

INTERNATIONAL ASSOCIATION OF WILDLAND FIRE

Fire & Climate

MAY 23-27 2022

All times listed in Pacific daylight time (PDT) - Pasadena, CA

Poster Presentation

Ignite Talk

Networking and Social

Monday, May 23				
11:00-1:00	REGISTRATION AND WELCOME GATHERING Everyone is invited and welcome; including first time attendees, mentor/mentees, and early comers. We will provide a light grab & go lunch menu.			
---- CONFERENCE BEGINS ----				
1:00 - 1:30	WELCOME AND OPENING REMARKS Joaquin Ramirez, Ph.D., IAWF President and Founder of Technosylva Inc.			
1:30-2:00	KEYNOTE SESSION Climate change impacts on wildfire and solutions for management and policy Patrick Gonzalez, Ph.D., Assistant Director for Climate and Biodiversity, White House Office of Science and Technology Policy Associate Adjunct Professor, University of California, Berkeley			
2:00-2:30	KEYNOTE SESSION The rise of wildfire disasters in the 21st century: what have we learned? Crystal A. Kolden, Ph.D., Assistant Professor of Fire Science Management of Complex Systems, College of Engineering, University of California, Merced			
2:30-3:00	KEYNOTE SESSION A NASA perspective: Global to local connections between fire, weather, and climate Amber J. Soja, Ph.D., Research Fellow, IAWF Board of Directors, National Institute of Aerospace (NIA), NASA Langley Research Center			
3:00-4:00	Networking break with sponsors and exhibitors			
4:00-5:00	KEYNOTE PANEL Climate Policy Moderator: Toddi Steelman, Ph.D., Stanback Dean of the Nicholas School of the Environment at Duke University Kelly Martin, CoFounder/President, Grassroots Wildland Firefighters; Chief, Fire and Aviation (ret.) Yosemite National Park Bryan Petit, Senior Professional Staff member, US Senate Committee on Energy and Natural Resources Carol Baldwin, Ph.D., PI and Project Coordinator, Great Plains Fire Science Exchange and Extension professional, Kansas State University			
5:00- 7:00	Networking Social with Sponsors and Exhibitors			
Tuesday, May 24				
6:45 - 7:30	Fun Run			
8:00 - 8:30	Networking with sponsors and exhibitors			
8:30 - 10:00	OPENING REMARKS & KEYNOTE SESSION Indigenous Carbon Brenden Mercer, First Nations Emergency Services Forest Management Liaison AND Partnerships in Fire Management: Supporting Indigenous Leadership in Cultural Burning Panel Panelists TBD			
10:00 -10:30	Networking break with sponsors and exhibitors			
	Fire Management and Response	Climate and Fire Weather	Fire Ecology	Engagement Dialogue Session
10:30-10:35	Mitigating Wildfire Risk with Expanded, Strategic Fuels Management Kristy Swartz	Interaction of wildfire and warming climate threatens the persistence of montane sky island forests across southern California Sarah Hennessy	How landscape connectivity influences fire size as a function of fire weather conditions Andrea Duane	
10:35-10:55	Implementation of firefighting operations according to the severity of wildfires Aurora Ferrer Palomino	Climate teleconnections modulate global burned area Adrián Cardil	Lessons from the Bootleg fire: a recipe for frequent-fire forest restoration Craig Bienz	
10:55-11:15	Useful and usable: Measures to gauge incident management effectiveness Jay Balagna	Wildfires and climate change in the UK – an emerging challenge for public health Andrew Kibble	Investigating trends in the diurnal cycle of fire activity using geostationary satellite observations of fire radiative power Elizabeth Wiggins	
11:15-11:35	Identifying, reframing and implementing wildfire knowledge via spatial planning Constanza Gonzalez-Mathiesen	Persistent positive anomalies in geopotential heights promote wildfires in western North America Aseem Sharma	Quantifying Burned Area from Agricultural and Prescribed Fires in the Central and Southeastern U.S. Emily Gargulinski	
