

**Session ID:** IDD-2

**Title**

SUSTAINABLE TECHNOLOGIES FOR SEISMIC ISOLATION

**Convenors**

M.R. Marsico <sup>1</sup>, J. Londono Monsalve <sup>1</sup>, M. Craciun <sup>1</sup>

**Description**

This cross-disciplinary session is about avant-garde analytical, numerical, and experimental studies on sustainable solutions for seismic isolation. It would include but not limited to, sustainable materials and metamaterials, novel technologies and design, and economically valuable and durable solutions. Applications are foreseen but not limited to build environment, infrastructures as well as in wider industry sectors including highly sensitive equipment, aerospace, rail fasteners and offshore facilities.

The vibrations isolation industry is now confronting the challenge of reducing carbon footprint, throughout the whole life cycle assessment, from material production, manufacturing, transportation, installation, and maintenance, and it is desperate to explore cost-effective technologies that will support them with their binding commitment to reach Net Zero. This session will foreground the most recent sustainable and economically valuable solutions that will preserve the environment as well as minimizing the catastrophic impact of earthquakes on the society.

These innovative technologies will be in line with the United Nations 2030 Sustainable Development Global Goals across-the-board, and in particular with Goal 9 industry, innovation and infrastructure, Goal 11 sustainable cities and communities, Goal 12 responsible consumption and production.

Industry authorship and industry-driven research contributions will be well received.

**Invited Speakers**

G. Milani <sup>2</sup>, A. Strauss <sup>3</sup>, D. Konstantinidis <sup>4</sup>, S. Pope <sup>5</sup>, J. Busfield <sup>6</sup>, L. Rosati <sup>7</sup>, G. Degrande <sup>8</sup>

**Affiliations**

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