

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					
11:00-12:30	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 ---					
12:45 - 1:30	WELCOME AND OPENING REMARKS Joaquin Ramirez, Ph.D., IAWF President and Founder of Technosylva Inc. Jessica Morse, Deputy Secretary for Forest and Wildland Resilience, California Natural Resources Agency				
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 Sashi Sabaratnam, Wildfire Vegetation Mitigation Program Manager, University of California Cooperative Extension Sonoma County				
5:00- 7:00	Networking Social with Sponsors and Exhibitors				
Tuesday, May 24					
6:45 - 7:30	Fun Run/Walk				
8:00 - 8:30	Networking with sponsors and exhibitors				
8:30 - 10:00	OPENING REMARKS, FIREBREAK AWARD PRESENTATION & 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 Moderator: Carolyn A.F. Enquist, PhD, Interim Federal Director, Deputy Director, US Geological Survey, Southwest Climate Adaptation Science Center Panelists: Melinda Adams, PhD candidate, Native American Studies Department, UC Davis Carlie Domingues, PhD candidate, Native American Studies Department, UC Davis Nina Fontana, PhD, Postdoctoral Research Fellow, UC Davis and SW Climate Adaptation Science Center Deniss Martinez, PhD candidate, Graduate Group in Ecology, UC Davis				
10:00 -10:30	Networking break with sponsors and exhibitors				
	Ballroom F	Convention Center Room 208	Ballroom G	Ballroom E	Ballroom H
	Fire Management and Response	Climate and Fire Weather	Fire Ecology	Engagement Dialogue Session	Sponsor & Exhibitor Talks
	Moderators: Hamed Ebrahimi Logan Hansen	Moderators: Vincent Ambrosia Theodore Giannaros (v)	Moderators: Nancy French Kathryn Fuler	Moderators: Heather Heward Annie Meeder	
10:30-10:35	Mitigating Wildfire Risk with Expanded, Strategic Fuels Management Kristy Swartz	How climate change accelerates the carbon emissions from Arctic-boreal peatland fires? Xinyan Huang	How landscape connectivity influences fire size as a function of fire weather conditions Andrea Duane	Current Wildland Fire Issues: Thoughts on Managed Fire Moderator: Heather Heward	10:30-10:42 NASA David Green
10:35-10:55	Implementation of firefighting operations according to the severity of wildfires Aurora Ferrer Palomino and Francisco Rodriguez Silva	Climate Change Adaptation and Mitigation Strategy for Fire Management in the National Parks of Canada Gregg Walker	Lessons from the Bootleg fire: a recipe for frequent-fire forest restoration Craig Bienz	Panelists: Matthew Hurteau Anthony (AJ) Behas Travis Armstrong Stephen Fillmore	10:42- 10:54 USFS Clint Cross
10:55-11:15	Adapting FBAN Technical Units to the actual wildfire scenario, the UTAF Andalusia (Spain) case study Francisco Senra-Rivero	Recent fire weather trends in Lake, Napa and eastern Sonoma Counties, California Jamie Lydersen	Investigating trends in the diurnal cycle of fire activity using geostationary satellite observations of fire radiative power Elizabeth Wiggins		10:54-11:06 Esri 11:06-11:21 Fortress Bob Baird
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		11:21-11:33 FireScout Robert Grey

11:35-11:55	Policy Momentum and the Management of Wildland Fires George Busenberg	The effect of aridity on fuel break effectiveness across varying wind speeds and surface fuel compositions. Jesse Young	Ecological drivers of fuel structure in forests and woodlands of Eastern Australia derived using space-borne LiDAR Kathryn Fuller	11:33-11:45 Tecnoslyva Joaquin Ramirez 11:45-11:57 ITTURRI Laura Morales
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	Quantifying the effect of live fuel moisture content on wildfire occurrence and area Krishna Rao	11:57-12:09 Sebelo Elviss Straupeniaks
