



Press release – Innsbruck - 4. March 2015

IONICON fastGC is the 2015 “Golden Gas Award” winner

The IONICON [fastGC](#) is the **winner** of the *Gases & Instrumentation International Magazine’s* 2015 **Golden Gas Award** in the category *Gas Chromatography*.

The new IONICON fastGC offers a seamless combination of a fast Gas Chromatographic separation and real-time, extremely sensitive trace gas analysis by IONICON PTR-TOFMS series instruments.

The Golden Gas Awards are conducted by G&I each year as a tribute to the technology of gases.

Fast GC – a new dimension of insight

IONICON PTR-TOF systems are capable of measuring trace gas samples in real-time with a high mass resolving power. The new “[fastGC](#)” module adds an optional chemical pre-separation step before the analysis.

The module consists of a short GC column with an advanced heating concept for ultra-fast heating and equally fast cooling rates which makes this pre-separation step nearly real-time.

The fastGC module is integrated with the PTR-TOF and the normal sample gas inlet is utilized. This allows researchers to perform real-time measurements and add fastGC runs at time points of interest for enhanced separation and identification.

“A fastGC’s spectral run is done in less than one minute! This brings gas chromatographic separation much closer towards real-time analysis and adds another dimension to PTR-TOFMS. We’re proud to receive the 2015 Golden Gas Award for this achievement and will continue to push the frontiers in analytical science.”, IONICON CEO Lukas Märk comments the recognition from the G&I magazine’s jury.

The 2015 Golden Gas Awards

This year’s competition attracted more than 35 entries in 6 categories. The products are judged by a panel of independent technical experts not affiliated with any product or manufacturer. They rate each product on its ability to solve an important challenge to the gas industry, such as technological innovativeness, superior specifications in terms of power requirements, speed, maintenance, cost effectiveness, and other quality considerations.

Paul Nesdore, G&I’s Editor and Publisher stated that, “Every year I am overwhelmed at the advances just one year brings to the gas instrumentation world. The sophistication and technical level of the products continues to increase to meet, and at times surpass, the industry requirements. Gases are such an important part of the world and these vendors contribute to the measurement and control of vital world resources.”



Recent peer-reviewed application paper:

A. Romano et al.: "Wine analysis by FastGC proton-transfer reaction-time-of-flight-mass spectrometry", *Int. J. Mass Spectrom.* vol. 369, 81–86, 2014,
<http://dx.doi.org/10.1016/j.ijms.2014.06.006>

IONICON blog post: <http://blog.ionicon.com/2014/12/fastgc-ptr-tof/>

fastGC product website: <http://www.ionicon.com/product/accessories/fastgc>

About IONICON

IONICON Analytik GmbH was founded in 1998 to commercialize the unique [Proton Transfer Reaction – Mass Spectrometry \(PTR-MS\)](#), recently adding the proprietary [Selective Reagent Ionization – Mass Spectrometry \(SRI-MS\)](#) technology.

Over 250 leading scientists, institutions and multinational corporations are among IONICON's customers. They rely on [PTR-MS instruments](#) for results in real-time at one out of a trillion parts (LoD < 1 pptv) but without time-consuming sample preparation procedures.

Learn more about IONICON [here](#).

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