







EUROPEAN CONFERENCE ON

BORON CHEMISTRY

Campus de la UAB, Barcelona, Spain July 3-7, 2022

Detailed Conference Program

Rosario Núñez, chairwoman José Giner, chairman

Sponsors and Partners







































Sunday (3rd July)

Auditorium, Faculty of Philosophy and Arts/Facultat de Filosofia I lletres, UAB

16:30-19:30	Documentation	
19:30-21:30	Welcome cocktail	

Boron containing materials, polymers, ceramics, borides, boron nitride, boron oxides

Organoboron compounds and their metal complexes
Boron compounds in medicine
Other aspects of boron chemistry, including characterization and modelling

Cluster boron chemistry
Asymmetric synthesis via organoboron compounds, enantioselective reductions, chiral boron compounds

	A uditor	ium
08:00	R	egistration
08:40	Open Ceremony	
Session 1	Chair: Philippe Miele	
09:00	KN1 Todd Marder 3-Coordinate Organoboron Compounds Light The Way: Synthesis, Optical Properties and Cell Imaging	
09:45	INV1 Emmanuel Lacôte Photopolymerization with Boron Radicals	ay: Synthesis, Optical Properties and Cell Imaging
Room	Auditorium	501 (parallel room)
	Chair: Philippe Miele	Chair: Todd Marder
10:20	O1A Holger Helten	O1B Juan Z Davalos
	Macromolecular Organoborane Chemistry:	Experiment vs. theory in paramagnetic [FeIII(1,2-
	Developing Sustainable Approaches	$C_2B_9H_{11})_2$] Cs^+ : Mössbauer spectroscopy and electronic
		structure computations
10:40	O2A Sabine Müller	O2B Taiki Morita
	Assembly of Functional Nucleic Acid Enzymes and	Asymmetric Synthesis of Oxazaborolidines via Palladium-
	Aptamers from Short Borono-Modified	Catalyzed N-H/B-H Double Functionalization of 1,2-
	Oligonucleotides	Azaborines
11.00	· · ·	•
11:00 Session 2	-	Offee Break Chair: Todd Marder
Session 2	Chair: William Harman	Chair: Todd Marder
	Chair: William Harman O3A Pavel Matejicek	Chair: Todd Marder O3B Andrea Olmos
Session 2	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family
Session 2	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions?
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions – Ditopic N
Session 2 11:30 11:50 12:10	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH4 from B(OH)4 and B(OCH3)4	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions – Ditopic Neterocyclic Carbene Ligands
Session 2 11:30 11:50 12:10	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions – Ditopic Neterocyclic Carbene Ligands SC2B Masato Tsuda
Session 2 11:30	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne Catalyst free transfer hydrogenation from amine-	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions — Ditopic Neterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed
Session 2 11:30 11:50 12:10	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions — Ditopic Netterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed Propargyl Aza-Claisen Rearrangement/Borylative
Session 2 11:30 11:50 12:10	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne Catalyst free transfer hydrogenation from amine-borane dimers and oligomers to different substrates	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions – Ditopic New Heterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed Propargyl Aza-Claisen Rearrangement/Borylative Cyclization Cascade
Session 2 11:30 11:50 12:10 12:25	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne Catalyst free transfer hydrogenation from amine- borane dimers and oligomers to different substrates SC3A Romane Bellec	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions — Ditopic New Heterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed Propargyl Aza-Claisen Rearrangement/Borylative Cyclization Cascade SC3B Michele Tomasini
Session 2 11:30 11:50 12:10 12:25	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne Catalyst free transfer hydrogenation from amine- borane dimers and oligomers to different substrates SC3A Romane Bellec New energetics polynitrogen-boron compounds for	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions – Ditopic New Heterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed Propargyl Aza-Claisen Rearrangement/Borylative Cyclization Cascade
Session 2 11:30 11:50 12:10 12:25 12:40	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne Catalyst free transfer hydrogenation from amine- borane dimers and oligomers to different substrates SC3A Romane Bellec New energetics polynitrogen-boron compounds for space propulsion	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions — Ditopic Netterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed Propargyl Aza-Claisen Rearrangement/Borylative Cyclization Cascade SC3B Michele Tomasini Arylic C-H Bond Activation and Borylation
Session 2 11:30 11:50 12:10 12:25	Chair: William Harman O3A Pavel Matejicek Anionic boron clusters in supramolecular and polymer chemistry O4A Lei Gan A Highly Water-Stable meta-Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation SC1A Ainee Ibrahim Solid-state green hydrogen export utilising the regeneration of BH ₄ from B(OH) ₄ and B(OCH ₃) ₄ SC2A Louis Le Moigne Catalyst free transfer hydrogenation from amine- borane dimers and oligomers to different substrates SC3A Romane Bellec New energetics polynitrogen-boron compounds for	Chair: Todd Marder O3B Andrea Olmos Mild synthesis of polypyrazolylborates: completing the family O4B Christian Kleeberg Transition metal boryl complexes: New answers to old questions? SC1B Ludwig Zapf Tricyanoboraneimidazoline-2-ylidenate Anions — Ditopic New Heterocyclic Carbene Ligands SC2B Masato Tsuda Synthesis of Isoxazoloazaborines via Gold(I)-Catalyzed Propargyl Aza-Claisen Rearrangement/Borylative Cyclization Cascade SC3B Michele Tomasini

