



AmeriFlux Annual Principal Investigators Meeting May 4–5, 2014, Bolger Center, Potomac MD

Sunday, May 4, 2014 All Rooms are in The Osgood Building

Time	Activity	Speaker/Leader	Room	Title
16:00	Registration	2 nd Floor, outside SGH, Room 200 (16:00-19:00pm)		
17:00	Dinner	Dining Room		
19:00	Welcome	Peter Curtis & David Hollinger	SGH	Orientation to the breakout sessions, including hand drawn posters
19:15	Breakouts			
	<i>World café</i>	Peter Curtis	111	Careers in Flux: Exploring Pathways & Tools for Success in “Fluxnet Science”
	<i>Discussion</i>	Sebastian Wolf & Dennis Baldocchi	300	Data synthesis: making the whole more than the sum of the parts
	<i>Discussion</i>	Jim Tang	400	Belowground processes and their linkage with aboveground eddy fluxes

Monday, May 5, 2014 All Rooms are in The Osgood Building

Time	Activity	Speaker/Leader	Room	Title
07:00	Registration	2 nd Floor, outside SGH, Room 200 (7:00-9:00)		
08:00	Breakfast			
	<i>Poster Mounting</i>		SGH	<i>Mount posters any time before 16:00</i>
08:00	Welcome	Peter Curtis & David Hollinger	SGH	Orientation & Announcements
08:05	DOE welcome	Gary Geernaert	SGH	Climate and Environmental Sciences Division: Strategic Planning & Executing the Plan
08:10	DOE updates	Dan Stover & Mike Kuperberg	SGH	TES: Overview for AmeriFlux
08:20	Introduction	Margaret Torn	SGH	AmeriFlux Management Project Welcome
08:35	Invited talk	Dennis Baldocchi	SGH	Exhortation for more synthesis activities
08:45	Invited talk	Deborah Huntzinger	SGH	Using observational data to evaluate global terrestrial biospheric models: challenges and opportunities?
09:20	Coffee Break			
09:40	Presentations	Adrien Finzi	SGH	Utility and vision for coupling belowground carbon dynamics to eddy-covariance measurements of ecosystem CO ₂ exchange with the atmosphere



