

**CONVERGE Virtual Forum – 2021 Boulder County Fires, Session 4
April 13, 2022**

Comment From Lori Peek to Everyone:

Want to learn from the presenters!

Comment From Kristin Olofsson to Everyone:

Same - interested in the presenters.

Comment From Amir Behzadan to Everyone:

Exploring how technology developed to mitigate other types of disaster can transfer to wildfires

Comment From Shideh Dashti to Everyone:

Want to learn about the most recent research related to the fire.

Comment From Jolie Breeden to Everyone:

Keeping up with all the excellent research in progress here!

Comment From Karl Kim to Everyone:

Interested in convergence and learning.

Comment From Katherine Dickinson:

Connecting with others studying the fires

Comment From Aleya Kaushik to Everyone:

Awareness about causes and impacts of fire in our backyard

Comment From Heather Champeau to Everyone:

I would like to learn more about the research that's going on!

Comment From Jessica Austin to Everyone:

Learn about the research being conducted in the communities I call my neighbors!

Comment From Katherine Skakel to Everyone:

To learn from presenters

Comment From Eric Brown to Everyone:

Seeking data as we continue the fact finding needed to get our claims paid.

Comment From Bart Croes to Everyone:

Interested in continuing impacts on neighbors and friends

Comment From Jack Kartez to Everyone:

Jack Kartez NE Env. Finance Center (USEPA program)--long time hazard researcher

Comment From Natasha Albert to Everyone:

Working on Marshall Fire long term recovery

Comment From Candace Evans to Everyone:

interested in what research is going on in the community where I am close to!

Comment From Hussam Mahmoud to Everyone:

Present our prelim work on survivability of structures in wildfires

Comment From Kent Carlson to Everyone:

Interested in housing or wildfire related info

Comment From Brad Wham to Everyone:

Learn what we can together to help communities recover

Comment From Jennifer Tobin to Everyone:

To learn from all of these great scholars!

Comment From Mohammad Ashrafy to Everyone:

Hi everyone. Me too want to learn more and more from you

Question From Luther Green to Everyone:

Because of the advancing nature of climate change the risk of wildfire is now 12 mos long, how has the WUI getting redefined?

Comment From Kyle Breen to Everyone:

I'm interested in getting some more background information on the research happening—I'm hoping to do some education research in the aftermath of the fires

Comment From Rachel Adams to Everyone:

Interested in learning about what research efforts are currently underway

Comment From Jeffrey Gunderson to Everyone:

See what researchers are focusing on.

Comment From Apoorva Bajaj to Everyone:

I'm interested in learning whether and how weather radar could have helped in warning communities about developing wildfires.

Comment From Maribel Martinez to Everyone:

Interesting learning and how we can use concepts or research in our region

Comment From Alyson Harding to Everyone:

Eager to learn about potential opportunities to get involved. I am a PhD Candidate in Public Health, if anyone would like to connect!

Comment From Pegah Farshadmanesh to Everyone:

I would like to know how we can mitigate this challenge



Comment From Katherine Murphy to Everyone:

Hello Everyone, you can find the rest of the forums here:
<https://converge.colorado.edu/category/virtual-forums/>

Comment From Meghan Mordy to Everyone:

To learn how researchers are coming together to document the impacts of the fires and how they are coordinating their work through CONVERGE

Comment From Jaeho Choi to Everyone:

Aloha everyone. I am interested on updates of research and data collections.

Question From Eric Brown to Everyone:

Has anyone researched how the heat, wind, debris and fire hose PSI impacted windows?

Comment From Katherine Murphy to Everyone:

You can find the abstracts and list of presenters here: <https://converge.colorado.edu/virtual-forums/converge-virtual-forum-2021-boulder-county-fires-session-4/>

Comment From Katherine Murphy to Everyone:

*presenters

Comment From Katherine Murphy to Everyone:

Colorado State Mental Health Crisis Line 844-493-8255

Comment From Joy Pauschke to Everyone:

The NSF CMMI Engineering for Civil Infrastructure (ECI) Program has revised its program description to include fire, including wildland-urban interface fire

<https://beta.nsf.gov/funding/opportunities/engineering-civil-infrastructure-eci> Check this website next week for information on ECI Webinar on May 10, 2022

From Joy Pauschke to Everyone:

Correct link <https://beta.nsf.gov/funding/opportunities/engineering-civil-infrastructure-eci>

Response From Heather Champeau to Everyone:

@Hussam I can imagine Zillow etc. including something like this as a measure to report - a score of a house's vulnerability for people looking to buy.

