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

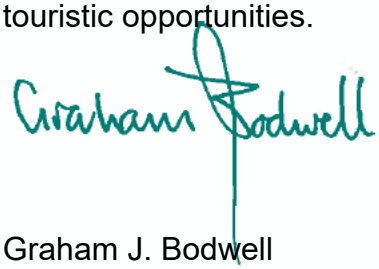
Book of Abstracts

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

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

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

Bon Voyage

Safe Travels