11:35-11:55	Policy Momentum and the Management of Wildland Fires George Busenberg	Characterizing historic changes in near-surface atmospheric stability Brian E Potter	Effects of climate change on resilience of fire prone eucalypt communities Harriet Simpson-Southward	

11:55-12:15	Assessing wildland fire suppression capacity on individual large fires Erin Belval	Canada's 2021 Wildfire Smoke and Health communications Celine Audette	Ecological drivers of fuel structure in forests and woodlands of Eastern Australia derived using space-borne LiDAR Kathryn Fuller	
12:15-12:35	Adapting FBAN Technical Units to the actual wildfire scenario, the UTAF Andalusia (Spain) case study Francisco Senra-Rivero	Accessing & Using Decision-Ready Climate Information with GIS Chris Ferner	Quantifying the effect of live fuel moisture content on wildfire occurrence and area Krishna Rao	
12:35-1:30	Lunch (provided)			
	Indigenous Knowledge, Fire and Climate	Climate and Fire Weather	Infrastructure, Resilience and Fire	Carbon Cycle and Greenhouse Gas Emissions
1:30-1:50		Current Trends in US Fire Occurrence and ERC Christopher Moran	The state of environmental justice studies in the human dimensions of wildfire literature Alyssa Thomas	Estimation of biomass consumption coefficient using the Fire Radiative Power of the VIIRS Active Fire Product. Patricia Oliva
1:50-2:10	Barriers to Indigenous-led fire stewardship in Canada Kira Hoffman	Pyrocumulonimbus and its Role in the Climate System: What is known and unknown? David Peterson	Perceptions of changing wildfire risk and management responses among forest landowners Paige Fischer	Impacts of Wildfire Emissions on Nitrogen Deposition in the U.S. Patrick Campbell
2:10-2:30	Indigenous leadership in wildfire management: lessons from Secwepemcú'ecw, British Columbia Sarah Dickson-Hoyle & Char John	Climate change increases risk of extreme rainfall following wildfire in the western United States Danielle Touma	Translating Science into Policy: Planning for Wildfire Resilience in California Beth Hotchkiss	Peat Fires and Climate Change: Modeling Greenhouse Gas Emissions in 2100 Raquel Hakes
2:30-2:50	Positive effects of the rediscovery of traditional practices of fire use in agropastoral Mediterranean contexts Salvatore Cabiddu & Antonio Pasquale Belloi	Climate Change Adaptation and Mitigation Strategy for Fire Management in the National Parks of Canada Gregg Walker	Grapes and Lungs on Fire: The Disparate Impacts of Wildfires on Undocumented Latino/a and Indigenous Migrant Workers in Sonoma County Carlo Chunga Pizarro	Implementation of Greenhouse Gas Benefit Quantification for a Variety of Forest Management Activities in a Statewide Program ShihMing Huang
2:50-3:10	Rural and Tribal Perceptions of the Health Risks of Wildfire Smoke in the Okanogan River Airshed Emphasis Area Leah Wood	Twentieth-century fire regime transitions in southeastern British Columbia: Relevance to future management and policy Jen Baron	Predicting smoke exposure tradeoffs among forest management scenarios in the central Sierra Nevada, California Claire Schollaert	Impacts to Greenhouse Gas Emissions and Fire Behavior following Fuel Treatments in California Forests Chris Dicus
3:10-3:30	IGNITE - Characterizing Rural and Tribal Community Perceptions of Prescribed Fire in the Okanogan River Airshed Emphasis Area Savannah D'Evelyn	Recent fire weather trends in Lake, Napa and eastern Sonoma Counties, California Jamie Lydersen	Getting our Heads around the New Fire Environment, Key Points for Managers to Know Dana Skelly	IGNITE - Current benefits of wildfire smoke for yields in the US Midwest may dissipate by 2050 Arnold Behrer
3:30-4:00	Networking break with sponsors and exhibitors			
