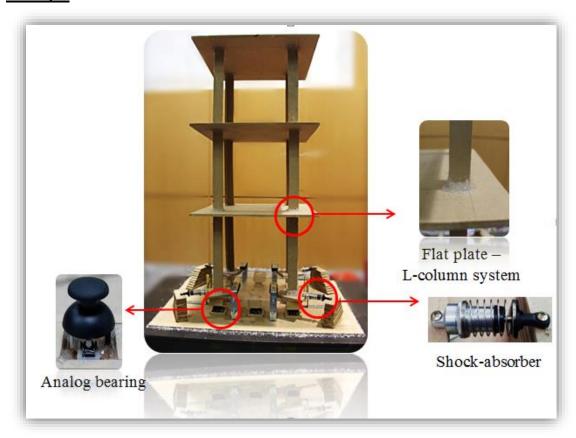
INNOVATIVE SHOCK-ABSORBER AND ANALOG BEARING SYSTEM

Concepts



Innovative Shock-Absorber and Analog Bearing System:

- Flat plate L column system
 To distribute lateral forces from horizontal to vertical structural system through joint system.
- 2. Analog Bearing
 - Use rotational mechanism to lengthen the period of the structure
 - Re-centering mechanism.
- 3. Shock-Absorber

To absorb some of the energy going into the building during earthquake

- 4. Behavior
 - High frequency EQ → rotational mechanism
 - Low frequency EQ → rocking mechanism

5. Failure

- One-direction shaking table test experiment \rightarrow joint failure at 950 gal
- Two-direction (Competition day) → analog bearing failure at 900 gal

> Art Design

- Architectural → traditional house in West Sumatra, Indonesia, which called "Rumah Gadang".
- Poster → landmark in West Sumatra, Indonesia, which called "Jam Gadang"

> Awards



Building Model

Poster



Most Creative Architectural (Art) Design Award IDEERS 2014



Best Presentation (Poster) Award IDEERS 2014



Team G-12 of IDEERS 2014 Left-Right: Victor, Denny, Vivi and Sisca