

## Bio of Karel Vollers

Dr. Ir. Karel Vollers with his thesis *Twist & Build* (PhD cum laude at TUDelft, 2001), bridged the gap between digital twisted façades and their materialising. Next, with Prof. Dr. Ir. M. Eekhout, Dr. B. Tuncer, Dr. R. Stouffs and A. Borgart, he initiated the Blob group for exploring, teaching and researching innovative building structures. In 2012, as Assistant Professor, he joined the complex geometry focused Hyperbody Group, ended his Researcher position at the Faculty, and founded the firm Free-D Geometries BV.

Karel Vollers is deeply involved in the development of CNC reconfigurable molds to shape freely curved panels. Such molds minimise waste in labor, material, energy, logistics and time.

In 2012, he presented the first active pinbed. It has an array of 196 simultaneously moving actuators. Free-D Geometries in 2015, supported by a SMEinst Phase 1 disruptive technologies subsidy, linked the dynamic mold technology to transforming glass panels. At the NL 2017 BouwBeurs building fair, the firm presented the world's first freely curving glass panels produced on a dynamic mold.

The CNC Dynamic Glass Mold allows manufacturers to produce high value-added freely curved glass panels through a resource- and energy efficient production process with high speed and high quality.

Karel Vollers [kjvollers@gmail.com](mailto:kjvollers@gmail.com) presented at congresses of IASS (International Association of Shell and Spatial Structures), CTBUH (Council on Tall Buildings and Urban Habitat) and GPD (Glass Processing Days).

