INCIDENT INVESTIGATION

Ken Roberts, MS, CIH, CSP

Environmental Services Officer

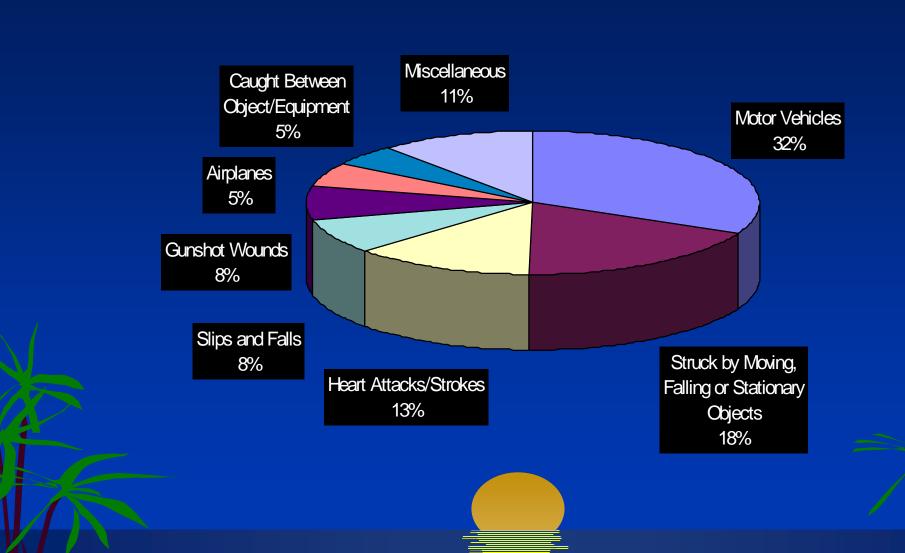
Pima County Facilities Management

What's your Favorite Hobby?





Leading Causes of Workplace Deaths



The Aim of the Investigation

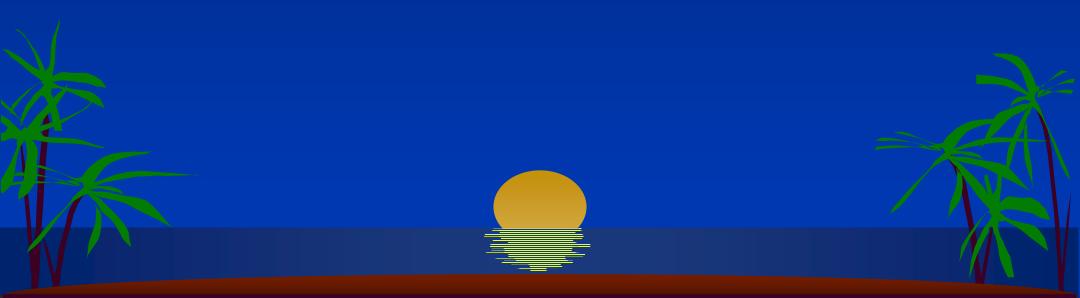
- EXONERATE INDIVIDUALS OR MANAGEMENT
- I SATISFY INSURANCE REQUIREMENTS
- I DEFEND A POSITION FOR LEGAL ARGUEMENT
- OR, TO ASSIGN BLAME

The Aim of the Investigation

THE KEY RESULT SHOULD BE TO PREVENT A RECURRENCE OF THE SAME ACCIDENT



WHAT IS AN ACCIDENT?

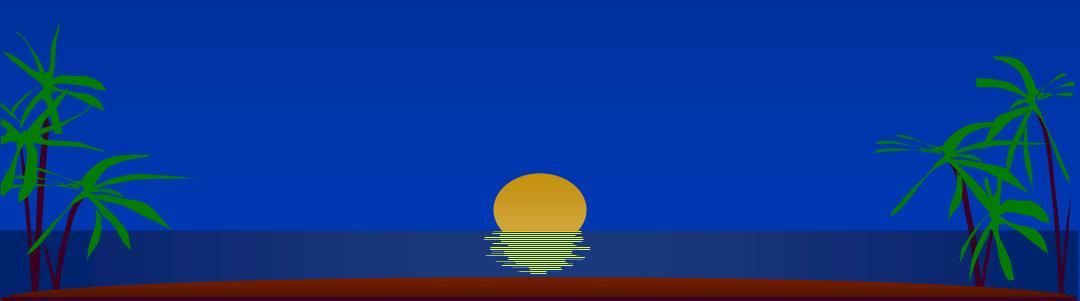


AN UNPLANNED AND UNWELCOMED EVENT WHICH INTERRUPTS NORMAL ACTIVITY.





