\*All lectures will be held in the Signers Ballroom\*

Sunday	, No	ovember 12	Technical Program
3:00 PM		REGISTRATION BOOTH OPENS I LOCATION: QUEEN STREET GALLERY	
LECTURE S	ESSI	ON I – DISCUSSION LEADER: KRIS MATYJASZEWSKI	
4:00 PM	1.	Bert Klumperman, Stellenbosch University The Intricacies of Maleic Anhydride Copolymerizations	
4:30 PM	2.	Alexandru Asandei, University of Connecticut Photo-Controlled Radical Homo- and Block-Copolymerization of Fluoro	alkenes
5:00 PM	3.	Jorge F.J. Coelho, University of Coimbra Reversible Deactivation Radical Polymerization: A New Life for Poly(viny	
5:30 PM	4.	Eva Harth, University of Houston  Methodologies to Combine Insertion Polymerization Techniques with Ra	·
6:00 PM		OPENING RECEPTION I LOCATION: PLANTERS SUITE	
7:00 PM		END DAILY SESSION	
LECTURE S	ESSI	ON II – DISCUSSION LEADER: BRENT SUMERLIN	
LECTURE S	ESSI		
8:30 AM	5.	Erin E. Stache, Princeton University Cobalt Mediated Radical Polymerizations	
9:00 AM	6.	Rinaldo Poli, Laboratoire de Chimie de Coordination Limits of OMRP: The Case of Palladium	
9:30 AM	7.	Allan Guymon, University of Iowa Controlled Radical Photopolymerization and Photoinitiation to Direct Ne	etwork Structure
10:00 AM		BREAK	
LECTURE S	ESSI	ON III – DISCUSSION LEADER: NICK TSAREVSKY	
10:30 AM	8.	Masami Kamigaito, Nagoya University Synergistic Progress of Living Cationic and Radical Polymerization	
11:00 AM	9.	C. Adrian Figg, Virginia Tech Using Photoredox Chemistry to Overcome Monomer Limitations in RAFT P	olymerization
11:30 AM	10.	Makoto Ouchi, Kyoto University Rational Design of Post-Polymerization Modification Monomers for a Libs Sequence/Tacticity-Controlled Polymers	ary Synthesis of
12:00 PM		LUNCH ON YOUR OWN	

Monda	y, N	ovember 13 (continued)
LECTURE S	ESSIC	DN IV - DISCUSSION LEADER: ATHINA ANASTASAKI
2:30 PM	11.	Craig Hawker, University of California, Santa Barbara Controlled Radical Polymerization of $\alpha$ -Lipoic Acid: A General Route to Degradable Vinyl Copolymers
	12.	Speaker Cancellation
3:00 PM	13.	Mingjiang Zhong, Yale University Microstructure Engineering of Polymer Chains by Controlled Radical Polymerization
3:30 PM	14.	Dominik Konkolewicz, Miami University Photopolymerization and Photodegradation of Vinyl Ketone Polymers
4:00 PM		Nathan Gianneschi, Northwestern University Backbone Chemistry Matters: Bioactivity of Protein-Like Polymers
4:30 PM		BREAK
LECTURE S	ESSIC	DN V - DISCUSSION LEADER: RINALDO POLI
5:00 PM	16.	Athina Anastasaki, ETH Zurich Photocatalytic ATRP and RAFT Depolymerization; Temporal Regulation at Low Catalyst Loadings
5:30 PM	17.	Xiangcheng Pan, Fudan University Heteroatom Radical Controlled Polymerization
6:00 PM		END DAILY SESSIONS
6:00 PM		POSTER SESSION AND RECEPTION I LOCATION: MIDDLETON ROOM
Tuesday	y, No	ovember 14
7:30 AM		CONTINENTAL BREAKFAST I LOCATION: IRON ROSE
LECTURE S	SESSIC	ON VI - DISCUSSION LEADER: BERT KLUMPERMAN
8:30 AM	18.	Steven Bowles, PPG Adventures in Commercializing Low Copper (ICAR) Controlled Radical Polymerization (CRP)
9:00 AM	19.	Joanna Pietrasik, Lodz University of Technology
9:30 AM	20.	Jung Kwon (John) Oh, Concordia University Reactive Block Copolymer Strategy toward Development of Dynamic Poly(hindered urea) Covalent Adaptive Networks for Reprocessable Energy Harvesting Triboelectric Nanogenerators
10:00 AM		BREAK