Response From Jessica Austen to Everyone:

+1 Heather - This is such a great point!

Question From Amir Behzadan to Everyone:

@Hussam How do you define "survived" as in "survived structure"? Is the damage rated based on any FEMA guideline?

From Hussam Mahmoud to Everyone:

@Amir, good question... we have 4 different damage classifications that are based on the vulnerability level. In this ppt, I didn't discuss that because we turned our result into survived versus destroyed to match the data provided on line from Boulder County.



Question From Lori Peek to Everyone:

@Hussam - If you had unlimited time and resources, and access to the affected areas, what would you collect / do to further improve the quality of the data?

From Hussam Mahmoud to Everyone:

@Lori. The model requires data on building properties (windows), doors, roof type, etc. and all of these information could help improve the model. Detailed vegetation data is also critical.

Comment From Lori Peek to Everyone:

Thank you so much for this presentation, @Hussam!

Comment From Katherine Murphy to Everyone:

Hi everyone, as we continue through the presentations today, please write in the chat a "Q" if it is a question and please name who the question is addressed to (as we are already seeing!) Thank you so much

Response From Hussam Mahmoud to Everyone:

@ Heather. I think it would be very beneficial for potential buyers; hopefully without devaluing properties as long they can be hardened

Question From Pegah Farshadmanesh to Everyone:

@Hussam: Thanks for your presentation. I am wondering whether the dynamic changes of communities (building usage, etc.) and even vegetation changes of the environment can be captured in this analysis.

Response From Lori Peek to Everyone:

@Andy - This time compression effect is so important right now and is definitely emerging as so key.

Question From Eric Brown to Everyone:

Hussam - an add on to @Pegah's question. Vegetation changes, such as land management, height of open space grasses, etc., improvements for fire prevention in the future

From Hussam Mahmoud to Everyone:

@Pegah & Eric. Thanks for the question . Yes, the model can include such changes overtime. We have actually been thinking about that in relation to climate change...

Comment From Lori Peek to Everyone:

Thank you @Hussam

Question From Lori Peek to Everyone:

@Andy - Is the team also analyzing news coverage? I've found the local media coverage of the town hall meetings, local protests against some of the more stringent rebuild requirements, etc. has been captivating.... I think that might provide some additional textual data if there is space in the project for it?

Question From Eric Brown to Everyone:

@Andrew - have they determined the cause of the fire?

Question From Eric Brown to Everyone:

Instead of exclusively claiming global warming as the cause of the Marshall Fire, can you please tell me what investigations have been completed regarding Boulder County's mismanagement the Open Space areas west of McCaslin Blvd? Specifically, there was so much under-brush (fuel) built-up beneath the waist-high grass (that grew fast during our wet Spring and Summer). In most other states, "open space" is managed with livestock eating grass and knocking down brush. However, the Boulder County and Town of Superior open space had huge amounts of under-brush which many people believe fueled the massive fire.

From Andrew Rumbach to Everyone:

@Eric, not claiming at all that the fire is exclusively caused by climate change. And I agree that the land-use policies in the county re: open space will be an important issue to study.

Comment From to Lori Peek to Everyone:

Thank you so much @Andy - so timely and important.

Comment From Lori Peek to Everyone:

@Andy, this is such a reminder of the ripple effects of fire for those who may not have direct fire damage but are affected by other environmental impacts (water in this case, but also smoke, soil, etc.)

Question From Alan Nazzaro to Everyone:

Q. Andrew R. - has anyone looked into the cost of property insurance post fire, whether residents are having difficulty in getting insurance or prices rising exponentially due to the fire? Also whether home hardening and clear zones have an effect on the insurance issue?

From Andrew Rumbach to Everyone:

@Alan I haven't seen anything about post-fire insurance changes. The City of Louisville did a survey of fire survivors and saw a significant gap between insurance coverage and recovery costs. They published their data and analysis online, I can find and send if it is interesting to you

Question From Lori Peek to Everyone:

@Andy W. Thank you so much for this. Will you be able to tell us how many of these private well owners have been impacted? And were you and your team the ones who identified the total # impacted after the Camp Fire? (It was good to get a sense from you of just how many people / homes are on private wells or SDWS).

