



Wildfire Technology Management

APRIL 25-26, 2023, SACRAMENTO, CALIFORNIA

BOLSTERING HUMAN-CENTRIC, TECHNOLOGY-ENABLED WILDFIRE RESILIENCE

MEET THE SPECIALIST 2023 SPEAKER FACULTY



Jeff Rupert,
Director, U.S.
Department of the
Interior Office of
Wildland Fire (OWF)



George Geissler,
State Forester,
Washington
Department of Natural
Resources



Brian Fennessy,
Fire Chief,
Orange County Fire
Authority



David Green,
Program Manager,
Wildfire and Disaster
Applications,
NASA



Jerome E. Perez,
National Director,
Fire and Aviation
Management,
US Forest Service



Three Star Industry Partners



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WELCOME:

Dear Colleague,

It is my pleasure to bring this community together at the fourth Wildfire Technology Management Summit. We must not underestimate the opportunity that can be gained from being in a room with up to two hundred key decision-makers from global fire agencies, industry, and academia. This conference will provide a constructive forum to learn, share and connect with your peers and counterparts to ensure better-integrated management of the devastating wildfires that wreak havoc on our communities.

Given the increased intensity and frequency of wildfires, there is a growing urgency to effectively mitigate and manage their start and spread. Indeed, there is a persistent need for emergency managers and firefighters across the globe to be prepared and equipped to adequately address wildfires – in turn, preventing casualties to lives, property, infrastructure, and ecosystems.

Wildfire Technology Management will help bridge the gap between industry, wildfire agencies and academia to better prevent, detect, suppress, and mitigate these destructive wildfires. With the ongoing wildfires in Australia and Europe in recent years, a specific focus on the international landscape of wildfire prevention and suppression will be explored. In addition, the latest advancements in emerging technologies, tools, techniques, workflows, and best practices for wildfire management will be discussed and compared across agencies.

Through extensive networking, learning, and idea sharing, the Institute for Defense and Government Advancement (IDGA) will provide a vital platform to enable you to build and nurture crucial connections with peers and counterparts, ensuring the collaboration necessary to prevent and tame the national and international security threat that wildfires present.

I look forward to welcoming you to Wildfire Technology Management in April 2023.

Yours sincerely,



Harriet Turner
Conference Director
Wildfire Technology Management

CONFERENCE CHAIRMAN

Kim Zagaris, or Chief Z as some call him, is currently the Wildfire Policy and Technology Advisor for the Western Fire Chiefs Association. His position was created in response to the destructive wildfires that have unfolded across the west. Chief Zagaris retired as State Fire and Rescue Chief for the State of California, Governor's Office of Emergency Services (Cal OES) a position he held for 18 years.

Chief Zagaris has an extensive background in fire service, emergency management, and homeland security which includes working with local, state, federal, and international agencies over his 42 years fire service career. He served under six Governor's and has been actively involved in every major and catastrophic emergency in California as well several in the nation.

3 TOP REASONS TO ATTEND

1 Learn about the latest innovations and technologies that are being developed, tested, and leveraged by leading organizations to improve wildfire resilience in the next 5-10 years.

2 Build and nurture domestic and international partnerships with senior leaders from fire agencies, federal government, and industry.

3 Gain unrivalled insights into the latest U.S. and international strategies which seek to address some of the most critical gaps and challenges in integrated wildfire management.

MEET THE SPEAKERS:



Chief Tonya Hoover,
Deputy U.S. Fire
Administrator,
FEMA



Jerome E. Perez,
National Director,
Fire and Aviation
Management,
US Forest Service



Jeff Rupert,
Director,
**U.S. Department of
the Interior, Office of
Wildland Fire**



Gordy Sachs,
Chief, All Hazard &
International Fire
Support Branch,
US Forest Service



Brian Fennessy,
Fire Chief,
**Orange County Fire
Authority**



Chris Tubbs,
Fire Chief, Southern
Marin Fire District,
**Mill Valley Fire
Department**



Steve Miller,
Director, Fire and
Aviation Management,
**US Forest Service
(Eastern Region)**



Chief Anale Burlew,
Assistant Deputy
Director of Fire
Protection,
CAL FIRE



Brian Marshall,
Chief, Fire and Rescue,
**California Office of
Emergency Services
(CAL OES)**



Kim Connors,
Director,
**Canadian Interagency
Forest Fire Centre**



**Chief Jeff Johnson
(Ret.),** Executive
Director, **Western Fire
Chiefs Association**



**Chief Kate Dargan
Marquis (Ret.),** Former
Assistant Director
for Preparedness
and Response,
**White House Office
of Science and
Technology**



