

**SYNTHESIS PLANNING WORKSHOP: Looking Ahead to 2019**
**Thursday and Friday, 29-30 October 2015**

*Arrival Wednesday Afternoon/Evening, 28 October; Conclusion 3:00 pm Friday, 30 October*

University of Rhode Island, W. Alton Jones Campus

Whispering Pines Conference Center, 401 Victory Highway, West Greenwich, RI, 02817 USA

<http://web.uri.edu/wpinescc/>

**AGENDA, PARTICIPANT LIST, CONTACT INFORMATION, AND LOGISTICS**

See the Workshop Group page for all documents:

<https://deepcarbon.net/group/dco-synthesis-planning-workshop-group>

**Wednesday, 28 October**


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**Afternoon – Evening**      **Arrival and Check-In** *Sycamore Lodge*  
 Transportation from Boston (BOS) or Providence (PVD) airport or Providence or Kingston, Rhode Island, train station will be arranged for participants

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**6:00 pm**      **Dinner** *Whispering Pines Lodge Dining Room (reception beginning at 5:30 pm)*  
 Light supper available for late arrivals

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**7:00-11:00 pm**      **Evening Discussions** *Sycamore Lodge*

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**Thursday, 29 October**


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**7:00 am**      **Meetings with Presenters and Technical Setup** *Whispering Pines Lodge*

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**8:00–8:45 am**      **Breakfast** *Whispering Pines Lodge Dining Room*

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**9:00–9:15 am**      **Welcome** *Sycamore Lodge Conference Room (note: for all workshop sessions)*  
*Marie Edmonds, DCO Task Force 2019, University of Cambridge, and Sunshine Menezes, DCO Engagement Team, University of Rhode Island*  
 Workshop scientific and engagement goals and charge to participants

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**9:15–10:15 am**      **Translating DCO Goals into Legacies**  
*Robert Hazen, DCO Secretariat, Carnegie Institution of Washington*  
 As an inspiration and reference point for DCO’s synthesis effort, Hazen will outline plans (books, television productions, etc.) for his own activities, setting the stage for subsequent workshop discussions.

*Jesse Ausubel, Alfred P. Sloan Foundation*

Summary of the Sloan Foundation’s goals and expectations for DCO’s legacies as well as Community-based and program-wide synthesis.

*Sara Hickox, DCO Engagement Team, University of Rhode Island*

Identifying, prioritizing, and engaging key audiences for DCO synthesis products and activities on a global scale.

*Marie Edmonds, DCO Task Force 2019, University of Cambridge*

Summary of important storylines for DCO’s research program and suggested chapter or special issue themes to introduce the overall scope of the DCO research program.

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**10:15–10:30 am Break**

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**DCO Synthesis Presentations and Panel Discussions**

*(Moderated by Sunshine Menezes and Marie Edmonds)*

Each panel will present input from their own perspectives and those generated from a pre-workshop survey conducted by the DCO Engagement Team focused on major scientific findings, discoveries, and insights DCO scientists believe will be ready to share in 2019. A moderated discussion will follow each presentation.

**10:30–11:15 am Reservoirs and Fluxes Presentation and Panel Discussion**

*Liz Cottrell, Smithsonian Institution*

*Marie Edmonds, University of Cambridge*

*Taryn Lopez, University of Alaska*

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**11:15 am–Noon Extreme Physics and Chemistry Presentation and Panel Discussion**

*Valerio Cerantola, Bayerisches Geoinstitut*

*Jackie Li, University of Michigan*

*Afu Lin, University of Texas*

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**Noon–1:00 pm Lunch** *Whispering Pines Lodge Dining Room*

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**1:15–2:00 pm Deep Life Synthesis Presentation and Panel Discussion**

*Verena Heuer, MARUM-Bremen*

*Tom Kieft, New Mexico Tech*

*Karen Lloyd, University of Tennessee*

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**2:00–2:45 pm Deep Energy Synthesis Presentation and Panel Discussion**

*Dave Cole, The Ohio State University*

*Benedicte Menez, Institut de Physique du Globe de Paris*

*Peter Barry, University of Oxford*

*Shuhei Ono, Massachusetts Institute of Technology (Friday only)*

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**2:45–3:00 pm Ongoing Data Science Activities and Synthesis Opportunities**

*Patrick West, DCO Data Science Team, Rensselaer Polytechnic Institute*

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**3:00–3:15 pm Exploring the DCO Website**

*Patrick West, DCO Data Science Team, Rensselaer Polytechnic Institute*

*Josh Wood, DCO Engagement Team, University of Rhode Island*

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**3:15–3:45 pm Break**

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**3:45–5:30 pm Group Discussion: Identifying DCO Synthesis Outcomes**

*(Moderators Marie Edmonds and Sunshine Menezes)*

All participants will discuss opportunities for synthesis initiatives and ways to incorporate stories stemming from DCO research into 2019 planning.

