

NSF EarthCube Domain End-User Workshop: Engaging the Atmospheric Cloud/Aerosol/Composition Community

Mason Inn Conference Center

Fairfax, VA

October 21-22, 2013

Monday, October 21, 2013		08:00 - 17:00
Registration		Junior Prefunction
Monday, October 21, 2013		9:00 – 12:10
Opening ceremony & Plenary Session Chair: Liping Di (George Mason University)		Location: JuniorBallroom
09:00-09:15	Opening Ceremony & welcome address <ul style="list-style-type: none"> • Prof. Vikas Chandhoke, Vice President for Research, George Mason University 	
09:15-9:50	Dr. Steve Ghan (Pacific Northwest National Laboratory) Science Challenges in Cloud-Aerosol Interactions	
9:50-10:30	Drs. J.F. Lamarque and S. Madronich (NCAR Atmospheric Chemistry Division) Observing and Modeling Atmospheric Composition: Data Challenges	
	Coffee break (10:30-10:50)	
10:30-11:15	Dr. Jorgen B. Jensen (NCAR Earth Observation Center) Accessing aerosol - cloud - atmospheric sciences data: A user's view of capabilities, limitations and the future	
11:15-11:55	Dr. Chris Mattmann (Jet Propulsion Laboratory) Opportunities and Strategies for Big Data, Open Source Software in the Geosciences	
11:55-12:00	Briefing on workshop schedule	
12:00-13:00	Lunch Buffet provided to all participants (Location: Boxwood)	
13:00-13:30	Dr. Barbara Ransom (National Science Foundation)	

	NSF EarthCube End-User Workshop: Clouds and Aerosols
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Monday, October 21, 2013	13:30-14:40
<p>Concurrent breakout discussion session 1.1</p> <p>Scientific challenges for next 10-15 years in cloud and related areas</p> <p>Convener: Athanasios Nenes (Georgia Tech)</p>	Location: Ballroom C
<p>Concurrent breakout discussion session 1.2</p> <p>Scientific challenges for next 10-15 years in aerosol and related areas</p> <p>Convener: Dr. Jorgen B. Jensen (UCAR)</p>	Location: Meeting room 2
<p>Concurrent Breakout discussion session 1.3</p> <p>Scientific challenges for next 10-15 years in atmospheric chemistry/composition and related areas</p> <p>Convener: Akua Asa-Awuku (UC-Riverside)</p>	Location: Meeting room 3
<p>Concurrent Breakout discussion session 1.4</p> <p>Scientific challenges for next 10-15 years in inter-disciplinary atmospheric research</p> <p>Convener: Xiaoqing Wu (Iowa State)</p>	Location: Meeting room 4
Monday, October 21, 2013	14:40- 15:00
<p>Brief reports on breakout session discoveries (each breakout session conveners give 5 minutes briefing)</p> <p>Chair: Athanasios Nenes</p>	Location: Junior Ballroom
Coffee break (15:00-15:30)	
Monday, October 21, 2013	15:30-16:40
<p>Concurrent breakout discussion session 2.1</p> <p>Data & cyber-infrastructure constraints in cloud and related areas</p> <p>Convener: Athanasios Nenes (Georgia Tech)</p>	Location: Ballroom C
<p>Concurrent breakout discussion session 2.2</p>	Location: Meeting room 2

Data & cyber-infrastructure constraints in aerosol and related areas Convener: Jorgen B. Jensen (UCAR)	
Concurrent Breakout discussion session 2.3 Data & cyber-infrastructure constraints in atmospheric chemistry/composition and related areas Convener: Stefan Falke	Location: Meeting room 3
Concurrent Breakout discussion session 2.4 Data & cyber-infrastructure constraints in inter-disciplinary atmospheric research Convener: Xiaoqing Wu (Iowa State)	Location: Meeting room 4
Monday Oct 21, 2013	16:40 -17:00
Brief reports on breakout session discoveries (each breakout session conveners give 5 minutes briefing) Chair: Akua Asa-Awuku (UC-Riverside)	Location: Junior Ballroom

18:00-20:00 Dinner buffet provided to participants staying overnight at Mason Inn (Boxwood)

