



SFPE Subcommittee on Research & Innovation

Roadmap Working Group – Meeting Report

May 19, 2016

Present: Amanda Kimball (Group Leader), Adam Barowy, Hubert Biteau, Al Condello, Jason Floyd, Chris LaFleur, Greg Baker (Chair RTM), and Chris Jelenewicz (Staff).

The following was discussed:

Purpose of the working group – The working group was asked to do three things:

- a) Develop a plan to collect data
- b) Structure the data
- c) Define scope and topic for the roadmap (others will write specific sections)

List of Potential Topics for Roadmap – The working group developed the following list of a potential topics for the roadmap. This list of topics will be used to start a discussion for the Research Agenda Workshop that will be held on May 26 at the SFPE Conference in Warsaw.

1. Structures in fire
 - a. Tall timber buildings
2. Human behaviour
3. Environmental protection and sustainability
 - a. Tall timber buildings
 - b. Hazards of new building materials
 - c. Batteries and energy storage
 - d. PV arrays
 - e. Impact of fire on the environment
 - f. Eco-impact of FP
 - g. Toxicity of fire retardants

4. Big data and FP
 - a. Smart fire fighting
 - b. Smart buildings
 - c. Smart enforcement
5. Economic impact of fire
 - a. Value of Fire Depts to community
 - b. Cost/benefit of proposed code/standards changes
6. Demographics
 - a. Aging population
 - b. Mobility
 - c. Accessibility
 - d. Aging in place and home healthcare
7. Health and wellbeing of FS personnel
 - a. Risk of cancer
8. Resiliency
 - a. Reliability of FP Systems
9. Wildland fires
10. Tunnels and underground FP
11. Risk management
12. Models
 - a. Things that models can't do today
13. Data
 - a. Gaps in the Data
 - b. Distributing data to masses
14. FP Systems
 - a. Smoke Detection Nuisance
 - b. New system technologies (i.e. O2 reduction)
 - c. Reliability of systems
 - d. Aging of systems

It was suggested that some of the categories listed above can be cross-referenced with other categories. It was agreed that the working group will consider using a matrix approach when presenting this data.

It was also suggested that the working group use some type of software to manage the data.

Workshop in Warsaw -- Greg described the workshop in Warsaw. Brian Meacham will give a presentation about SFPEs vision for a research agenda and will be followed up by Greg who will give a presentation on the vision for the Research & Innovation Subcommittee. The workshop participants will be divided into groups. Each group will provide suggested revisions to the list of topics and will prioritize the list. A report for this workshop will be submitted to this working group.

Other Workshops – There will be an additional workshop at the September SFPE Conference that will be held in Denver. The agenda for this workshop will be based on the progress made by this working group at the time of the workshop.

Other Ways to Obtain Feedback – The working group will consider developing a survey of SFPE membership as a way of generating more data. Additionally, as a way to ensure transparency, periodical updates will be placed in the SFPE newsletter.

Next Meeting -- CJ will schedule a meeting via a Doodle Poll. This meeting will be sometime in July.

End of Report