

FAR WEST & MID-CONTINENT REGIONAL MEETING

August 24 - 25, 2021 **VIRTUAL**



Wildfire Technology Partnership Forum

Date	Start Time (EDT)	End Time (EDT)	Title	Description
8/24/2021	11:30 a.m.	11:40 a.m.	Welcome Regional Activities Introductions	The Far West and Mid-Continent Regional Coordinators, David Nicholson and John Eisemann, welcome you to the 2021 FLC FW/MC Regional Meeting and Joint Industry event. Opening remarks will be followed by a description of the event.
8/24/2021	11:40 a.m.	12:10 p.m.	Introduction to the Growing Problem of Wildfires	Federal laboratories are adjusting their priorities in response to changes in climatic and environmental conditions, which are creating wildfire risks. Various technologies are being developed to address this problem, such as fuel load abatement, material science to harden structures, fuel load and wildfire modeling technologies, and other fire-fighting tools and techniques.
8/24/2021	12:10 p.m.	12:30 p.m.	The Federal Technology Transfer Program	Overview of technology transfer and federal research resources
8/24/2021	12:30 p.m.	1:15 p.m.	Grid Monitoring and Protection	Part I: Unsupervised anomaly detection for identifying arcing hazards on power distribution systems Part II: Discovering wildfire impacts on solar photovoltaic (PV) systems and exploring mitigation strategies
8/24/2021	1:15 p.m.	1:30 p.m.	Break	
8/24/2021	1:30 p.m.	3:00 p.m.	Fire Mitigation and Control	Part I: Fuel reduction through use of gasifiers and conversion of biomass into packaging and soil amendments Part II: Mobile biomass processing and biopower unit - a cost-effective, scalable, and low-emissions complement to controlled burns Part III: Fire-retardant gels and fire-resistant building materials Part IV: Novel flame-retardant hybrid sulfur-polymer polyurethane block copolymer chemistry platform Part V: Super absorbent polymers for wildfire resistance applications: personal shelters and building materials
8/24/2021	3:00 p.m.	3:10 p.m.	Closing Remarks	

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8/25/2021	11:30 a.m.	11:35 a.m.	Day Two Welcome	
8/25/2021	11:35 a.m.	12:10 p.m.	Federal and State Government Resources and Private Resources	<p>Part I: Grants and other resources provided by federal and state agencies</p> <p>Part II: Overview of how economic developers can assist entrepreneurs and identify how entrepreneurial support networks can help foster a successful business</p> <p>Part III: Venture capital and private investment leveraging government research</p>
8/25/2021	12:10 p.m.	1:10 p.m.	Tools and Test Facilities	<p>Part I: Partners from industry and academia can utilize Sandia's Fire Science and Technology expertise, which includes designing and executing instrumented fire tests at large scales.</p> <p>Part II: Toolkit for evaluating the impact of various forest management and wildfire fuel treatment strategies on the carbon cycle</p> <p>Part III: Fuelcast.net: Providing weekly in-season projections of forage and fuel on U.S. rangelands</p> <p>Part IV: The Applied Research Center of the University of Hawaii has developed tools for disaster mitigation and monitoring, including technology addressing wildfire hazards.</p>
8/25/2021	1:10 p.m.	1:25 p.m.	Break	
8/25/2021	1:25 p.m.	2:25 p.m.	Awards Ceremony	
8/25/2021	2:25 p.m.	3:25 p.m.	Modeling and Prediction	<p>Part I: Watershed monitoring strategies for assessing wildfire impacts to surface and groundwater quality and landscape resilience, including rapid response capabilities</p> <p>Part II: Advanced vegetation dynamic modeling to project and evaluate trade-offs needed to optimize strategies for co-existing with wildfire under climate change</p> <p>Part III: Fire simulation for predicting wildland response: high flux forest fire scenario for assessing relative model accuracy for Computational Fluid Dynamics (CFD) tools</p> <p>Part IV: NOAA's newest Global Ensemble Forecast System reforecast dataset and its application for wildfire prediction</p>
8/25/2021	3:25 p.m.	3:30 p.m.	Closing Remarks	