Tuesday, October 22, 2013	08:30 - 15:00
Registration	Junior Prefunction
Tuesday, October 22, 2013	09:00-10:10
Concurrent breakout discussion session 3.1 Existing community data and cyberinfrastructure resources in cloud and related areas Convener: Gilberto Vicente (NASA Goddard Space Flight Center)	Location: Ballroom C
Concurrent breakout discussion session 3.2 Existing community data and cyberinfrastructure resources in aerosol and related areas Convener: Rudolf Husar (Washington University)	Location: Meeting room 2
Concurrent Breakout discussion session 3.3 Existing community data and cyberinfrastructure resources in atmospheric chemistry/composition and related areas Co-Conveners: : Akua Asa-Awuku (UC-Riverside) , Meixia Deng (George Mason University)	Location: Meeting room 3
Concurrent Breakout discussion session 3.4 Existing community data and cyberinfrastructure resources in inter-disciplinary atmospheric research Convener: Hook Hua (JPL)	Location: Meeting room 4
Tuesday, October 22, 2013	10:10 -10:30
Brief reports on breakout session discoveries (each breakout session conveners give 5 minutes briefing) Chair: Liping Di (GMU)	Location: Junior Ballroom
Coffee break (10:30-11:00)	
Tuesday, October 22, 2013	11:00-12:00
Concurrent breakout discussion session 4.1	Location: Ballroom C

<p>Capability and function requirements on EarthCube in Cloud and related areas</p> <p>Convener: Gilberto Vicente (NASA Goddard Space Flight Center)</p>	
<p>Concurrent breakout discussion session 4.2</p> <p>Capability and function requirements on EarthCube in Aerosol and related areas</p> <p>Convener: Rudolf Husar (Washington University)</p>	Location: Meeting room 2
<p>Concurrent Breakout discussion session 4.3</p> <p>Capability and function requirements on EarthCube in Atmospheric chemistry/composition and related areas</p> <p>Convener: Meixia Deng (George Mason University)</p>	Location: Meeting room 3
<p>Concurrent Breakout discussion session 4.4</p> <p>Capability and function requirements on EarthCube in inter-disciplinary atmospheric research</p> <p>Convener: Hook Hua (JPL)</p>	Location: Meeting room 4
Tuesday Oct 22, 2013	12:00 -12:20
<p>Brief reports on breakout session discoveries (each breakout session conveners give 5 minutes briefing)</p> <p>Chair: Hook Hua (JPL)</p>	Location: Junior Ballroom

12:30-13:30 Lunch Buffer provided to all participants (Location: Boxwood)

Tuesday, October 22, 2013	13:30-14:30
<p>Concurrent breakout discussion session 5.1</p> <p>EarthCube use case development in Cloud and related areas</p> <p>Co-Conveners: Athanasios Nenes (Georgia Tech), Gilberto Vicente (NASA Goddard Space Flight Center)</p>	Location: Ballroom C
<p>Concurrent breakout discussion session 5.2</p> <p>EarthCube use case development in Aerosol and related areas</p> <p>Co-Conveners: Jorgen B. Jensen (UCAR), Rudolf Husar (Washington University)</p>	Location: Meeting room 2

Concurrent Breakout discussion session 5.3 EarthCube use case development in Atmospheric chemistry/composition and related areas Co-Conveners: Meixia Deng (George Mason University)	Location: Meeting room 3
Concurrent Breakout discussion session 5.4 EarthCube use case development in inter-disciplinary atmospheric research Co-Conveners: Xiaoqing Wu (Iowa State), Hook Hua (JPL)	Location: Meeting room 4
Tuesday Oct 22, 2013	14:30 -15:00
Prof. Joel Cutcher-Gershenfeld (University of Illinois, Urbana-Champaign) Stakeholder Alignment for EarthCube: Presentation for Atmospheric Clouds and Aerosols Composition Workshop	Location: Junior Ballroom
Coffee break (15:00-15:30)	
Tuesday, October 22, 2013	15:30- 16:30
Brief reports on breakout session discoveries (each breakout session conveners give ~5 minutes briefing) Chair: Liping Di (GMU)	Location: Junior Ballroom
Closing Remark Clifford Jacobs, NSF	Location: Junior Ballroom
Summary of workshop, Synthesis and Outline of Next Steps Liping Di, Athanasios Nenes	Location: Junior Ballroom

18:00-20:00 Dinner buffet provided to participants staying overnight at Mason Inn (Boxwood)