# CURO-π 6

6th International Symposium on the Synthesis and Application of Curved Organic π-Molecules and Materials

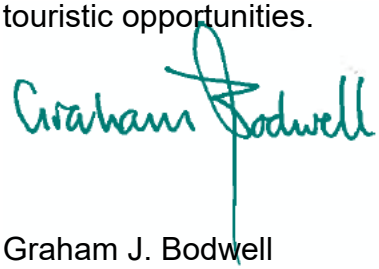
July 23-25, 2025
St. John's, Canada

# Welcome to CURO-π VI

It is a distinct pleasure for me to welcome you to St. John's for the 6th International Symposium on the Synthesis and Applications of Curved Organic π Molecules and Materials – **CURO-π VI**. I look forward to meeting everyone and hearing about the exciting new results that will be presented.

The aim of this CURO-π series is to provide a forum for the dissemination of the latest developments in the vibrant and burgeoning field of non-planar π-systems. Held every two years in a very friendly and informal atmosphere, these international symposia also serve as a platform to spontaneously connect participants and initiate fruitful cooperation across disciplines. The focus is on non-planar molecular organic π-systems and materials and this encapsulates their synthesis, properties and applications in chemistry, physics, biology and technology, whether studied experimentally or theoretically.

The CURO-π symposium series was launched in 2014 by Professors Shigeru Yamago, Graham Bodwell and Hiroyuki Isobe. The first meeting, CURO-π[1], was held in Kyoto, Japan (2014). CURO-π[2] was then organised by Professor Ramesh Jasti in Eugene, OR, USA (2016). This was followed CURO-π[3], which was organized by Professor Harry Anderson in Oxford, UK (2018). Professor Liangbing Gan subsequently hosted CURO-π[4] in Beijing, China (2022). Most recently, CURO-π[5] was organized by Professor Irena Stara in Prague, Czechia (2023). I am now delighted to continue this series in St. John's. On behalf of the organizing committee, we hope that you enjoy the top-quality science, the picturesque setting of the conference, the warm local hospitality and the spectacular touristic opportunities.



Graham J. Bodwell

St. John's, NL, Canada

Journal of Physical Organic Chemistry

MEMORIAL UNIVERSITY

# Scientific Program

## Wednesday, July 23, 2025

12:30–14:00 Registration

*Afternoon Session 1 – Chair: Hiroyuki Isobe*

14:00–14:10 **Graham J. Bodwell**, Memorial University of Newfoundland, Canada
*Welcome*

14:10–14:55 **Shigeru Yamago**, Kyoto University, Japan
*Keynote Lecture: Title TBA*

14:55–15:30 **Irena Stara**, Czech Academy of Sciences, Czechia
*Invited Lecture: Helicenes in Action: Chiral Scaffolds for π-Conjugated Macrocycles with Tailored Structure, Chiroptics, and Aromaticity*

15:30–16:05 **Mike Haley**, University of Oregon, USA
*Photophysical and Supramolecular Structure-Property Relationships in Pyrido[e]1,2λ$^5$-azaphosphinines*

16:05–16:30 Break

16:30–17:05 **Qian Miao**, The Chinese University of Hong Kong, Hong Kong SAR
*Invited Lecture: Toward Negatively Curved Carbons*

17:05–17:30 **Josh Walsh**, University of Manitoba, Canada
*Accessing Diarylacetones and Cyclophanes via the Ružička Reaction*

17:30-19:00 Hike on Signal Hill

## Thursday, July 24, 2025

*Morning Session 1 – Chair: Przemyslaw Gawel*

09:00–09:25 **Iain Wright**, University of Edinburgh
*Axially-Folded Electron Acceptors from Bridgehead-to-peri Annulated Triptycenes*

09:25–10:00 **Marina Petrukhina**, State University of New York, USA
*Invited Lecture: Curved π-Radicals: Coupling Through Covalent and Non-Covalent Interactions*

10:00–10:25 **Ka Man Cheung**, Oxford University, United Kingdom
*Synthesis and Global Aromaticity of Porphyrin Nanobelts*

10:25–10:50 Break

10:50–11:25 **Wes Chalifoux**, University of Alberta, Canada
*Invited Lecture: Bay, Cove, and Fjord Crowding in Nanographenes to Induce Twisting with High Inversion Barriers*

11:25–11:50 **Andrej Jančařík**, CRPP-CNRS, France
*Acenohelicenones*

11:50–12:15 **Cedric Schaack**, Wake Forest University, USA
*Readily Accessible, Versatile, and Adaptive Biaxially Chiral Chromophores*

12:15–13:45 Lunch and IAB Meeting

*Afternoon Session 2 – Chair: Ivo Stary*

13:45–14:20 **Ken Tanaka**, Tokyo Institute of Technology, Japan
*Invited Lecture: Enantioselective Synthesis of Chiral Nanocarbons by [2+2+2] Cycloaddition*

14:20–14:55 **Rik Tykwinski**, University of Alberta, Canada
*Subphthalocyanines as Building Blocks for Singlet Fission*

14:55–15:20 **Abishek Pareek**, Institute of Organic Chemistry, Polish Academy of Sciences, Poland *π-Expanded Indolizines and Furans for Optoelectronic and Chiroptical Materials*

15:45–17:45 Poster Session

19:00– Banquet, Yellowbelly Pub, 288 Water St.

## Friday, July 25, 2025

*Morning Session 2 – Chair: Cedric Schaack*

09:00–09:35 **Agnieszka Novak-Krol**, University of Würzburg, Germany
*Invited Lecture: New Synthetic Methods to Access Azaborole Multihelicenes and Boron-Centered Spiro Compounds*

09:35–10:00 **Ori Gidron**, Hebrew University of Jerusalem, Israel
*Controlling the Helicity and Handedness of Polyaromatics with Isobenzofuranophane*

10:00–10:25 **Hidehiro Sakurai**, Osaka University, Japan
*Curved Supramolecular Network Structure Using Sumanene as a Ligand*

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| 10:25–10:50 | Break |
| 10:50–11:15 | **Thomas Baumgartner**, York University, Canada<br>*From Flat to Twisted – Synthesis and Properties of Phosphacycle-modified VAT Dyes* |
| 11:15–12:00 | **Chunyan Chi**, National University of Singapore, Singapore<br>*Keynote Lecture: Molecular Carbons with Different Shapes and Size* |
| 12:00–12:15 | Student Awards and Closing Ceremonies |

*Bon Voyage*

*Safe Travels*