Contribution ID: **79** Type: **Invited talk**

WMiI, Molecule.one brief intro: our journey on automatization of chemistry

Saturday 20 April 2024 12:10 (25 minutes)

Small molecule drug discovery relies on synthesizing massive amounts of chemical compounds. Currently, synthesis is slow and expensive. This puts a limit on human innovation by constraining drug hunters to the cheapest subset of the whole chemical space. However, the tides are changing due to the concurrent advances in automatization of chemistry, general robotics, and AI. Thanks to the rapidly growing ability to build massive chemistry datasets, and encoding them in robotic workflows, we face the prospect of making compounds massively cheaper and faster. In this short talk, I will introduce this problem more generally and then briefly share the journey of Molecule.one (from 2018 to now) on automating chemistry by building high-throughput laboratory and AI-based software.

Author: Dr JASTRZĘBSKI, Stanisław (Molecule.one)

Presenter: Dr JASTRZĘBSKI, Stanisław (Molecule.one)