Tami Parkinson,
Acting - Program
Manager Wildland Fire
Research, Development
and Applications
Program,
U.S. Forest Service



David Green,
Program Manager,
Wildfire and Disaster
Applications,
NASA



Ben McGrane,
Assistant Director,
Incident Procurement
Operations,
US Forest Service



**Johann Georg
Goldammer,**
Chief,
**Global Fire Monitoring
Center (GFMC) Germany**



Doug Cram,
Extension Forest
and Fire Specialist,
**New Mexico State
University**



Dr. Christopher Dicus, PhD,
Professor, Wildland Fire &
Fuels Mgt. Natural Resources
Management & Environmental
Sciences Department,
**California Polytechnic State
University**



Dr. Tim Brown,
Director, Director,
Program for Climate,
Ecosystem and Fire
Applications (CEFA),
DRI

CONFERENCE DAY 1: APRIL 25, 2023

0800 REGISTRATION AND REFRESHMENTS

0845 **CHAIR'S OPENING REMARKS**

Chief Kim Zagaris, Wildfire Policy and Technology Advisor, **Western Fire Chiefs Association**

0855 **XPRIZE ANNOUNCEMENT**

XPRIZE is launching a new prize which seeks to transform firefighting technologies and ultimately end catastrophic wild fires. Through an \$11M prize, XPRIZE Wildfire will recruit innovators across two tracks: space-based wildfire detection and intelligences and autonomous wildfire response. Together, these competitions seek to synergistically advance how fires are fought and managed.

Jay Stalnacker, Technical Lead, **XPRIZE Wildfire**



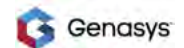
0900 **OPENING KEYNOTE ADDRESS: USFA PRIORITIES**

**KEYNOTE
SESSION**

- Harnessing the power of data to inform sound decision-making and enhance wildfire awareness
- LOE in implementing a centralized database management system to ensure the efficient coordination of efforts across state, federal and national levels of government
- Driving prevention, response and recovery capabilities to mitigate the growing wildfire risk to communities

Chief Tonya Hoover, Deputy U.S. Fire Administrator, **FEMA**

0930 **RESERVED FOR GENASYS INSIGHTS**



1000 **OCFA UPDATE 2023: KEY PROGRAMS, PRIORITIES AND CHALLENGES**

- Crucial insights into the key programs, and future requirements that are being leveraged at OCFA to drive integrated wildfire management forward
- Ensuring that OCFA's training, equipment and facilities meet the ever-evolving needs of the community they serve
- Building and nurturing public-private partnerships that can tackle wildfires with emerging technologies and aerial resources including FIRIS and the Quick Reaction Force

Chief Brian Fennessy, Fire Chief, **Orange County Fire Authority**

1030 NETWORKING COFFEE BREAK

1100 **USDA FOREST SERVICE UPDATE 2023**

- Preserving the nation's forests for current and future generations through innovation and enhanced collaboration
- LOE in leading firefighters across the nation and effectively delivering the fire and aviation program to meet the growing national security threat posed by wildfires
- Increasing hazardous fuels treatments in high-risk areas to mitigate the threat to communities and the nation's most vital infrastructure

Jerome "Jerry" Perez, National Director, Fire and Aviation, **U.S. Forest Service**

1130 **RESERVED FOR BURNBOT, INC. INDUSTRY INSIGHTS**



1200 **HARNESSING EARTH OBSERVATIONS TO HELP COMMUNITIES MANAGE THE IMPACT OF WILDFIRES**

**PANEL
DISCUSSION**

- How are space-based instrumentation and earth observations being utilized to enhance preparation for elongated and more severe wildfires?
- How are the NASA Earth Science and Applied Sciences Wildfire team driving the timelier tracking and monitoring of wildfires through earth observations and direct broadcast?
- The future of wildfire detection: a holistic overview of the latest developments in earth observations to improve national resiliency in the face of increasingly extreme wildfires

Moderator: Dr. David Green, PhD, Program Manager, NASA Earth Science Applied Sciences Wildfire Program, **NASA**

