



STANFORD UNIVERSITY  
UNIVERSITY IT

# **BUILDING EVACUATION AND SCERT DRILLS**

October 22 2015

Summary and Lessons Learned

Stanford University

WHY DO WE RUN DRILLS? WHY ARE EXERCISES IMPORTANT?



Confucius says...

I hear → I forget

I see → I remember

I do → I understand

## DRILL RESULTS, BY THE NUMBERS

9

buildings  
evacuated

11

buildings  
assessed

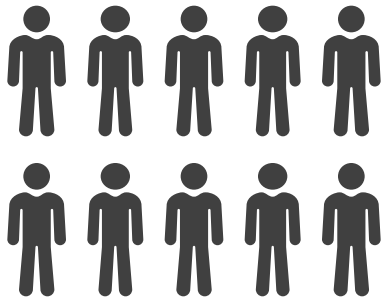
15

casualties  
triaged,  
transported,  
and treated

4

live victims  
triaged,  
transported,  
and treated

## DRILL PARTICIPANTS



### **IT SCERT**

Elma Buni, Jim Finch, William Johnson, Robin McClish, Patrick Murray, Matthew Ricks, Patrick Rocillo, Andrew Romey, Kevin Tully, Mark Tyx



### **Stanford SCERT**

Debbie Barney (H&S), Janet Elder (H&S), Racquel Hagen (Blume Earthquake), Carol Hill (DoR), Van-Ahn Nguyen (H&S), Midge Owens (SUL), Raina Phillips (SUL), Lee Redmon (GSB), Gioia Zuccherro (SOM)



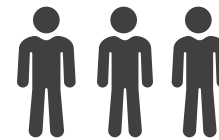
### **Off-Campus CERT**

Bill Bauriedel, Tom Prussing



### **Ham Radio Operations**

Ben Carlucci, Rocco Petrunti, Lea Roberts



### **Live Victims**

Sonia Baca, Nan McKenna, Yen Willis



### **Photographers**

Adam Lewenberg, Thuylyhn Nguyen, Ja Ruangsuk



### **Observer**

Elise McMath (EH&S)

## DRILL TIMELINE

**10:03 – 10:21**

Building Evacuation  
Drill



**10:46 – 11:25**

BAT Team (1)  
deployed



**11:40 – 12:07**

Live Victim  
Extrications (3)



**12:35 – 01:00**

Pack up ARK



**10:03 – 10:45**

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

**10:55 – 11:40**

Triage Teams (3)  
deployed

**12:07 – 12:35**

Debrief

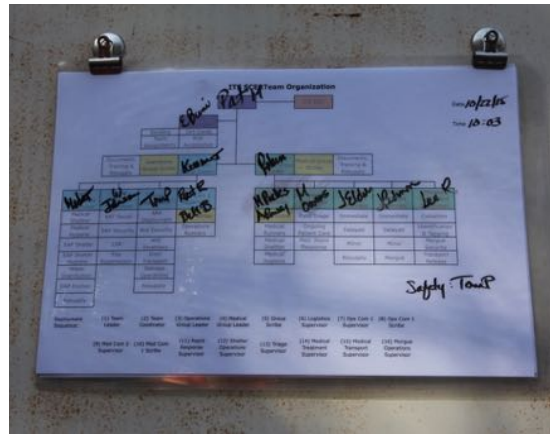


## BUILDING EVACUATION DRILL





# SCERT DEPLOYMENT



# SCERT OPERATIONS AND LOGISTICS



October 22 ITS SCERT Drill  
 Forsythe Hall  
 Orderly Building Evacuation Underway  
 Windows Broken  
 Some Roof Antennas Down  
 Building Cracks Visible  
 OSU Secure – Evacuation to Puichon Not Possible - Fire  
 ITOC Secure – Shattered Glass  
 Generators Running  
 Casualties (1) Not Moving (Front)  
 (1) Not Moving (Atrium)