12:15-12:35	Whose interests are represented in the management of complex, interjurisdictional wildfires? Toddi Steelman and Branda Nowell	Twentieth-century fire regime transitions in southeastern British Columbia: Relevance to future management and policy Jen Baron		12:09-12:24 Perimeter Solutions Edward Goldberg and Melisa Kim
12:35-1:30	Lunch (provided)			
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Indigenous Knowledge, Fire and Climate	Climate and Fire Weather	Infrastructure, Resilience and Fire	Carbon Cycle and Greenhouse Gas Emissions
	Moderators: Susan Estep Deisi Celino	Moderators: Yongqiang Liu Kevin Varga	Moderators: Clay Kerchof Savannah D'Evelyn	Moderators: Shenyue Jia Steve Moran
1:30-1:50	Rural and Tribal Perceptions of the Health Risks of Wildfire Smoke in the Okanogan River Airshed Emphasis Area Leah Wood	Current Trends in US Fire Occurrence and ERC Christopher Moran	Grapes and Lungs on Fire: The Disparate Impacts of Wildfires on Undocumented Latino/a and Indigenous Migrant Workers in Sonoma County Carlo Chunga Pizarro and Michael Mendez	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 Secwepemcúl'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 agro-pastoral Mediterranean contexts Salvatore Cabiddu & Antonio Pasquale Belloi	Climate teleconnections modulate global burned area Adrián Cardil	The state of environmental justice studies in the human dimensions of wildfire literature Alyssa Thomas	Implementation of Greenhouse Gas Benefit Quantification for a Variety of Forest Management Activities in a Statewide Program ShihMing Huang
2:50-3:10		Accessing & Using Decision-Ready Climate Information with GIS Chris Ferner	Reforming wildfire mitigation laws to facilitate prescribed burning on private land Phillipa McCormack	Impacts to Greenhouse Gas Emissions and Fire Behavior following Fuel Treatments in California Forests Chris Dicus
3:10-3:30	Characterizing Rural and Tribal Community Perceptions of Prescribed Fire in the Okanogan River Airshed Emphasis Area Savannah D'Evelyn	Weather and Antecedent Climate Impacts on Santa Ana Wind Fires Jon Keeley	Challenges, successful strategies, and best practices in community wildfire mitigation among Firewise Sites of Excellence Rebecca Miller, Michele Steinberg, and Megan Fitzgerald-McGowan	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			
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Fire Behavior	Climate and Fire Weather	Infrastructure, Resilience and Fire	Firefighter Health and Public Safety
	Moderators: Raquel Hakes Ana Barros (v)	Moderators: Aseem Sharma (v) Lindon Pronto	Moderators: Jeanette Cobian-Iñiguez Leah Wood (v)	Moderators: Hugh Scanlon Marta Oliveira (v)
4:00-4:20	Analysis of fire spread simulations for improved operational models Adrián Cardil	Characterizing historic changes in near-surface atmospheric stability Brian E Potter	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	Adapting to Wildland Fire: Lessons from Rural Mediterranean Social Contexts Kathleen Uyttewaal	Mapping fire and firefighter visibility for improving situational awareness Katherine Mistick
4:40-4:45				Community Risk Reduction of the WUI: Steady - Ready - Extraordinary Vincent Anderson
4:45-4:50	The role of shaded fuel breaks on landscape-scale restoration and community protection Ana Barros	A global problem, needing global change Rick Mcrae	Predicting smoke exposure tradeoffs among forest management scenarios in the central Sierra Nevada, California Claire Schollaert	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	Social Sponsored by Gordon and Betty Moore Foundation, and Convective Capital			
7:45-10:00	Student and Early Career Social			
	Wednesday, May 25			
8:00-8:30	Networking with sponsors and exhibitors			

OPENING REMARKS, WILDLAND FIRE SAFETY AWARD PRESENTATION & 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.				
