



Dear Colleague,

Seen your research interests, we are delighted to invite you to submit an Abstract for the Session **Actual Structural Behavior of Form Found and Analytical Thin Shells (IASS WG5)**. We are organizing this session at the next Joint International Conference - IASS Symposium 2019 and Structural Membranes 2019 (Barcelona, Spain. October 7-10<sup>th</sup> 2019)

(<https://congress.cimne.com/Formandforce2019/frontal/default.asp>) for IASS Working Group 5.

**Actual Structural Behavior of Form Found and Analytical Thin Shells (IASS WG5)**. Civil thin shells are most efficient when they exhibit membrane behavior under applied loading. In the preliminary design process, form found or analytical shapes are favored over sculptural shapes to ensure this kind of membrane behavior under the load case of self-weight. In reality however, actual structures and models are instead endowed with other internal forces (e.g. moments) than pure membrane forces or experience different loads with respect to the self-weight load case considered in the preliminary design stage. This session is aimed at bringing together researchers, students and designers that experience, measure or analyze the structural behavior of form found or analytical shell structures, after the preliminary design process and out of ideal conditions. We also welcome contributions 1) that compare and contrast different form-finding techniques, 2) that explore the effect of different boundary conditions, and 3) different load conditions or dynamic loads.

Registration and **one page abstract** submissions will be through the conference web site (<https://congress.cimne.com/Formandforce2019/frontal/Submission.asp>).

**The session Code is 67**

**Abstract submission deadline and templates** can be found at the following link:

<https://congress.cimne.com/Formandforce2019/frontal/Autor.asp>

**FORM and FORCE 2019** incorporates **The IASS 60<sup>th</sup> Anniversary Symposium (IASS SYMPOSIUM 2019)** and **9<sup>th</sup> Int. Conference on Textile Composites and Inflatable Structures (STRUCTURAL MEMBRANES 2019)**

Following the customary celebration of the IASS Symposium every ten years in Spain and the Structural Membranes Conference every four years in Barcelona, the organizers have found an outstanding opportunity to merge both communities into a joint international conference that aims to provide a forum for state-of-the-art contributions and fruitful discussion in the broad fields of shell, spatial, tension and inflatable structures.

For more details about the conference visit  
(<https://congress.cimne.com/Formandforce2019/frontal/Objectives.asp>)

If you have any questions regarding this special session, please do not hesitate to contact us and do let us know if you are planning on submitting an abstract.  
We would like to thank you in advance for taking into consideration this invitation, it will be a great honor for us to have you contribute.

Best Regards,

Session organizers

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