Tuesday	y, No	ovember 14 (continued)
LECTURE S	SESSIC	ON VII - DISCUSSION LEADER: ADRIAN FIGG
10:30 AM	21.	Chuanbing Tang, University of South Carolina Harnessing Controlled Polymerization towards Robust Antimicrobial Polymers
11:00 AM		Cyrille Boyer, University of New South Wale Using Living/Controlled Radical Polymerization in Photocuring 3D Printing
11:30 AM	23.	Nico Bruns, Technical University of Darmstadt  Biocatalytic Radical Polymerizations to Create Artificial Cells and Engineer the Surface of
12:00 PM		LUNCH ON YOUR OWN
SESSION V	/III – D	DISCUSSION LEADER: ERIN STACHE
2:30 PM	24.	Julien Nicolas, University of Paris-Saclay Vinyl Polymer Engineering for the Development of New Materials for Biomedical Applications
3:00 PM	25.	Mathias Destarac, Paul Sabatier University Tailored Polyvinylamines by RAFT Polymerization
3:30 PM	26.	Edmondo Benetti, University of Padova Opportunities and Challenges in Fabricating and Applying Polymer Brushes
4:00 PM	27.	Shigeru Yamago, Kyoto University Synthesis of Dendritic Hyperbranched Polymers by Controlled Radical Polymerization
4:30 PM		BREAK
SESSION IX	( – DI	SCUSSION LEADER: CHRISTIAN PESTER
5:00 PM	28.	Michael Cunningham, Queen's University  Block-Random Copolymers: Self-Assembly Behavior and Role in Stabilizing Nanoparticle  Dispersions
5:30 PM	29.	Chi-How Peng, National Taiwan University Reversible-Deactivation Radical Polymerization of Vinyl Acetate Mediated by Schiff Base Derivatives
6:00 PM	30.	Graeme Moad, CSIRO Electrochemically Initiated RAFT Polymerization
6:30 PM		END DAILY SESSIONS, DINNER ON YOUR OWN

## Wednesday, November 15

7:30 AM		CONTINENTAL BREAKFAST I LOCATION: IRON ROSE
LECTURE S	ESSIC	DN X - DISCUSSION LEADER: HAIFENG GAO
8:30 AM	31.	Michael Bockstaller, Carnegie Mellon University  Copolymer Brush Particle Hybrid Materials with 'Recall-and-Repair' Capability
9:00 AM	32.	Christian Pester, Pennsylvania State University Polymer Brush-Based Heterogeneous Photocatalysis
9:30 AM	33.	Nicholas Warren, University of Leeds Autonomous Reactor Platforms for Next Generation Polymer Synthesis
10:00 AM		BREAK
LECTURE S	ESSIC	ON XI - DISCUSSION LEADER: NICHOLAS WARREN
10:30 AM	34.	Antonina Simakova, BioHybrid Solutions NanoArmor® Technology for Delivery of Optimized Biotherapeutics
11:00 AM	35.	Greg Qiao, University of Melbourne Latest RAFT Processes Under Temporal Controls
11:30 AM		CLOSING REMARKS I MEETING ADJOURNS

## MONDAY, NOVMEBR 13, 2023

#### **POSTER PROGRAM**

#### Jacqueline E. Anatot, Taylor Sheehy, Karan Arora, John T. Wilson

Vanderbilt University

Macrophage-Targeted Polymer-Drug Conjugates for STING Pathway Activation to Improve Cancer Immunotherapy

