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# The “Hype” is over — now it’s time for steady growth

2026 is still young, and of course everyone is wondering how the rest of the year will unfold—politically, socially, and economically. And, as could hardly be otherwise, things have once again started with great intensity or are simply continuing at full speed. On the global stage, one dramatic act follows another, while Europe and Germany oscillate socially and economically between fatalism and hope.

Fortunate are those who observe the developments closely, yet with a certain degree of calmness and, above all, resilience. Look carefully, but don’t let it drive you crazy. That has always been the recipe for wise action.

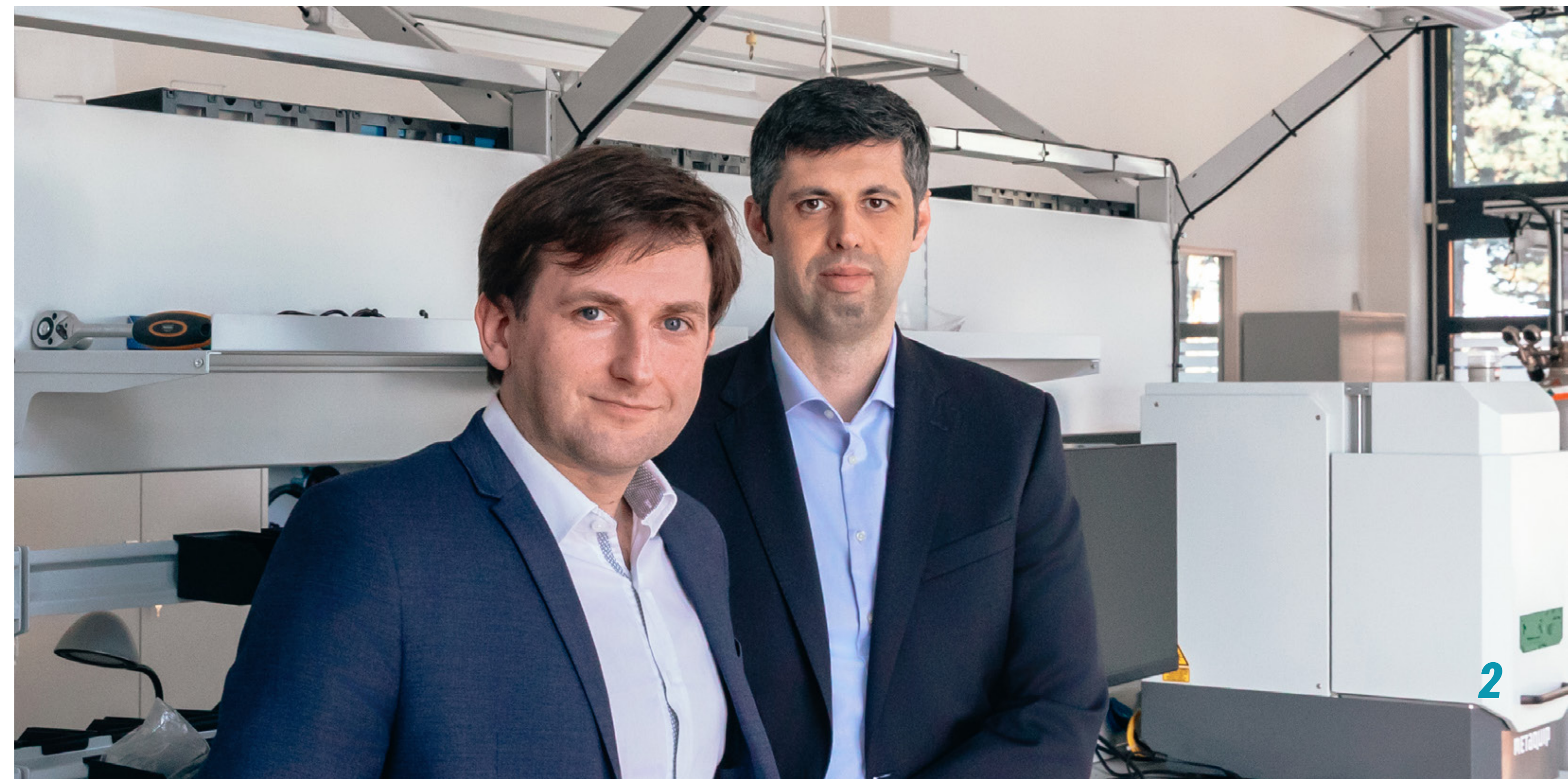
This attitude is particularly appropriate when considering the current hydrogen situation in Germany and around the world. Yes, the hype surrounding H<sub>2</sub> in previous years has noticeably cooled. But that is the nature of hype—it comes and goes, and it is rarely a solid foundation for healthy growth. Instead, it is important to broaden the perspective and plan for the medium and long term. When doing so, it becomes clear that many stakeholders committed to establishing a hydrogen economy are by no means easily unsettled by daily headlines.

