

AGU Chapman Conference
Post-wildfire Runoff and Erosion Response
Schedule of Talks and Posters: 25-31 August 2013

updated: 30 July 2013

Day	Time	Speaker	Title of Presentation
		Invited Talk	
		Contributed Talk	
Day 1	Morning		
26 August	0750-0820	General Welcome Meeting	<i>Teddy's Teeth Room Ground Floor Ramshorn Lodge</i>
Monday	0820-1300		Field Trip: Local Post-wildfire Response Domains
Day 1	Afternoon	Topic #1: Post-wildfire Response Domains	
Monday	1300-1340	Set up Posters	Lily Lake Room Ramshorn Lodge
	1340-1400	Deborah Martin US Geological Survey	
	1400-1420	Sue Cannon US Geological Survey	Hydro-geomorphic Responses to Wildfire in southern California
	1420-1440	Grant Meyer University of New Mexico	Postfire response domains and the relative Importance of post-wildfire erosion in the USA Rocky Mountains
	1440-1500	Ann Youberg Arizona Geological Survey	Hydrologic and geomorphic responses of burned basins in the southwestern U.S.
	1500-1540	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1540-1600	Uldis Silins University of Alberta	High latitude post-fire response domains: Boreal, Tiaga, and Arctic
	1600-1620	Dave Scott University of British Columbia	The hydrologic and erosion response to wildfire in humid watersheds in the winter and summer rainfall regime areas of South Africa
	1620-1640	Tom Veblen University of Colorado	Post-wildfire response domains in the Patagonian-Andean region of Chile and Argentina
	1640-1700	Susana Bautista University of Alicante	The Mediterranean domain: the land of fire recurrence
	1700-1800	OPEN	
	1800-1930	Group Dinner in Walnut Room	
	1830-1900	Plenary Speaker Rick Shakesby Swansea University	Twenty-five years of wildfire experience and questioning "established truths"

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Day 2	Morning	Topic #2: Precipitation	
27 August	0750-0800		<i>Teddy's Teeth Room Ground Floor Ramshorn Lodge</i>
Tuesday	0800-0840	Deborah Martin US Geological Survey	Summary session for Topic #1 Post-wildfire Resposn Domains
	0840-0900	Brian Ebel University of Colorado	What's the Difference: A Novel Method For Connecting Precipitation and Infiltration
	0900-0920	Gabriel Sidman University of Arizona	The effects of varying rainfall representations of post- fire runoff resonse in the KINEROS2/AGWA model
	0920-1000	Dave Gochis National Center for Atmospheric Research	Factors leading to heavy precipitation during the warm season in complex terrain
	1000-1040	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1040-1120	David Dunkerley Monash University	How do the spatial scale and temporal patterns of precipitation influence hydrologic response?
	1120-1200	Ana Barros Duke University	On the Space-Time Organization of Precipitation and Hydrologic Response in Mountainous Regions - Examining Opportunities for Improving the Predictability of Post-wildfire Floods and Debris Flows
Day 2	Afternoon		
	1200-1800	Field trip: National Center for Atmosphic Research--Wildfire Models driven by the Atmosphere--Janice Coen	
	1800-1930	Dinner	Aspen Dining Hall

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Day 3	Morning	Topic #3: Infiltration	
28 August	0750-0800	Introduction	<i>Teddy's Teeth Room Ground Floor Ramshorn Lodge</i>
Wed- nesday	0800-0840	John Moody US Geological Survey	Summary session for Topic #2 Precipitation
	0840-0900	Cathelijne Stoof Cornell University	Can pore-clogging by ash explain post-fire runoff and erosion?
	0900-0920	Merche Bodí University of Valencia	Effects of Ash on infiltration
	0920-1000	Stefan Doerr Swansea University	Water repellency and soil hydraulic properties
	1000-1040	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1040-1100	Vicki Balfour University of Montana	The evolution of wildfire ash and implications for post-fire infiltration
	1100-1140	Karletta Chief University of Arizona	Change in soil structure and Hydraulic properties in a wooded-shrubland ecosystem following a prescribed fire
	1140-1220	Li Chen Desert Research Institute	Modeling post-wildfire rainfall-infiltration-runoff: current state, challenges, and some new approaches
	1220-1320	LUNCH	Aspen Dining Hall
	1320-1600	Measure soil hydraulic properties on site	
	1600-1700	Meeting of Young Career Scientists	
	1700-1800	OPEN	Meeting of Working Groups
	1800-1930	Dinner	Aspen Dining Hall