1300 LUNCH AND NETWORKING BREAK

1400 **AMPLICAM: 10 MINUTE TECHNOLOGY SPOTLIGHT SESSION**



1410 **OPTIMIZING THE CONTRACTING PROCESS TO SUPPORT THE WILDLAND FIREFIGHTING MISSION**

- Bolstering the agility of the US Forest Service through close collaboration with industry to ensure a timely contracting and procurement process
- Overcoming inflationary pressures and supply chain challenges to minimize the impact on real purchasing power and ensure wildland firefighting readiness
- Aligning resources to the firefighter through optimized centralized acquisition support for the Forest Service to drive the most effective and efficient outcomes

Ben McGrane, Assistant Director, Procurement & Property Services Incident Procurement Operations, **US Forest Service**

CONFERENCE DAY 1: APRIL 25, 2023

1440 FIGHTING FIRE WITH WORKFLOW

- ServiceNow, a leading digital workflow platform, can be leveraged for efficient wildfire response and management by providing real-time situational awareness.
- Enabling collaboration and communication among stakeholders, automating workflows, tracking resources and activities, and bolster wildland firefighter recruitment and retention efforts
- Exploring the benefits of digitizing the wildland firefighting processes, including faster response times, more informed decision-making, improved firefighter safety and increased efficiency in managing resources and operations during wildfires

Jonathan Alboum, Federal CTO, **ServiceNow**

servicenow

1510 WILDLAND FIRE RESILIENCE AND COMMUNITY SAFETY IN THE WUI

- Working closely with key stakeholders to effectively deploy the MWPA 10-year Measure C plan that will significantly augment the safety of the Marin community within the WUI
- Identifying and applying critical lessons post-2017, in response to the North Bay Fire Siege and enduring impacts of climate change
- Ensuring greater agility and readiness in Marin County through collaborative prevention and mitigation initiatives such as the CWPP and the leveraging of cutting-edge technologies such as the Zonehaven and Tablet Command

Chris Tubbs, Fire Chief, **Southern Marin Fire District Mill Valley Fire Department**

1530 NETWORKING COFFEE BREAK

1600 DRIVING INNOVATION FOR EFFECTIVE FIRE MANAGEMENT AND MITIGATION IN CALIFORNIA

- Overview of the latest technological advancements that can help tame wildfires and subsequently protect communities against WUI fires that are growing significantly in severity and size
- Utilizing technology developments to predict and manage wildfire behaviour in the WUI interface

Christopher A. Dicus, PhD, Professor, Wildland Fire & Fuels Management, Natural Resources Management & Environmental Sciences Department, **California Polytechnic State University**

1630 HARNESSING THE POWER OF TECHNOLOGY AND INDUSTRY-FIRE AGENCY COLLABORATION

PANEL DISCUSSION

- How can we accelerate the procurement of technology for enhanced wildfire management
- Which emerging tools and technologies are enabling a speedy informed decision process for wildland fire management?
- How can we improve interagency and industry-agency collaboration?

Moderator: Chief Kim Zagaris, Wildfire Policy and Technology Advisor, **Western Fire Chiefs Association**

Panellists include:

Tami Parkinson, Acting - Program Manager Wildland Fire Research, **Development and Applications Program**

Chief Jeff Johnson (Ret.), Executive Director, **Western Fire Chiefs Association**

Chief Kate Dargan Marquis (Ret.), Former Assistant Director for Preparedness and Response, **White House Office of Science and Technology**

1700 CHAIR'S CLOSING REMARKS & END OF DAY 1

Chief Kim Zagaris, Wildfire Policy and Technology Advisor, **Western Fire Chiefs Association**



CONFERENCE DAY 2: APRIL 26, 2023

0800 REGISTRATION AND REFRESHMENTS

0850 **CHAIR'S OPENING REMARKS**

Chief Kim Zagaris, Wildfire Policy and Technology Advisor, **Western Fire Chiefs Association**

0900 **THE BIPARTISAN INFRASTRUCTURE LAW UPDATE: SUPPORTING COMMUNITIES AND IMPROVING WILDFIRE RESILIENCE ACROSS THE COUNTRY**

- An update on the key programs and priorities of the DOI in 2023 and beyond, including hazardous fuels management, post-fire restoration and rehabilitation activities, wildfire preparedness and science and research developments
- Working with key internal and external partners and stakeholders to increase resilience
- Rebuilding the workforce to address the shrinking workforce through compensation improvements, mental health resources, improved physical safety, hiring, and additional training

Jeff Rupert, Director, **Office of Wildland Fire, Department of Interior**

0930 **GLOBALSTAR: 10 MINUTE TECHNOLOGY SPOTLIGHT SESSION** 

0940 **MITIGATING THE IMPACT OF WILDFIRES ON COMMUNITIES AND CRITICAL INFRASTRUCTURE THROUGH INTERNATIONAL COLLABORATION AND COOPERATION**

