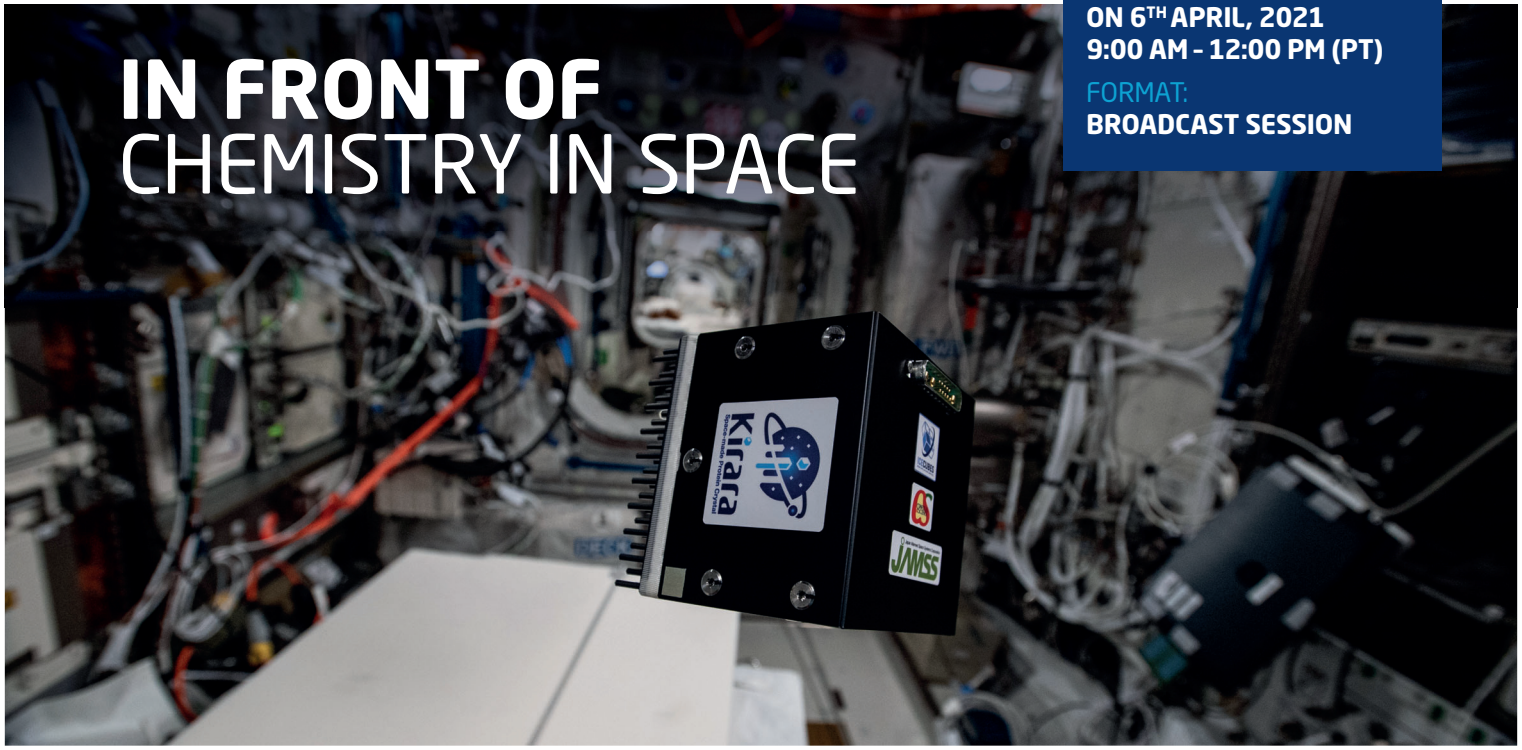
6th SPACE CHEMISTRY SYMPOSIUM

261ST ACS SPRING 2021
VIRTUAL MEETING & EXPO
APRIL 5-16TH 2021,
UNITED STATES

ON 6TH APRIL, 2021
9:00 AM - 12:00 PM (PT)

FORMAT:
BROADCAST SESSION



SPONSORING COMMITTEE: **YOUNGER CHEMISTS COMMITTEE**
CO-SPONSORING DIVISIONS: **ANYL, BMGT, ENVR, FLUO, GEOC, I&EC, INOR, NUCL, PROF**

CREDIT: **NASA/ESA**

Flow Chemistry Society
FCS

InnoStudio

The Flow Chemistry Society and InnoStudio is proud to announce the 6th Space Chemistry Symposium

IN FRONT OF CHEMISTRY IN SPACE

Dear Participant,

Welcome to the Symposium which will be the virtual continuation of the previous five successful events held at various ACS meetings (San Francisco - 2017, Washington DC - 2017, Boston - 2018, Orlando - 2019, Virtual Fall Meeting - 2020).

Beside other emerging research fields in microgravity environment, **chemistry and flow chemistry** are now considered as highly relevant and promising tools by the space community e.g., for ensuring a solid base to the future industry of drug discovery & research in space.

The 6th Space Chemistry Symposium will bring you a presentation by ESA and lectures from space companies and universities currently performing pioneering chemistry research for the space industry.

We hope you will enjoy the event.

The Symposium Organizing Committee

ON **6TH APRIL** AT **9:00 AM - 12:00 PM (PT)** AS PART OF THE **261ST ACS NATIONAL VIRTUAL MEETING & EXPOSITION** | US

IN FRONT OF CHEMISTRY IN SPACE

ORGANIZING COMMITTEE:
FERENC DARVAS
ATTILA PAVLATH
AARON BEELER

Despite the challenging times caused by the global pandemic, advancements in space chemistry are considered highly notable in 2020. For example, space chemistry was proven to be a potential tool to fight against the epidemic: the first study on COVID-19 drug research has recently been carried out on the International Space Station. This effort is considered both as a key initiative for the pharma industry to widen their development opportunities via space research and, also, as an indicator for the space industry at what extent space chemistry can contribute to the development of novel compounds or chemical processes for the benefit of humankind.

The program of this Symposium will include lectures clearly indicating the enhanced significance of chemistry related research for space applications, technologies and science. Topics of the presentations will include:

- Commercial activities and services on the ISS related to chemical research
- Solar energy driven flow chemistry
- Pharmaceutical stability research on ISS
- COVID-19 drug research in space

261ST ACS SPRING NATIONAL VIRTUAL MEETING, APRIL 5-16TH 2021, US
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BROADCAST SESSION: **IN FRONT OF CHEMISTRY IN SPACE**

DURATION	PRESENTING AUTHOR	AFFILIATION	TITLE
5 min	**Ferenc Darvas**	Flow Chemistry Society Switzerland	Opening Remarks
25 min	**Bernhard Hufenbach**	ESA/ESTEC Directorate of HRE The Netherlands	Future commercial activities on ISS related to chemistry and drug research
25 min	**Timothy Noël**	University of Amsterdam The Netherlands	Harvesting solar energy for pharmaceutical production in outer space using flow chemistry
25 min	**Volker Hessel**	University of Adelaide Australia	Long-duration stability study of medicines on the ISS providing data for potential future on-orbit manufacturing
25 min	**Hilde Stenuit**	Space Applications Services Belgium	Collaboration on a multi-user chemistry platform in space - Contribution by ICE Cubes
25 min	**Gergo Mezohegyi**	InnoStudio Hungary	COVID SPACE consortium - First experiments in space for COVID-19 drug research
20 min		**Q&A (REAL-TIME VIDEO)**	
5 min	**Attila Pavlath**	USDA	Closing remarks