The SiLA Connection

STANDARDIZATION IN LAB AUTOMATION | JULY 2019

SiLA at LabVolution in Hannover, May 21-23

The smart lab at LabVolution in Hannover was a great success. All devices by TCI University Munich, Hannover and FZ Jülich had been integrated using SiLA 2!

Our SiLA CTO, Daniel Juchli, gave an informative presentation on SiLA and AnIML.

With AnIML we also hosted a **Smart Lab Panel Discussion:** Informatics, Digitalization & Big Data; and gave talks on **Standards as the basis for digital transformation** and **AnIML & SiLA 2: Data Management and Connectivity in the Smart Lab of the Future**

Meet us at the following events:

- **Forum Labor- und Qualitätsmanagement**
  Sept. 3-4, Mainz, Germany

- **SiLA Hackathon**
  Sept. 20, Wiesbaden, Germany (kindly hosted by Tecan)

- **SiLA Conference**
  Sept. 24, Basel, Switzerland

- **LIMS-Forum 2019**
  Oct. 22-23 Jülich, Germany

- **ELRIG UK 2019**
  Workshop: simplification in the lab with next generation robotics, Nov. 5-6 ACC, Liverpool, UK

- **Lab of the Future**
 Nov. 13-14, Cambridge, UK

Symposium on Digitalization and Big Data in Biotech & Pharma, June 6th - 1st Poster prize for SiLA!

SiLA earned great interest at the event on June 6th, which took place at the ETH Zurich. The SiLA poster even won the **1st place poster prize!** The award-winning poster will be available soon.

And what pleased us even more, SiLA 2 was also named by the project of TU Berlin, ETH Zürich and DataHow: **Cloud based online monitoring of large data sets in dynamical high throughput experiments**

The poster can be found on our website in the **download section**.

Thank you TU Berlin, ETH Zürich and DataHow for making the document available.
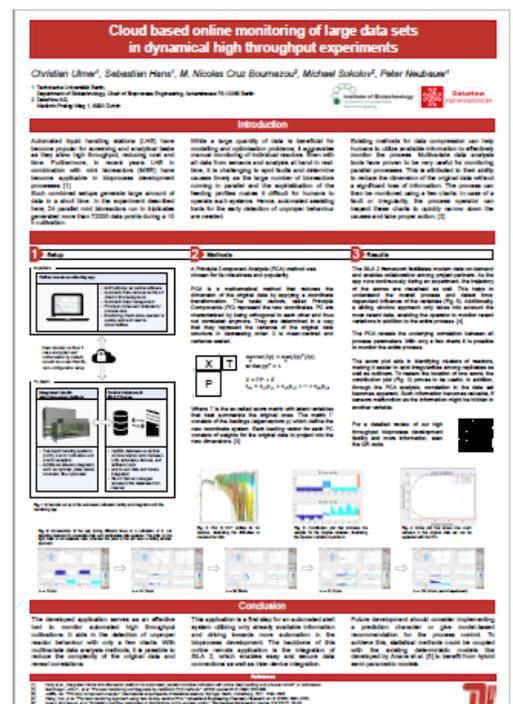
SiLA Hackathon #14 in Berlin, June 14th

The Berlin SiLA hackathon at the Technical University in Berlin exceeded our expectations! This time we had more registrations than seats.

Technical and non-Technical staff was welcome and we were delighted to have many "SiLA newbies" in the room. Within a few hours of collaboration, participants from LIMS and device manufacturers who worked with SiLA for the first time managed to integrate a completely new device, using the standard. What a great testimony that SiLA's concept is simple and efficient!

SiLA has proven to boost your lab automation strategies to the next level.

Are you willing to host a SiLA / AnIML Hackathon?
Contact us! We are happy to support you and help you organize the event!

Review of first SiLA hackathon in the US, Santa Clara on June 28th

Two weeks after the hackathon in Berlin, SiLA organised its first hackathon in the US. Following enquiries from many people during SLAS 2019, board member Ivan Ivanov offered to host this event at the Promega offices in Santa Clara.