Auditorium

Session 3	Chair: Francesc Teixidor	
14:30	INV2 Alan Welch Bridges, Vertices and How to Distinguish Them	
Room	Auditorium	501 (parallel room)
	Chair: Francesc Teixidor	Chair: Eliseo Ruiz
15:05	O5A Jonas Warneke Reactivity of [B ₁₂ X ₁₁] fragment anions	
	(X=halogen, CN) in the gas phase and in surface layers.	
15:25	O6A Ramón Macías	O6B Jordi Poater Aromaticity in Boron Clusters Survives Radical Structural
	Ten-vertex Rhodathiaborane Reactivity: Cluster Modular Tuning and Catalysis	Changes
15:45	O7A Zsolt Kelemen	O7B Ricardo José Maza Quiroga
	The "chemical tug-of-war" in boron clusters, beyond the elongation of the C-C bonds of o-	Mapping the Electronic Structure and the Reactivity Trends for Stabilized α-Boryl Carbanions
	carboranes – a combined theoretical and experimental study	
16:05	SC5A Sohini Sinha	SC5B Daniel Vogler
	Diverse and unique photophysics of new o- carborane cluster based luminescent materials	Highly selective dipolar cycloaddition reactions of a diazido-diborane
16:20	SC6A Zhen Li Rational design and synthesis of carborane-based	SC6B Julia Ruhl Bidentate Lewis Acid Catalyzed IEDDA/PIRO Reaction as
	Luminescence lanthanide metal organic	Synthetic Tool for Medium-Sized Carbocycles
	frameworks and their application for anticounterfeiting	
16:35	SC7A Liridona Useini Carboranyl analogues of the non-steroidal anti-	SC7B Arnaud Osi 9-Boratriptycenes: A Lewis Superacids Story
16.50	inflammatory drug mefenamic acid	
16:50	SC8A Neville Murphy Metallacarboranes as triple-negative breast cancer	SC8B Damien Mahaut Metal-free hydrogenation of unactivated olefins by weakly
	therapeutics and diagnostics	basic 9-phosphatriptycene derivatives and tris(pentafluorophenyl)borane
17:05	Co	offee Break
		sion A (P1A-P26A)
19:00	Free Time to	Discover Barcelona

Tuesday (5th July)

