

Why Your Airport Is Burning

(and how to prevent it)

A photograph of a large fire burning inside an airport hangar. Thick, dark smoke is billowing out of the hangar's open bay doors, partially obscuring the sky. The fire is intense, with bright orange and yellow flames visible. The hangar has a blue and white exterior. The ground in the foreground is covered in snow.

Aaron Johnson
Rural/Metro Fire Dept.
ARFF Working Group 2019



Dusseldorf Airport Fire

SECOND EDITION

WITH A NEW SECTION: "ON ROBUSTNESS & FRAGILITY"

NEW YORK TIMES BESTSELLER

THE BLACK SWAN

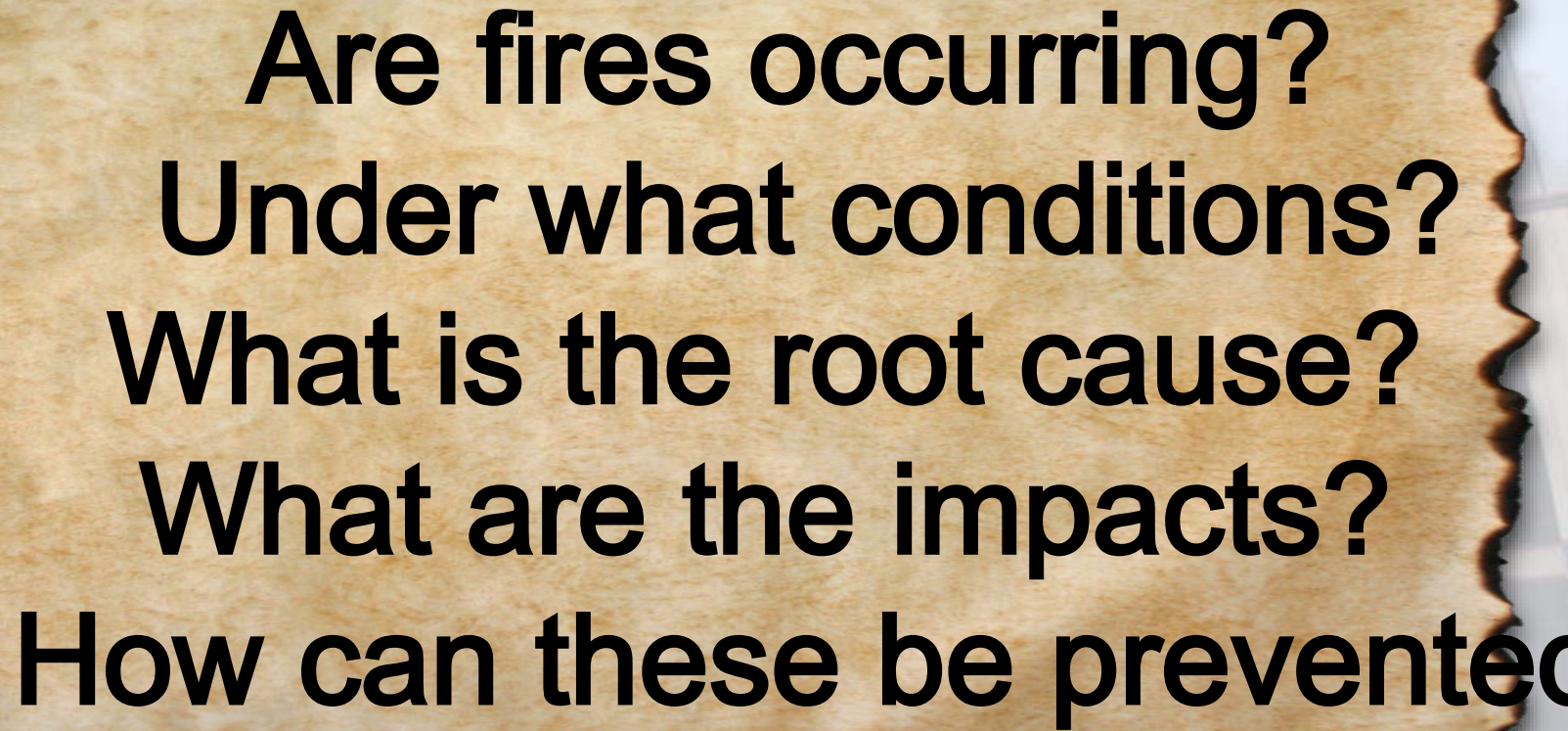


The Impact of the
HIGHLY IMPROBABLE

"The most prophetic voice of all,"