The United States and China, for example, remain consistently engaged; growth continues quietly. In Europe and Germany as well, there are initiatives—and above all companies—that follow the same principle. Quick profits

may be made in other sectors, but they can disappear just as quickly. Those who aim to successfully establish themselves in the hydrogen market—which, despite all the skepticism, continues to develop—and benefit from it sustainably should continue to proceed step by step, stay attentive, and, based on this approach, offer top-quality solutions, whether products or services. This is exactly how we approach our gas analysis systems, and our steady, healthy growth confirms that this strategy works.

You will find a few highlights of Archigas’ activities over the past months in this newsletter. We hope you enjoy reading it!

Yours,  
Illya and Wladimir



**A proven principle,  
reimagined –  
MEMS thermal  
conductivity detection**



The innovative measurement technology developed by Archigas has already proven its excellent performance to numerous users around the globe. The sensor solutions demonstrably enable extremely fast hydrogen detection in just 30 ms, covering a measurement range from a few ppm up to 100 vol.%, while also offering pressure compatibility up to 200 bar and beyond, as well as high measurement stability and, according to experience, even resistance to humidity at atmospheric pressure. What surprises many users is that these capabilities are based on a technology whose fundamental principles are described by the Archigas research and development team—led by Prof. Friedemann Völklein—in a recent article published in the professional journal *gwf Gas + Energie*.

[Read the article >>](#)



*Example of successful technology transfer:*

## ***H<sub>2</sub> gas analysis solution also boosts helium detection***

Since its first presentation around two years ago, Archigas' sensor technology has attracted considerable attention in the hydrogen sector. For example, the TCD3000 SiA gas analyzer, with a size of only about 10 cm and designed for direct screw-in installation in the process, detects H<sub>2</sub> in a range from a few ppm up to 100 vol.% in just 30 milliseconds. The ATEX-certified device also offers high pressure resistance up to 200 bar and remains resistant to condensates at atmospheric pressure. "Our development goal was very clear: to present a completely new option for meeting the specific requirements of the hydrogen industry—and we have demonstrably succeeded in doing so. Initially, we paid less attention to the fact that this innovation, with its unique properties, also offers enormous potential for optimized measurement of other gases such as helium. Even though we continue to communicate these additional possibilities only to a limited extent, we are increasingly being contacted by interested parties whose applications extend beyond hydrogen measurement," report Kaufman and Barskyi.

The main reason for transferring the technology to additional applications beyond hydrogen is easy to explain: hydrogen and helium have similarly high thermal conductivity. As

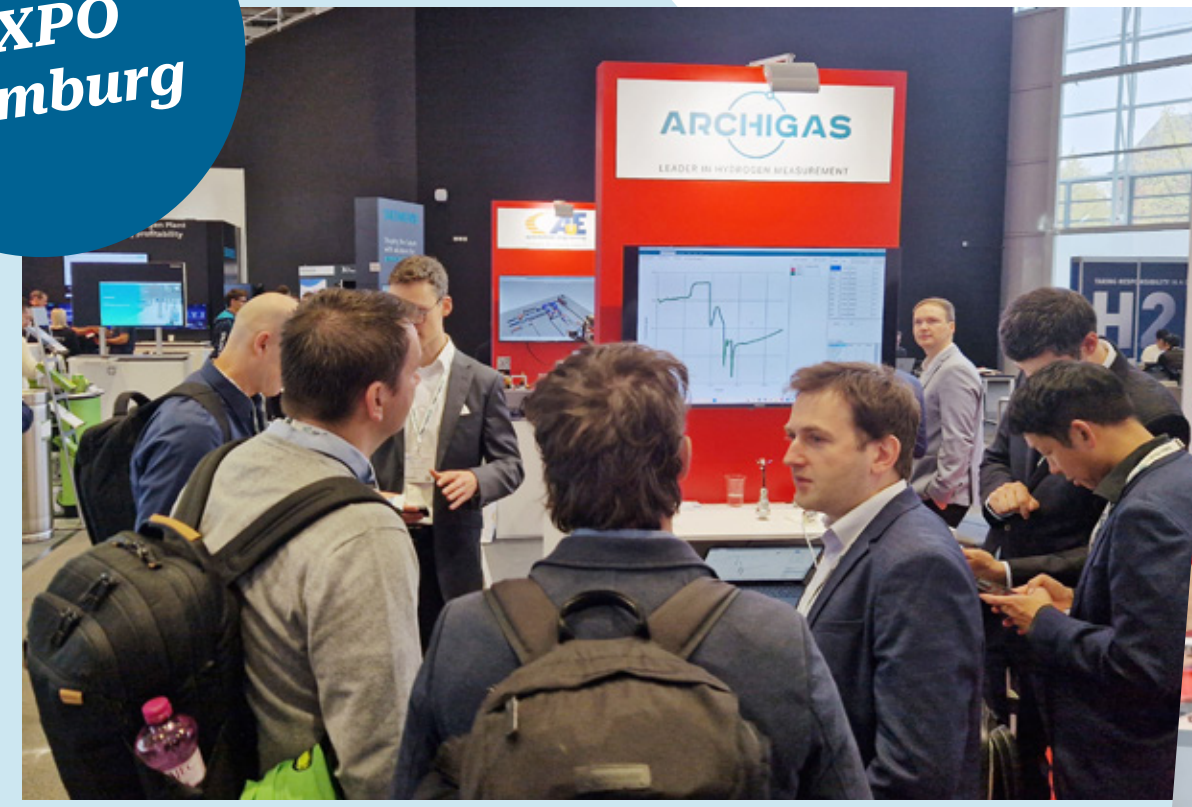
a result, the TCD measurement technology (thermal conductivity detector) further developed by Archigas is equally well suited for improved detection of helium. Compared with conventional thermal conductivity detectors, the Archigas solution offers significantly higher precision. When monitoring helium purity, a detection limit of 100 ppm, a wide operating temperature range from -40°C to 90°C / 125°C, and nearly 100% reproducibility are decisive advantages. Another major drawback of many conventional measurement methods is that helium must be extracted from the process and subsequently released into the atmosphere, leading to considerable economic losses.

