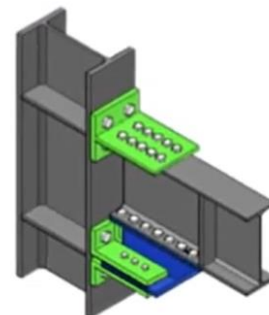


Research Seminar Organized by EERI@UCSD

DESIGN OF FREE FROM DAMAGE SEISMIC RESILIENT STRUCTURES: THE EXPERIENCE OF FREEDAM PROJECT

This seminar will show the development of innovative beam-to-column connections equipped with friction dampers which are located at the bottom flange level of the connected beam to dissipate the earthquake input energy. The friction resistance is calibrated by acting on the number and diameter of bolts and their tightening torque governing the preloading. Such connections exhibit wide and stable hysteresis loops almost without any damage to the connection steel plate elements, so that they can be referred as "Free from Damage Connections" (FREEDAM). In the seminar the details of experimental tests, design examples according to Eurocode 8 and more effective design methodologies will be presented. The project has been funded by Research Fund for Coal & Steel - GRANT AGREEMENT No. RFSR-CT-2015-00022 FREEDAM Project "FREE from DAMage steel connections"



Speakers:



Prof. Rosario Montuori (University of Salerno, Italy)

Rosario Montuori is full Professor of Structural Engineering. He is author of more than 150 journal articles, conference papers and scientific reports. His principal research activities are devoted to the control of collapse mechanism for steel structures and to the seismic design.

He serves as a reviewer for several international journals, and he is Associate Editor of the International Journal "Ingegneria Sismica - International Journal of Seismic Engineering".



Prof. Elide NASTRI (University of Salerno, Italy)

Elide NASTRI is Assistant Professor of Structural Engineering. She is author of more than 100 papers and scientific reports. She participated to several research project national and international. She is the editor in chief of the "Costruzioni Metalliche" Journal.

Her scientific contribution is mainly devoted to seismic design and behaviour of steel structures.

Date and Time: June 22nd, 1:00 PM

Venue: SME 448

Agenda:

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| 1:00 - 1:05 | Opening introduction |
| 1:05 - 1:30 | Features and applications of FREEDAM joints (Speaker: Elide NASTRI, University of Salerno) |
| 1:30 - 1:55 | Design of Moment Resisting Frames equipped with FREEDAM joints: EU experience and alternative methods (Speaker: Rosario Montuori, University of Salerno) |
| 2:00 - 3:00 | Discussion with speakers |

If you have any questions, please email eeeri@ucsd.edu. For events update, please visit eeeri.ucsd.edu.