
Øien, Dag-Inge	S 4-05; S 4-06; S 21-P2
Otsuka, Noriko	S 14-03; S 14-02
Pacholik, Ewa Hanna	S 16-P3
Page-Dumroese, Deborah	S 18-04; S 18-P2
Paloniemi, Riikka	S 27-03

Participant	Contributions
Pander, Joachim	S 2-09
Paul, Carola	S 17-02
Peters, Jan	S 27-P4
Petersen, Søren O.	S 3-04
Pilotto, Francesca	S 1-08; S 1-02
Pitz, Carline	S 16-03; S 9-07
Planchuelo, Greg	S 13-05
Prach, Karel	Keynote lecture; S 12-02; S 21-07; S 16-P7
Pütz, Thomas	S 7-01
Pyke, David	S 26-04
Qian, Liyuan	S 10-05
Raman, Maud	S 22-05; S 22-02
Rasmussen, Kristine Kjørup	S 14-04
Raulund-Rasmussen, Karsten	S 7-02; S 7-03; S 2-P3
Řehounková, Klára	S 15-01; S 12-02
Reihmanis, Jānis	S 10-P1
Rodríguez-González, Patricia María	S 2-05
Rohrer Rodríguez, Zoë	S 16-P2
Rosenthal, Gert	S 6-09
Rosquist, Gabrielle	OpenS-01
Ross, Louise	S 4-06
Rotchés-Ribalta, Roser	S 19-02
Ruffer, Janine	S 2-P2
Rupprecht, Denise	S 6-01; S 6-P1
Rusina, Solvita	S 27-P2
Rydgren, Knut	S 9-03; S 24-010
Sandell, Maria	OpenS01
Sandin, Leonard	S 1-06
Santana, Victor	S 7-08; S 5-P1
Schaumberger, Silke	S 11-014; S 11-015; S 11-017
Scheder, Christian	S 1-05
Schelfhout, Stephanie	S 22-02
Schirone, Bartolomeo	S 12-07
Schlaipfer, Martina	S 3-02
Scholz, Mathias	S 2-02
Schröder, Roland	S 13-06; S 13-P2
Schulz, Wiebke	S 1-P2

Participant	Contributions
Schulz, Jennifer	S 8-01
Schwab, Günter	S 11-013; S 20-P6
Schwab, André	S 2-010
Sebelíková, Lenka	S 16-05
Seifert, Stefanie	S 2-P1
Séleck, Maxime	S 16-08
Shaw, Nancy	S 27-P1
Sietz, Diana	S 17-01
Silva, Carmo	S 16-02; S 16-P6
Singarayer, Florentine	S 24-08
Singh, Anand Narain	S 8-P5
Sirakaya, Aysegül	S 14-01
Sirin, Andrey	S 3-07; S 3-06
Siuda, Cornelia	S 11-04
Sliva, Jan	S 12-011
Snopek, Adam	S 16-P3
Spitoni, Marie	S 10-04
Stammel, Barbara	S 2-08
Strazdins, Girts	S 10-P1
Strobl, Katharina	S 9-01; S 9-P2
Suwanwaree, Pongthep	S 26-P3
Svavarsdóttir, Kristín	S 7-05; S 26-05
Swart, Sjaak	S 27-01
Szepesváry, Csaba	S 21-05
Tälle, Malin	S 22-P1
Temperton, Vicky	S 8-06; S 22-07
Tesitel, Jakub	S 26-02
Tichanek, Filip	S 16-06; S 15-02
Tischew, Sabine	S 6-02; S 6-03; S 11-09; S 21-06; S 20-P6
Tolvanen, Anne	Keynote lecture; S 3-01; S 8-P1
Török, Katalin	S 12-05; S 22-P4; S 22-P5
Török, Péter	S 5-04; S 6-07; S 12-05; S 15-05; S 21-04; S 22-04; S 24-012; S 26-P2; S 20-P1
Tóthmérész, Béla	S 21-04; S 22-04; S 24-012; S 15-05; S 6-07; S 5-04; S 20-P1; S 26-P2
Tropek, Robert	S 15-02; S 16-06; S 23-P2
Truus, Laimdota	S 23-02; S 20-P4

Participant	Contributions
Valkó, Orsolya	S 5-04; S 6-07; S 10-03; S 15-05; S 21-04; S 22-04; S 24-012; S 20-P1; S 22-P1; S 26-P2
Velbert, Frederike	S 22-03
Vidaller, Christel	S 25-04
Wagner, Markus	S 24-011; S 11-07; S 9-P1
Wagner, Viktoria	S 26-01
Walter, Jutta	S 11-05
Weber, Michael	S 17-02
Weidlich, Emanuela	S 22-07; S 8-06
Willecke, Inga	S 2-P2
Wilsey, Brian	Keynote lecture
Yuliang, Li	S 8-P4
Zauft, Michael	S 2-P2
Zaunberger, Karin	S 12-01
Zhang, Jing	S 27-06
Zhou, Ting	S 1-P4
Ziemiański, Maciej	S 13-P1
Zvingule, Laura	S 10-P1