Auditorium

KN2 Clara Viñas			
	KN2 Clara Viñas		
Towards the application of purely inorganic anionic icosahedral boron clusters in nanomedicine			
INV3 Elena Fernandez			
Site-selective C-B functionalization of 1,1-diborylalkenes			
A uditorium	501 (parallel room)		
Chair: Bohumir Grüner	Chair: Zsolt Kelemen		
O8A Hiroyuki Nakamura	O8B Krzysztof Durka		
Comprehensive Exploration of Chemical Space Using	Heavy-atom free spiro organoboron complexes as triplet		
Trisubstituted Carboranes	excited states photosensitizers for singlet oxygen activation		
O9A Fernanda Marques	O9B Tomasz Kliś		
Metallacarboranes (Ĉo, Fe) as multifunctional	Organoboron compounds in photocatalysis		
molecules for multimodal cancer treatment			
Coffe	ee Break		
Chair: Zbigniew Leśnikowski	Chair: Elena Fernandez		
O10A Simonetta Geninatti Crich	O10B William Harman		
Histidine containing PLGA nanoparticles as novel	Boron-Doped Acenes as Ligands and Reaction Centers		
theranostic agents for Boron Neutron Capture			
Therapy (BNCT)			
O11A Stefano Parisotto	O11B Merle Arrowsmith		
Exploring the Activity of ortho-Carboranes as	Facile access to iminoboranes via the Staudinger-type		
Therapeutic Agents against Alzheimer's Disease	reaction of boron(I) compounds with organic azides		
	Auditorium Chair: Bohumir Grüner O8A Hiroyuki Nakamura Comprehensive Exploration of Chemical Space Using Trisubstituted Carboranes O9A Fernanda Marques Metallacarboranes (Co, Fe) as multifunctional molecules for multimodal cancer treatment Coff Chair: Zbigniew Leśnikowski O10A Simonetta Geninatti Crich Histidine containing PLGA nanoparticles as novel theranostic agents for Boron Neutron Capture Therapy (BNCT) O11A Stefano Parisotto Exploring the Activity of ortho-Carboranes as		

12:10	SC9A Miquel Nuez-Martínez	SC9B Jana Sendra Viscarro
12.10	Fingerprint of the Small Anionic Molecule	Catalytic Stereoselective Borylative Transannular
	Cobaltabis(dicarbollide) Uptake in Glioma Stem	reaction
	· · · · · · · · · · · · · · · · · · ·	reaction
	Cells using Synchrotron-Based Fourier-Transform	
12.25	Infrared Micro-Spectroscopy (SR- FTIRM)	GG10D O LLG L LV D L
12:25	SC10A Jakub Cebula	SC10B Oriol Salvadó Ruiz
	In vitro evaluation of biological activity of cobalta	Olefination reaction between aldehydes and
	bis(dicarbollide) derivatives on eukaryotic cell lines	diborylsilylmethide lithium salts
	and bacteria	
12:40	SC11A Amanda Muñoz-Juan	SC11B Kieran Nicholson
	In vivo insights of carboranes using C. elegans	Transborylation as a General Turnover Strategy for
		Main-group Catalysis.
12:55		Committee Meeting)
<u> </u>	Auditoriu	m
Session 6	Chair: Evamarie Hey-Hawkins	
14:30	INV4 Zbigniew Leśnikowski	
	Composites of DNA and boron clusters and their assem	
	Auditorium	501 (parallel room)
	Chair: Evamarie Hey-Hawkins	Chair: Hiroyuki Nakamura
15:05	O12A Agnieszka Adamczyk-Woźniak	O12B Antonio Sousa-Pedrares
	Studies of the molecular mechanism of action of	Modulation of the coordinating ability of an
	Tavaborole and its analogues as anti C. albicans	iminophosphorane group using a carborane moiety.
	agents	
15:25	O13A Krzysztof Fink	O13B Andrea Barba-bon
	Metallacarborane-ultrashort cationic peptide	Boron clusters as broadband membrane carriers
	conjugates with antimicrobial activity	
15:45	SC12A Sebastiano M. S. Micocci	SC12B Diego Holanda Pereira de Souza
	Novel Boronated Monocarbonyl Analogues of	Hydrated Metal Boranes for Solid-State Batteries
	Curcumin (BMAC): A new approach to fighting	,
	Alzheimer disease (AD)	
16:00	SC13A Alberto Lanfranco	SC13B Amanda Berger
10.00	Synthesis of Bifunctional Agents for the Treatment of	Divalent closo-monocarbadodecaborane salts as solid-
	Mesothelioma by Coupling BNCT with Inhibition of	state electrolytes.
	CAIX	situte electrolytes.
16:15	SC14A Nils Schopper	SC14B Thomas Hales
10.13	Alkyl-, alkenyl- and alkynylcyanoborates: Syntheses	Heavy metal substituted closo-dodecaborane salts for
16.20	and properties of low-viscosity ionic liquids	future battery applications
16:30	SC15A Martin Orságh	SC15B Ioanna Chazapi
	Novel LMW gelator based on phenylboronic acid and	Specific interactions of nano-ions with proteins
	its stimuli-responsivity	
16:45	SC16A Andrei Bita	
	Diester chlorogenoborate complex: synthesis method	
	and uses thereof	
17:00		ee Break
	Poster Session	on B (P1B-P27B)
19:00	Free Time to 1	Discover Barcelona