In contrast, thanks to the screw-in design and its ability to operate even under high pressure, the Archigas solution performs measurements directly within the process. This conserves resources, reduces costs, and makes the technology particularly efficient for helium recovery plants.

Technological developments driven by hydrogen applications can therefore also create significant added value in other fields—as demonstrated by the Archigas gas analysis solution. Thanks to its specific advantages, it is now also advancing helium measurement.



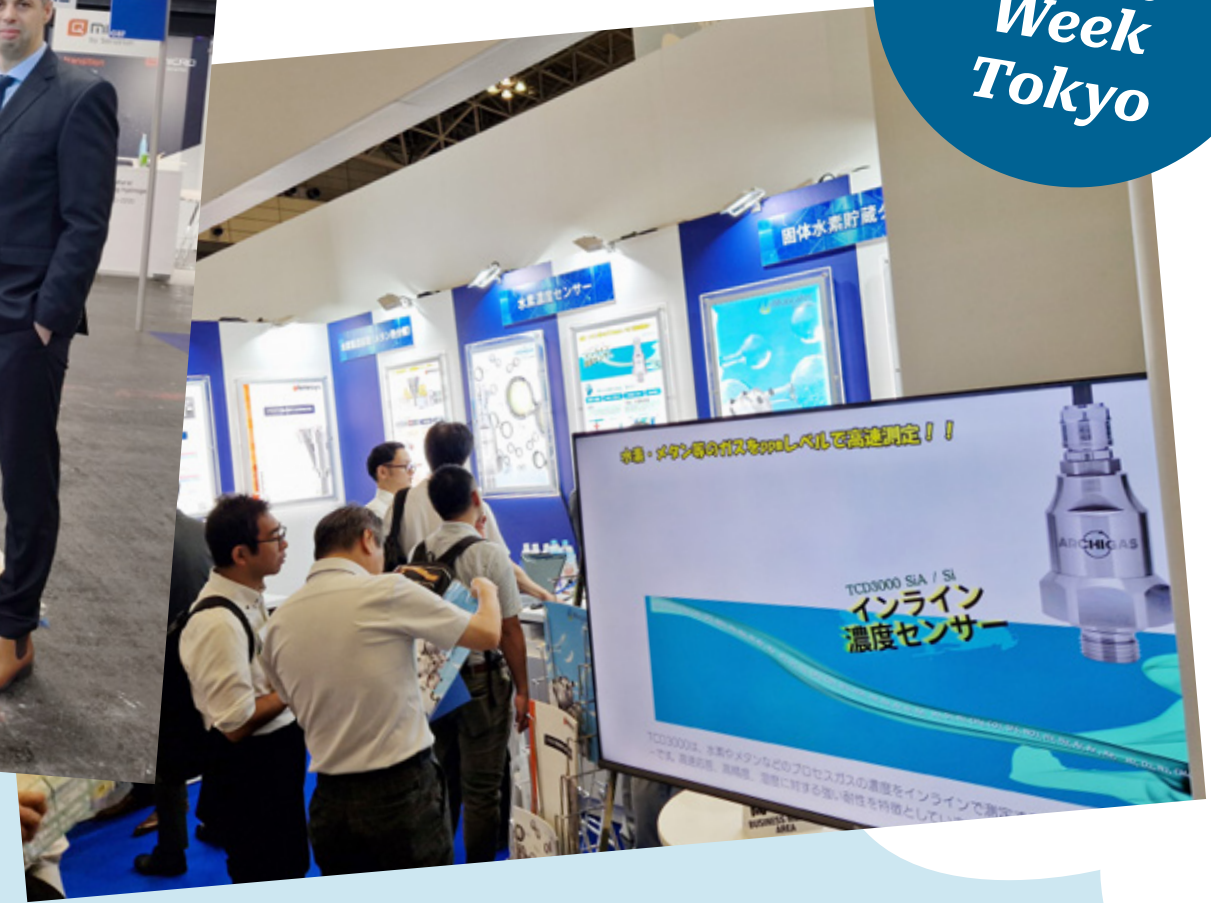
EXPO  
Hamburg



Hyvolution  
Paris



Smart  
Energy  
Week  
Tokyo



# Archigas on the move – whether in Hamburg, Tokyo, or Paris

Archigas takes the term “hydrogen world” quite literally when presenting itself at leading industry trade fairs around the globe. To showcase its innovative gas analyzers for fast, precise, and stable H<sub>2</sub> measurement directly in the process, the steadily growing sales team (see also “Archigas News in Brief”) has recently appeared at several major events. Over the past months, for example, the team exhibited in Tokyo at the Hydrogen & Fuel Cell Expo during Smart Energy Week, at the end of October at the Hydrogen Technology World Expo in Hamburg, and most recently at Hyvolution 2026 in Paris.

“As the example of Japan shows, no distance is too far for us when it comes to presenting our advanced sensor technology exactly

where it makes sense for deployment—and that means worldwide,” explains Managing Director Wladimir Barskyi, referring to the company’s extensive travel activities. “Technology like ours gains much greater impact when it is presented directly to interested parties by our sales team on site—whether at our own booth or in support of our distribution partners’ stands. There we can provide first-hand information and even conduct live demonstrations, for example to illustrate the sensors’ response time of just 30 milliseconds or their humidity resistance, which we demonstrate by immersing them in a water bath.”

According to the company’s co-founder, it is precisely the many personal encounters and intensive exchanges with customers and

partners that allow Archigas to convincingly demonstrate the remarkable capabilities of its gas analysis technology. “We will certainly continue this principle of direct, personal engagement throughout 2026. Our sales team has only just returned from the United Arab Emirates, and the next trip to China is already planned.”