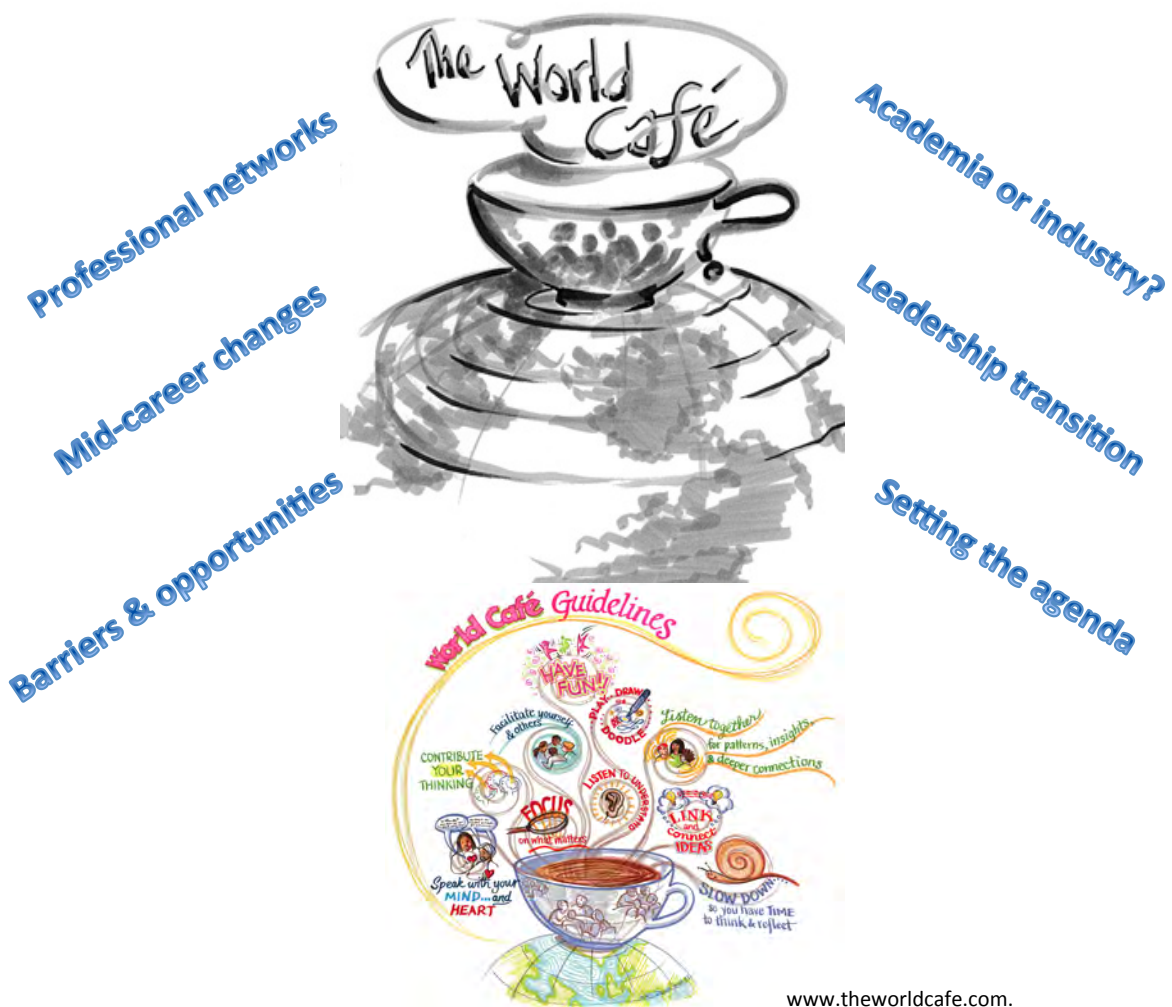
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Time	Activity	Speaker/Leader	Room	Title
	<i>Presentations (continued)</i>	Sebastian Wolf	SGH	Synthesis of the 2012 U.S. drought: impact on ecosystem fluxes and implications for the future
		Fred Huemmrich	SGH	Using optical signals to determine carbon fluxes
		Ankur Desai	SGH	How do we make AmeriFlux useful for ecosystem models?
		Jingfeng Xiao	SGH	Assessing uncertainty of ecosystem models using AmeriFlux observations
10:25	Break and move			
10:45	Breakouts			
	<i>Discussion</i>	Ben Bond-Lamberty	400	Better ways to deal with and share data
	<i>Discussion</i>	Lianhong Gu & Bev Law	111	Extreme events, climate variability and ecosystem functions
	<i>Discussion</i>	Russ Scott	300	Eddy covariance practices and instrumentation—new advances, insights, and preserving the utility of long-term flux records
11:45	Lunch			<i>“To-go” lunch boxes available at the Dining Room</i>
12:30	UAV demo I	Jonathan Dandois	field	
13:00	UAV demo II	Jonathan Dandois	111	
13:40	Invited talk	Scott Ollinger	SGH	A look at NEON from the inside out
14:15	Break and move			
14:30	Breakouts			
	<i>Discussion</i>	Margaret Torn	400	The Next Big Thing in carbon cycle science
	<i>Discussion</i>	Kim Novick	300	Site- and network-level priorities for the collection and synthesis of biometric data
	<i>Discussion</i>	Fred Huemmrich	111	Flux and optical sensing: emerging data products
15:30	Breakout reports	Dave Hollinger	SGH	
16:10	Poster session, vendors, and dinner		SGH, Dining Room	
18:00	Working Dinner		SGH	Featured speaker & panel on New Initiatives in Carbon Cycle Science

Careers in Flux

Exploring pathways and tools for success in “fluxnet science”

An Invitation to a World Café Conversation for
Scientists at all Career Stages
Sunday, 7:15 pm, room 111





Sunday, May 4, 2014

...AND MORE EVENING BREAKOUTS!

