Safety: Take It Home

EH&S Fall 2014 Safety Summit
Agenda

Welcome
Stephen Simpson

Distracted Driving
Deputy Dillon Combs, Story County Sheriff’s Department

Autumn Home Safety
Laura Kim, EH&S

Fire and Electrical Safety
Troy Carey, EH&S

News & Noteworthy
EH&S
Distracted Driving
Caused by Texting, Alcohol, and Drugs
Accidents Caused By Distracted Driving in Story County
Teens aren’t the only ones guilty of texting and driving
The Three Primary Goals of Distracted Driving Enforcement

1. Reduce the number of crashes on the road
2. Reduce the number of injuries on the road
3. Reduce the number of deaths on the road

We enforce the laws because we care!
Crime/Crash Clock 2012 Values

**Crime**
- 1 murder every 35.4 minutes
- 1 violent crime every 26 seconds
- 1 property crime every 3.5 seconds
- 1 burglary every 15 seconds

**Crash**
- 1 fatality every 16 minutes
- 1 person injured every 14 seconds
- 1 property damage crash every 8 seconds
- 1 reported crash every 6 seconds
Number of traffic accident related deaths amongst Law Enforcement Officers
How Texting, Alcohol, and Drugs AFFECT YOUR DRIVING

- Judgment
- Muscular Coordination
- Vision
- Slow Reactions
Texting and Driving

Texting takes your eyes off the road for an average of 4.6 seconds, basically blindfolding you for the length of a football field at 55mph.
Estimated Stopping Distances

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<th>Speed (mph)</th>
<th>Dry</th>
<th>Wet</th>
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<tr>
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Calculated in Feet
Texting and Driving Stats

• 36% admit to texting while driving – NHTSA

• In 2010, 3,092 people were killed in crashes involving distracted drivers

• In 2010, 416,000 people were injured in motor vehicle crashes involving a distracted driver
The Law: Texting

A person shall not use a hand-held electronic device to write, send or read a text message while driving a motor vehicle, unless the vehicle is at a complete stop off the traveled portion of the road.

FINE AMOUNT: $132.50
Teens who have a restricted driver’s license cannot use any electronic communication device or electronic entertainment while driving.

FINE AMOUNT: $132.50
Texting While Driving: The Consequences

Aaron Deveau

Involved in a crash in February 2011:

- Sentenced to a year in Jail
- Suspended his DL for 15 years
- 40 hours of community service
- Has to live with having killed someone
Feb 20th, 2011, Deveau’s vehicle crossed the yellow line and crashed head-on into Donald Bowley’s truck. Donald was 55 years old and had 3 kids. He was taken off of life support 18 days later. He had severe head trauma. Deveau’s phone records showed that he sent and received a text at the time of the crash.
By addressing areas most under our control, we can dramatically cut deaths.
Distracted Driving

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Autumn Home Safety
Fall Check List

- Clean gutters and downspouts
- Inspect roof and chimney
- Hang holiday lights
- Test smoke detectors
- Set clocks for daylight savings (November 2, 2014)

www.ehs.iastate.edu
What Do These Things Have in Common?

- Heights
- Elevated working surfaces
- Ladders

Can be accomplished safely with correct use of a ladder
Why Do We Care?

• Between 1990-2005
  • Over 2.1 million ladder injuries occurred
  • 136,000 per year
  • 97.3% of these injuries occurred at non-occupational settings
    • Homes
    • Farms
How Do These Injuries Occur?

33% occur due to over reaching

45% occur due to ladder misplacement
Types of Ladders

- Multi-position ladder
- Step ladder
- Step ladder
- Extension ladder
Materials

Aluminum

Wood

Fiberglass
Additional Considerations

• Capacity (Your body weight + tools)

• Diversity

• Storage
Extension Ladder Measurements

• 4 to 1 ratio

• 3 feet of extension

• How to determine the height

• The hand test
Inspection Checklist
Hanging Holiday Lights/Cleaning Gutters

Hazards

• Height of gutters
• What is below the gutters
  • Bushes/shrubs
  • Level ground
• Weight of added tools

Countermeasures

• Ladder should extend beyond
• Plan ahead
  • Clear-trim bushes and shrubs
  • Level the ground
• Increase ladder capacity
Inspect Roof and Chimney

Hazards

• Height of roof
• Do you need to get off the ladder and onto the roof
• Overhead obstructions
  • Power lines
  • Cables

Countermeasures

• Increase ladder height
• Three feet beyond the roof line
  • 3 feet = 3 ladder rungs
• Remove if possible
  • Proper ladder material
  • Avoid metal/aluminum
Test Smoke Detectors/Adjusting Clocks

- November 2\textsuperscript{nd}
- Traditionally done using a chair
- Use a step ladder
Additional Safety Measures

• Three points of contact

• Always face the ladder

• Remain centered

• Carry small items in pouch or tool belt

• Large items use hand line or ask for assistance
Embrace Technology
Home Fire Safety
Home Structure Fires

- Most common months for home structure fires are December January
Electrical Safety
Home Heating

• Have your furnace inspected and cleaned annually

• Change your furnace filter on a regular basis

• Do not store combustible material near your furnace
Fireplaces

- Never leave a fire unattended
- Keep the screen closed
- Coals can stay hot for up to two days after the fire is extinguished
- Have your chimney inspected annually and cleaned as necessary
Space Heaters

- 81% of home heating fire fatalities
- Turn off when leaving room
- Automatic shut off
- Plug cords directly into outlets
- Keep flammable items at least 3 feet away
Candles

- December is the peak time of year

- 1/3 of candle fires start in the bedroom

- Over 1/2 of candle fires start because of close proximity of flammable objects

- Keep at least 12 inches away from flammable objects

- Extinguish when leaving the room or going to bed
Holiday Decorations

• Keep lit candles away

• Lights are either for indoor or outdoor use, not both

• Connect no more than 3 strands of mini light sets

• Connect no more than a max of 50 screw-in bulbs

• Keep live trees watered
Smoke Alarms

• Install on each floor and inside and outside each bedroom

• Test monthly

• Change batteries every 6 months

• Replace alarm every 10 years

• 2 out of 3 fire deaths happen in homes without smoke alarms
Carbon Monoxide Alarms

• Install on each floor and outside each bedroom

• Test monthly, replace as indicated by instructions

• If alarm sounds, go outside
Carbon Monoxide Producers
News & Noteworthy

- Emergency Response Guide Video
- Laboratory Safety: Chemical Storage Online Course
- Laboratory Safety: Fume Hoods Online Course
- Submit your Biohazardous Material Inventory

Next Safety Summit
March 6, 2015