- Driving global cooperation strategy through global fire management committees, international study tours, and bilateral international agreements
- Bolstering collaborative disaster risk reduction efforts with partner nations to enhance fire management capacity
- Future requirements, challenges and key priorities

Gordy Sachs, Chief, All Hazard & International Fire Support Branch, **U.S. Forest Service**

1010 NETWORKING COFFEE BREAK

1030 **NASA: THE FUTURE OF WILDFIRE MANAGEMENT: ADAPTING, DEVELOPING, AND TESTING EMERGING TECHNOLOGIES**

- A holistic overview of the emerging space-based technologies that NASA are working on to enable more effective integrated wildfire management throughout elongated fire seasons
- Identifying critical capability gaps and the and how NASA has adopted to address these to increase the United States' security
- The future of wildfire management: where is it going?

Dr. David Green, PhD, Program Manager, Wildfire and Disaster Applications, **NASA**

1100 **High-fidelity Wildfire Fuels and Hazard Mapping with Satellites**

- Recent advances in satellite-based remote sensing and cloud computing have enabled unprecedented earth observation capabilities.
- Insight into how Planet is applying these technological advances to map wildfire fuels and patterns of forest structure and composition which drive wildfire behaviour and contribute to our current crisis of regular mega-fires.
- Informing better assessments of wildfire risk, through high-resolution and high-frequency data produced by AI/MIL, and driving improved mitigation and response efforts in increasingly fire-prone regions.

Kyle Gertridge, Business Development, **Planet**



1130 **CONTROLLING FUTURE WILDFIRE DISASTERS THROUGH PRESCRIBED FIRE**

**FIRESIDE
CHAT**

- How does prescribed fire help to preserve the natural ecology and lifecycle of our forests?
- How can we learn from Native Americans who used fire to manage their forests for years?
- What does the future look like for prescribed burns and how can it help us to achieve our goal of reducing the destructive capacity of wildfires?

Moderator: **Steve Miller**, Director, Fire and Aviation Management, **U.S. Forest Service (Eastern Region)**

Panelists include:

Doug Cram, Extension Forest and Fire Specialist, **New Mexico State University**

1245 LUNCH AND NETWORKING BREAK

CONFERENCE DAY 2: APRIL 26, 2023

1400

THE INTERNATIONAL LANDSCAPE FIRE MANAGEMENT FRAMEWORK: ENHANCING GOVERNANCE IN INTERNATIONAL COOPERATION

**PANEL
DISCUSSION**

- Improving governance in the states most impacted by wildfires to improve resilience and limit damage
- Striving for a global wildfire management policy: LOE in enhancing the coordination and collaboration necessary with other nation states to achieve this objective
- Working with the United Nations to drive and support countries and international organizations to establish national roundtables

Johann Georg Goldammer, Chief, **Global Fire Monitoring Center (GFMC)** Germany

1430

2023 FIRE SEASON OUTLOOK: WILDFIRE AND FOREST RESILIENCE IN THE STATE OF CALIFORNIA



- How can agencies in California better coordinate wildfire emergency preparedness, response, recovery in California to ensure milder wildfire seasons ahead?
- Which programs are Californian agencies embarking on to better prevent, suppress, mitigate and detect?
- What steps are being taken to improve collaboration to protect the communities and vital infrastructure in the state of California?

Panelists include:

Representative from ALERTCalifornia

Chief Anale Burlew, Assistant Deputy Director of Fire Protection, **CAL FIRE**

Brian Marshall, Chief, Fire and Rescue, **California Office of Emergency Services (CAL OES)**

Chris Tubbs, Fire Chief, Southern Marin Fire District, **Mill Valley Fire Department**

1530

NETWORKING COFFEE BREAK

1600

STRENGTHENING RELATIONSHIPS WITH CANADIAN WILDLAND FIREFIGHTING AGENCIES AND INTERNATIONAL PARTNERS TO OPTIMIZE READINESS AND DISASTER RESPONSE

- Enabling the quick and seamless flow of resources across borders to support international partners such as Mexico, Australia, New Zealand and South Africa in the face of elongated and more severe wildfire seasons
- Ensuring timely resource, information and aid sharing between federal wildland firefighting agencies to boost Canadian resiliency
- Addressing capability and public policy gaps to improve management of future wildfires

