

MATERIALS AND STRUCTURES SYMPOSIUM (C2)

Space Structures II - Development and Verification (Deployable and Dimensionally Stable Structures) (2)

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CSL (Centre Spatial de Liège), BelgiumPAOLO SANTINI MEMORIAL LECTURE: HALF A CENTURY OF SPACE ADVENTURE AT
CENTRE SPATIAL OF LIÈGE**Abstract**

Created by the University of Liège, the Centre spatial de Liège is a research Centre dedicated to space instrumentation including environmental test facilities and high level laboratories. It works for the European Space Agency (ESA), for the space industry and for regional firms. From the beginning of its more than 50 years long history, CSL develops, assembles, calibrates and/or tests observation instruments and relevant sub-systems capable to operate in a harsh environment, in order to serve the demands of the space science. Space Systems Program focuses its effort to incorporate CSL into the teams dedicated for definition, design, integration and/or ground and in flight calibration of scientific payload missions, mainly under the final authority of the most prestigious Space Agencies (ESA, NASA, JAXA ...). Today, more than 15 complex pieces of CSL technology have been launched in space, all of them operating nominally. Some of the most significant instruments made by CSL are: EIT solar telescope (SOHO), HI (STEREO), SWAP (PROBA 2), optical monitors with OM (Newton), OMC (INTEGRAL) and various contributions on PACS (Herschel), MIRI (JWST), UVS (JUNO) and COROT. In 2011, this strong heritage allows CSL to be awarded with the Extreme UV Imager (EUI) Plship of Solar Orbiter (ESA M1 science mission). For the Future, CSL is involved in the L1 JUICE, L2 ATHENA, M1 Solar Orbiter, M2 EUCLID, M3 PLATO, M4, S1 CHEOPS, S2 SMILE ESA missions as well as the SPP, ICON NASA Missions. CSL is an Academic Member of IAF since 1988 (<http://www.iafastro.org/societes/csl-universite-de-liege/>). The presentation will concentrate on the development of Space Instruments during this half a century of Space Adventure, focusing on Solar Physics and Space Weather Instruments.