Networking break with sponsors and exhibitors				
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Fire Management and Response	Science Communications and Outreach	Infrastructure, Resilience and Fire	Smoke Transport and Air Quality
	Moderators: Sashi Sabaratham Constanza Gonzalez-Mathiesen (v)	Moderators: Amanda Monthei Jenessa Stemke	Moderators: Michele Steinberg Kathleen Uyttewaal	Moderators: Rebecca Buchholz
8:30 - 9:15				
9:15 - 9:45				
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			Assessing Vertical Allocation of Wildfire Smoke Emissions using Observational Constraints from Airborne Lidar in the Western U.S. Xinxin Ye
9:55-10:15	Cornea: A machine learning system for real-time wildfire response at scale Anshu Sinha	Educating residents regarding living with wildfires, motivating volunteers to do mitigation work, and the challenges of wildfire recovery Paulette Church	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 PM2.5 from Prescribed Burning in Northeastern Washington Ernesto Alvarado
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	Alternative wildfire narratives. Understanding differences and similarities in expert conceptualizations of wildfire causes, consequences, and solutions Michal Russo and Paige Fischer	Improving landscape Resilience to Climate Change Induced Wildfire Impacts Jane Park & Kris Beattie	Wildfire Particulate Deposition Investigation and Assessment in Buildings Amir Jokar
10:35-10:55	Mega fires arrive in Europe: The Greek experience and AFF Response in 2021 Zisoula Ntasiou	Wildland Fire, Environmental Justice, and the Bipartisan Infrastructure Law Eric Werwa	FIRELOGUE - Cross-sector dialogue for Wildfire Risk Management David Martin	Fueled from below: Linking fire, fuels, and weather to unite ground- and satellite-based emissions estimates Amber Soja
10:55-11:15	Wildfire Moonshot: Using Breakthrough Technology from Google X To Predict Risk And Inform Fuels Management In The Wildland Urban Interface Robert Baird	Incendiary Rhetoric: Messaging Ecological Fire Management as a Solution to the Climate-Wildfire Crisis Timothy Ingalsbee	Increasing Community Resilience to Wildfire: Wildfire Risk Reduction Buffers Kimberly Roberts	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	Fire stories: A case for community-based communication Isabeau Ottolini	Legislative Efforts to Respond to Wildfire Disasters Meghan Housewright	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		The Impact of Wildfires on Regional Economies: Evidence from Southern Europe Sarah Meier	Rapid Wildfire Smoke Exposure Modeling Sean Raffuse
11:55-1:15	Lunch (on your own)			
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Fire Management and Response	Climate and Fire Weather	Infrastructure, Resilience and Fire	Smoke Transport and Air Quality
	Moderator: Ron Steffens	Moderators: Lucian Deaton Kimberly Roberts	Moderator: Sara McAllister	Moderator: Joe Wilkins
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 Dominique Morvan	Is Climate Fueling Increased Wildfire Variability in Barbados? Kirk Douglas	Near-real-time Live and Dead Fuels Characterization: A Case Study for Infrastructure Resiliency to Wildfire in Southern California Holly Eagleston and Daniel Krofcheck	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	Megafires in a warming world: what wildfire risk factors led to California's largest recorded wildfire Kevin Varga		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	Forest fire probability under ENSO conditions in a semi-arid region: a case study in Guanajuato, México Camila Alcántara	Getting our Heads around the New Fire Environment, Key Points for Managers to Know Dana Skelly	Fire Weather Index's Predictive Power of Aerosol Pollution over Greece Anastasios Rovithakis
2:25-2:30	Initial Attack Assessment using Wildfire Analyst Tim Chavez	Fire-spotting modelling in changing climatic conditions Vera Egorova		

2:30-2:35	Wildfire management in southern Europe case study Alejandro García Hernández	Interaction of wildfire and warming climate threatens the persistence of montane sky island forests across southern California Carolyn Enquist, Jeffrey Heys, Hugh Safford			