Kim Connors, Director, **Canadian Interagency Forest Fire Centre**

1630

TACKLING THE CLIMATE CRISIS TO PROTECT AMERICA'S FORSTS AND FUTURE GENERATIONS

**CLOSING
KEYNOTE**

- Connecting a changing climate to fire on the ground
- Thinking about fire from a compounding extremes perspective
- Envisioning future fire given future climate

Dr. Tim Brown, Director, Program for Climate, Ecosystem and Fire Applications (CEFA), **DRI**

1700

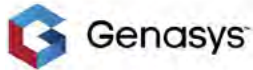
CHAIR'S CLOSING REMARKS & END OF CONFERENCE

Chief Kim Zagaris, Wildfire Policy and Technology Advisor, **Western Fire Chiefs Association**



2023 PARTNERS

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Genasys offers a full suite of protective communications platforms providing intuitive emergency management solutions that can be used individually or collaboratively to protect lives. Our industry-leading software keeps people safe during critical emergency situations by combining seamlessly integrated multi-channel alerting and notification systems with real-time tracking and deployment of resources.



BurnBot builds and operates systems that safely scale vegetation management to prevent destructive wildfires. BurnBot has created a one-of-kind system for conducting prescribed burns to protect communities from destructive wildfires. The BurnBot RX1, a remote-operated prescription burning machine, can quickly and efficiently remove the hazardous vegetation that feeds destructive wildfires, no matter how dry or wet conditions on the ground are.

BurnBot's unique approach can quickly and efficiently establish fuel breaks, firebreaks, and defensible space that protect communities, infrastructure, and natural resources.

★★ Two Star Industry Partners

**UC San Diego**

ALERTCalifornia is a University of California San Diego based public safety program working with firefighters and first responders to reduce wildfire risks and better understand their impacts. The ALERTCalifornia system currently provides 2,500 users with access to over 1,000 state-of-the-art PTZ wildfire cameras and associated tools to help rapidly assess, confirm, and dispatch appropriate resources to incidents improving response times and lowering suppression/recovery costs. The system includes sophisticated, easy to use, AI wildfire detection functionality that can determine a fire's location and alert users through various methods. The multifaceted ALERTCalifornia research team utilizes the third generation of UC San Diego's wireless camera network and other advanced technologies to also study pre-fire conditions, active fire behavior, and post-wildfire disasters; this includes capturing high-density lidar and multispectral data that accurately characterizes the ground surface and canopy of fire-prone areas to better understand forest health and improve models. This two-pronged camera and data driven approach aids in the development of effective and time-critical plans for wildfire resiliency, prevention, response, and mitigation in California. ALERTWest is expanding this successful university/private model to other fire impacted states and looking to partner with agencies of all types whose mission is wildfire response and mitigation to deploy more cameras throughout the country.



Planet is a leading provider of global, daily satellite imagery and geospatial solutions. Planet is driven by a mission to image the world every day, and make change visible, accessible and actionable. Founded in 2010 by three NASA scientists, Planet designs, builds, and operates the largest Earth observation fleet of imaging satellites, capturing and compiling data from over 3 million images per day. Planet provides mission-critical data, advanced insights, and software solutions to over 700 customers, comprising the world's leading agriculture, forestry, intelligence, education and finance companies and government agencies, enabling users to simply and effectively derive unique value from satellite imagery. Planet is a Public Benefit Corporation trading on the New York Stock Exchange as PL. To learn more visit <http://www.planet.com> and follow us on Twitter at @planet.



ServiceNow is proud to support the growing complexity of land and wildfire management. From acquisition of new equipment to the integration of IoT to the increased use of satellite data, organizations are challenged to manage more assets and data than ever before. In addition to the "stuff" of firefighting, organizations are also challenged to recruit, manage, and retain a skilled workforce. The ServiceNow platform provides capabilities for fleet management, employee recruitment and retention, field operations and maintenance, data analysis with AI and ML, and project funding management. Our solutions are used across the Forest Service and Interagency partners and power the Interagency Resource Ordering Capability (IROC). IROC supports ordering, tracking, and managing resources in response to wildland fires and all-hazard incidents in real-time. During the peak of wildfire season, there may be more than 10,000 personnel from all levels of government and contractors deployed and managed by IROC.

"The high quality of speakers has helped us advance partnerships, connections, and projects and the level of leadership attending makes this event unique."

Robert Grey, Co-Founder & Sales Manager, FireScout, Alchera X Inc.

