## 5<sup>th</sup> SPACE CHEMISTRY SYMPOSIUM

# CHEMISTRY IN SPACE: NOVEL TRENDS

**260<sup>TH</sup> ACS FALL VIRTUAL MEETING & EXPO** (AUGUST 17<sup>TH</sup> - 20<sup>TH</sup>, 2020), UNITED STATES

ON AUGUST 19<sup>™</sup> 2020, 10:00 AM - <u>12:00 PM</u>

FORMAT: BROADCAST SESSION

SPONSORING COMMITTEE: YOUNGER CHEMISTS COMMITTEE CO-SPONSORING DIVISIONS: BMGT, AGRO, ENVR, FLUO, GEOC, INOR, NUCL, PROF, RUBB, BIOL and COLL





The Flow Chemistry Society and InnoStudio is proud to announce the 5<sup>th</sup> Space Chemistry Symposium

## CHEMISTRY IN SPACE: **NOVEL TRENDS**

#### Dear Participant,

Welcome to the Symposium which will be the virtual continuation of the previous four successful events held at various ACS meetings (San Fransisco - 2017, Washington DC - 2017, Boston - 2018, Orlando - 2019).

In the last three years, the space industry has progressed significantly in recognizing that performing chemistry in Space is increasingly essential. More and more space companies & agencies consider chemical applications as organic components of their long-term business strategy.

**The 5<sup>th</sup> Space Chemistry Symposium** will include 5 lectures from emerging 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 AUGUST 19<sup>TH</sup>, 2020 | AS PART OF THE 260<sup>TH</sup> ACS NATIONAL VIRTUAL MEETING & EXPOSITION | UNITED STATES

# CHEMISTRY IN SPACE: NOVEL TRENDS

In the history of space research, we have come to the time when space chemistry and its applications (i.e., performance of chemical syntheses and formulations in space, and structural investigations for macromolecules) become important for the advancement of space technology and exploration, and not only to chemical and pharmaceutical industries on Earth. 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:

- Advancements in flow chemistry applications
- Innovative methods and technology development for CO<sub>2</sub> conversion
- Novel chemical methods development and a demonstration equipment for space manufacturing services
- Biochemistry related space research

## ORGANIZING COMMITTEE: FERENC DARVAS ATTILA PAVLATH GERGO MEZOHEGYI SZILVIA GILMORE



### 260<sup>TH</sup> ACS FALL NATIONAL VIRTUAL MEETING, AUGUST 17<sup>TH</sup> - 20<sup>TH</sup>, 2020, US PRESENTATIONS: AUGUST 19<sup>TH</sup>, 2020, 10:00 AM SPONSORING COMMITTEE: YOUNGER CHEMISTS COMMITTEE CO-SPONSORING DIVISIONS: BMGT, AGRO, ENVR, FLUO, GEOC, INOR, NUCL, PROF, RUBB, BIOL and COLL BROADCAST SESSION: CHEMISTRY IN SPACE: NOVEL TRENDS

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TIMETABLE	PRESENTING AUTHOR	AFFILIATION	ΤΙΤLΕ
10:00 - 10:20	Csaba Janáky	University of Szeged Hungary	Sunlight-driven electrochemical conversion of CO <sub>2</sub> to useful products in space
10:20 - 10:40	Aaron Beeler	Boston University USA	The Flow Chemistry CubeLab (FCCL) platform
10:40 - 11:00	Jana Stoudemire	Space Tango Inc. USA	Flow Chemistry on the International Space Station: Novel approaches to chemical synthesis and fully automated microreactor systems
11:00 - 11:20	Naohiro Sato	Japan Manned Space Systems Corporation (JAMSS) Japan	JAMSS pilot mission of "Kirara" in-space manufacturing using ISS
11:20 - 11:40	Guy Samburski	SpacePharma SA Switzerland	Studying biochemistry in space
11:40 - 12:00	0&A (real time video)		