



Roots go back to I.D. FOS Research,  
headed by VUB Prof. Dr. ir. Barel.

FBGS was established in 2011.

## Milestones

- **2001**: Foundation of FOS&S (Fiber Optic Sensors & Sensing Systems) based on 12 years of research by I.D. FOS Research, VUB.
- **2011**: FBGS International takes over key assets from FOS&S and becomes subsidiary of FBGS Technologies in Germany.

## FBGS

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## Fiber Optical Sensing using Draw Tower Gratings

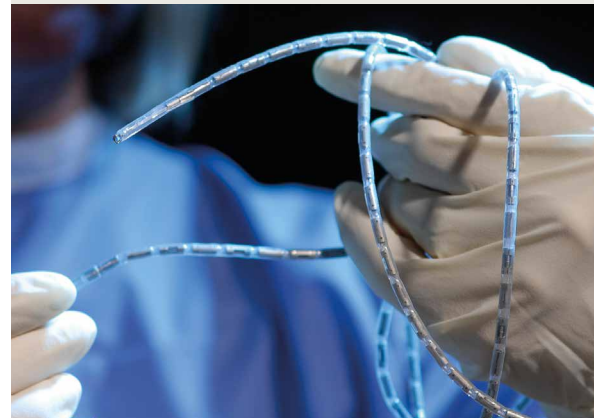
FBGS International is a Belgium based company specialised in the **development and commercialisation of Fibre Bragg Gratings (FBG) for fiber optical sensing and telecommunication applications.**

With its roots going back to I.D. FOS Research and FOS&S, a former spin-off of the VUB under the leadership of Prof. Dr. ir. Barel, the company was founded in 2011 and became **a fully owned subsidiary of FBGS Technologies in Germany, together active as FBGS.** FOS&S (Fiber Optic Sensors & Sensing Systems) was a company specialising in the development and commercialisation of fiber optical sensing systems, based on more than 12 years of experience acquired by I.D. FOS Research.

FBGS core business is the manufacturing of high strength Fiber Bragg Gratings (FBG) using draw tower technology, where the grating array is written during the drawing process of the fiber. This automated process results in very high quality, cost effective Fiber Bragg Gratings with unique characteristics that make them extremely well suited for temperature and strain monitoring as well as Fiber Tagging.

FBGS supplies 'Draw Tower Gratings' - DTG® as an OEM component in different industries such as: **medical, composite, transport, process, civil & geo, telecom and R&D** where they can be found in many applications and products.

FBGS mission is to become, through its unique Draw Tower Technology, its R&D capabilities and application know-how, the absolute World-Wide market leader in high quality, cost effective Fiber Bragg Gratings. In order to achieve this, FBGS has strong on-going collaborations with R&D institutes and Universities, such as the B-PHOT lab of the Vrije Universiteit Brussel, which play an important role in the product innovation process at FBGS.



Fiber Bragg grating based catheter to 'shed light' on human digestion

**'Our optical sensing fibers are part of many new products and applications worldwide, and become more and more recognised as a key enabling innovator.'**

Hugo Mertens, CEO



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