

General Information

Registration

Registration Fees:	Euros	USD
Early Registration	175	250
Regular Registration	195	280

On-Site Registration and fee payment

Friday	16:00-19:00	Adalbert Hotel
Saturday	8:00-19:30	Adalbert Hotel
Sunday	7:15-8:00	Abbey

Poster Sessions

- Poster Session 1 – Posters 1-60 – Sunday 16:45-18:15
- Poster Session 2 – Posters 61-130 – Monday 17:00-18:30

Poster Setup in the Abbey Times

Poster Session 1

Numbers 1-60 (see list on page 28)

Saturday, September 26 at 18:30

Poster Session 2

Numbers 61-130 (see list on page 28)

Saturday, September 26 at 18:30 or during breaks on Sunday

Presentation Uploads

Preferred time for all presentations – 18:30 Saturday. Sunday presentations MUST be uploaded at this time.

During breaks on Sunday, Monday and early break on Wednesday

Special Events

Tours (may be purchased during registration hours) Green Tickets	Euros	USD
Friday or Saturday Castle Area Tour Strahov Monastery – Czernin Palace – Loreto Shrine – Hradcany Square – The Prague Castle – St. Vitus’s Cathedral – The Old Royal Palace – Golden Lane –The Castle Gardens	14	20
Saturday Old Town Tour Wenceslas Square – Old Town of Prague – Old Town Square – The Astronomic Clock with Horologe – The Tyn Church – The Coronation Route of the Czech Kings – St. Gile’s Church – Krizovnicke Square – Charles Bridge – Lesser Town of Prague – St. Nicolas’s Church	14	20
Concert Green Ticket Classical Music Concert, Sunday evening	25	35
Conference Dinner Yellow Ticket Monday Evening	25	35
Transportation Five day passes are available for travel in city	25	35
Lunches Pink Tickets (may be purchased during registration hours) 3 lunches for Sunday, Monday, Wednesday	75	105

Scientific Program

The Role and Importance of Peatlands in the Global Carbon Cycle: Past, Present, and Future

Prague, The Czech Republic

September 25-29, 2009

Meeting Organizers: Dale H. Vitt and R. Kelman Wieder

Local Organizer: Martin Novák

Meeting Secretary: Sandi Vitt

Sponsor: PEATNET, a National Science Foundation Research Coordination Network Grant for *Peatland Ecosystem Analysis and Training Network*

Session Organizers:

David Beilman

Lisa Belyea

Christian Blodau

Torben R. Christensen

Dicky Clymo

Steve Froking

Juul Limpens

Nigel Roulet

Dale H. Vitt

R. Kelman Wieder

Session Program

Friday, September 25

- 13:00-17:00 Registration open (Adalbert Hotel)
14:00-17:00 The Castle Area Tour (Meet in front of Abbey)

Saturday, September 26

- 8:30-19:30 Registration (Adalbert Hotel)
9:00-12:00 The Old Town Tour (Meet in front of Abbey)
14:00-17:00 The Castle Area Tour (Meet in front of Abbey)
19:30-21:00 Icebreaker at Brevnov Abbey

Sunday, September 27

- 7:00-8:00 Registration (Brenov Abbey)
8:00 *Martin Novák*. Welcome.
8:15 *Dale Vitt*. Overall goals of the meeting.

SESSION 1. 8:30-12:00 - *Peatland Carbon in the Global C and CH₄ Cycles.*

Organizer: Nigel Roulet (nigel.roulet@mcgill.ca)

- 8:30 *Roulet, Nigel*. Overview of the role of peatlands in the global carbon cycle and their role as modifiers of climate.
9:00 *Holden, Joe*. Fluvial carbon flux within and from peatlands.
9:30 *Nilsson, Mats B*. Interannual variability in peatland carbon balances.
10:00 Break
10:30 *Yu, Zicheng**, *Julie Loisel & Miriam Jones*. Peatland carbon dynamics in the Holocene: Controls, relevance and implications.
11:00 *Waddington, Mike*. The ecohydrology of disturbed peatlands: Can peatlands be moved out of their adaptive stability points?
11:30-11:45 Synthesis: Presenter panel and discussion.

SESSION 2. 13:15-16:45 – *Decomposition and the Acrotelm/ Catotelm Concept*

Organizers: Lisa Belyea and Dicky Clymo (L.Belyea@gmul.ac.uk and Clymo@rsjc.net)

- 13:15 *Belyea, Lisa*. Overview. Stopping the rot: Decomposition and its control in peatlands.
- 13:45 *Artz, Rebekka R.E. *, Hannah Toberman, Pauline Currey, Clare J. Trinder, Roxane Andersen, Line Rochefort, Lucy J. Shephard, David Johnson, Stephen J. Chapman & Colin D. Campbell*. The functions of peatland microbiota in carbon cycling, global threats to community composition and future opportunities.
- 14:15 *Strom, Lena*. The role of belowground processes in carbon turnover and CH₄ emission from northern wetlands.
- 14:45 Break
- 15:15 *Laiho, Raija*. Geochemical and environmental controls on decomposition.
- 15:45 *Strack, Maria*, J. M. Waddington, Eeva-Stiina Tuittila, Line Rochefort, & Jonathan S. Price*. Direct and indirect effect of water table drawdown on peatland carbon cycling.
- 16:15 *Dicky Clymo*. Synthesis.

