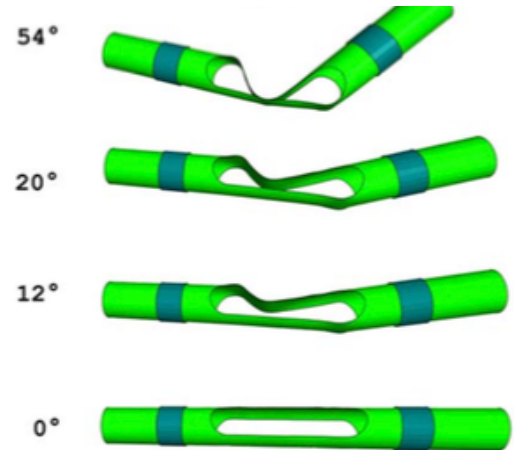
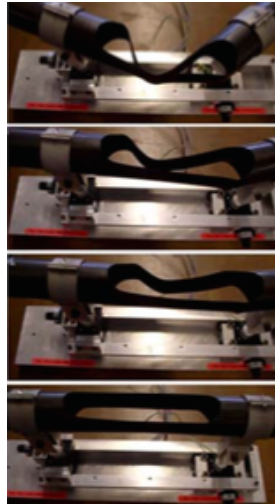




Professor Sergio Pellegrino



From: "Folding and deployment of thin shell structures", by Pellegrino, *Extremely Deformable Structures*, CISM Int. Centre for Mechanical Sciences, Vol. 562, pp 179-267, 2015

Division of Engineering and Applied Science,
California Institute of Technology

See:

http://media.caltech.edu/experts_guide/3289

<http://www.eas.caltech.edu/people/3289/profile>

<http://www2.galcit.caltech.edu/people/faculty/pellegrino.html>

<http://www.galcit.caltech.edu/news?keyword=Sergio+Pellegrino>

<http://www-civ.eng.cam.ac.uk/dsl/>

<http://www.worldcat.org/identities/lccn-n00-14779>

<http://www.journalogy.net/Author/12782691/sergio-pellegrino>

"images for sergio pellegrino" - GOOGLE

<http://civil.seu.edu.cn/s/305/t/1623/d4/a9/info54441.htm>

<http://www.barnesandnoble.com/c/sergio-pellegrino>

<http://www.amazon.com/gp/aw/s?i=stripbooks&field-author=Sergio%20Pellegrino>

Joyce and Kent Kresa Professor of Aeronautics and Professor Civil Engineering, and Jet Propulsion Laboratory Senior Research Scientist

Degrees and Appointments

Laurea, University of Naples, 1982; Ph.D., University of Cambridge, 1986. Professor, Caltech, 2007-2010; Kresa Professor, 2010-. Jet Propulsion Laboratory Senior Research Scientist, 2009-.

Research Overview

Professor Pellegrino's research focuses on lightweight structures and particularly on problems involving packaging, deployment, shape control and stability.

List of Research Areas

novel concepts for deployable and adaptive space structures; deployment kinematics and dynamics; analysis of lightweight structures and model verification studies; ultra-thin composite materials; bistable and multistable shells and space frames; deployment and stability of balloons

Research Centers

Keck Institute for Space Studies

Awards:

February 2011: Graduate student Xiaowei Deng and Sergio Pellegrino, Joyce and Kent Kresa Professor of Aeronautics and Professor of Civil Engineering, and Jet Propulsion Laboratory Senior Research Scientist, have received the Best Paper award from the 11th AIAA Gossamer Systems Forum for their technical paper "Wrinkling of Orthotropic Viscoelastic Membranes"

November 2009: Sergio Pellegrino, Professor of Aeronautics and Civil Engineering and Jet Propulsion Laboratory Senior Research Scientist, has received the NASA Robert H. Goddard Exceptional Achievement Award as a member of the superpressure balloon team. The award is for sound engineering and operational development, outstanding teamwork, and perseverance in building a new scientific balloon capability for NASA.

December 2008: The paper "Mapping Two-Way Grids on to Free-Form Surfaces" by Sergio Pellegrino, Professor of Aeronautics and Civil Engineering, and co-authors Pete Winslow and Shrikant Sharma has been selected as the winner of the IASS Tsuboi Award in the category of the most outstanding paper in the Proceedings of the 2007 IASS Symposium. Pellegrino has also received a best paper recognition for "Computation of Partially Inflated Shapes of Stratospheric Balloon Structures" with co-author Xiaowei Deng. This work has been selected as the best paper by the ASME Aerospace Structures and Materials Technical Committee.