Wednesday (6 July)

Auditorium

Session 7	Chair: Alan Welch		
09:00	KN3 Francesc Teixidor		
	Metallacarboranes as Seen Through my Eyes		
09:45	INV5 Evamarie Hey-Hawkins		
	Carboranes and Metallacarboranes as Building Blocks for the Design of Novel Anti-Tumour Agents		
Room	A uditorium	501 (parallel room)	
	Chair: Alan Welch	Chair: Jordi Poater	
10:20	O14A Isabel Romero Garcia	O14B Jedrzej Walkowiak	
	Ruthenium-Cobaltabis(dicarbollide) as Efficient	Green catalysis in organoboron and related compounds	
	Photoredox Catalyst through Proton Coupled	synthesis	
	Electron Transfer processes (PCET)		
10:40	O15A Maria José Mostazo-López	O15B Terry Humphries	
	Synthesis and electrochemical performance of	Regeneration of sodium borohydride by reactive ball	
	fluorine-functionalized cobaltabisdicarbollide	milling with Mg ₂ Si	
11:00	Co	offee Break	

Session 8	Chair: Deflet Gabel	Chair: Jordi Poater
11:30	O16A Aleš Růžička	O16B
	Opening Cationic Heteroboranes Era	
11:50	O17A Fabrizio Murgia	O17B Eliseo Ruiz
	Metastable NaCB11H12 polymorph prepared by	Theoretical Approach to Carborane-based Systems: From
	mechanical milling as new superionic conductor	Magnetism to Photochemistry
	for post-Li solid-state batteries	
12:10	O18A Isabel Guerrero Troyano	O18B Laura Caggiu
	Metallabis(dicarbollide) a green and efficient	Novel closo-hydridoborates of K, Mg and Ca as potential
	photoredox catalyst for epoxidation reactions	solid electrolytes for post-lithium solid-state batteries
12:30	SC17A Jewel A M Xavier	SC17B Philipp Grewelinger
	Tapping the potential of Metallacarboranes as	Facile access to non-classical 1,2-diboriranes
	Standard Internal Reference	
12:45	SC18A Tarek Marei	SC18B Dominic Willcox
	Host-guest interaction of substituted dodecaborate	Borane-Catalysed C(sp3)–F Bond Arylation and
	anions with hydrophobic hosts	Esterification Enabled by Transborylation
12.00		T 1

13:00 Lunch

Auditorium

Session 9	Chair: Clara Viñas
14:30	INV6 Bohumír Grüner
	Boron Cluster Inhibitors of Cancer Associated CA-IX Enzyme- an Overview
15:05	O19A Agnieszka Olejniczak
	Compounds containing boron clusters with antibacterial and anticancer activity.
15:25	O20A Marcos Couto
	Carbaboranyl-based tyrosine Kinases inhibitors as bimodal therapeutic agents against Glioblastoma, the worst
	Prognosis Brain Cancer
15:45	O21A Christoph Selg
	Borinostats: Solid-Phase Synthesis of Carborane-Capped Histone Deacetylase Inhibitors with a Tailormade
	Selectivity Profile
16:05	Excursion + Dinner