SESSION 3. 16:45-18:15 -- Poster Session 1, Posters 1-60

18:00 Concert for ticket holders

Monday, September 28

SESSION 4. 8:30-12:00 - Linkages of Peatlands to Biospheric Feedbacks.

Organizer: Torben R. Christensen (Torben.Christensen@nateko.lu.se)

- 8:30 *Christensen, Torben R.* Overview: Towards a comprehensive understanding of peatland greenhouse gas exchanges in permafrost environments – a ground-based measurement perspective.
- 9:00 *Dlugokenchy, Edward*, Thomas Conway, Lori Bruhwiler, Sander Houweling & Wouter Peters*. Contributions of high northern latitude ecosystems to observed atmospheric CO₂ and CH₄.
- 9:40 *Mastepanov, Mikhail*, Torbern Tagesson, Norbert Pirk, Charlotte Sigsgaard, Lena Ström, Mikkel Tamstorf & Torben R. Christensen*. Following the freezing tundra methane burst: Field and lab approach.
- 10:00 *Break*
- 10:30 *Harden, Jennifer*. Response of soil carbon to permafrost degradation under a warming climate.
- 11:10 *Dorrepaal, Ellen*, Sylvia Toet, Richard van Logtestijn, Elferra Swart, Marjan van de Weg, Terry Callaghan, & Rien Aerts*. Climate warming accelerates CO₂-release from subsurface carbon in a sub-arctic peatland.
- 11:30 *Christensen, Torben R.* Synthesis and discussion.

SESSION 5. 13:30-17:00 - The Geographic Importance of Carbon in Peatlands.

Organizers: David Beilman and Dale Vitt (beilman@hawaii.edu and dvitt@plant.siu.edu)

- 13:30 *Beilman, David.* Geospatial aspects of peatland size and regional climate trajectories.
- 14:00 *Kutzbach, Lars*, Thomas Becker, Torsten Sachs, Inke Forbrich, Julia Schneider & Martin Wilmking.* Geospatial challenges towards the quantitative understanding of peatland carbon dynamics across multiple scales.
- 14:30 *Ostle, Nick*, Niall McNamara, Mike Whitfield, Sue Ward, Simon Oakley, & Dave Beilman.* Spatial and dynamic analyses of biogeochemical cycling in UK peatland carbon catchments.
- 15:00 Break
- 15:30 *Page, Susan*, Chris Banks, Jack Rieley, Jyrki Jauhiainen & Harri Vasander.* The role of tropical peatlands in carbon storage and carbon cycling.
- 16:00 *Benscoter, Brian* & Merritt Turetsky.* Multi-scale influences of wildfire and peatland carbon storage.
- 16:30 *Vitt, Dale.* Synthesis and discussion.

SESSION 6. 17:00-18:30 - Poster Session 2, Posters 61-130

Tuesday, September 29

- 8:30-18:00 Mid-conference field trip to the Cervene blato wetland in South Bohemia (peatland that is the site of several published biogeochemical studies) and a visit to Cesky Krumlov Castle (a medieveal city with a Renaissance chateau that is listed in UNESCO World Heritage). Trip returns at 18:00.

Wednesday, September 30

SESSION 7. 8:30-12:00 - Linking Peatland Carbon to Carbon Models: The Next Steps

Organizer: Steve Frolking (steve.frolking@unh.edu)

- 8:30 *Frolking, Steve*, Nigel Roulet & David Lawrence.* Issues related to incorporating northern peatlands into global climate models.
- 9:00 *Wania, Rita*, Ian Ross & I. Colin Prentice.* Introducing northern peatlands into a terrestrial carbon cycle model.
- 9:30 *McGuire, David.* Meeting challenges in modeling carbon-climate feedbacks of northern high latitude terrestrial ecosystems (presented by Jennifer Harden).
- 10:00 Break
- 10:30 *Baird, Andy*, Lisa R. Belyea & Paul J. Morris.* Known unknowns? The problem of spatial variability when representing peatlands in linked land surface schemes (LSS) – global climate models (GCMs).
- 11:00 *Lawrence, David*, Sean Swenson & Andrew G. Slater* Modeling permafrost, wetlands, and the carbon cycle in an Earth System Model.

11:45 Synthesis and discussion.

SESSION 8. 13:30-16:00 - *Group Discussion of Production of the Next Generation of Research*

Organizers: Juul Limpens and Christian Blodau (juul.limpens@wur.nl and christian.blodau@uni-bayreuth.de)

13:30 *Limpens, Juul & Christian Blodau.*

Overview and instructions.

13:45 Group discussions

15:15 Synthesis

15:30 Break

Session 9. 16:00-18:00 - *Reaching the Outside: A Discussion of Roles in Global Carbon for the Peatland Research Community.*

Organizers: Nigel Roulet and Kelman Wieder (nigel.roulet@magill.ca and kelman.wieder@villanova.edu)

16:00 *Roulet, Nigel & Kelman Wieder.* Discussion.