	Fire Behavior	Climate and Fire Weather	Infrastructure, Resilience and Fire	Firefighter Health and Public Safety
4:00-4:20	Analysis of fire spread simulations for improved operational models Adrián Cardil	The effects of weather on the successful reinforcement of fuelbreaks across seasonal and topographic gradients Jesse Young	Perspectives on the Future of Wildland Fire Science: Designing a Trilateral Study Eric Kennedy	Bringing Mental Health to the Fire Line Drew Prochniak and Trey Doty
4:20-4:40	Mapping Wildfire Fuels using Deep Learning for High-fidelity Fire Spread Simulation Ertugrul Taciroglu	Landscape fire projections for boreal and Arctic Alaska: regional variation in climate-fire futures and implications for adaptation Jeremy Littell	FIRELOGUE - Cross-sector dialogue for Wildfire Risk Management David Martin	Mapping fire and firefighter visibility for improving situational awareness Katherine Mistick
4:40-4:45	The role of shaded fuel breaks on landscape-scale restoration and community protection Ana Barros	Weather and Antecedent Climate Impacts on Santa Ana Wind Fires Jon Keeley	The relative influence of experience with wildfire and societal beliefs on Californians' support for wildfire risk mitigation strategies Alex Howe	Community Risk Reduction of the WUI: Steady - Ready - Extraordinary Vincent Anderson
4:45-4:50				Taking Better Care of Our Folks: Opportunities Presented by the Bipartisan Infrastructure Law L. Kaili McCray
4:50-4:55				Associations of heavy metal exposure and asthma/allergy status in firefighters with and without PFAS gear Olivia Kline
4:55-5:00				
5:00-5:15	Transition			
5:15-6:00	KEYNOTE SESSION Our Fiery Future – Situational Awareness for Systematic Change Dr. Natasha Stavros, Director of Earth Lab Analytics Hub, CIRES, University of Colorado Boulder Kate Dargan, Founder, Intterra; Former Asst Director for Natural Disasters, OSTP			
6:00-7:45	Sponsored Social			

7:45-10:00	Student and Early Career Social			
Wednesday, May 25				
8:00-8:30	Networking with sponsors and exhibitors			
8:30-9:15	OPENING REMARKS & KEYNOTE SESSION Trends in fire research and publications: the last 50 years Susan Conard, Ph.D., co Editor-in-Chief of International Journal of Wildland Fire, Affiliate Faculty position at George Mason University, USFS ret.			
9:15-9:45	Networking break with sponsors and exhibitors			
	Fire Management and Response	Science Communications and Outreach	Infrastructure, Resilience and Fire	Smoke Transport and Air Quality
9:45-9:50	Optimization of wildland fuel estimation techniques for improved assessment of fuel loads in Eastern US forest systems Julia Defeo	Wildland Fire Education, Training, and Experience: An Integrated Approach John Panches	Understanding Residents' Tradeoffs Between Fire Risk and Ecosystem Services Jose Sanchez	An Evaluation of Biomass Burning Plumes on the Vertical Distribution of Tropospheric Ozone Over the Midwestern United States Joseph Wilkins
9:50-9:55	Resource use under compounding threats: Assessing wildland fire suppression resource use during the COVID-19 pandemic Emily Wells		The Impact of Wildfires on Regional Economies: Evidence from Southern Europe Sarah Meier	Assessing Vertical Allocation of Wildfire Smoke Emissions using Observational Constraints from Airborne Lidar in the Western U.S. Xinxin Ye
9:55-10:15	Mega fires arrive in Europe: The Greek experience and AFF Response in 2021 Zisoula Ntasiou	Educating residents regarding living with wildfires, motivating volunteers to do mitigation work, and the challenges of wildfire recovery Paulette Church	Transforming the U.S. Federal Wildland Firefighting Workforce Jeff Rupert	Wildfire Particulate Deposition Investigation and Assessment in Buildings Amir Jokar