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Day 4	Morning	Topic #4: Runoff	
29 August	0750-0800	Introduction	<i>Teddy's Teeth Room Ground Floor Ramshorn Lodge</i>
Thursday	0800-0840	Rick Shakesby Swansea University	Summary session for Topic #3 Infiltration
	0840-0900	Joe Wagenbrenner US Forest Service	Changes in runoff following wildfire in eastern Arizona
	0900-0920	Kevin Hyde University of Montana	Vegetation as a first-order control on post-wildfire erosion: A cross-scale study integrating field and satellite data
	0920-1000	Jason Williams US Agriculture Research Ser.	Significance of connectivity and post-wildfire runoff
	1000-1040	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1040-1100	Ryan Bart San Diego State University	A mixed modeling approach for combining post-wildfire streamflow and erosion change results
	1100-1140	Dave Goodrich ARS Tucson, Arizona	Determining contributing area for post-wildfire runoff and how it changes with rainfall characteristics
	1140-1220	Sim Reany Durham University	Physical causes of rainfall threshold and connectivity for post-wildfire runoff
	1220-1320	LUNCH	Aspen Dining Hall
Day 4	Afternoon	Topic #5: Soil and Sediment Erosion and Transport--part 1	
29 August	1320-1340	Petter Nyman Melbourne University	Modeling wildfire effects on sediment availability on hillslopes
Thursday	1340-1400	Christoph Langhans Melbourne University	Modelling the distribution of sediment loads from post-wildfire debris flows in SE Australia
	1400-1420	René Van der Sant University of Melbourne	Wildfires are the key to unlocking sediment stored in channels
	1420-1500	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1500-1520	Cristina Santin Swansea University	The organic component in post-wildfire sediments: Erodibility, transport and implications for the global carbon cycle

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	1520-1600	Dennis Staley US Geological Survey	Characterizing the primary material sources and dominant erosional processes for post-wildfire debris-flow initiation in a headwater basin using multi-temporal terrestrial laser scanning data
	1600-1700	OPEN	Meeting of Working Groups
	1700-1800	OPEN	Meeting of Working Groups
	1800-1930	Dinner	Aspen Dining Hall

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Day 5	Morning	Topic #5: Soil and Sediment Erosion and Transport--part 2	
30 August	0750-0800	Introduction	<i>Teddy's Teeth Room Ground Floor Ramshorn Lodge</i>
Friday	0800-0840	Pete Robichaud US Forest Service	Summary session for Topic #4 Runoff
	0840-0920	Gary Sheridan Melbourne University	Post-wildfire soil erodibility
	0920-1000	Jason Kean US Geological Survey	How does post-wildfire runoff become a debris flow? Insights from observations and modeling of debris-flow surge initiation, magnitude, and frequency
	1000-1040	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1040-1100	Naama Tessler University of Haifa	Changes in flow characteristics in burnt areas after forest management
	1100-1140	Peter Jordan BC Ministry of Forest	Post-wildfire debris flows in southern British Columbia
	1140-1220	Roman DiBiase Calif. Institute of Technology	Quantifying sediment storage by vegetation in steep bedrock landscapes: Implications for post-wildfire sediment yield
	1220-1320	LUNCH	Aspen Dining Hall
	1320-1400	Erkan Istanbuluoglu University of Washington	Modeling post-wildfire sediment supply
	1400-1500	POSTER BREAK	Lily Lake Room Ramshorn Lodge
	1500-1520		Take down posters
	1520-1600	Sue Cannon US Geological Survey	Summary session for Topic #5 Soil and Sediment Erosion and Transport

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	1600-1700	OPEN	Meeting of Working Groups
	1700-1800	OPEN	Meeting of Working Groups
	1800-1930	Banquet in Walnut Room	
	1830-1900	Banquet Speaker Pete Robichaud US Forest Service	What cool ideas I learned this week that could be incorporated into post-wildfire models
	1900-1930	Awards	
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Day 6 Morning
31 August
Saturday

