



# RESEARCH FOUNDATION

## RESEARCH FOR THE NFPA MISSION

### STUDENT PROJECT PROSPECTUS

## Fires in Animal Housing Facilities

7 July 2020

**Background:** NFPA 150: Fire and Life Safety in Animal Housing Facilities Code, establishes life and safety requirements for both humans and animals in all types of animal housing facilities where animals are kept for any purpose, including barns, stables, kennels, animal shelters, veterinary facilities, zoos, laboratories, and racetracks. There is a lack of a single database of fire events in animal housing facilities. A database will show the numerous fires that have occurred and their impacts to the animal industry. This database will provide more exposure of facts and the advantage to using NFPA 150.

**Research Goal:** The objective of this project is to collect and analyze information on the cause of fires, fire losses (animal deaths and financial loss), and fire protection features (such as fire suppression, detection, etc.) of animal facility.

#### **Project Tasks:**

1. **Task 1: Literature review:** Conduct a literature review of published journals, conference proceedings, news articles to collect information on fire events at animal facilities including any historical fires that has occurred in animal facilities. The information collection should focus on cause of fire, fire loss including animal deaths and financial losses, and information on the fire protection features of the animal facility at the time of the fire event.
2. **Task 2: Prepare and implement questionnaire:**
  - Prepare a questionnaire to collect the above information from relevant animal facilities, groups and individuals. Implement the questionnaire by sending it to animal facilities, Association of Zoos & Aquariums (AZA), Global Animal organizations, ZAPH, as well as other relevant groups and individuals.
  - Analyze and summarize the responses from questionnaire.
3. **Task 3: Analysis and Final Report:** Develop a draft final report including the findings from literature review and questionnaire responses. Review the draft report with the project panel and submit a final report after considering the panel's comments.

**How this information will be used:** Project deliverables will be useful for NFPA 150: Fire and Life Safety in Animal Housing Facilities Code and will give an overall picture in its entirety about the importance of fires in animal housing facility and being proactive about design.