10:15-10:35	Creation of an App for mobile devices implementing a model for wildfire risk assessment: application to buildings located in Wildland-Urban Interface Franco Casula and Michele Chessa	Incendiary Rhetoric: Messaging Ecological Fire Management as a Solution to the Climate-Wildfire Crisis Timothy Ingalsbee	Putting fire in the people's hands: burn cooperatives and the good fire movement in California Ghaleb Attrache	Where There's Fire, There's Smoke: Examining Population Exposure to PM _{2.5} from Prescribed Burning in Northeastern Washington Ernesto Alvarado
10:35-10:55	Cornea: A machine learning system for real-time wildfire response at scale Jeremy Hirschhorn	Fire stories: A case for community-based communication Isabeau Ottolini	Improving landscape Resilience to Climate Change Induced Wildfire Impacts Jane Park	Fueled from below: Linking fire, fuels, and weather to unite ground- and satellite-based emissions estimates Amber Soja
10:55-11:15	Coping with Megafires in the age of Climate Change, Fire Management and Response James Marsh	Wildland Fire, Environmental Justice, and the Bipartisan Infrastructure Law Eric Werwa	Factors influencing community engagement in collective action: Diverse pathways for wildfire adaptation in Yavapai County, AZ Jack Burnett	Predicting the Flight Behavior of Single Smoldering Firebrand Particle: A Detailed Computational Fluid Dynamics Study Bikash Mahato
11:15-11:35	Critical Nature of Prompt Wildfire Detection along Power Lines and a System for Providing Same Jack McCall	Effective Communication about Wildfire Management in an Age of Climate Change: Observations from 20 years of engaging in fire social science research Sarah Mccaffrey	Adapting to Wildland Fire: Lessons from Rural Mediterranean Social Contexts Kathleen Uyttewaal	Measurements from inside a Thunderstorm Driven by Wildfire: The 2019 FIREX-AQ Field Experiment David Peterson
11:35-11:55	Leveraging Consumer Drones for Fire Behavior Monitoring: A Motion Imagery Approach Loren Russell	An anthology of wildfire narratives. Co-producing understandings of wildfire causes, solutions, and evidence. Michal Russo	Increasing Community Resilience to Wildfire: Wildfire Risk Reduction Buffers Kimberly Roberts	Rapid Wildfire Smoke Exposure Modeling Sean Raffuse
11:55-1:15	Lunch (on your own)			
	Fire Management and Response	Climate and Fire Weather	Infrastructure, Resilience and Fire	Smoke Transport and Air Quality
1:15-1:35	Wildfire data indices aid in decision making Chris Ferner	The range and drivers of fuel moisture variability in a heather moorland landscape: implications for climate-driven wildfire danger rating assessments Kerryn Little	Spanning boundaries for managing wildfire risk in the Western United States Heidi Huber-Stearns and Alison Deak	The 2019-2020 Australian Bushfires: A Comparison of Satellite-based Active Fire Data and Implications for Fire Monitoring and Emissions Estimation Fangjun Li
1:35-1:55	Towards enhanced emergency response capacities: empowering fire analysts and advisers through AFAN (Advanced Fire Analysis Network) Núria Prat	Methods for handling uncertainty in climate change projections in fire simulation modeling Karin Riley	An emerging framework for adapting to changing fire regimes: Reimagining science, management, and culture Molly Hunter	A New Model for Investigating the Effect of Subgrid Scale Turbulence on the Transport of Evolving Firebrands Iago Dal-Ri dos Santos
1:55-2:15	Use of fire safety engineering tools for fuel break design Nicholas Frangieh	Is Climate Fueling Increased Wildfire Variability in Barbados? Kirk Douglas	Legislative Efforts to Respond to Wildfire Disasters Meghan Housewright	Comparison of black carbon emission factors and optical properties from ground-based measurements of prescribed burn and wildland fire smoke in CA James Butler

