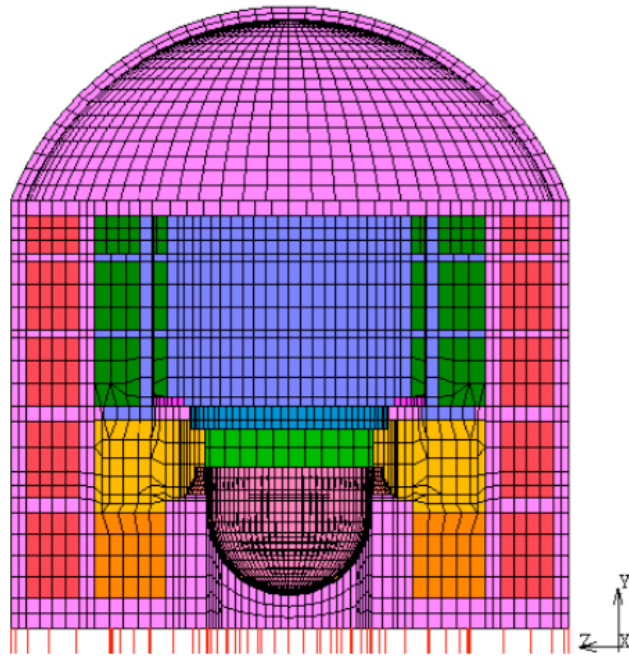




**Professor Rosa Lo Frano**



From: Rosa Lo Frano and Giuseppe Forasassi, "Preliminary analysis of the structural effects due to dynamic loads of the isolated next generation lead cooled reactor", 20<sup>th</sup> International Conference on Structural Mechanics in Reactor Technology (SMiRT 20), Espoo, Finland, August 9-14, 2009

See:

[https://www.researchgate.net/profile/Rosa\\_Frano](https://www.researchgate.net/profile/Rosa_Frano)

<https://translate.google.com/translate?hl=en&sl=it&u=http://unimap.unipi.it/cercapersone/dettaglio.php%3Fri%3D6459&prev=search>

<http://unimap.unipi.it/cercapersone/dettaglio.php?ri=6459>

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### **Biography:**

In 2004 she graduated in Nuclear Engineering from the University of Pisa and in 2008 received her PhD in Nuclear Engineering and Industrial Safety at the University of Pisa.

In 2007 she won the European ENEN PhD Symposium Award for the "Best PhD in nuclear field research". Since 2007 she has been an expert in the field of Structural Engineering of Mech., Chem. and Nuclear in the Faculty of Nuclear Systems Design at the University of Pisa.

2007 to present she has taught technical courses in Mech Engineering, Chem. and Nuclear, and Complex Systems Design and Equipment in Nuclear Engineering at the University of Pisa.

2009 to 2011: In charge of the Numerical Methods Module and Calculation Codes for Nuclear Engineering leading to the Master's Degree in Technology of Nuclear Plants at the University of Pisa.

2009/10: In charge of the Seismic analysis module (Fluid-structures and Sloshing effects and Models and numerical codes for seismic analyzes) leading to the Master's Degree in Science and Technology of Nuclear Plants at the University of Genoa.

2012/2013: Taught course of Complex Systems Design.

Her research activity, documented by publications in journals and international conferences, is primarily concerned with the design and safety of nuclear installations and components, the structural integrity against external events, the transport of radioactive material in normal conditions and accident, etc.

She has been one of the key actors/scientific directors of projects and national and international agreements, such as the AdP ENEA-MSE 2008-09, PAR 2010 and 2011, ELSY; LEADER GENTLE; NUGENIA, IGD-TP, etc.

### **Selected Publications:**

Rosa Lo Frano and Giuseppe Forasassi, "Preliminary analysis of the structural effects due to dynamic loads of the isolated next generation lead cooled reactor", 20<sup>th</sup> International Conference on Structural Mechanics in Reactor Technology (SMiRT 20), Espoo, Finland, August 9-14, 2009

Lo Frano, R., and Forasassi, G., 2009, "Experimental Evidence of Imperfection Influence on the Buckling of Thin Cylindrical Shell Under Uniform External Pressure," Nucl. Eng. Des., 239, pp. 193–200.

R. Lo Frano and G. Forasassi, "Influence of the curved geometrical shape on the thin shell buckling phenomenon behavior", Nuclear Engineering and Design, Vol. 239, No. 7, pp 1229-1236, 2009

Frano, R.L.; and Forasassi, G. (2008). Dynamic buckling in a next generation metal coolant nuclear reactor. Journal of Achievements in Materials and Manufacturing Engineering, 29(2), 163-166.

G. Forasassi, R. Lo Frano, "Curved thin shell buckling behaviour", Journal of Achievements in Materials and Manufacturing Engineering, Vol. 23, No. 2, pp 55-58, August 2007

G. Forasassi, R. Lo Frano, Buckling of imperfect cylindrical shell under lateral pressure, Journal of Achievements in Materials and Manufacturing Engineering 18 (2006) 287-290.

G. Forasassi, R. Lo Frano, Buckling of thin cylindrical shell subject to uniform external pressure, Proceedings of the International Congress on Advanced in Nuclear Power Plant ICAPP'06, Reno, 2006.