—GQ

Nassim Nicholas Taleb

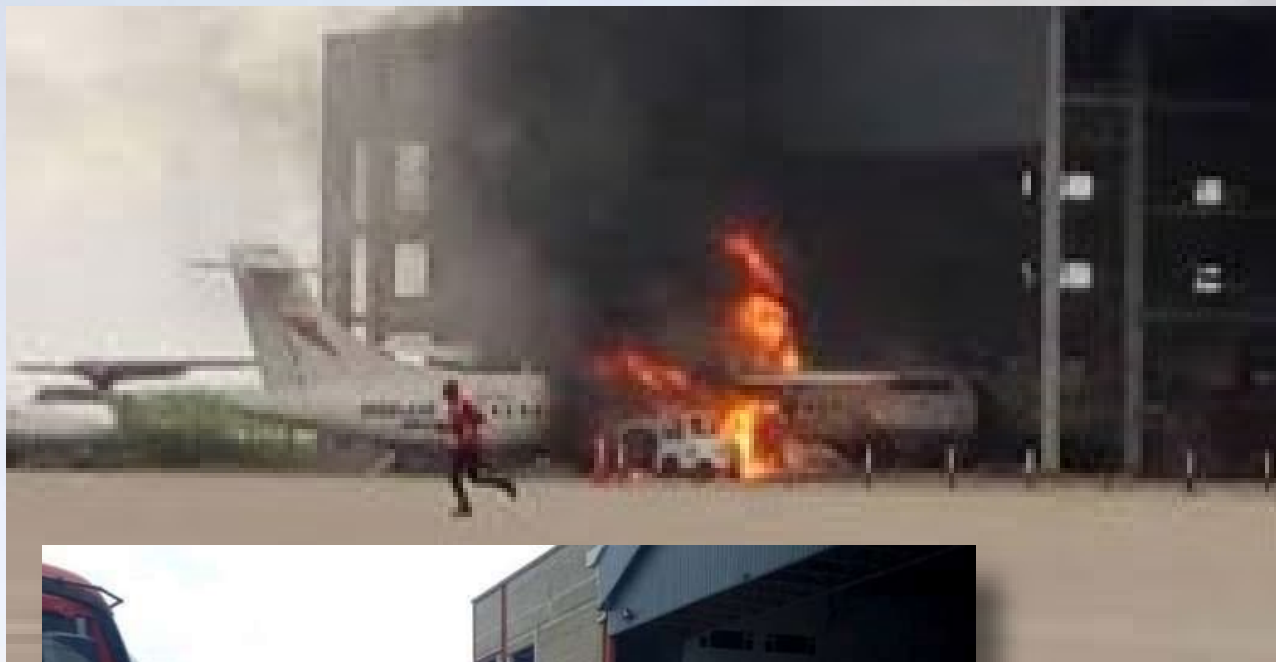


Are fires occurring?
Under what conditions?
What is the root cause?
What are the impacts?
How can these be prevented?