In addition to public appearances at trade fairs, the team also visits prospective customers and existing clients individually, both domestically and internationally, to discuss specific questions directly on site. “We see our personal presence as an important service feature that enables us to inform and support users—and those who want to become users—in the best possible way. Written communication, phone calls, and video

meetings are usually sufficient, of course, but a personal visit still has a different quality.” This principle naturally works both ways, as demonstrated recently by the visit of a Vietnamese delegation to the Archigas site in Ruesselsheim.

The Archigas sales team will once again be present at the key hotspots of the hydrogen world in the coming months. The company regularly announces where and when via its social media channels.

# Archigas news compact

+++ **Speaking of sales:** There is also news from our team—because it continues to grow with **experienced sales professionals** both in the field and in inside sales.



**Elmedin Saliu**, Head of Field Sales and trained mechatronics and electrical engineering specialist, brings many years of experience as a sales engineer, which he now puts to impressive use for us around the world.



**Dr. Erik Delp**, who holds a Master’s degree in Mechatronics and Robotics as well as a doctorate in Electrochemistry, strengthens our technical sales team with a strong focus on development and applications. He is particularly skilled at explaining even the most complex technological backgrounds in a clear and accessible way.



Sales expert **Mustapha Hamdioui**, trained as a wholesale and foreign trade specialist, now contributes his profound and valuable expertise as an international sales strategist at Archigas.



And of course there is our new team assistant **Maria-Kobra Rezaee**, whose many years of diverse administrative experience provides essential organizational support to ensure everything continues to run smoothly. We’re delighted to have them on board! +++



+++ **Aaaand action:**

On **YouTube**, we present short and **engaging videos about Archigas technology, highlights from our trade fair appearances, as well as statements and compact features** on a wide range of events—from award ceremonies to sensor tests at the racetrack (yes, there are some stylish cars to see as well). In short: take a look and get to know the company, its people, and of course its products in action—as the saying goes, a picture is worth a thousand words. +++

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