THREE BASIC TYPES OF ACCIDENTS



MINOR ACCIDENTS:

SUCH AS PAPER CUTS TO FINGERS OR DROPPING A BOX OF MATERIALS





MORE SERIOUS ACCIDENTS THAT CAUSE INJURY OR DAMAGE TO EQUIPMENT OR PROPERTY:

SUCH AS A FORKLIFT DROPPING A LOAD OR SOMEONE FALLING OFF A LADDER

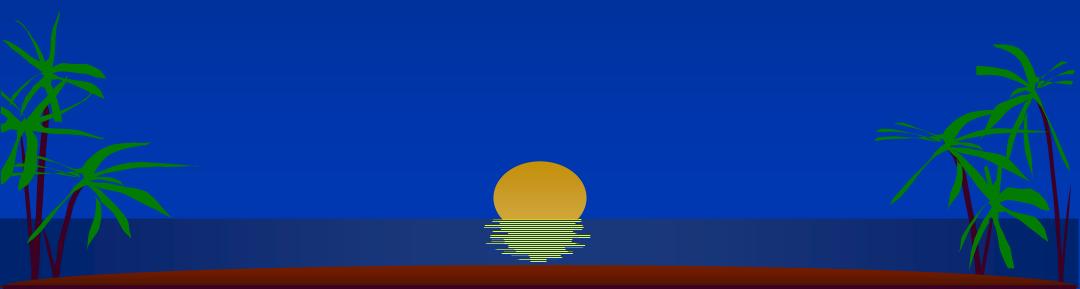


ACCIDENTS THAT OCCUR OVER AN EXTENDED TIME FRAME:

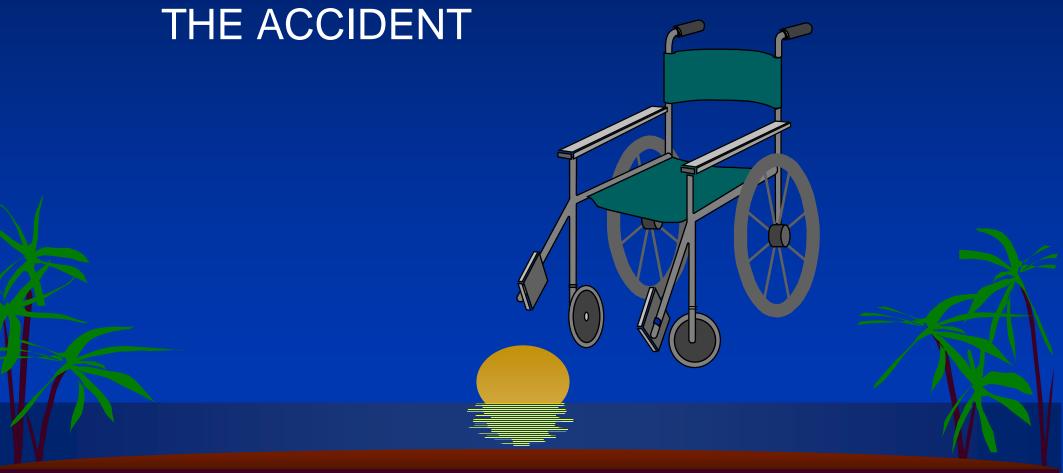
SUCH AS HEARING LOSS OR AN ILLNESS RESULTING FROM EXPOSURE TO CHEMICALS

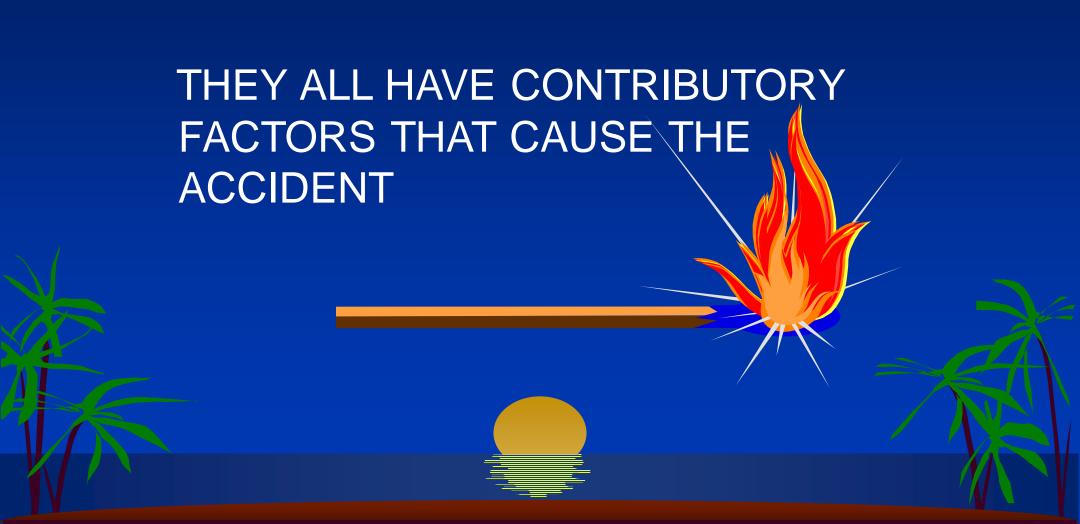


ACCIDENTS HAVE TWO THINGS IN COMMON



THE ACCIDENT





OUTCOMES OF ACCIDENTS

NEGATIVE ASPECTS

- DEATH & INJURY
- DISEASE
- DAMAGE TO EQUIPMENT & PROPERTY
- LITIGATION COSTS
- LOST PRODUCTIVITY

OUTCOMES OF ACCIDENTS

POSITIVE ASPECTS

- ACCIDENT INVESTIGATION
- CHANGE TO SAFETY PROGRAMS





I ENVIRONMENTAL

DESIGN

SYSTEMS & PROCEDURES

HUMAN BEHAVIOUR

ENVIRONMENTAL

- NOISE
- VAPORS, FUMES, DUST
- LIGHT
- HEAT
- CRITTERS





SYSTEMS & PROCEDURES

– LACK OF SYSTEMS & PROCEDURES



HUMAN BEHAVIOUR



NOT LIMITED TO THE PERSON
 INVOLVED IN THE ACCIDENT



ADMITTING



WHO SHOULD INVESTIGATE

DEPENDENT ON SEVERITY OF THE ACCIDENT

- INVESTIGATION TEAM
 - u INDIVIDUALS INVOLVED
 - u SUPERVISOR
 - **u SAFETY SUPERVISOR**
 - **u UPPER MANAGEMENT**
 - **u OUTSIDE CONSULTANTS**





GATHER INFORMATION & ESTABLISH FACTS

I ISOLATE ESSENTIAL CONTRIBUTORY FACTORS



DETERMINE CORRECTIVE ACTIONS

IMPLEMENT CORRECTIVE ACTIONS

FACT GATHERING

- BE IMPARTIAL & OBJECTIVE
- COMPILE PROCEDURES & RULES FOR THE AREA
- GATHER MAINTENANCE RECORDS ON EQUIPMENT INVOLVED



FACT GATHERING (CONTINUED)

- ISOLATE ACCIDENT SCENE
- PHOTOS & DIAGRAMS
- DO NOT DISCARD OR DESTROY ANYTHING





FACT GATHERING (CONTINUED)

- TIME IS OF THE ESSENCE
- OBTAIN INFORMATION
 - u INJURED
 - u WITNESSES
 - u SUPERVISORS
 - u OTHER PERSONNEL



FACT GATHERING (CONTINUED)

- INTERVIEWS (SEPARATELY)
 - u WHAT WERE YOU DOING?
 - u HOW DO YOU THINK THE ACCIDENT OCCURRED?
 - u HOW WERE YOU TRAINED FOR THE JOB?
 - WHAT IS THE SAFETY PROCEDURE FOR THIS JOB?