2:35-2:40	Precise Location Insight for Bushfire Preparedness and Risk Mitigation Eva Kovacs	Biomass Burning, Precipitation and Vegetation Cover Feedbacks in Africa Osinachi Ajoku	Large Outdoor Fires & the Built Environment Working Group Sponsored by the International Association for Fire Safety Science (IAFSS) Sara McAllister	Combustion Gas Quantification and Plume Temperature Calculation Using Thermal Infrared Multispectral Imaging Benjamin Saute	
2:40-2:45					
2:45-2:50					
2:50-2:55					
3:00-3:30	Networking break with sponsors and exhibitors				
	Ballroom F	Ballroom G	Ballroom H	Ballroom E	
	Fire Management and Response	Fire Behavior	Infrastructure, Resilience and Fire	Firefighter Health and Public Safety	
	Moderators: Arezoo Khodayari Peter Root	Moderators: Georgios Papavasileiou (v) Ritambhara Dubey	Moderators: David Shew	Moderators: Shayna Solis	
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	Wildfire and Smoke Impacts and the Potential Remedy Peter Teensma	Assessment of biomarkers of effect in firefighting context: a review of the literature Bela Barros	
3:35-3:40		An outbreak of pyroconvection during the catastrophic 2021 wildfires in Greece and its predictability Georgios Papavasileiou	Increasing wildfire damage with decreasing home price in Southern California fires Erin Conlisk		
3:40-3:45			Responding to Wildfires: The Human Perspective Sharie Lewis		
3:45-3:50			30 Years of Declining Forest Health Now Requires Aggressive Suppression and Extensive Forest Maintenance Bob Baird		
3:50-4:10	Useful and usable: Measures to gauge incident management effectiveness Jay Balagna	A Rule of Thumb for Estimating Grassfire Rate of Spread Under Elevated Fire Danger Conditions Miguel Cruz	Mega Fire Prevention Technologies & SDG Impact Analysis - Chapter One - Brazilian Wetlands - Pantanal Osmar Bambini	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	Ground-based wildfire detection camera systems with integrated dispatch, operational management and communications - reducing risk in the field Gavin Hough		On the Road to Fire Adaptation: Lessons from two Californian communities navigating fire preparedness and evacuation challenges Amanda Stasiewicz	
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 Zeke Lunder, Pyrogeographer, Deep Creek Resources				
6:00-7:30	Poster Session				
Poster Presentations	Forbidden fire and the role of 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	Land Tender: A collaborative, cloud-based decision support platform for resource management and wildfire mitigation Hugh Safford
	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	New material opportunities for improved emergency fire shelter survivability Scott Eaton
	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 Dan Slovich	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 Kathryn Vinsonhaler	

	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 Tamara Wall
	Identifying a fire frequency tipping point in northern California chaparral Ashley Grupenhoff	Wildlands in the Expanded Field Greg Kochanowski	The role of atmospheric dynamics and seasonality in determining human health impacts of wildland fire emissions Lynne Xu	Effect of Fuel Moisture Content on Fire Behavior and Plume Dynamics Ritambhara Dubey
Thursday, May 26				
8:00-8:30	Networking with sponsors and exhibitors			
8:30-9:30	OPENING REMARKS, EARLY CAREER IN FIRE SCIENCE AWARD PRESENTATION & KEYNOTE SESSION Emerging Leaders Lindon Pronto, Senior Expert, European Forest Institute, Germany Homegrown and my journey to Good Fire Kylie Paul, Crew Leader, Divisional/Group Supervisor and firefighter, South Africa Adaptation strategies and approaches for managing fire in a changing climate Martha Sample, Research Associate, Center for Adaptable Western Landscapes, Northern Arizona University			
9:30-10:00	Networking break with sponsors and exhibitors			
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Fire Behavior	Climate and Fire Weather	Infrastructure, Resilience and Fire	Impact, Consequences, and Recovery
	Moderators: Sarah Scott Zakary Campbell-Lochrie (v)	Moderator: Kurtis Nelson	Moderator: Anna Higgins	Moderators: Julie Hunter Ashley Grupenhoff
