

**Session ID:** RES-11

**Title**

SEISMIC RETROFIT FOR RESILIENT COMMUNITIES

**Convenors**

M. Fox <sup>1</sup>, D. Grant <sup>2</sup>, W.Y. Kam <sup>3</sup>

**Description**

In the words of Salvano Briceno, former Director of the UN Secretariat of the International Strategy for Disaster Reduction... There are still too many poorly designed and constructed buildings in earthquake prone areas and too many people dying because of it. Around the world millions of seismically deficient buildings put people's lives and livelihoods at risk and there is a clear need to improve and retrofit existing building stock.

This session aims to explore current approaches and future directions for seismic retrofit and risk reduction programmes. In particular, the session is intended to confront the vastly different retrofit needs for diverse communities across the globe. On the one hand the major concern of many communities around the world will simply be to protect life safety... the seismic engineers most fundamental and traditional design objective. On the other hand, many emerging approaches are going beyond life safety to look at economic losses, downtime and the lasting impacts that earthquakes can have on our built environments and the communities they service.

Are our current seismic risk policies and research focuses in line with societal expectations? Are incentives or legal requirements for retrofit balanced against other risks that we are exposed to? What are the innovative approaches that we need to retrofit buildings in a cost-efficient manner as our focus on sustainability continues to grow?

The session will include presentations by the invited speakers, presentation of submitted papers, and a mini panel discussion led by the chairs.

**Invited Speakers**

I. Almufti <sup>4</sup>, J. Bothara <sup>5</sup>, M. Deyanova <sup>6</sup>, R. Jury <sup>7</sup>, R. Pekelnicky <sup>8</sup>

**Affiliations**

<sup>1</sup> University of Pavia, Department of Civil Engineering and Architecture, Pavia, Italy, <sup>2</sup> Arup, London, United Kingdom, <sup>3</sup> Beca, Singapore, Singapore, <sup>4</sup> Arup, San Francisco, USA, <sup>5</sup> ResiPro International, Christchurch, New Zealand, <sup>6</sup> Mott MacDonald, Sofia, Bulgaria, <sup>7</sup> Beca, Wellington, New Zealand, <sup>8</sup> Degenkolb Engineers, San Francisco, USA