#5: Arson and Aircraft Origin



Aurora FAA Radar Center





#5: Arson and Aircraft Origin
#4: Other / Miscellaneous



Max Conrad Flying School



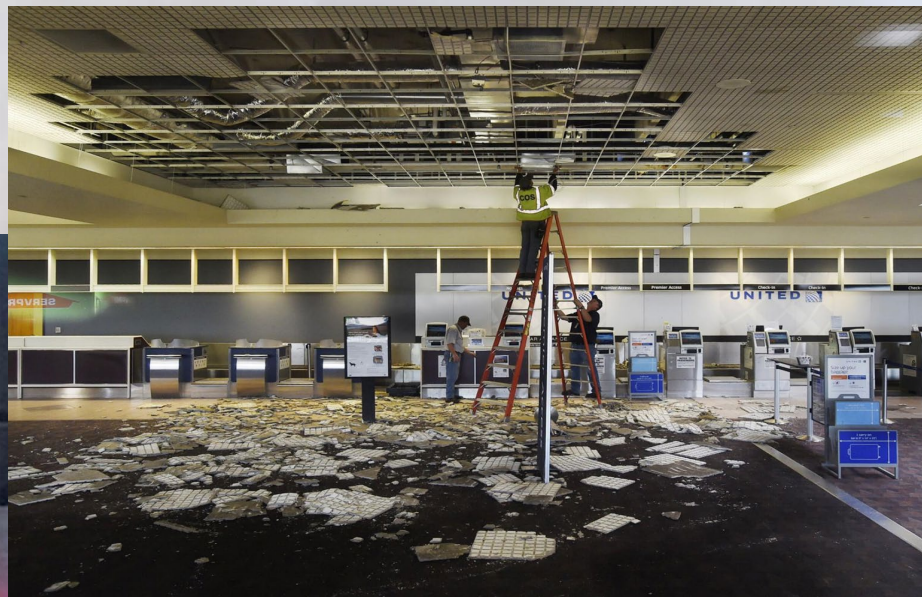
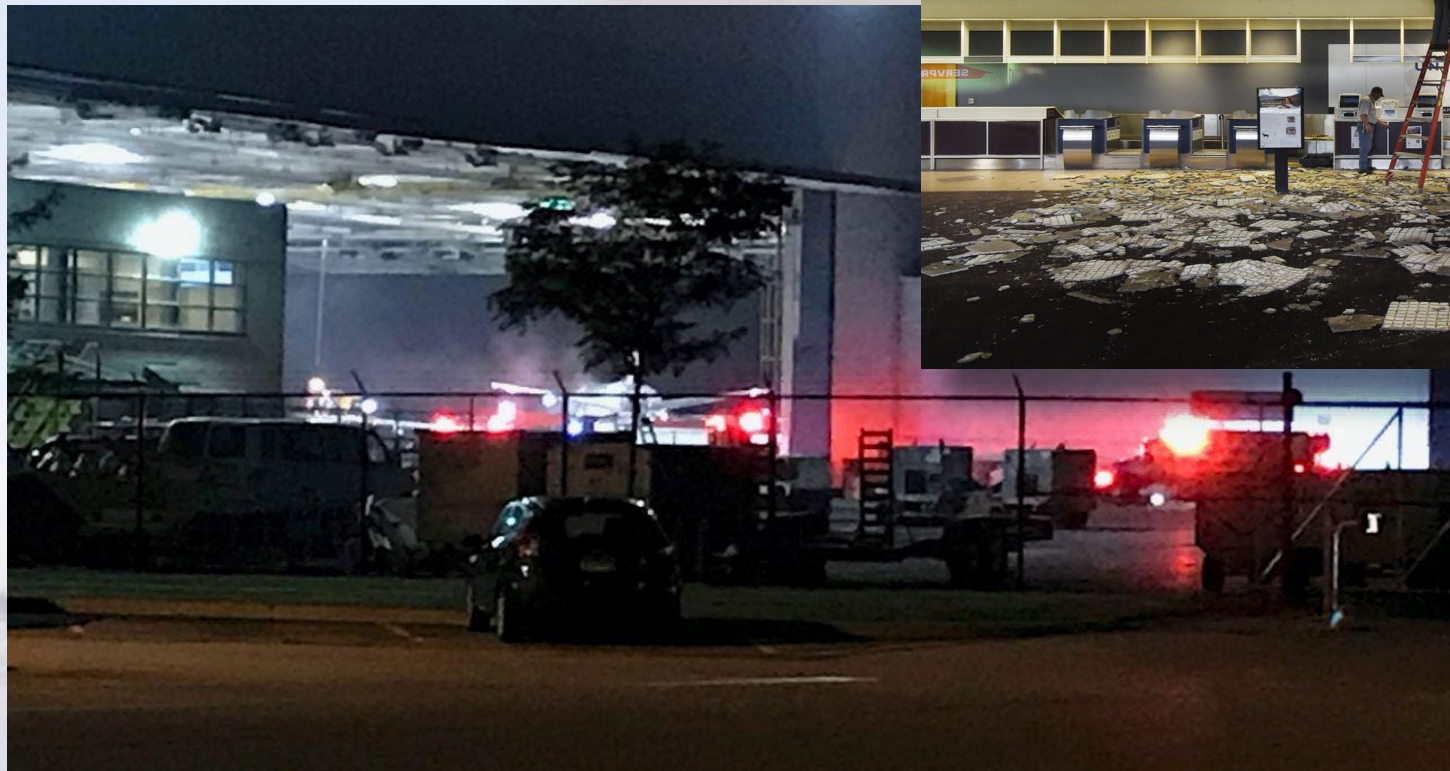
#5: Arson and Aircraft Origin