Departures

and

possible

post-conference

field trips

INVITED POSTERS

Artemi Cerdà
University of Valencia

Long-term monitoring of infiltration rates during post-wildfire period in eastern Spain

Antonio Ferreira
ESAC, Coimbra, Portugal

How do plantation forests change post-wildfire runoff and erosion

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		Charlie Luce US Forest Service	Scaling of post-wildfire debris flows: Relationships to aquatic ecology and atmospheric processes
		Lee MacDonald Colorado State University	Causes of post-wildfire runoff and surface erosion: What we know and what should we do?
		Lea Wittenberg University of Haifa	Modeling short and long term water repellency effects on post-wildfire infiltration and runoff

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CONTRIBUTED POSTERS

Jordan Adams Tulane University	Synthesizing terrestrial LiDAR and rainfall-runoff models to explore sediment transport controls in a burned watershed in Arizona, USA
Garrett Altmann University of Alaska, Fairbanks	Surface water dynamics of shallow lakes following wildfire in Alaska's boreal forests
Erica Bigio University of Arizona	The variability in historic fire regimes over the late Holocene for a site in the southwestern Colorado, USA
Daniel Brogan Colorado State University	Erosion, deposition, and stream channel response after the 2012 High Park Fire
Charles Ichoku National Atmospheric and Space Agency	Biomass burning in northern sub-Saharan Africa and its potential impact on surface water dynamics
Dan Malkinson University of Haifa	An idealized model of plant and soil dynamics
Randy McKinley US Geological Survey	Wildfire burn severity assessments from satellite data: A review of available products and user considerations
Mary Ellen Miller Michigan Tech.	Rapid response tools and datasets for post-fire erosion modeling: Lessons learned from the Rock House and High Park Fires

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		Caitlin Orem University of Arizona	Using airborne and terrestrial LiDAR to quantify and monitor post-fire erosion following the Las Conchas fire, Jemez Mountains, New Mexico
		Sandra Ryan US Forest Service	Tracking post-wild fire changes in instream sedimentation, channel dynamics, and large wood loading
		Francis Rengers University of Colorado	Monitoring the Spatial Distribution of Wildfire Erosion Processes
		7	
		Karin Riley University of Montana	Drivers of debris-laden flow volume: the role of fire severity and basin topography
		Sarah Schmeer Colorado State University	Post-wildfire erosion response and recovery, High Park fire, Colorado
		Scott Shahverdian Colorado State University	Mechanisms and controls on post-High Park fire sediment delivery in the South Fork Cache la Poudre Basin: Preliminary Results
		Brian Sheppard University of Arizona	Effect of wildland fire on runoff and erosion in semi-arid rangelands
		Rose Shillito Desert Research Institute	Hydrophobicity following wildfire on an arid, alluvial soil
		Gabriel Sidman University of Arizona	Modeling the effect of fuel treatments on post-wildfire runoff and erosion: A case study at Zion National Park
		Victoria Stempniewicz Northern Arizona University	Use of sediment derived paleoflood records to analyze prehistoric depositional characteristics of a fire-susceptible forested watershed
		Micheal Stone University of Waterloo	Biological modification of sediment transport processes in wildfire impacted river systems
		Diana Vieira University of Aveiro	Strengths and weaknesses of the revised Morgan-Morgan-Finney model in predicting post-wildfire erosion

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		Pete Wohlgenuth US Forest Service	Hillslope erosion and small watershed sediment yield before and after a wildfire in southern California
		Dave Young US Forest Service	Erosion and sedimentation in the 2012 Bagley fire, eastern Klamath Mountains, northern California, USA
		Ahmed Zegrar University of Oran	Analysis of forest fires impact in semi-arid zones and identification of desertification process in Algeria

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DEMO POSTERS

Bill Elliot US Forest Service	Using fire and erosion tools to predict wildfire risk and sediment yield
Brian Sheppard University of Arizona	Automated geospatial watershed assessment tool (AGWA): Developing model parameters using precipitation and runoff records from gauged watersheds
Gabriel Sidman University of Arizona	Automated geospatial watershed assessment tool (AGWA) Computer demonstration of applications for fire management and rapid post-fire watershed assessment

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