2:15-2:20	Assessing the impacts of wildfire and thinning on Cedar River and Bull Run watersheds in the Pacific Northwest, USA Jason Baker	Biomass Burning, Precipitation and Vegetation Cover Feedbacks in Africa Osinachí Ajoku	Wildfire Moonshot: Using Breakthrough Technology from Google X To Predict Risk And Inform Fuels Management In The Wildland Urban Interface Robert Baird & Sarah Russell	Assimilation of fire observations in WRFx coupled fire-atmosphere forecasting system Adam Kochanski
2:20-2:25	Wildland Fire Services - It's Not Just for Rural California Anymore... And How to Pay For It John Bliss		Responding to Wildfires: The Human Perspective Sharie Lewis	A Comparison of Particulate Morphology of Wildland Fuels and Human-Made Fuels at the Wildland-Urban Interface Samuel Manzello
2:25-2:30	Initial Attack Assessment using Wildfire Analyst Tim Chavez		Increasing wildfire damage with decreasing home price in Southern California fires Erin Conlisk	Fire Weather Index's Predictive Power of Aerosol Pollution over Greece Anastasios Rovithakis
2:30-2:35	Wildfire management in southern Europe case study Alejandro García Hernández		Wildfire and Smoke Impacts and the Potential Remedy Peter Teensma	
2:35-2:40	Ground-based wildfire detection camera systems with integrated dispatch, operational management and communications - reducing risk in the field Gavin Hough	Megafires in a warming world: what wildfire risk factors led to California's largest recorded wildfire Kevin Varga	Mega Fire Prevention Technologies & SDG Impact Analysis - Chapter One - Brazilian Wetlands - Pantanal Osmar Bambini	The dynamics of prescribed burn smoke in NSW eucalypt forests Owen Price
2:40-2:45	Precise Location Insight for Bushfire Preparedness and Risk Mitigation Eva Kovacs	Forest fire probability under ENSO conditions in a semi-arid region: a case study in Guanajuato, México Camila Alcántara	Community Social Vulnerability and Wildfire Occurrence in the Pacific Northwest Caitlyn Reilley	
2:45-2:50	Mitigating Wildfire Risk with Expanded, Strategic Fuels Management Kristy Swartz	Fire-spotting modelling in changing climatic conditions Vera Egorova	Near-real-time Live and Dead Fuels Characterization: A Case Study for Infrastructure Resiliency to Wildfire in Southern California Holly Eagleston and Daniel Krofcheck	
3:00-3:30	Networking break with sponsors and exhibitors			
	Fire Management and Response	Fire Behavior	Infrastructure, Resilience and Fire	Firefighter Health and Public Safety
3:30-3:35	Preliminary Analysis and Results Exploring the Default Wildfire Suppression Hypothesis Stephen Fillmore	Heat Transfer Processes Controlling Ignition of Structural Elements by Embers Mackenzie Conkling	Challenges, successful strategies, and best practices in community wildfire mitigation among Firewise Sites of Excellence Rebecca Miller	On the Road to Fire Adaptation: Lessons from two Californian communities navigating fire preparedness and evacuation challenges Amanda Stasiewicz
3:35-3:40		An outbreak of pyroconvection during the catastrophic 2021 wildfires in Greece and its predictability Georgios Papavasileiou		
3:40-3:35		Effect of Fuel Moisture Content on Fire Behavior and Plume Dynamics Ritambhara Dubey		
3:45-3:50				
3:50-4:10	Whose interests are represented in the management of complex, interjurisdictional wildfires? Toddi Steelman and Branda Nowell	Firefighter Health and Public Safety	Large Outdoor Fires & the Built Environment Working Group Sponsored by the International Association for Fire Safety Science (IAFSS) Sara Mcallister	Soil-Borne Metal Toxin Released in Particulates During California Wildfires Alandra Lopez