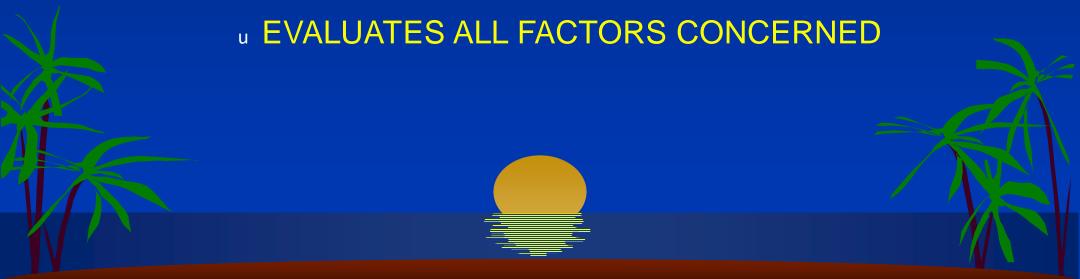
FACT GATHERING (CONTINUED)

- OBTAIN FACTS NOT OPINIONS

 MAKE IT CLEAR THE OBJECT OF THE INVESTIGATION IS TO AVOID RECURRENCE, NOT TO APPORTION BLAME

I ISOLATE ESSENTIAL CONTRIBUTORY FACTORS

- INVESTIGATION TEAM



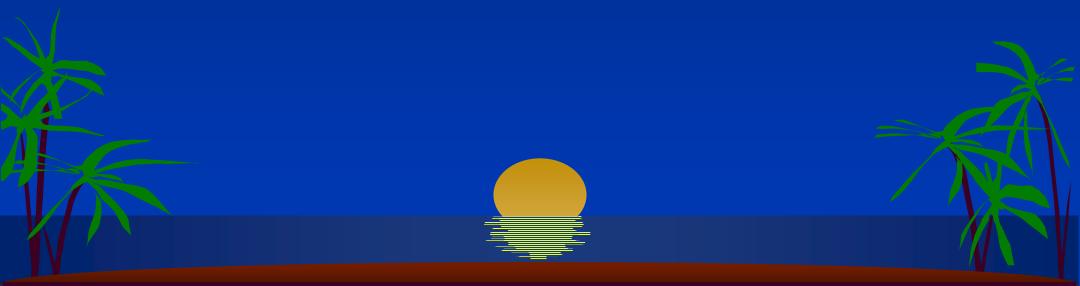
I ISOLATE ESSENTIAL CONTRIBUTORY FACTORS

- INVESTIGATION TEAM





WOULD THE ACCIDENT HAVE HAPPENED IF THIS PARTICULAR FACTOR WAS NOT PRESENT?



DETERMINE CORRECTIVE ACTIONS

- INVESTIGATION TEAM

u INTERPRETS & DRAWS CONCLUSION

u DISTINCTION BETWEEN INTERMEDIATE & UNDERLYING CAUSES



DETERMINE CORRECTIVE ACTIONS

- INVESTIGATION TEAM

RECOMMENDATIONS BASED ON KEY CONTRIBUTORY FACTORS AND UNDERLYING CAUSES





IMPLEMENT CORRECTIVE ACTIONS

- INVESTIGATION TEAM

- u RECOMMENDATION(S) MUST BE COMMUNICATED CLEARLY
- u STRICT TIME TABLE ESTABLISHED
- u FOLLOW UP CONDUCTED





BENEFITS OF ACCIDENT INVESTIGATION

PREVENTING RECURRENCE

I IDENTIFYING OUT-MODED PROCEDURES

I IMPROVEMENTS TO WORK ENVIRONMENT



BENEFITS OF ACCIDENT INVESTIGATION

I INCREASED PRODUCTIVITY

I IMPROVEMENT OF OPERATIONAL & SAFETY PROCEDURES

I RAISES SAFETY AWARENESS LEVEL



BENEFITS OF ACCIDENT INVESTIGATION

WHEN AN ORGANIZATION REACTS SWIFTLY AND POSTIVELY TO ACCIDENTS AND INJURIES, ITS ACTIONS REAFFIRM ITS COMMITMENT TO THE SAFETY AND WELL-BEING OF ITS EMPLOYEES



Are we to leave our children a country ridden with accidents and their corresponding burden of human and economic loss?

Or . . . can we prove that as Americans, we can progress, both technically and morally, to provide our citizens with a life and work style worthy of the sufferings, sacrifices and expectations of our founding fathers?

Raymond J. Colvin, Sr. NYU.....1959

SAFETY FIRST

THE SAFE WAY IS THE BEST WAY