2023 PARTNERS

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AmpliCam Wildfire Guardian is a Wildfire Early Detection and Monitoring System based on commercially available video surveillance cameras, powered with a unique smoke detection algorithm, installed on cameras and servers. Live view from the surveillance cameras linked to the interactive GIS map, and system operator has online information about actual area of surveillance at any moment of operation. During the system's operation, the system's operator has information about terrain profile at the sector of camera's view that allows to determine coordinates of fire with even more accuracy. It is possible to add to the system custom GIS layers, to improve the situation awareness of monitoring personnel.



Eastern Communications is a Telco and ICT Solutions company that provides an extensive portfolio of services that include Data Services, Internet Services, Voice Services, Managed Services, Data Center, and Cloud Services and Cyber Defense Services. We are the first communications service provider in the Philippines when we were commissioned by the Spanish Government to provide the country's first telegraphic services. Over a century later, we have evolved into a full-service provider of world-class telecommunications services. We continue to be the solutions partner of choice for the biggest industry players in the country. We take pride in being the first Philippines telecommunications company to receive the ISO 9001:2015 mark for our business operations. This recognition shows our ability to deliver cutting-edge products with service that's unwavering, unflagging, and undeniably strong.



GRID20/20, Inc. provides electric grid sensor solutions since 2011. Its flagship Advanced Transformer Infrastructure (ATI)® solution has been successfully tested in 16 countries, reported 26.1+ Billion novel data points and delivered 1.44+ Million Auto Alerts to electric grid operators; serving 22.6+ Million user logins. The company's latest technology is GRIDWIDE FIRE-SPY®; an innovative wildfire mitigation solution built upon the time-proven patented chassis of its legacy ATI®. GRIDWIDE FIRE-SPY uniquely leverages existing distribution grid assets to create a fast-to-install, "Always-On" outdoor overhead monitoring and public safety sensor network. Providing community-wide monitoring canopies that benefit the inherent safety, environmental, and financial interests of all stakeholders.



GRIDWIDE FIRE-SPY (GFS) features a unique 'frontlines' deployment that "sees and smells" fire conditions; providing early detection, auto alerts, GPS coordinates, situational awareness, and certain fire/wildfire prevention capabilities. Deployed right where people live, work, sleep, commerce and play, GFS is designed to help protect our most precious assets; humans, institutions, structures, local economies, the environment.



Globalstar helps people connect, communicate, and transmit data in smarter ways. As a telecom infrastructure provider, we offer reliable satellite and terrestrial connectivity that's simple, fast, secure, and affordable. With our low-earth orbit (LEO) satellite network, we connect and protect assets, transmit key operational data, and save lives — from any location — for consumers, businesses, and government agencies in over 120 countries. Our terrestrial spectrum, Band 53, offers carriers, cable companies, and system integrators a versatile, fully-licensed channel to improve their customers' wireless connectivity. In addition to our SPOT GPS messengers that connect people in remote environments, Globalstar offers next-generation IoT hardware and software products that efficiently track and monitor assets, process smart data at the edge with AI-enabled applications, and manage analytics with cloud-based telematics solutions — all of which drive safety, productivity, and profitability. We transform smart ideas into smarter solutions.



Wildfire Detection and Monitoring — How We Do It
Based on our unique data sets, OroraTech's Wildfire Solution is the leading commercial satellite-based detection and monitoring system, providing real-time alerts and data to keep communities safe from the danger of wildfires. Our first satellite was launched in Jan 2022, has now been in orbit for over 1 year and captured 30,000+ images of wildfires. The image to the left demonstrates the technological capabilities of OroraTech's infrared imager to detect and monitor wildland fires even through smoke! OroraTech is currently observing 400 million acres daily, for its customers in the US and worldwide.

Competition Partner



XPRIZE is a global future-positive movement delivering truly radical breakthroughs for the benefit of humanity. XPRIZE inspires and empowers a global community of problem-solvers to positively impact our world by crowdsourcing solutions through large-scale competitions, tackling the world's grandest challenges in exploration, environment, and human equity. Learn more or join a team at xprize.org.

Media Partners



Asia Pacific Fire magazine provides the industry decision-makers in the region with up-to-date information on research, training, technology, practices, case studies and equipment. Our editorial is designed to make people think about the sector and their interaction with it. We cover all aspects of Fire and Disaster Management because the region is constantly dealing with wildfires, earthquakes, cyclones, volcanoes and tsunamis. On top of that, they also deal with the same problems that every other fire service reacts to, events like hazmat, fire & rescue in highly populated areas.