4:10-4:30	Practical Benefits of Modelling Community Evacuation Performance From Wildfire Events Amanda Kimball	Assessment of biomarkers of effect in firefighting context: a review of the literature Bela Barros	Maintaining fire dependent Natural Communities with ecological burning in a changing world: 50 years of Rx Fire in the Florida Park Service (FPS). Sasha Ernst	Will What Occurred on June 30, 2013, Positively or Negatively Influence Firefighter Health and Safety? Joy A Collura
4:30-4:40	Transition			
4:40-5:40	KEYNOTE PANEL Communications/Media Panel Moderator: Marjie Brown Amanda Monthei, freelance writer and creator of Life with Fire Podcast Nathan Rott, NPR Elizabeth Weil, feature writer, New York Magazine Trip Jennings, Freelancer			

6:00-7:30	Poster Session			
Poster Presentations	A preliminary study on the role of collective action in community-based fire management in the Peruvian Andes Deisi Celino	Western Forbs: Biology, Ecology, and Use in Restoration Corey Gucker	Application of FOFEM to a Series of Prescribed Burns in Western Forest Guadalupe Lara	Forecasting Western US Wildfire Emissions Using Machine Learning Laura Thapa
	Analyzing Pyrocumulonimbus Lightning Activity in British Columbia Summer 2021 Elena Dworak	Projecting vegetation condition and wildfire at the wildland-urban interface in southern California, 2050 - 2100 Westin Guthrie	Infrastructure Resilience: The proactive use of ground applied long-term fire retardants Shayne McLaughlin	Drivers of lightning-ignition efficiency in California forests Ashwin Thomas
	Linking Forest Health, Wildfire Smoke, and Public Health Teresa Feo	Socio-economic and built-environmental risk factors of residential fires in Ohio: A census tracts analysis Md Rifat Hossain	Modeling Potential Brown Carbon Light Absorption Effect on Biomass Burning Plume Dynamics and Chemistry Soroush Neyestani	High spatial and temporal resolution census data reveals communities at risk along the wildland-urban interface Jessica Viner
	Seed production in serotinous species David Greene	Using Air Dispersion Modeling to Inform Incipient Wildfire Sensor Placement: A Case Study William Jones	From the ground up: Prototyping an improved LANDFIRE lifeform base product via improved state-of-the-art data preprocessing and modeling techniques Joshua Picotte	Systems Change in Complex Socio-Environmental Problems: Mitigating Health Burdens of Wildfire Smoke through a Cumulative Factors and Impacts Lens
	Assessing How Fuel Treatments are considered During Incident Response Michelle Greiner	Characterizing the ability of prescribed fire to reduce future wildfire smoke emissions in the Central Sierra, CA. Jihoon Jung	Percent changes in aerosol concentrations and optical properties over urban environment in South Asia Muhammad Zeeshan Shahid	Drought and Wildfire in a Changing Climate Kathryn Vinsonhaler
	Identifying a fire frequency tipping point in northern California chaparral Ashley Grupenhoff	Wildlands in the Expanded Field Greg Kochanowski	The September 2020 Wildfires over the Pacific Northwest John Saltenberger	The role of atmospheric dynamics and seasonality in determining human health impacts of wildland fire emissions Lynne Xu
	Land Tender: A collaborative, cloud-based decision support platform for resource management and wildfire mitigation Hugh Safford	New material opportunities for improved emergency fire shelter survivability Scott Eaton		
Thursday, May 26				
8:00 8:30	Networking with sponsors and exhibitors			
8:30 - 9:30	KEYNOTE SESSION Emerging Leaders Lindon Pronto, Senior Expert, European Forest Institute, Germany Kylie Paul, Crew Leader, Divisional/Group Supervisor and firefighter, South Africa Martha Sample, Research Associate, Center for Adaptable Western Landscapes, Northern Arizona University			