Data synthesis: making the whole more than the sum of the parts—
led by Sebastian Wolf and Dennis Baldocchi
Room 300, Osgood Building

As the AmeriFlux Network grows and its duration extends in time, many topics are emerging that merit synthesis across sites. Past syntheses used short and less diverse datasets, and yet discovered new science on the roles of disturbance, land use change, albedo, phenology and length of growing season on carbon and water fluxes and the use of network data to validate and parameterize models and for spatial upscaling. This theme's discussion will be about projects that are ready for analysis/synthesis, like drought synthesis (ongoing) and sources of interannual variability and trends. We will solicit ideas of how to work together on the most important science projects achievable. And we will discuss how to take synthesis from ideas to execution.

Belowground processes and their linkage with aboveground eddy fluxes—
led by Jim Tang
Room 400, Osgood Building

Belowground soil carbon stocks, fluxes, and root activities play a major role in the overall carbon cycle of terrestrial ecosystems. Integrating eddy covariance with measurements of belowground carbon processes will yield substantial improvements to process-level representations of the carbon cycle in ecosystem and Earth system models and achieve AmeriFlux strategic goals that cannot be completed by eddy covariance fluxes alone. Important belowground carbon cycle parameters include bulk soil and fraction carbon stocks, soil respiration, litterfall and estimates of total belowground C flux (TBCF), root biomass and dynamics, bulk soil and fraction, radiocarbon measurements, microbial biomass and community composition, and other belowground parameters. Recognizing that the lack of community-accessible belowground carbon datasets for the majority of sites within AmeriFlux could hinder development of broader insights of the carbon cycle and its responses to future change, we call for assembling of existing belowground data and collection of new data across the AmeriFlux sites using coordinated protocols and instrumentation to facilitate cross-site modeling and synthesis for understanding complete ecosystem-level C budgets.



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List of Participants

P=Poster, S=Speaker, B=Breakout leader, O= Organizer, AMP=AmeriFlux Management Project team, Core=Associated with AmeriFlux Core Site Cluster

Deb Agarwal
daagarwal@lbl.gov
LBNL
AMP,P

John Baker
jrbaker@umn.edu
USDA-ARS
Core

Dennis Baldocchi
baldocchi@berkeley.edu
UC Berkeley
AMP,Core,S

Joel Biederman
joel.biederman.ua@gmail.com
USDA-ARS
P

Dave Billesbach
dbillesbach1@unl.edu
AmeriFlux QA/QC lab and U Nebraska
AMP

Sebastien Biraud
SCBiraud@lbl.gov
LBNL - AmeriFlux QA/QC Tech Team Lead
AMP,P

Peter Blanken
blanken@colorado.edu
University of Colorado
Core

Tom Boden
bodenta@ornl.gov
Carbon Dioxide Information Analysis Center
AMP

Ben Bond-Lamberty
bondlamberty@pnnl.gov
PNNL/UMD

David Bowling
david.bowling@utah.edu
University of Utah
Core

Nate Brunsell
brunsell@ku.edu
University of Kansas
Core

Sean Burns
sean.burns@colorado.edu
University of Colorado
Core

Stephen Chan
swchan@lbl.gov
Lawrence Berkeley National Lab
AMP

David Cook
drcook@anl.gov
Argonne National Laboratory

Bob Cook
cookrb@ornl.gov
Oak Ridge National Laboratory

Peter Curtis
curtis.7@osu.edu
Ohio State University
O,Core

Jonathan Dandois
jdando1@umbc.edu
U Maryland
S

Eric Davidson
edavidson@whrc.org
Woods Hole Research Center

Kenneth Davis
Kjd10@psu.edu
Penn State Univ
P

Ankur Desai
desai@aos.wisc.edu
University of Wisconsin, Madison
Core,S

Adrien Finzi
afinzi@bu.edu
Boston University
S



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Renato Frasson
frasson.1@osu.edu
The Ohio State University
P