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DON'T JUST TAKE OUR WORD FOR IT... SEE WHAT YOUR COLLEAGUES HAVE TO SAY!



"The information provided was the right mix of detail and strategy. The level and quality of the speakers and range of countries represented, and the willingness of speakers to work together, rather than a download of information makes this event unique."

Carol Loski, Strategic Advisor, BC Wildfire Service

"Being here has given me a much better understanding of the current needs of the industry and where my technology can make an impact."

The attendees were exactly who I wanted to meet. I was able to make great connections and the presentations were excellent! The event was small, but the quality of the content and of the attendees matter more than quantity. The size and attendance of this event is what makes it unique. It helped me connect to most attendees and allowed for more comprehensive conversations."

Claudia Smith, Sales and Marketing Lead, Globalstar

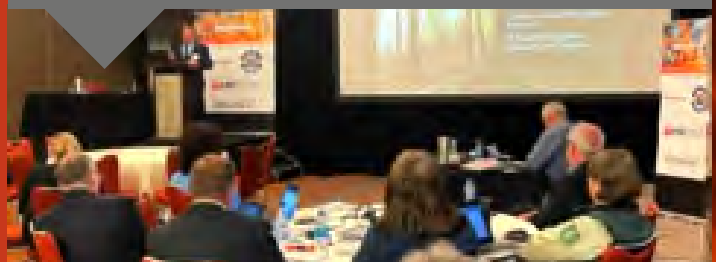
"What makes this event unique is that all attendees wanted to share, collaborate, and agree that partnerships are an important aspect we need to act upon. I learned an awareness to other initiatives already being worked on and partnerships already and continuing to be established, which will contribute to my day-to-day role. It was a great event, well thought out."

Mamata Gomez, Financial Analyst, BC Wildfire Service



"The event has helped me advance my partnerships, connections, and projects, as the size and networking opportunities are much better than larger meetings."

Florian Schwander, Earth Science Division Chief, NASA Ames Research Center



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Invest in making an impact with the people that matter to your business.

Sponsorship is the most effective solution to share your company's solutions to senior leaders from across the fire agencies, federal government, academia and industry who are searching for solutions that can address the growing threat that wildfires present.

Wildfire Technology Management will be attended by senior officials and decision-makers from across the fire agencies and federal government, as well as senior industry representatives who have solutions which can help to mitigate, detect, suppress, and prevent. With tailored networking, sponsors can achieve the face-to-face contact that overcrowded trade shows cannot deliver.

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Institute for Defense and Government Advancement

The Institute for Defense and Government Advancement (IDGA) is a non-partisan events and digital content provider, dedicated to the ongoing development and promotion of the critical defense and security priorities of the DoD, Armed Services, and Federal Government. We are here to serve as the trusted institute for research, education, networking and engagement within the Defense and Security Community.

By providing a platform to learn, share & connect, through in-person and digital activities, IDGA has supported and coordinated the participation of leading stakeholders in market-leading, transformative, and traditional conference topics, since 2001.

www.idga.org



In Partnership with:

The purpose of the Western Fire Chiefs Association is to serve as a representative of choice of (and for) career and volunteer leaders of fire related emergency service organizations throughout the WFCA member states and the Western Pacific Islands. The WFCA helps develop, and supports the work of, those leaders and organizations in order that they may best provide for the protection of people and the environment from the occurrence and outcomes of fires and other natural, technological and human-behavior-caused emergencies.

WHO SHOULD ATTEND?

Elevate your business and showcase your solutions with an audience of senior leaders from organizations such as CAL Fire, USDA Forest Service, NASA, Department of Interior Wildland Fire Office and more.



FREE INDUSTRY RESOURCES

You can access a variety of free resources such as whitepapers, articles, news, podcasts and presentations online at:
WWW.IDGA.ORG/EVENTS-WILDFIREMANAGEMENT/DOWNLOADS



Wildfire Technology Management

APRIL 25-26, 2023, SACRAMENTO, CALIFORNIA

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My registration code

Pass includes	
Two Day Conference (April 25- 26 2023)	✓
Access to post-event presentations	✓
Domestic Government/ Military Agencies	\$49
Foreign Government/ Military Agencies	\$299
Industry	
Register and pay by Friday, December 16, 2022	SAVE \$400 \$1,195
Register and pay by Friday, January 27, 2023	SAVE \$300 \$1,295
Register and pay by Friday, February 24, 2023	SAVE \$200 \$1,395
Register and pay by Friday, March 31, 2023	SAVE \$100 \$1,495
Standard price	\$1,595

*To qualify for early booking discounts, payment must be received by the early booking deadline.