Thursday (7th July) Auditorium

Session 10	Chair: Emmanuel Lacôte
09:15	KN4 Philippe Miele
	Boron nitride based nanostructured materials for energy, health and
	environmental applications.
10:00	INV7 Detlef Gabel
	The functionalization of dodecaborate - an ongoing challenge
10:35	O22A Mahmoud Al-Joumhawy
	Insight into synthesis and properties of functionalized dodecaborates
10:55	Coffee Break
C! 11	Chain Band Marking
Session 11	Chair: Pavel Matejicek
11:30	O23A Michael Beckett
	Hydroxidooxidohexaborate chemistry: 1-D coordination polymers with
	Zn(II) and Cu(II) amine complexes.
11:50	O24A Bérangère Toury
	Excellent Boron Nitride Nanosheets from a new source of large hBN
	single crystals
12:10	O25A Eric Rivard
	Polyacetylenes with Redox Active Boryl Groups and the Quest to Prepare
	BN at Low Temperature
12:30	Prizes + Closing Ceremony
13:00	Lunch + Departure

Poster Session A (Monday 4th July 17:05-19:00)

	1 oster session in (Monady 1 daily 17.00 19.00)	
Syrine Affes	Graphene, Polyaromatic Hydrocarbons and Cosane	P1A
Virinder Bhagat	Reactivity studies of a Donor Stabilized Borylnitrene	P2A
Charlotte Bodin	Borates based interface for calcium metal batteries	P3A
Fabian Burzlaff	Synthesis and reactions of fluorinated closo-dodecaborates	P4A
Deniz Cam	N-Functionalization of the closo-Dodecaborate Anion [B12H12]2- via Arylation of [B12H11NH3]-	P5A
Vicente Compañ	Metallacarborane salts as doping agents in polybenzimidazole-based membranes with enhanced proton conductivity for high temperature proton exchange membranes	P6A
AnnaMaria Deagostino	Synthesis of a new Theranostic Agent Containing Boron and Biotin for BNCT/MRI Applications	P7A
Paula Dominguez Molano	Transborylation between diboron reagents and alkenylboranes	P8A
Ferdinand Ehlers	Synthesis and spectroscopic properties of the cyanated closo-Dodecaborates $[B12(CN)11X]2$ - anions $(X = F, Cl, Br, I, NH2)$	P9A
Sarah Fellinger	A New Synthesis to C-substituted 1-Carba-closo-dodecaborates	P10A
Roman Franz	Phosphanyl-Boranes embedded into a [3] ferrocenophane scaffold	P11A
Gerard Bru	Mechanistic insights into the transborylation between diboron reagents and alkenylboranes: A DFT study	P12A
Sara González Morán	1,2-Dicarbofunctionalization of 1,1-arylborylalkenes	P13A
Divanshu Gupta	Computational Studies of Reactivity and Nature of $B \equiv N$ bond Containing Cyclic Rings	P14A
Tobias Heitkemper	Reactivity of novel 2,5-silyl substituted Boroles	P15A
Belhssen Hleli	Associative behavior of dodecaborate conjugates with alkyl tails	P16A
Drahomir Hnyk	Reactions of icosahedral, bicapped-square antprismatic and octahedral heteroboranes with n-heterocyclic carbenes: computational studies of origination of the corresponding heteroborane cations	P17A
Josef Holub	The Establishment of the Class of Non-Covalent Organic Framework Materials by Phenyl-Substituted Thiaboranes – linked 2D and 3D Aromatics	P18A
Evelyn Hümpfner	Aromatic conjugation between the 2D and 3D systems	P19A
Paweł Huninik	Transition-metal catalyzed Markovnikov and anti-Markovnikov selective hydroboration of mono- and disubstituted alkenes	P20A
Litwin Jacob	Ionic materials based on [closo-B10H10]2- anion for modern technological applications	P21A
Rafal Jakubowski	Photophysical and thermal properties of self-organizing derivatives of 10- and 12-vertex p-carboranes	P22A
Mari Janse van Rensburg	Synthesis and Electrochemical Investigation of Boron Verdazyl Radicals	P23A
Damian Kaniowski	Highly boron-loaded antisense oligonucleotides conjugated with target-directed ligands for dual anticancer therapy: anti-EGFR and BNCT	P24A
Denis Kargin	Examples of chalcogen transfer and reactivity of boron based compounds	P25A
Roman Keder	Polyborazylene: A precursor for the formation and deposition of boron nitride layers	P26A

