Contribution ID: **108** Contribution code: **MFS-2** Type: **Oral Presentation**

Current product range and latest technical developments at Ionplus AG, Switzerland

Tuesday, 22 October 2024 15:10 (20 minutes)

We present a brief overview of Ionplus' latest product range, showcasing both established products and latest developments. In the first part of the talk, we cover the current state of well-established products such as MICADAS, the high precision radiocarbon AMS system, GIS, the CO2 gas interface, and MILEA, the multi-isotope system, along with various peripheral devices.
A particular focus will be placed on the latest additions to the Ionplus product portfolio: the even more compact radiocarbon AMS, LEA, and the High Throughput gas Interface (HTI), which enable highly automated CO2 gas measurements on a small footprint, occupying less than 4 x 2 m2. Moreover, the optional magazine storage robot, AMC, can increase the number of available measurement cathodes from 39 in a standard MICADAS magazine to up to around 400 during more extensive and largely unsupervised measurement campaigns.
In the second part of the talk we give a brief insight into ongoing development efforts to further integrate AMS into the biomedical and materials industry. In 2023, Ionplus was awarded the Swiss Innosuisse grant, which supports these developments over a 2.5 year funding period. We outline the various work packages comprising AMS system and peripheral design, software development, and regulatory (GxP) integration efforts.
We conclude with a brief outlook on future projects, including the integration of peripherals (e.g. GIS) into a new software platform.

Student Submission

No

Primary author: MAXEINER, Sascha

Co-authors: FAHRNI, Simon; SYNAL, Hans-Arno; ANDREAS, Herrmann; BOURQUIN, Joël; BOURQUIN, Raphael; GALVAN, Diego; HASLER, Fabian; HITS, Dmitry; SAVA, Tiberiu; TIESSEN, Collin

Presenter: MAXEINER, Sascha

Session Classification: Manufacturers Session

Track Classification: Manufacturers Session