From Andrew Whelton to Everyone:

We are working with the County to figure out the number of wells. We found out how many were impacted by the Camp Fire by connecting with the state.

Question From Lori Peek to Everyone:

@Julie and @Lauren Did you and your team have environmental data (baseline) before the fire in this area? I am so glad you team has this plan for longitudinal sampling. Just trying to figure out if their were contaminants in the Coal Creek prior to the disaster? Thank you so much.

Question From Andrew Whelton to Everyone:



@Andy W. Thank you so much for this. Will you be able to tell us how many of these private well owners have been impacted? And were you and your team the ones who identified the total # impacted after the Camp Fire? (It was good to get a sense from you of just how many people / homes are on private wells or SDWS). ----- We are working with the County to figure out the number of wells. We found out how many were impacted by the Camp Fire by connecting with the state.

Response From Alan Nazzaro to Everyone:

Andy, I have been working on the Camp Fire Recovery for over two years now. The WUI in California is experiencing wildly fluctuating insurance premiums for property owners, depending upon where they are physically located and what building standards were in place when the structures were built. Residents are split on the issue of higher fire resistant building codes, but data is beginning to show the correlation between home hardening in conjunction with other community scale mitigation actions and risk reduction. I am part of a team working with the Town of Paradise, CA looking at which mitigation projects will "convince" Insurance companies that the risk can be reasonably reduced to allow for lower rates. We are working with a national risk modeling company and actuaries to give the data insurance industry credibility.

Response From Andrew Rumbach to Everyone:

@Alan would love to chat with you more

Question From Lori Peek to Everyone:

Excellent, thank you @Lauren! Where will we be able to find the dashboard?

Question From Amir Behzadan to Everyone:

@Hussam: Did you have baseline damage data for homes in your study area? Was prior damage (damage before the fire) factored in your analysis?

Question From Heather Champeau to Everyone:

@Lauren and @Julie - this is such cool work! I'm wondering: how might a social scientist or policymaker use your findings (or forthcoming findings)?

Response From Lori Peek to Everyone:

@Andy W. Our home did not burn in the Calwood fire but we are adjacent to the burn scar and the ~20 homes that did burn. We are also on well water and you are making me wonder about our water quality! Thank you.

Comment From Amir Behzadan to Everyone:

@Hussam: Thank you!

Response From Hussam Mahmoud to Everyone:

Of course! Thanks for the question.

Question From Eric Brown to Everyone:

@Hussam - did you have an overlay of what the temperatures were in the surrounding areas, along with the wind, etc.? We are looking into how stucco, windows, etc. have been impacted.

Question From Karl Kim to Everyone:



Has there been a social vulnerability analysis to identify high risk zones and neighborhoods for mitigation and zoning development controls?

Question From Brad Wham to Everyone:

@julie and @lauren, I know they have put a lot of hydromulch down along streams, really interested to see how that has or will effect results over time? Have you seen that yet?

Question From Andrew Whelton to Everyone:

Julie/Lauren, is the hydromulch acrylamide? Would be great to extract it to see what it is..... We've had this elsewhere (non-fire) issues. Something to think about.

Comment From Lori Peek to Everyone:

Thank you for the great questions!

Comment From Lori Peek to Everyone:

And fantastic presentations. Fascinating.

Comment From Andrew Rumbach to Everyone:

Thanks all!

Comment From Eric Brown to Everyone:

Thank you all!

Response From Hussam Mahmoud to Everyone:

@Eric - Thanks for the questions! Our home-to-home radiation model requires information on siding, windows, etc. So, yes we have included these parameters and their impact on the vulnerability

Comment From Brad Wham to Everyone:

Thanks all, so much!

Comment From Karl Kim to Everyone:

Thanks for your work and sharing with us

Comment From Katherine Murphy to Everyone:

Thank you all!!

You can find out more information at the CONVERGE website:

<https://converge.colorado.edu/category/virtual-forums/>

The recording of the forum will be posted on the CONVERGE Virtual Forum website and also at the RISE website. <https://www.colorado.edu/irt/rise/>