9:30-10:00	Networking break with sponsors and exhibitors			
	Fire Behavior	Climate and Fire Weather	Infrastructure, Resilience and Fire	Impact, Consequences, and Recovery
10:00-10:20	Generalized burning rate curve for porous fuel beds Sara Mcallister	Southeastern U.S. populations impacted by smoke: recent patterns and possible climate-driven changes Megan Johnson	Putting Fire on the Ground: Exploring Prescribed Burn Associations in California Spencer Klinefelter	Prioritization tools for post-fire restoration in Mediterranean-type ecosystems in California Hugh Safford
10:20-10:40	Investigating Conifer Tree Flame Spread Under an Applied Wind Field Sayaka Suzuki	The 2021 extreme wildfires in Greece: Lessons learned and implications for early warning of the potential for pyroconvective events Theodore Giannaros	Southern California Edison's Tools and Technologies for Effective Wildfire Mitigation Practices Tom Rolinski	Prioritizing Post-fire Restoration in Chaparral Shrublands in Southern California Emma Underwood
10:40-11:00	Methodology for Consistent Daily and Sub-Daily Mapping of Wildfire Growth for 2003-2020 and Beyond ShihMing Huang	Nighttime fire behavior and climate change – A new paradigm for wildland fire management Tim Brown	An Agent Based Modeling approach to understand household wildfire risks and costs Anthony Gardella	Post-fire recovery of chaparral shrublands in southern California Charlie Schrader-Patton
11:00-11:20	Predictability of the Dixie Fire's Extreme Fire Behavior Scott Purdy	Interpretable Model Captures Complex Relationship between Climate Variability and Fire Season Intensity in Maritime Southeast Asia William Daniels	Equity and Sustainability in Wildfire Prevention and Mitigation Planning: Representations in Californian Community Wildfire Protection Plans Kameko Washburn	Predicting the dynamics of fire-killed trees in the western Sierra Nevada, CA Tara Ursell
11:20-11:40	A Detailed Energy Balance Model for Predicting Temperature Evolution of Complex Shaped Smoldering Objects Saurabh Saxena	The air quality and climate impacts of wildfires in the southeastern United States under drought conditions Yongqiang Liu	Shared Stewardship on the ground: Case studies of cross-boundary forest management projects Tyler Aldworth	Remote Sensing Applications for Prescribed Fire: A Global Synthesis Anna Lopresti
11:40-12:00	Rothermel's model and the role of fuel bed structure Zakary Campbell-Lochrie	Climate change, wildfire, and wildlife: implications for fire risk and ecological resilience Katherine Palmquist	Identifying Healthcare Disparities during Wildfire Disasters among Children Natasha Gill	

12:00-1:30	Lunch (on your own)			
	Fire Behavior	Fire Ecology	Infrastructure, Resilience and Fire	Smoke Transport and Air Quality
1:30-1:50	The brand-new 'Balbi Model', a simplified physical propagation model, applied to different fuel types at field scale and laboratory scale François Joseph Chatelon	How Electromagnetic Field (EMF) Impacts on Plants May Exacerbate and/or Cause Wildfires; Interaction of Climate Change & EMF Effects Martin Pall	Confronting Climate Change with the Wrong Decision Framework for Wildland Fire Suppression: Neo-Liberal Theories in a Post-liberal World Van Miller	Emissions and air quality impacts of wildfire and prescribed burns in California Laura Kiely
1:50-2:10	Targeting the Lightning Most Likely to Cause Wildfires Chris Vagasky	A Rule of Thumb for Estimating Grassfire Rate of Spread Under Elevated Fire Danger Conditions Miguel Cruz	Poverty Alleviation through Integrated Fire Management: Creating Platform for Global Collaboration in Combating Unwanted Wildland Fires Trevor Abrahams	Plume Injection Heights Estimated From Doppler Weather Radar Observations Mansa Krishna