4: Other / Miscellaneous

#3: Hot Work Operations



Hot Work Operations

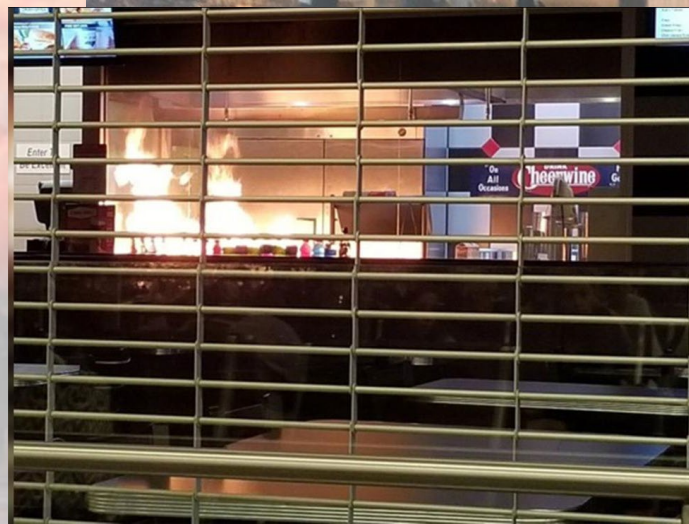


#5: Arson and Aircraft Origin

4: Other / Miscellaneous

3: Hot Work Operations

#2: Cooking Related



#5: Arson and Aircraft Origin

4: Other / Miscellaneous

3: Hot Work Operations

2: Cooking Related

#1: Electrical



#5: Arson and Aircraft Origin

4: Other / Miscellaneous

3: Hot Work Operations

2: Cooking Related

1 Electrical

UNDETERMINED



Fostoria Municipal Hangar



#1 Know Your Facility



#1 Know Your Facility

**Demographics
Geography
Building Stock
Fire Experience
Responses
Hazards
Economic Stability**

#1 Know Your Facility

#2 Have a Plan



#1 Know Your Facility

#2 Have a Plan

#3 Enforce the Code

#3 *Enforce the Code*

NFPA ~~1~~ Fire Code

NFPA ~~101~~ Life Safety Code

NFPA ~~407~~ *Standard for Aircraft Fuel Servicing*

NFPA ~~409~~ *Standard on Aircraft Hangars*

NFPA ~~410~~ *Standard on Aircraft Maintenance*

NFPA ~~415~~ *Standard on Airport Terminal Buildings*

NFPA ~~418~~ *Standard for Heliports*

#3 *Enforce the Code*

International Fire Code (IFC)
Chapter 20 Aviation Facilities

International Building Code (IBC)
Section 412 Aircraft-related Occupancies

#1 Know Your Facility

#2 Have a Plan

#3 Enforce the Code

#4 Investigate Incidents

#4 *Investigate Incidents*

**Public Awareness and Education
Aggressive Inspections
Firefighting tactics
Modifying regulatory requirements
Prevention and mitigation**

#1 Know Your Facility

#2 Have a Plan

#3 Enforce the Code

#4 Investigate Incidents

#5 Educate and Train