12 delegates from 5 different suppliers joined and learned more about instrument control, integration and scheduling. Many of them had experience of SiLA 1 and discussions of the improvements in SiLA 2 were very productive. Participants also gained knowledge of coding and a HelloSiLA demo.

Look out for a possible follow-up in San Diego…!

Lab of the Future conference 13-14 November 2019
Wellcome Genome Campus Cambridge UK

SiLA is proud to be taking part of this major new event on the subject of lab of the future. We will be leading a panel discussion on **Driving the Lab of the Future through precompetitive collaboration** in a plenary session on the morning of day 2.

For registration please see the website at https://www.lab-of-the-future.com/

STANDARDIZATION IN LAB AUTOMATION

Review of BioLAGO joint hackathon workshop with SiLA and AnIML on "Data and Interfaces in the Laboratory"
July 4th, 2019 in Constance, Germany

With around 30 participants, the BioLago event was another great success to present the SiLA standard. There were many new faces in the room. Some participants brought an instrument and started implementing the standard right on the spot. They walked out happy!

Michael Köppl from Hit Discovery Constance (HDC) showed a live demo of the SiLA box, together with Stefan Koch of EQUIcon, who also demonstrated SiLA 2 with an actual device. Both demos were an impressive showcase of SiLA 2 interoperability and resonated well with the audience.

We would like to thank BioLAGO, and especially Lena Mast, for the great organization of the event!

SiLA was a topic at the "Machine Learning and AI in (Bio)chemical engineering"- Workshop on July 8th, in Cambridge, UK

- **LARA with SiLA2 – an integrated open source platform providing experimental data for Machine Learning / AI and cheminformatics, workshop on Machine Learning and AI in (Bio)chemical engineering** – M. Dörr, P. Courtney, U. Bornscheuer and S. Born

- **AI enabled by interoperability standards in the bioprocessing laboratory, workshop on Machine Learning and AI in (Bio)chemical engineering** – P.Courtney (SiLA), B.Schaefer (BSSN/SiLA), M.Doerr (U Greifswald), Uwe Bornscheuer (U Greifswald), Stefan Born (U Greifswald), N.Cruz (DataHow) S.Hans (TUBerlin), Christian Ulmer (TUBerlin)

The free event attracted a broad audience and was already booked out by middle of June.

Apply now for i4challenge

We would like to point out to you that the **i4challenge** is open for registration now!

This might be a great opportunity for your company to present their SiLA 2 based solutions/products.

Should you need administrational or technical support from our side, do not hesitate to contact us.

FOR MORE INFORMATION

Visit us at www.sila-standard.org

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Follow us on Twitter or LinkedIn

Save the date:

SiLA Conference 2019
September 24th
09:30-13:00
Idorsia, Basel Switzerland

photo of previous SiLA conference

Closed-loop make-test-design platforms: What is happening in Europe?

Developing products of any kind often happens in iterative cycles. For example, small molecule drugs emerge after numerous cycles of "Lead Optimization": Medicinal chemists synthesize variants of an active molecule, their activities are then measured in bioassays, based on which a new round of syntheses is planned.

The idea to fully automate, and thereby enormously accelerate, such development cycles has been around for many years. However until recently, the technical challenges were simply too high.

With recent advances in the automation of chemistry, biology, and machine learning approaches, this is about to change. An increasing number of companies and institutions are taking on the challenge.

In this interactive meeting, we want to engage in a dialog to address questions such as these:

- Where are closed-loop make-test-design platforms emerging - in Europe and beyond?
- What is the status on integral automation of chemistry and bioassays?
- How will such systems be controlled, what is the role of AI/machine learning?
- What is the role of standards such as SiLA to enable such platforms?

The discussion will be launched and guided by experts in chemistry and biology lab automation from Roche, Novartis, Idorsia, and other companies.

Seats are limited, we therefore ask for registration by e-mail.

If you are **interested to actively contribute** to the event, please get in contact with the Organizing Committee directly by e-mail. We look forward to hearing from you.