DELEGATE DETAILS

Please photocopy for each additional delegate

☐ Mr ☐ Mrs ☐ Miss ☐ Ms ☐ Dr ☐ Rank _____

First Name _____

Family Name _____

Job Title _____

Tel No. _____

Work Email _____

☐ Yes I would like to receive information about products and services via email

IQPC Point of contact _____

Organisation _____

Nature of business _____

Address _____

Postcode Country _____

Telephone _____

Fax _____

Approving Manager _____

Name of person completing form if different from delegate _____

I agree to IQPC's cancellation, substitution and payment terms

Special dietary requirements: ☐ Vegetarian ☐ Non-dairy ☐ Other (please specify) _____

Please indicate if you have already registered by: ☐ Phone ☐ Fax ☐ Email ☐ Web

Please note: if you have not received an acknowledgement before the conference, please call us to confirm your booking.

PAYMENT

Total price for your Organisation
(Add total of all individuals attending):

Billing address
(if different from above):

Credit Card: please phone to process payment

Invoice: please send me an invoice (subject to \$99 + VAT processing fee per delegate)

Cheque: please enclose a cheque payable to IQPC Ltd for \$

3 WAYS TO REGISTER

Web:

www.idga.org/events-wildfiremanagement

Email:

idga@idga.org

Phone:

+1 646 200 7515

**START
KNOWLEDGE
SHARING AND
NETWORKING
BEFORE THE
EVENT**

FACEBOOK
 TWITTER
 LINKEDIN

TEAM DISCOUNTS*

IQPC recognises the value of learning in teams.

- Groups of **3** or more booking at the same time from the same company receive a **10% discount**.
- 5** or more receive a **15% discount**.
- 7** receive a **20% discount**.

Only one discount available per person. Team discounts are not applicable in conjunction with another discount.

VENUE & ACCOMMODATION

Sacramento, CA, U.S.

For updates on the venue and accommodation information, please visit: <https://www.idga.org/events-wildfiremanagement/venue>

Travel and accommodation are not included in the registration fee.

FREE ONLINE RESOURCES

To claim a variety of articles, podcasts and other free resources please visit www.idga.org/events-wildfiremanagement/downloads

TERMS AND CONDITIONS

Please read the information listed below as each booking is subject to IQPC Ltd standard terms and conditions. Return of this email will indicate that you accept these terms.

Payment Terms Upon completion and return of the registration form full payment is required no later than 5 business days from the date of invoice. Payment of invoices by means other than by credit card, or purchase order (UK Plc and UK government bodies only) will be subject to a \$99 (plus VAT) per delegate processing fee. Payment must be received prior to the conference date. We reserve the right to refuse admission to the conference if payment has not been received.

IQPC Cancellation, Postponement and Substitution Policy You may substitute delegates at any time by providing reasonable advance notice to IQPC. For any cancellations received in writing not less than eight (8) days prior to the conference, you will receive a 90% credit to be used at another IQPC conference which must occur within one year from the date of issuance of such credit. An administration fee of 10% of the contract fee will be retained by IQPC for all permitted cancellations. No credit will be issued for any cancellations occurring within seven (7) days (inclusive) of the conference. In the event that IQPC cancels an event for any reason, you will receive a credit for 100% of the contract fee paid. You may use this credit for another IQPC event to be mutually agreed with IQPC, which must occur within one year from the date of cancellation. In the event that IQPC postpones an event for any reason and the delegate is unable or unwilling to attend in on the rescheduled date, you will receive a credit for 100% of the contract fee paid. You may use this credit for another IQPC event to be mutually agreed with IQPC, which must occur within one year from the date of postponement. Except as specified above, no credits will be issued for cancellations. There are no refunds given under any circumstances. IQPC is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. IQPC shall assume no liability whatsoever in the event this conference is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency. Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organizers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, IQPC reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on our web page as soon as possible.

Discounts All 'Early Bird' Discounts require payment at time of registration and before the cut-off date in order to receive any discount. Any discounts offered whether by IQPC (including team discounts) must also require payment at the time of registration. All discount offers cannot be combined with any other offer.

**PAYMENT MUST BE RECEIVED
PRIOR TO THE CONFERENCE**