

Preliminary **PROGRAMME** The three-day symposium is organised around 3 main topics including **5 keynote lectures & 46 lectures** in plenary and parallel sessions. The film "L'Arc de Triomphe, Wrapped" backstage-engineering for a work of art by büro für leichtbau, Tritthardt+Richter will be shown.

## WEDNESDAY 7<sup>TH</sup> JUNE

08.30-09.15 **Registration**

09.15-09.30 **Welcome & Introduction**

09.30-10.30 **Keynote lecture**

**Bouncing Bridge: ephemeral, autonomous and self-supporting pneumatic temporary structure**  
Grégoire Zündel and Ramon Sastre

10.30-10.50 **Coffee break**

10.50-12.55 **Plenary session topic 1**

**Advanced tools for futuristic skins – ETFE**

Massimo Maffei, Antonio Diaferia, Nicola Todesco

**Modeling of impacts on tensile structures**

Adam Bown, Adrian Cabello, Artem Holstov

**Porto Pi shopping center's floating pergolas**

Juan García-Lastra Zorrilla, Juan Rey-Rey, Alejandro Minguéz

**PumpItUp, gite mobile for the European cultural capital**

**Esch-sur-Alzette 2022**

Bernd Stimpfle

**The integration of CAD and FEA for lightweight design and analysis**

Ann-Kathrin Goldbach, Kai-Uwe Bletzinger

13.00-14.00 **Lunch break**

14.00-16.05 **Parallel session A topic 3**

**Integrating sustainability aspects in the teaching of lightweight structures and their comparison with common structures**

Heidrun Bögner-Balz, Sarah Von Der Weth, Karsten Moritz

**The environmental performance of membrane structures**

Zehra Eryuruk, Marijke Mollaert

**A comparative LCA between a Textile Façade Retrofit and conventional solutions**

Giulia Procaccini, Carol Monticelli

**ATLAS architectural membrane as a core element for larger and energy efficient air domes**

Alexandra Sonnenberg

**T-shade: experimental case study conducted to reuse t-shirts as a tensile-shading system**

Amirhossein Ahmadian, Gergely Mátyás Jelinek Jelinek, Aina Radovan, Salvatore Viscuso, Alessandra Zanelli

14.00-16.05 **Parallel session B topic 2**

**Computational design workflow for a complex cable network**

Jef Rombouts, Oriane Guidet, Ludovic Regnault, Klaas De Rycke

**Development and validation of an experimental methodology for the characterization and FEM analysis of fibre-reinforced architectural meshes**

Salvatore Viscuso, Carol Monticelli, Alessandra Zanelli, Alberto Fiorenzi

**Parametric workflow approach in membrane design, from details to construction**

Rémi Journo

**Testing Parameters for uniaxial short-term tensile tests of ETFE foils and their connections**

Dominik Runge, Jörg Uhlemann, Natalie Stranghörer

16.05-16.25 **Coffee break**

16.25-17.15 **Parallel session A topic 1**

**Swatch Omega Headquarters - Multifunctional ETFE-modules in the building envelope**

Karsten Moritz, Koffi Alate

**Temporary structure Grand Palais Éphémère**

Patrick Vaillant, Beatriz Arnaiz, Feike Reitsma

16.25-17.15 **Parallel session B topic 3**

**Comparison of PE coated PE weave to PVC coated PES weave**

Rogier Houtman

**Advancing the Design of Sustainable ETFE Membrane Structures: Insights from the Light Consortium Project**

Mohammad Hosein Nejabatmeimandi, Alessandro Conitti, Luis Seixas, Adrian Cabello, Adam Bown

17.15-18.15 **Keynote lecture Architecture in motion**

Louis Ratajczak

18.15-20.00 **Cocktail drink**

17.00-19.00 **Walk the green line. Guided walk to the venue of the Galerie des Machines**

19.00-23.00 **Conference dinner at Galerie des Machines**

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**SUPPORT** This symposium is financially supported by Nantes Université & Nantes Métropole

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**LOCATION** Nantes Université – Campus Lombarderie, building 2. The campus is from the historical center easily accessible with Line 2: tram stop "Michelet-Sciences". Nantes has an international airport and a TGV railway station.