

## Hygie-Tech SA Creates PC Friendly Solution for 3D CFD Laser Scanners

- HG\_Flow.GMesh enables rapid generation of structured mesh to use with HG\_Flow software
- Program means that desktop computers can deal with vast quantities of data generated by 3D laser scans
- HG\_Flow uses 3D scans of premises to produce visualisations of air flow
- Hygie-Tech software is used to develop disaster response plans for buildings that are potential targets for chemical and biological terrorist attacks

Geneva, 19<sup>th</sup> October 2010

**Hygie-Tech** [www.hygie-tech.ch](http://www.hygie-tech.ch), a leading Computational Fluid Dynamics (“CFD”) software company today announces that it has created a new software **HG\_Flow.GMesh** to use with its 3D laser scanners.

The new algorithm was developed by the Hygie-Tech team and enables computers to rapidly provide a structured mesh generation which is compatible with the company’s CFD software, HG\_Flow. HG\_Flow.GMesh allows users to process the vast amount of data generated by a 3D laser scan on a desktop computer. This is yet another step that Hygie-Tech has taken to make CFD accessible for all users, not only mathematicians.

HG\_Flow software is applied for a range of industrial purposes internationally, from surgical operating rooms to vehicle design and manufacturing. With the ability to provide accurate detail down to the scale of one millimetre, this product is used by the defence and security sectors to formulate contingency plans for possible chemical and biological attacks on buildings that might be targeted by terrorists.

**Philippe Le Goff**, Hygie-Tech’s Chief Scientific Officer commented:

*“The need for this software arose from a problem submitted by one of our clients, for whom we had to deal with a very large plant containing many elements. We had to visualize airflows as well as gas flows and each image created by the laser scanner contained around a billion points. It was impossible to process these images with the laser scanner’s own software.*

*“With GMesh, we can directly use huge clouds of up to a billion points and optimize the envelope meshing for direct CFD use, greatly extending the capability of HG\_Flow software.”*

For more information about Hygie-Tech, please see the attached press pack.

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Hygie-Tech SA  Press Office	Singleton PR M1 +44 (0) 7739 – 461 – 061 M2 +44 (0) 7733 – 004 – 990 E info@singletonpr.com
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Notes to Editors:

**Hygie-Tech**

1. Hygie-Tech is headquartered in Lausanne, Switzerland and was formed in 2009
2. Hygie Tech was founded by Philippe Le Goff and Raymond Andrieu
3. Hygie-Tech products include solutions for both the civil and defence sectors