Poster Session B (Tuesday 5th July 17:00-19:00)

Willi Keller	Synthesis and Structural Verification of the First Small Polyhedral Telluraborane closo- TeB5Cl5: How Far can Molecular Octahedral Distortion go?	P1B
Barbara Krupa	Catalytic hydroboration of carbonyl compounds in traditional and green reaction media	P2B
Min Hyung Lee	TADF Emitters Based on Boron-Carbonyl Hybrid Acceptors: Achieving Fast Spin-Flip and High-Efficiency OLEDs	РЗВ
Xiaobao li	Towards the Generation of Hierarchical Porosity in Carborane-Based Metal-Organic Frameworks	P4B
Falk Lissner	SYNTHESIS AND STRUCTURE OF A LONG PREDICTED SMALL POLYHEDRAL THIABORANE: closo-SB5Cl5	P5B
Matthias Maier	Poly(iminoborane)s: An Elusive Class of Main Group Polymers?	P6B
Jelena Matovic	Glycoconjugates for boron neutron capture therapy	P7B
Soňa Mesíková	Nanomaterials based on electrostatic interaction of triblock copolymers with closo- dodecaborate	P8B
Max Milewski	Carboranylphosphines meet dendrimers - New scaffolds for ligand design	P9B
Moheera Noor	Halogenation of substituted dodecaborate clusters	P10B
Lucia Pazderova	Derivatives of conformationally restrained cobalt bis(dicarbollide) ion as a new chiral platform and a tool for electrolabeling of biomolecules	P11B
Mireia Pujol Marti	Copper Catalyzed Stereoselective cross coupling of gem-diborylalkenes	P12B
Carmen Ramirez de Arellano	Free scorpionate ligands ready for metal complexation	P13B
Gabriela Ramos	Binding of substituted dodecaborate clusters to cyclodextrins	P14B
Daria Różycka	Isoniazid containing boron clusters – synthesis and activity	P15B
Sebastian Rykowski	3- and 4-Substituted naphthalimide DNA intercalators bearing carborane cluster – synthesis, physicochemical and biological properties	P16B
Julijan Sarcevic	Neutral half-sandwiches of silicon, germanium and tin	P17B
Marvin Sindlinger	Structural characterization and reactivity of a kinetically stabilized benzoborirene	P18B
Krzysztof Śmiałkowski	Oligofunctionalization of cobalt-bis(1,2-dicarbollide)ate (COSAN) as a building block for nanoconstructions	P19B
Tomasz Sokolnicki	Ru-catalyzed Coupling of Vinylsilanes with Vinyl Boronates in PEGs and scCO2 – A Green Approach Towards 1-Boryl-1-silylethenes.	P20B
Philipp Stockmann	Reversion of drug resistance – a carboranic approach	P21B
Lukas Swoboda	Furan Based Diboraporphyrins – Broadband UV-vis to NIR Absorbers	P22B
Jakub Szyling	TM-catalyzed diboration and hydroboration of 1,3-diynes – efficient access to boryl- functionalized enynes	P23B
Ece Zeynep Tüzün	Boron Clusters in Design of Fluorescent Probes and Kinase Inhibitors	P24B
Lea Ueberham	Synthesis of carborane-based ligands for theranostic approaches	P25B
Ziyan Warneke	Gas phase reactivity of functionalized halogenated closo-dodecaborate anions	P26B
Ryotaro Yamanashi	A base-stabilized neutral B=O species supported by a bis(oxazolinyl)methanide ligand	P27B

Sponsors and Partners





