

ASP Summer Colloquium 2017 (June 4-16), NCAR
The Interaction of Precipitation with Orography (IPRO)
AGENDA

Mornings will be in the Fleischmann Building (FB), Afternoons in the Damon Room (DR) and occasionally in the Mesa Lab Main Seminar Room (ML)

Sunday, 4 June			Location
5:00 pm	Icebreaker and Welcome <i>Rich Neale and Val Sloan (NCAR)</i>	Williams Village North (in Lobby)	
5:30 pm	Dinner at WVC Dining Hall	Williams Village Center	
6:30 pm <i>Talks</i>	Rich Neale	Overview of Colloquium and Goals	
	Tim Barnes	The History of NCAR	
7:45 pm	Rich Neale	Final Remarks <i>Return to dorms</i>	
Monday, 5 June			Location
8:30 am	Rich Neale (NCAR)	Welcome and Logistics	FB
8:45 am	Jim Hurrell (NCAR director)	NCAR welcome	FB
9:15 am	Rich Neale (NCAR)	IPRO: Overview of precipitation and orography: Observations, modeling and impacts	FB
10:15 am	<i>Break</i>		
10:45 am	Andrew Newman (NCAR)	Producing observational precipitation datasets over orography in the US	FB

11:45 am	<i>Lunch</i>	<i>Including small weather trail hike</i>	
1:30 pm	Kelly Mahoney (NOAA)	Extreme Precipitation and Severe Weather in the Front Range	FB
2:30 pm	<u>Project time</u> Cecile Hannay (NCAR) Michael Duda (NCAR)	The Community Earth System Model (CESM) The Weather Research and Forecasting Model (WRF)	FB/DR
3:15 pm	<i>Break</i>		
3:45pm	<u>Project time</u> Rory Kelly (CISL)	<i>Establishing local and supercomputing work environments for projects</i>	DR
5:00 pm	<i>Adjourn</i>		
Tuesday, 6 June			Location
8:30 am	Angie Pendergrass (NCAR)	Global Precipitation Statistics	FB
9:30 am	Brian Mapes (U. Miami)	North American Monsoon Experiment (NAME)	FB
10:30 am	<i>Break</i>		
11:00 am	Nicholas Siler (U Washington)	Orographic Rain Shadows	FB
12:00 pm	<i>Lunch (opportunity to chat with speakers)</i>		
1:00 pm	<i>Meet for short hike</i>		
1:30 pm	<u>Project time:</u> <i>Running CESM and setting up case studies</i>		DR
3:30 pm	<i>Break</i>		
5:00 pm	<i>Adjourn</i>		

Wednesday, 7 June			Location
8:30 am	Kristen Rasmussen (Colo. State)	Tropical Rainfall Measuring Mission (TRMM) over terrain	FB
9:30 am	Mitch Moncrieff	Year of the Maritime Continent (YMC)	FB
10:30 am	<i>Break</i>		
11:00 am	<i>NCAR hike</i>	Val, Rich and Rebecca	
12:30 pm	<i>Lunch</i>		
1:30 pm	<i>Project time: Running WRF case study</i>		DR
3:30pm	<i>Break</i>		
5:00 pm	<i>Adjourn</i>		
Thursday, 8 June			Location
8:30 am	David Lawrence (NCAR)	Land surface modeling and precipitation in orographic regimes	FB
9:30 am	Dave Gochis (NCAR)	WRF Hydro over high US terrain	FB
10:30 am	<i>Break</i>		
11:00 am	Jennifer Neale (Denver Botanic Gardens)	The influence of precipitation on Colorado's rare plants	FB
12:00 pm	<i>Lunch</i>		
1:00 pm	<i>Afternoon Trip to Denver Botanic Gardens</i>		
2:00 pm	<i>Guided tour of gardens</i>		

3:00 pm	<i>Free Time</i>		
4:00 pm	<i>Return to Boulder</i>		
Friday, 9 June			Location
8:30 am	Peter Lauritzen (NCAR)	Representation of topography in dynamical cores	FB
9:30 am	Joe Tribbia (NCAR)	Seasonal prediction over orographic regions	FB
10:30 am	<i>Break</i>		
11:00 am	Katja Friedrich (U. Colorado)	Study of Convective and Orographic Precipitation (SCOOP)	FB
12:00 pm	<i>Lunch</i>		
1:30 pm	<u>Project time:</u> <i>Analyzing precipitation datasets</i>		DR
2:30 pm	<i>Break</i>		ML
3:00 pm	<i><u>Lightning Talks:</u> : Flash talks by students on their research: 2 slides limit. One slide as an overview of your research and/or research plans. One slide on your research activities in the last 2 weeks. 3 minutes /student!</i>		ML
5:00 pm	<i>Adjourn</i>		
Saturday, 10 June			
Excursion to Mountain Research Station and Nederland			
8:00 am	Pick-up from Williams Village		
9:00 - 12:00	Visit Mountain Research station with optional hike		
12:00 - 3:00	Visit Nederland for lunch (on your own)		
4:00 pm	Drop-off at Williams Village		