Ellen Goodrich-Stuart
goodrichstej@vcu.edu
Virginia Commonwealth University
P

Chris Gough
cmgough@vcu.edu
Virginia Commonwealth University
Core

Robin Graham
grahamrl@anl.gov
Argonne National Laboratory

Tim Griffis
timgriffis@umn.edu
University of Minnesota
Core

Lianhong Gu
lianhong-gu@ornl.gov
Oak Ridge National Laboratory
P

David Hollinger
davidh@unh.edu
USDA Forest Service / U New Hampshire
O

Rachel Hollowgrass
rhollowgrass@lbl.gov
Berkeley Lab
AMP

Jason Hubbart
hubbartj@missouri.edu
University of Missouri

Fred Huemmrich
karl.f.huemmrich@nasa.gov
UMBC
S

Deborah Huntzinger
deborah.huntzinger@nau.edu
Northern Arizona University
S

Sara Knox
saraknox@berkeley.edu
UC Berkeley
P

James Kathilankal
james.kathilankal@licor.com
LI-COR Biosciences

Bev Law
bev.law@oregonstate.edu
Oregon State University
Core

Marcy Litvak
mlitvak@unm.edu
University of New Mexico
Core

Stefan Metzger
smetzger@neoninc.org
National Ecological Observatory Network
P

Timothy Morin
morin.37@osu.edu
The Ohio State University
P

J William Munger
jwmunger@seas.harvard.edu
Harvard SEAS
Core, P

Asko Noormets
anoorme@ncsu.edu
North Carolina State University
Core, P

Kim Novick
knovick@indiana.edu
Indiana University
Core

Tom O'Halloran
tohalloran@sbc.edu
Sweet Briar College
P

Scott Ollinger
sollinger@neoninc.org
NEON, Inc.

Jessica Osuna
osuna2@lnl.gov
Lawrence Livermore National Laboratory



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Steve Pallardy
Pallardys@missouri.edu
University of Missouri

