LFE as a Development Tool for Next Generation Earthquake Professionals

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EERI LFE is an important partner in post-EQ reconnaissance activities and knowledge dissemination, but ... 

- Many members would like to participate
- LFE team opportunities are limited
LFE Travel Study Program was designed to help fill the gap

**Framework**
- 5 to 6 days
- Advance understanding of recent earthquake

**Curriculum**
- Multidisciplinary
- Interactive learning
- Use EERI tools

**Interaction with local professionals**
- Collaborate with local partner

**Participants**
- Grad students & young professionals
LFE Travel Study Program - Goals

- Engage in LFE activities
- Dialogue and interaction amongst members in various disciplines
- Gain stronger connection to EERI and its LFE program to become future leaders
- Increase the participants’ knowledge of earthquake response and recovery topics
- Learn directly from local experts in the field
- Inspire participants to apply lessons learned to preparedness in their own community upon return home
- Opportunity for experienced members to transfer their knowledge
Participant Learning Outcomes

1. Recognize the value of both immediate and long term reconnaissance activities.

2. Know, for the visited region, the earthquake impacts; current levels of recovery to natural, built, economic and social environments; and constraints and challenges to recovery and the rebuilding process.

3. Make connections between impacts, reconnaissance, and lessons learned, etc.

4. Understand the multidisciplinary processes and components and challenges in earthquake recovery.

5. Understand the interdependencies and coordination necessary among the many disciplines involved in earthquake risk reduction and the differences around the world.
Focus of Program - Resilience

● Two major activities
  ○ Investigate resilience of four major vital community services
    (schools, housing, healthcare, business)
  ○ Field evaluation of tsunami evacuation routes in Vina del Mar

● Deliverables
  ○ Group report on resilience of one vital community service to be posted in EERI EQ Clearinghouse
  ○ Group report on one tsunami evacuation route
  ○ Geotagged photos in EQ clearinghouse
  ○ Short video of experience and lessons learned on LFE Travel Study Program
Program elements

Lectures
- Local Experts
- International Experts
- Reconnaissance Team Members

Tours
- Research Facilities
- Operational Facilities
- Damage Sites

Resilience Studies
- Field Data Collection
- Use of EERI LFE tools

Interviews
- Local Professionals
- Community Members

EERI LFE Travel Study
Each day consisted of lectures and hands on reconnaissance activities

<table>
<thead>
<tr>
<th>Day</th>
<th>Lectures (4): Chile’s hazards and recovery, with particular attention to housing and health care</th>
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</thead>
<tbody>
<tr>
<td>Saturday</td>
<td>Activities (2): Geolocating photos &amp; the process for upload to EERI web site; project group planning on strategies for data collection</td>
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<td>Welcome Dinner</td>
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<td>Sunday</td>
<td>Field Trip: Chilean Navy Hydrographic and Oceanographic Service (SHOA) to view Tsunami Warning system</td>
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<tr>
<td></td>
<td>Lectures (2): Lessons from 2010, 2014 and 2015 tsunamis; Elements of tsunami evacuation</td>
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<td></td>
<td>Activity: Field resilience observation, tsunami evacuation paths</td>
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<td>Monday</td>
<td>Structural performance and mitigation with seismic isolation</td>
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<td>Visit to base isolator testing lab and to isolated buildings</td>
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<td>Dinner with local professionals</td>
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</tbody>
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EERI LFE Travel Study
Projects Facilitated Hands-on Data Gathering and Reflection

Resilience Reconnaissance

- Housing*
- Healthcare
- Schools
- Businesses*

Tsunami Evacuation Paths

Final Reports
http://www.eqclearinghouse.org/2015-09-16-chile/2017/07/24/
Geotagging and Clearinghouse tools were used in projects.
The program met its goals

- Next travel study to New Zealand
- Engaging current participants in planning for next trip
- Add day to trip to provide more time for writing and reflection
Along the way...

we made new friends

and professional contacts

Questions?