Sunday, 11 June			
<i>Day off</i>			
Monday, 12 June			Location
Session Theme: Parameterization of processes, and relevance to CESM and WRF			
8:30 am	Hugh Morrison (NCAR)	Microphysical cloud process	FB
9:30 am	Julio Bacmeister (NCAR)	Orography, surface drag and precipitation	FB
10:30 am	<i>Break</i>		
11:00 am	Gunilla Svenson (Stockholm Univ.)	Atmospheric boundary layer processes and parameterization	FB
12:00 pm	<i>Lunch - opportunity to chat with speakers and other scientists</i>		
1:30 pm	<u>Project time</u> : Study choice, WRF, CESM or observations		DR
3:15 pm	<i>Break - coffee and outside time</i>		
3:45 pm	<u>Project time</u> : Study choice, WRF, CESM or observations		DR
5:00 pm	<i>Adjourn</i>		
Tuesday, 13 June			Location
Session Theme: Orography precipitation modeling and paradigms			
8:30 am	Ethan Gutmann (NCAR)	Simplified Models of Orographic Precipitation	FB
9:30 am	Roy Rasmussen (NCAR)	Colorado Headwaters high resolution climate simulations including comparisons to SNOTEL data	FB
10:30 am	<i>Break - coffee and outside time</i>		

11:00 am	Bill Boos (Yale)	How topography creates strong monsoons: Elevated heating and orographic insulation	FB
12:00 am	<i>Lunch</i>		
1:00 pm	<i>Meet for weather trail walk</i>		
1:30 pm	<u>Project time: Study choice, WRF, CESM observations</u>		DR
3:30 pm	<i>Break</i>		
5:00 pm	<i>Adjourn and Bus to Millennium Hotel</i>		Millennium Hotel, Boulder
5:30 pm	<i>Evening working reception (Millennium): Professional development talk (<u>Scott Struck, Senior Environmental Scientist, Geosyntec Consultants</u>)</i>		
6:00 pm	<i>Arrive at Millennium Hotel</i>		
6:30 pm	<i>Talk by Scott Struck</i>		
8:30 pm	<i>Dinner (with cash bar)</i> <i>Bus to Williams Village</i>		
Wednesday, 14 June			Location
Session Theme: Regional scale interactions			
8:30 am	Round Table Discussion: Diverse Career Paths and Recent Activities: A discussion with scientists: Marika Holland (NCAR), Non Rosenbloom (NCAR), Eric Towler (NCAR), Jan Lenaerts (U. Utrecht/CU)		FB
9:30 am	Bart Geerts (U. Wyoming)	New perspectives on orographic precipitation: mountain-scale dynamic and microphysical processes	FB
10:30 am	<i>Break</i>		
11:00 am	Cliff Mass (U. Washington)	Evaluation of Numerical Weather Prediction Skill over Orography	FB
12:00 pm	<i>Lunch</i>		

1:30 pm	<u>Project time: Study choice, WRF, CESM observations</u>		DR
3:30 pm	<i>Break</i>		
5:00 pm	<i>Adjourn</i>		
Thursday, 15 June			Location
Session Theme: Orographic Precipitation and Climate Change			
8:30 am	Dale Durran (U. Washington)	Future changes in extreme precipitation: why mountains are different	FB
9:30 am	Jan Lenaerts (U. Utrecht)	Orographic precipitation and climate at high latitudes	FB
10:30 am	<i>Break</i>		
11:00 am	Ben Sanderson (NCAR)	Multi-model representations of precipitation change over land	FB
12:00 pm	<i>Lunch</i>		
1:30 pm	<u>Project time: Study choice, WRF, CESM observations</u>		DR
3:30 pm	<i>Break</i>		
5:00 pm	<i>Adjourn</i>		
Friday, 16 June			Location
Session Theme: Project Summaries			
8:30 am	<i>Project talk preparation time</i>		FB
9:00 am	<u>Valerie Sloan/Rebecca Hacker</u> How to give a good talk How to include the colloquium in your CV or résumé (bring laptop) Workshop on preparing your talk (bring laptop)		FB

10:30 am	<i>Break</i>		
10:45 am	<i>Project Talk preparation time</i>		FB
12:30 pm	<i>Lunch</i>		
1:30 pm	<i>Student project presentations (approx 10 min per student)</i>		FB
3:00 pm	<i>Break</i>		
3:30 pm	<i>Student project presentations continued</i>		FB
4:30 pm	<i>Colloquium Wrap Up</i>		FB
5:00 pm	<i>Adjourn</i>		