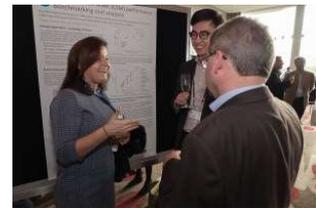


Establishing Micro- and Millireactors worldwide

Universities and institutes as a “tool” for process development

Latest three opening ceremonies of different institutes in Austria (University of Graz, CC-Flow), Brazil (SENAI) and Australia (CSIRO) took place. All of them now offer research-applied services to innovate processes and products for the chemical industry, amongst others with our equipment. They see a huge potential for flow chemistry in the chemical and pharmaceutical industry. And industry is absolutely motivated to use this service, because of employee resources. Well-known benefits of this technology are significantly higher yield and less side products, improved product quality, ultra-fast mixing, highly efficient heat transfer, short defined residence times, simple process control due to minimum hold-up, improved safety and short development times. So, the decision for implementing the new technology platform of micro- and millireactors should be very easy to take!



Experimental Methods in Chemical Engineering: Microreactors

Microreactors continue to serve engineers and chemists to characterize and optimize chemical reactive conditions for process development. The main elements of a standard microreactor system correspondingly include a manifold of mass flow controllers to feed gases and liquids, a conditioning space to preheat and potentially pre-mix reactants, the reactor space, and an analyzer that is preferably on-line for real-time products detection. Each element affects the reaction performance parameters such as conversion, selectivity, kinetic rate constants, and activation energies. Here, we introduce microreactors and their role in the continuous synthesis of fine chemicals across the various scales to commercialization. [Link](#)





**Last but not
least we wish
you all a nice
year's end, a
Merry
Christmas
time and a
great start in
2020!**

If you have any questions, we will be pleased to answer them by phone, email or in a personal meeting. Visit us under www.ehrfeld.com to obtain an initial impression of our technology.

Or meet us in person at the next events in 2020.

In case of further questions, please do not hesitate to contact us:

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With best regards,
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