



BUILDING EVACUATION AND SCERT DRILLS

Summary and Lessons Learned

October 20 2016

Stanford
UNIVERSITY IT

WHY DO WE RUN DRILLS | WHY ARE EXERCISES IMPORTANT?



I hear ... I forget
I see ... I remember
I do ... I understand

– Confucius

DRILL RESULTS | BY THE NUMBERS



10

buildings
assessed



12

casualties
triaged,
transported
and treated



6

live victims
triaged,
transported
and treated



10

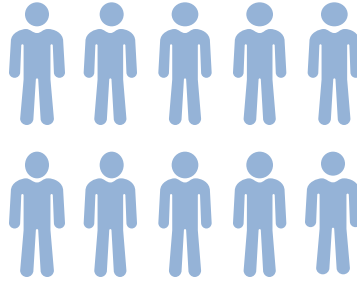
buildings
evacuated

DRILL PARTICIPANTS



Stanford SCERT & Ham Radio

Debbie Barney, Brittany Bierly, Ben Carlucci, Michael Dillow, Blair Douglas, Jim Finch, Carol Hill, Robin McClish, Chris Musselman, Rocco Petrunti, Matthew Ricks, Lea Roberts, Patrick Rocillo, Mark Tyx



Regional CERT & Ham Radio

Bill Bauriedel, Lee Courtney, Bob DeFranco, Al Fischer, Sanya Lu, Dennis Parker, Tom Prussing, Richard Warren, Susan Warren, Carolina Womack



Palo Alto PD/OES

Ken Dueker



Live Victims

Lydia Barrett, Riki Gay, Will Law, Nan McKenna, Chris Rose, Adam Seishas



Photographers

Thuylyhn Nguyen, Ja Ruangsuk

33 total participants

DRILL TIMELINE

9:08 – 9:55

SCERT Activation (check-in, briefing, assignments, equipment deployment)



10:22 – 10:55

Triage Teams (3) deployed

11:45 – 12:00

Debrief

9:49 – 10:33

BAT Teams (2) deployed

11:14 – 11:45

Live Victim Extrications (6)