Dario Papale
darpap@unitus.it
ICOS ETC - Viterbo Italy
AMP

Gilberto Pastorello
gzpastorello@lbl.gov
LBNL
AMP

Cristina Poindexter
cmpoindexter@lbl.gov
LBNL
AMP

Daniel Ricciuto
ricciutodm@ornl.gov
ORNL
P

Marilyn Saarni
mesaarni@lbl.gov
LBNL
AMP

Crystal Schaaf
crystal.schaaf@umb.edu
University of Massachusetts Boston
P

Cynthia Scheuermann
scheuermancm@vcu.edu
Virginia Commonwealth University
P

Amy Schmid
avs3h@virginia.edu
Virginia Commonwealth University

Christopher Schwalm
christopher.schwalm@nau.edu
Northern Arizona University

Russ Scott
russ.scott@ars.usda.gov
USDA-ARS
Core

Julie Shoemaker
jshoemak@fas.harvard.edu
Harvard University

Paul Stoy
paul.stoy@gmail.com
Montana State University

Andy Suyker
asuyker@unl.edu
University of Nebraska

Jim Tang
jtang@mbl.edu
MBL Ecosystems Center
B,P

Jonathan Thom
jthom@ssec.wisc.edu
U Wisconsin Madison
Core

Margaret Torn
mstorn@lbl.gov
Lawrence Berkeley National Laboratory
AMP,S,P

Sebastian Wolf
sewolf@berkeley.edu
University of California, Berkeley
S,B

Jingfeng Xiao
j.xiao@unh.edu
University of New Hampshire
S

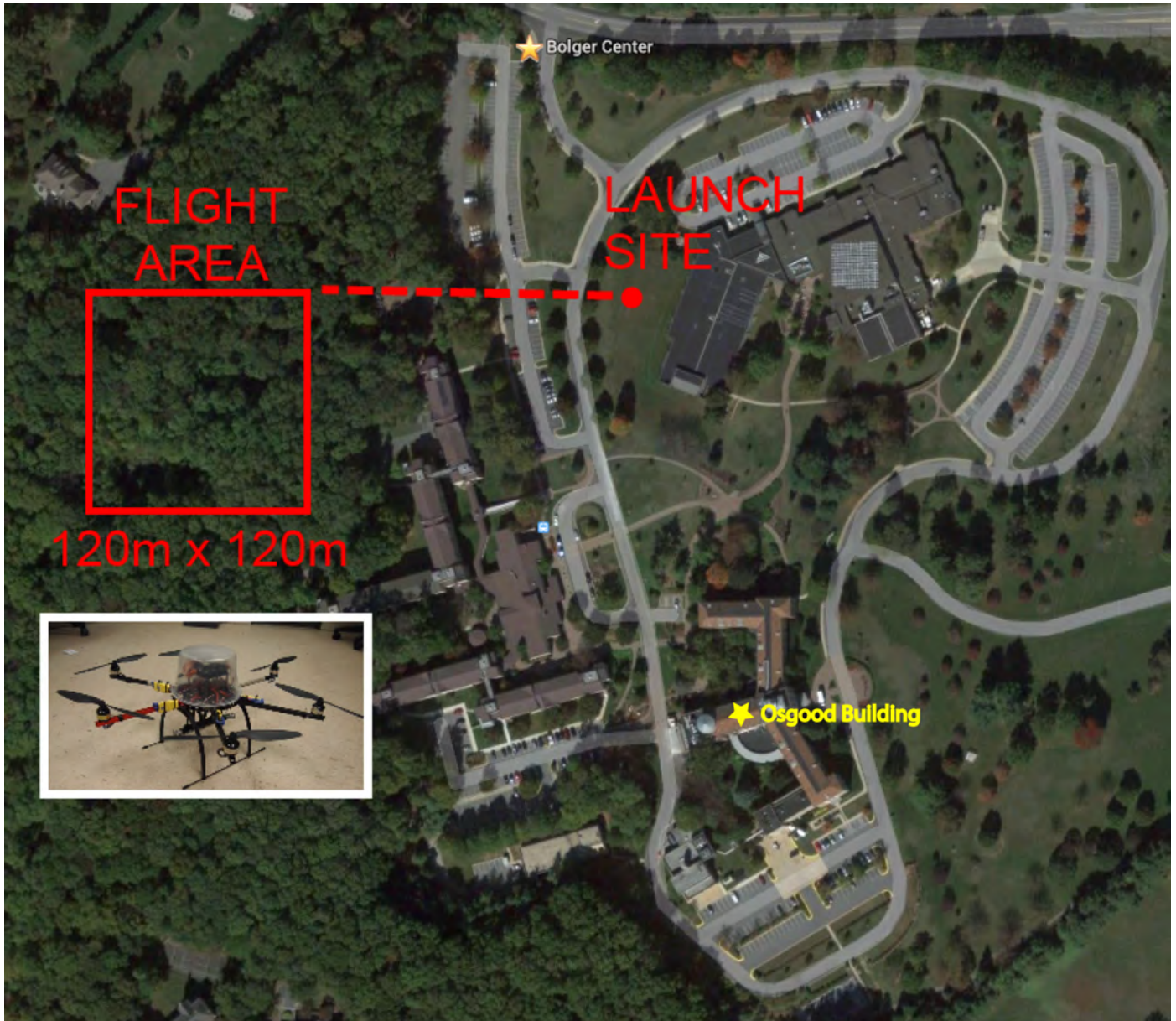
Liukang Xu
liukang.xu@licor.com
LI-COR Biosciences

Bai Yang
yangb@ornl.gov
Oak Ridge National Laboratory
P

Monday, May 5, 2014

UAV Demo at 12:30pm!

Here's the map to the Demo. Should be about a 5-minute walk from the Osgood Building, where the meeting is.



Jonathan Dandois is providing a flight demonstration and discussion of the techniques and research that make up his dissertation on 3D-spectral remote sensing of vegetation using UAVs and computer vision. He is a PhD candidate at UMBC in Baltimore MD. In September he starts a post-doc with Helene Muller-Landau at the Smithsonian Tropical Research Institute in Panama to use this technology to track the phenology of tropical forest trees.