Questions to address:

- Which proposed chapter themes show the most potential for a “Carbon in Earth II” volume? Which topics for open access special journal issues show promise? What could be the thematic thrust of a lead article or cluster of articles in 2019 in *Science* or *Nature* (open access)?
  - How might cross-Community or program-wide coordination strengthen proposed ideas? How can we capitalize on DCO-supported instruments, analyses from DCO’s extensive sampling efforts, and/or data input or output from DCO’s modeling framework for synthesis initiatives?
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**6:00 pm**      **Dinner** *Whispering Pines Lodge Dining Room (reception beginning at 5:30 pm)*

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**8:00–9:00 pm**      **Informal Discussion: History of Science and Pioneers in the Field of Deep Carbon Science** *Whispering Pines Lodge (Simon Mitton and Simon Redfern, University of Cambridge; Introduced by Marine Edmonds)*

**9:00–11:00 pm**      **Informal Discussions Continue Around a Bonfire**

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**Friday, 30 October**

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**8:00–8:45 am**      **Breakfast** *Whispering Pines Lodge Dining Room*

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**9:00–10:00 am**      **Panel Discussion: Engagement Perspectives** *Sycamore Lodge (Moderated by Darlene Crist, Bigelow Laboratory for Ocean Sciences and member of the Census of Marine Life Synthesis Group)*  
Reflections on engagement opportunities for deep carbon science discoveries and findings  
*Jason Orfanon, Smithsonian Institution*  
*Simon Redfern, University of Cambridge*  
*Steven Soter, American Museum of Natural History*  
*Michael Starobin, NASA Goddard Spaceflight Center*

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**10:00–10:15 am**      **Break** *(checkout by 10:00 am; convenient luggage storage available)*

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**10:15–11:15 am**      **Group Discussion: DCO-Wide Synthesis Outcomes** *(Moderated by Marie Edmonds and Sunshine Menezes)*

- Identify opportunities for Community-based or program-wide synthesis products or activities
- Which program-wide products and activities show potential as flagship components of DCO's synthesis portfolio? Which should be prioritized?

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**11:15 am–Noon**      **Group Discussion: Funding and Logistics** *(Moderated by Jesse Ausubel)*

- Potential sources of funding for DCO-wide synthesis products/activities
- Possible individuals or teams responsible for program-wide synthesis products/activities
- Planning ahead for the 3<sup>rd</sup> International Science Meeting in St. Andrews Scotland in 2017 hosted by Sami Mikhail, University of St. Andrews
- Nature, venue, and dates for DCO 2019 finale event(s)

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**Noon–1:00 pm**      **Lunch** *Whispering Pines Lodge Dining Room*

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**1:15–2:45 pm**      **Implementing DCO Synthesis Efforts** *(Moderated by Jesse Ausubel and Craig Schiffries, DCO Secretariat, Carnegie Institution of Washington)*

- Specific charge to the DCO Task Force 2019: the synthesis oversight committee
- Overview of the Task Force 2019 Charter
- Functional strategies to accomplish synthesis objectives

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**2:45–3:00 pm**      **Concluding Remarks**  
*Marie Edmonds and Sunshine Menezes*  
Transportation to Boston or Providence airport or Providence or Kingston, Rhode Island train station will be arranged for participants traveling by train or plane

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## Workshop Participant List

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Jesse Ausubel	Rockefeller University/Alfred P. Sloan Foundation
Frank Baker	University of Rhode Island
Peter Barry	University of Oxford
Valerio Cerantola	Bayerisches Geoinstitut
Dave Cole	The Ohio State University
Liz Cottrell	Smithsonian Institution
Darlene Crist	Bigelow Laboratory for Ocean Sciences
Steven D'Hondt	University of Rhode Island
Marie Edmonds	University of Cambridge
Bob Hazen	Carnegie Institution of Washington
Verena Heuer	MARUM-Bremen
Sara Hickox	University of Rhode Island
Tom Kieft	New Mexico Institute of Mining and Technology
Afu Lin	University of Texas
Jackie Li	University of Michigan
Karen Lloyd	University of Tennessee
Taryn Lopez	University of Alaska
Jenn Mays	Carnegie Institution of Washington
Benedicte Menez	Institut de Physique du Globe de Paris
Sunshine Menezes	University of Rhode Island
Sami Mikhail	University of St. Andrews
Simon Mitton	University of Cambridge
Paula Olsiewski	Alfred P. Sloan Foundation
Shuhei Ono	Massachusetts Institute of Technology
Jason Orfanon	Smithsonian Institution
Katie Pratt	University of Rhode Island
Simon Redfern	University of Cambridge
Craig Schiffries	Carnegie Institution of Washington
Steven Soter	American Museum of Natural History
Michael Starobin	1AU Global Media and NASA
Patrick West	Rensselaer Polytechnic Institute
Josh Wood	University of Rhode Island

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## Workshop Contact Information

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Contact information for the Engagement Team during the Workshop, or if your office or family members need to reach you in an emergency:

- Sunshine Menezes (+1 401-573-1783 mobile), [sunshine@uri.edu](mailto:sunshine@uri.edu)
  - Katie Pratt (+1 401-536-8813 mobile), [katie\\_pratt@uri.edu](mailto:katie_pratt@uri.edu)
  - Sara Hickox (+1 401-465-1265 mobile), [sara@uri.edu](mailto:sara@uri.edu)
  - Sarah Flickinger (+1 802-373-7890 mobile), [sarahflickinger@my.uri.edu](mailto:sarahflickinger@my.uri.edu)
  - Whispering Pines Conference Center (401-874-8100, main office number)  
<http://web.uri.edu/wpinescc/>
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## Workshop Logistics Summary

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For a full logistics memo, see • Dress for the entire workshop is casual and informal; bring a warm jacket as late October can be cool in RI

- A light supper will be provided for anyone arriving later than 6 pm on Wednesday, 28 October
  - All participants will be given a single occupancy room booking at the Whispering Pines Conference Center
  - Directions for those driving their own vehicles can be found at <http://web.uri.edu/wpinescc/directions/>
  - The conference center has open wireless internet access throughout the facility
  - If you are traveling from abroad, remember to bring adapters for US 110 outlets
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