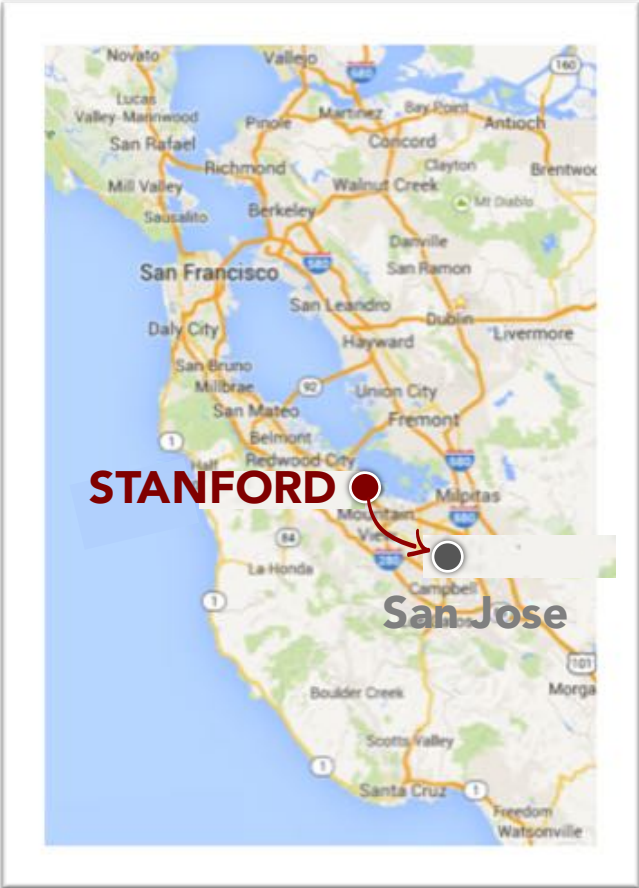


DOC BAT/Triage Report

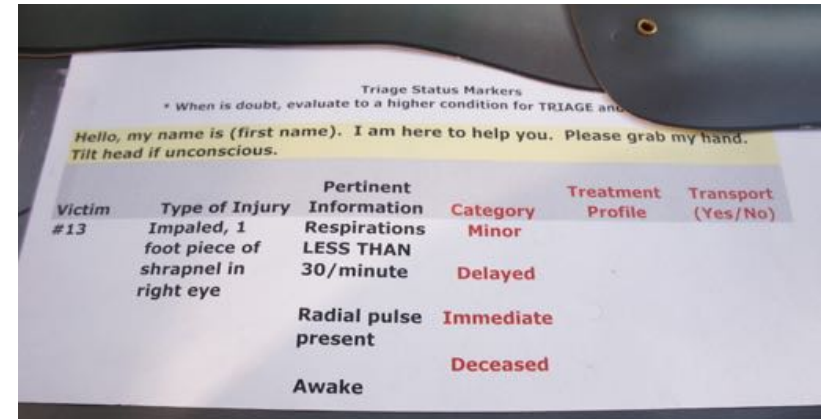
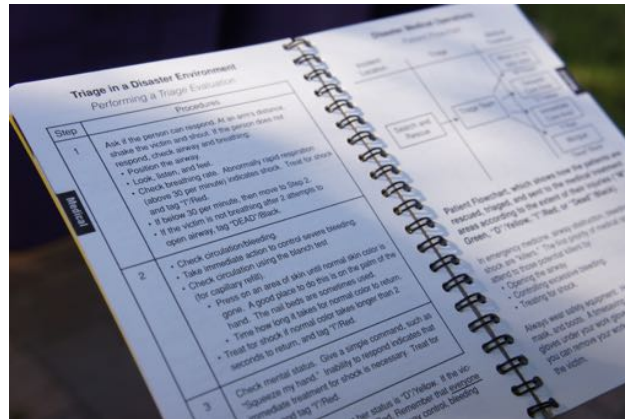
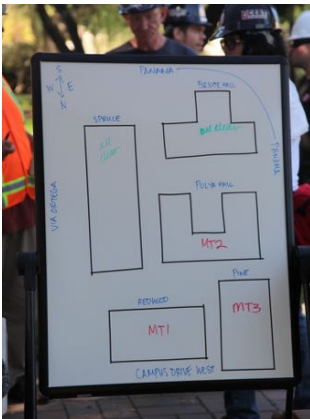
Building	Close	Open	Damage	Triage
Polya Hall	X	<del>Not</del>	Door Summer 2 crack on and	not 11
Pine Hall	X		Windows	1111
Carnegie Quad		X	Windows broken	
Ventura Hall		X	Windows Smoke	multiple
Cordura Hall		X	Windows Broken Visible Smoke	
Hospital			major damage	evac major cas
Birch	X		ROOF	evac
Oak	X		Windows	evac



# HAM RADIO OPERATIONS



# SCERT MEDICAL OPERATIONS



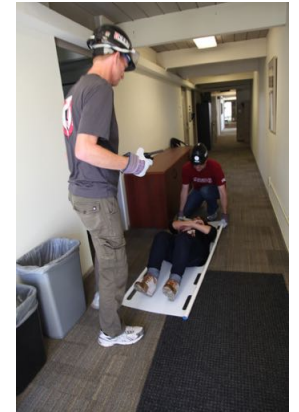


## SCERT MEDICAL OPERATIONS





## SCERT LIVE VICTIM EXTRACTION



## SCERT DEBRIEF AND CLOSURE





## SCERT DEBRIEF AND CLOSURE



Stanford University



## BUILDING EVACUATION DRILL – SUMMARY EVALUATION

### PLUS

#### *What Worked Well*

- Check-in was orderly; formed a line for Polya Hall
- Staff were able to provide status on their co-workers
- Everyone was quick in evacuating
- Classrooms were not interrupted
- Reminders and instructions in advance provided guidance to new staff and recently transferred staff to Jordan Quad
- Building rosters in red folders were up to date

### DELTA

#### *Areas for Improvement*

- Horns were too loud in the buildings
- EAPs for Pine and Puichon need to be re-evaluated (not enough space and near other hazards)
- EAP map should be included in the red folder
- Building roster for Forsythe too long; perhaps should categorize by department
- Unclear instructions on what to do with the fire extinguishers

## SCERT DRILL – SUMMARY EVALUATION

### PLUS

#### *What Worked Well*

- Seamless integration of non-IT SCERT volunteers
- Inclusion of live victims
- Reaching San Jose via Ham Radio
- Three excellent photographers capturing images from the drill
- Inclusion of white boards to update building status
- Clear instructions and assignment of duties
- Good refresher since SCERT and BAT training

### DELTA

#### *Areas for Improvement*

- As scribe, difficult to listen to radio traffic and take detailed notes
- Would like to review basic concepts in advance of drill; encourage participation in monthly SCERT forums (including hands-on training/exercises)
- Battery acid leaked onto some of the equipment in the ark
- Rotating roles would help with cross training
- Need to recruit more SCERT members within IT and across the university
- Let non-IT buildings in area also know about drill in advance, including signs
- Should further integrate Ham Radio into core of drill

**Questions?**