10:00-10:20	Rothermel's model and the role of fuel bed structure Zakary Campbell-Lochrie	Interpretable Model Captures Complex Relationship between Climate Variability and Fire Season Intensity in Maritime Southeast Asia William Daniels	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	Generalized burning rate curve for porous fuel beds Sara McAllister	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	Wind and geometry effects on smoldering of woody fuels Luca Carmignani	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	Methodology for Consistent Daily and Sub-Daily Mapping of Wildfire Growth for 2003-2020 and Beyond ShihMing Huang	Southeastern U.S. populations impacted by smoke: recent patterns and possible climate-driven changes Megan Johnson	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	Predictability of the Dixie Fire's Extreme Fire Behavior Scott Purdy	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	A Detailed Energy Balance Model for Predicting Temperature Evolution of Complex Shaped Smoldering Objects Saurabh Saxena	Climate change, wildfire, and wildlife: implications for fire risk and ecological resilience Katherine Palmquist	Identifying Healthcare Disparities during Wildfire Disasters among Children Natasha Gill	A vulnerability assessment of wildland fire impacts to public drinking water in the western and southeastern United States John Iames
12:00-1:30	Lunch (on your own)			
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Fire Behavior	Fire Ecology	Infrastructure, Resilience and Fire	Smoke Transport and Air Quality
	Moderator: Luca Carmignani	Moderator: Dorianis Perez	Moderators: Tamara Wall Hugh Safford	Moderators: Muhammad Shahid Ed Hyer
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	Effects of climate change on resilience of fire prone eucalypt communities Harriet Simpson-Southward	Confronting Climate Change with the Wrong Decision Framework for Wildland Fire Suppression: Neo-Liberal Theories in a Post-liberal World Van Miller	Closing Session: Closing Wrap Up Session
1:50-2:10	Targeting the Lightning Most Likely to Cause Wildfires Chris Vagasky	It's the fuels, my friend. How a long-term fuel monitoring program may shape our future burning Ron Steffens	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	Effect of forest fire on vegetation dynamics in tropical dry deciduous forests of Central India Satyam Verma	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	How Electromagnetic Field (EMF) Impacts on Plants May Exacerbate and/or Cause Wildfires; Interaction of Climate Change & EMF Effects Martin Pall	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		Retention in wildland firefighters Erin Belval	Emissions and air quality impacts of wildfire and prescribed burns in California Laura Kiely
3:10-3:15		Grassland fires: a problem for the conservation of xerophytic scrub in the metropolitan area of Guanajuato, Guanajuato, Mexico Mariana Ayala Carrillo		

3:15-3:20	Investigating Conifer Tree Flame Spread Under an Applied Wind Field Sayaka Suzuki	Spatiotemporal relationships of fire and forest cover change in Vietnam's Central Highlands: 2000-2020 Samuel Ebright	The relative influence of experience with wildfire and societal beliefs on Californians' support for wildfire risk mitigation strategies Alex Howe	Using PM 2.5 Observations to Verify HRRR-Smoke Forecasts during the 2020 Western U.S. Fire Season Samantha Iles
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			
	Ballroom F	Ballroom G	Ballroom H	Ballroom E
	Fire Management and Response	Climate and Fire Weather	Firefighter Health and Public Safety	Smoke Transport and Air Quality
	Moderator:	Moderator:	Moderator:	Moderator:
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	Mortality and Morbidity Attributable to Wildfire Smoke in California from 2008-2018 Diane Garcia-Gonzales	A Comparison of Particulate Morphology of Wildland Fuels and Human-Made Fuels at the Wildland-Urban Interface Samuel Manzello
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	Using Air Pathways to Reduce Wildfire Smoke – A Community-Focused Approach. Richard Graw
4:40-5:00			Skin contamination with polycyclic aromatic hydrocarbons after firefighting and rates of dermic permeability: a literature review Marta Oliveira	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: Randy Moore, Chief, USDA Forest Closing Wrap Up Session			
	Friday, May 27			
9:00-4:00	Angeles National Forest and Griffith Observatory Field Trip			