2:10-2:30	Forest Fuel Moisture and Size Effects on the Ignition Propensity of Wildland Fires by Hot Metal Fragments Christodoulos Xiouris	Assessing impacts of 2019-2020 bushfire on rare plants in Torrington State Conservation Area in northern NSW Nicholas Gellie	What can we learn from the single-family homes that survived the 2018 Camp Fire in Paradise, California? Yana Valachovic	Numerical study of a high intensity prescribed winter fire across Corsican Genista salzmannii vegetation Thierry Marcelli
2:30-2:50	Assessing WRF-Fire's Forecasting Skill on Large Wildfires Francis Turney	It's the fuels, my friend. How a long-term fuel monitoring program may shape our future burning Ron Steffens	Using LiDAR to refine mapping of the Wildland Urban Interface Zeke Lunder	Using observations of Western U.S. wildfire smoke to improve fire emissions in air quality forecasting models Megan Bela
2:50-3:10	Sensitivity Analysis of a Coupled Fire-Atmosphere Wildfire Simulation Platform: 2018 Camp Fire Case Study Kasra Shamsaei	Effect of forest fire on vegetation dynamics in tropical dry deciduous forests of Central India Satyam Verma	Retention in wildland firefighters Erin Belval	Using Air Pathways to Reduce Wildfire Smoke – A Community-Focused Approach. Richard Graw
3:10-3:15	Wind and geometry effects on smoldering of woody fuels Luca Carmignani	Grassland fires: a problem for the conservation of xerophytic scrub in the metropolitan area of Guanajuato, Guanajuato, Mexico Mariana Ayala Carrillo	Reforming wildfire mitigation laws to facilitate prescribed burning on private land Phillipa McCormack	Using PM 2.5 Observations to Verify HRRR-Smoke Forecasts during the 2020 Western U.S. Fire Season Samantha Iles
3:15-3:20		Spatiotemporal relationships of fire and forest cover change in Vietnam's Central Highlands: 2000-2020 Samuel Ebricht		
3:20-3:25		Characterizing Tree Attributes in Fire-Prone Forests Using Drone and Mobile Laser Scanning Point Clouds Yanqian Qi		
3:25-3:30		The Vegetation Transitioning by Wildfire in Northwest Canada Binyao Yang		
3:30-4:00	Networking break with sponsors and exhibitors			
	Fire Management and Response	Climate and Fire Weather	Firefighter Health and Public Safety	Smoke Transport and Air Quality
4:00-4:20	Communicating the art and science of fire spread prediction Andrew Sturgess	Long-term climate change impacts on fire occurrence in California Michael Billmire	Skin contamination with polycyclic aromatic hydrocarbons after firefighting and rates of dermic permeability: a literature review Marta Oliveira	Combustion Gas Quantification and Plume Temperature Calculation Using Thermal Infrared Multispectral Imaging Jean-Philippe Gagnon
4:20-4:40	Over the Hills and Through the Woods: A Social Network Analysis of Prescribed Burn Implementation in Oklahoma and North Carolina Aaron Russell	A forest fire forecasting system to strengthen decision-making in South America Blanca Violeta Ponce Vigo	Safe Separation Distance Evaluator (SSDE): A new online mapping tool for assessing firefighter safety zone suitability Mickey Campbell	Accounting for total carbon emitted from a boreal forest wildfire using airborne observations Katherine Hayden
4:40-5:00	Fire Retardant Evolves to Address Challenges from More Intense Wildfire Seasons Edward Goldberg	A global problem, needing global change Rick Mcrae		Public Health Impact of Prescribed Fire (PHIRE) Study - Baseline and Projected Prescribed Fire Smoke Exposures in California Samantha Kramer
5:00-5:10	Transition			
5:10-5:40	Closing Session: TBD Closing Wrap Up Session			
	Friday, May 27			
9:00-4:00	Angeles National Forest and Griffith Observatory Field Trip			