12:00 – 12:30

Pack up ARK

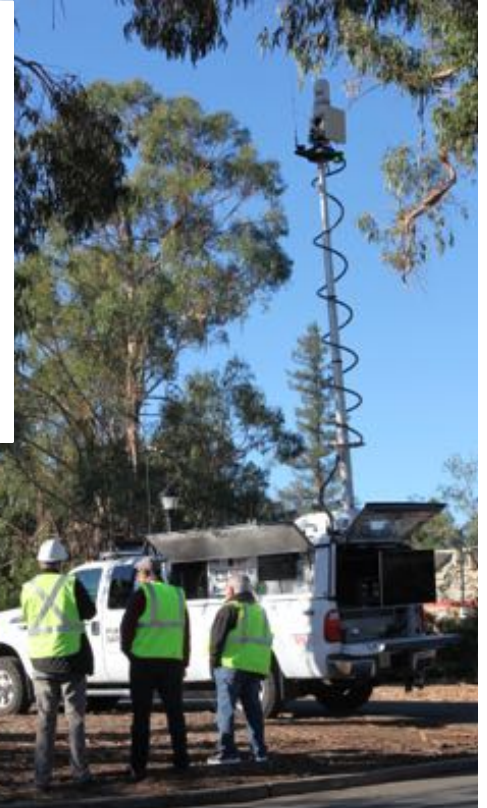
1:10 – 1:24

Building Evacuation Drill

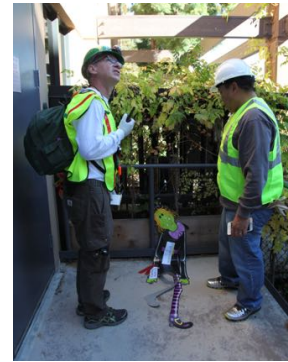
SCERT DEPLOYMENT



EMERGENCY COMMUNICATIONS DEMO



SCERT OPERATIONS AND LOGISTICS

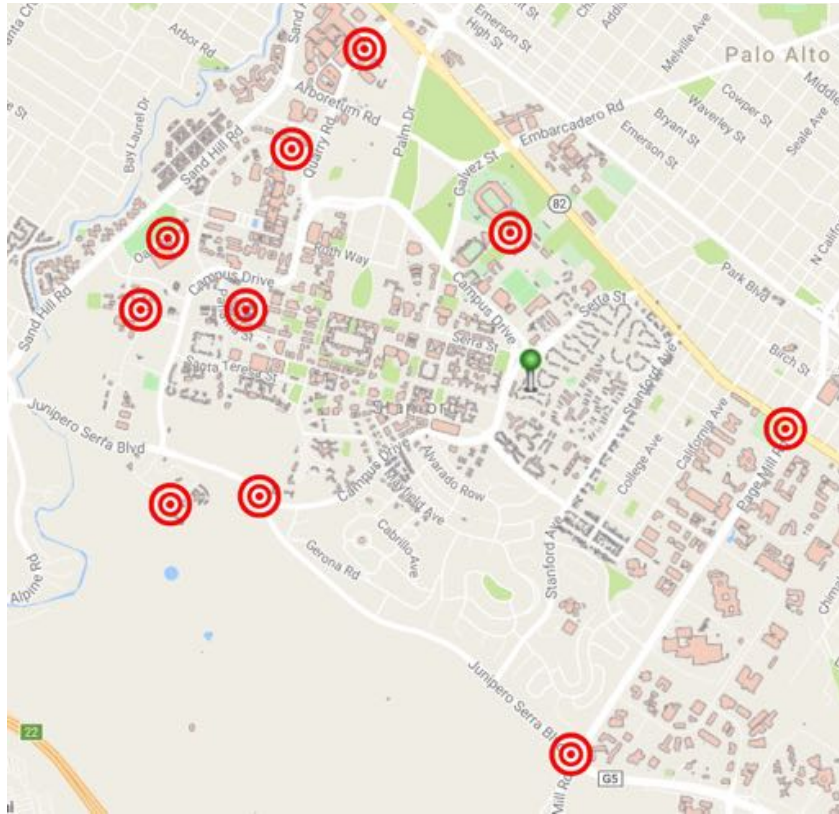


EMERGENCY DRILL IN PROGRESS
UIT SCERT
OCTOBER 20, 2016

REDWOOD HALL

- Building evacuation underway.
- Some windows broken.
- Partial collapse on east side of building.
- Doors jammed.

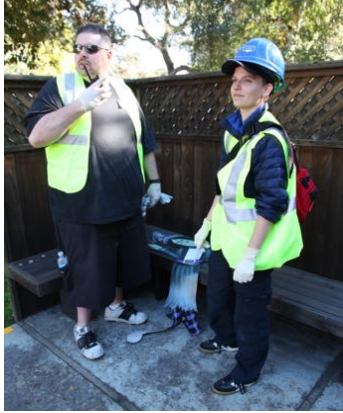
HAM RADIO OPERATIONS



SCERT MEDICAL OPERATIONS



SCERT MEDICAL OPERATIONS

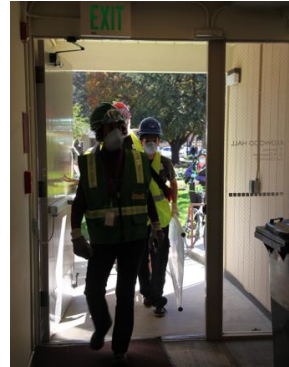


Triage Status Markers
 * When in doubt, evaluate to a higher condition for TRIAGE and

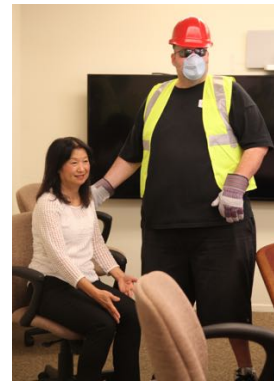
Hello, my name is (first name). I am here to help you. Please grab my hand.
 Tilt head if unconscious.

Victim	Type of Injury	Pertinent Information	Category	Treatment Profile	Transport (Yes/No)
#13	Impaled, 1 foot piece of shrapnel in right eye	Respirations LESS THAN 30/minute	Minor	Delayed	
		Radial pulse present	Immediate		
		Awake	Deceased		

SCERT LIVE VICTIM EXTRICATION



SCERT LIVE VICTIM EXTRICATION



SCERT DEBRIEF AND CLOSURE



SCERT DEBRIEF AND CLOSURE



BUILDING EVACUATION DRILL



SCERT DRILL | SUMMARY EVALUATION

PLUS

What Worked Well

- Teamwork across UIT, Stanford and regional CERT/Ham volunteers.
- Extensive communications network, including ham radio.
- Extrication was adaptive and validating.
- Use of live victims made a big difference.
- Med team included two physicians and an EMT.
- Photographers did a great job of capturing images of the drill.
- Having Palo Alto PD/OES attend was a validation of the effort.
- Effective planning and communication ahead of the drill.

DELTAS

Areas for Improvement

- Some confusion in radio communication – who was speaking, location, etc.
- Triage not performed in correct order during extrication.
- Key roles not assigned – logistics supervisor, team scribe, security.
- Ops and building assessment forms need to be reviewed and updated.
- Two-man buddy system broke down.
- Need to reorganize contents of ARK to quickly get to necessary equipment.
- Need to denote landmarks on maps, instead of just north, south, etc.

BUILDING EVACUATION DRILL | SUMMARY EVALUATION

PLUS

What Worked Well

- Staff knew where they needed to go.
- Staff left the building immediately.
- Evacuations were mostly orderly.
- Generally, didn't take too long to check in.
- Managers and peer staff were able to report on whereabouts of missing staff.
- Easy access to the building rosters.
- Reminder emails were helpful.
- Debrief in advance with Admin team was helpful.

DELTAS

Areas for Improvement

- At one EAP, staff were impatient, cutting in line, and changing check-in process.
- Consider getting managers more involved in the process, including reinforcing the importance of the drill with their staffs.
- Coordination between building staff that meet at the same EAP.
- EAP locations for Puichon, Pine and Bambi need to be re-evaluated.
- Review the forms to ensure that the codes in the columns line up.
- Determine how to account for or make note of visitors that go to the EAP.

QUESTIONS?





Thank you!