

CIVL231 : Photo Contest 2

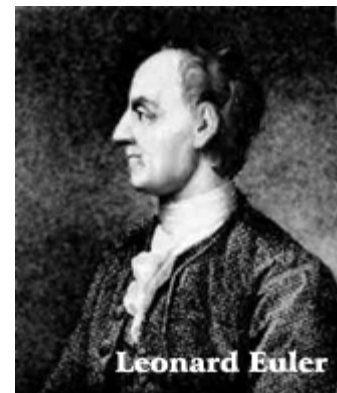
due: Feb. 9, 2009

1. Take a nice photo of a **prismatic structural element, that is axially loaded** (in other words: a **column**) and has a cross section with two axes of symmetry. Shapes like a pipe, rectangular tube, I-beam, or similar are suitable candidates.
2. Represent that column in MDSolids with the proper end conditions for both principal axis and both ends.
3. Send photo and graphical results on two pages letter-sized documents in MS Word or Adobe PDF file format to sigi.all@gmail.com, with 'PC#2' in the subject line.
4. The best photo with correct qualitative analysis will win ONE QUIZ bonus. This time we will award 3 first prizes!

The above stated problem description may be subject to adjustments, if need arises.

In case you print out this sheet, you might find half a page without text a waste of paper, therefore I have added some extra text and pictures:

You don't need to, but may be you want to know about **Leonhard Euler** (pronounced *Oiler*) ([April 15, 1707](#)–[September 7, 1783](#)). He was a [Russian-German mathematician](#) and [physicist](#) of [Swiss](#) descent–



-- even if he was not the first to deal with the buckling problem, that was **Pieter (Petrus) van Musschenbroek** ([14 March 1692](#) - [19 September 1761](#)). He was a [Dutch](#) scientist invented the [Leyden jar](#), the first [capacitor](#). **1729** : Publishes the first book showing testing machines for tension, compression, and flexure.