#### lan C. Anderson and C. Adrian Figg

2. Virginia Tech

Protein Photocatalysts for PET-RAFT Polymerization

#### Jared G. Baker, Richard Zhang, and C. Adrian Figg

3. Virginia Tech

Installing A Single Monomer Within Acrylic Polymers Using Photoredox Catalysis

## Axel Bossavit, Anthony Kermagoret, Didier Siri, Vincent Monteil, and Didier Gigmes

4. Aix Marseille University

Experimental and Computational Study of Titanium Complexes towards Controlled Copolymerization of Olefins and Vinyl Polar Monomers

### Jared I. Bowman, Cabell B. Eades, Maria A. Vratsanos, Nathan C. Gianneschi, and Brent S. Sumerlin

5. University of Florida

Ultrafast Xanthate-Mediated Photoiniferter Polymerization-Induced Self-Assembly (PISA)

## <u>Clément Chambrial</u>, Sébastien Maria, Didier Gigmes, Marc Ramuz, and Thierry Djenizian

Aix Marseille University

6. Synthesis and Characterization of Self-Healing Copolymer Electrolytes for Stretchable Li-lon Microbatteries

#### **I-Hsiang Chang**

7. National Tsing Hua University

Exploring the Potential of Organomediator Tropone and its Derivatives for Reversible-Deactivation Radical Polymerization in Aqueous Medium

#### Samantha M. Clouthier, Jiajia Li, Joji Tanaka, and Wei You

8. University of North Carolina

Expanding the Scope of RAFT Step-Growth

#### Sajjad Dadashi-Silab, Cristina Preston-Herrera, and Erin E. Stache

9. Cornell University

Cobalt Catalysis in Atom Transfer Radical Polymerization

## Cabell B. Eades, Diba Allameh Zadeh, Jared I. Bowman, Daniel R. Talham, and Brent S. Sumerlin\*

10. University of Florida

Hybrid Polyion Complexes: Application and Advancement

#### Hui Wang, Chantal J. Abou-Fayssal, Eric Manoury, Rinaldo Poli, and Christophe Fliedel

University of Toulouse

Core-Crosslinked Micelles and Nanogels with an Anionic Poly(styrene sulfonate)-Based Shell Made by RAFT Polymerization: A New Tool for Aqueous Biphasic Hydrogenation Catalysis

#### Banruo Huang, Mizhi Xu, and Craig J. Hawker

12. University of California, Santa Barbara

Synthesis and Reactivity of Diazirine-Containing Copolymers

#### **Rhys Hughes**

13. University of Florida

Electrochemical Modification and Degradation of Polymers

## Vianna F. Jafari, Ross Wylie, and Greg G. Qiao

University of Melbourne

Accelerated Photo-Iniferter RAFT Polymerization Using Ionic Liquid-Organic Solvent as Reaction Media

#### **POSTER PROGRAM**

<u>Megan E. Lott</u>, Lucca Trachsel, Emmanuelle Schué, Cullen L. G. Davidson, IV, Rebecca A. Olson S., Diego I. Pedro, W. Gregory Sawyer, and Brent S. Sumerlin

15. University of Florida

Ultra-High Molecular Weight Triblock Copolymers via Inverse Miniemulsion Photoiniferter Polymerization

Chantal J. Abou-Fayssal, Hui Wang, Ambra M. Fiore, Christophe Fliedel, K. Philippot, M.M. Dell'Anna, P. Mastrorilli, Leonhard Schill, Anders Riisager, Rinaldo Poli, and <u>Eric Manoury</u>

16. CNRS

Metallic Nanopaticles in Polymeric Noreactors for Aqueous Biphasic Catalysis

<u>Elizabeth A. Murphy</u>, Stephen J. Skala, Yan-Qiao Chen, Dimagi Kottage, Kaitlin Albanese, Jacob R. Blankenship, Allison Abdilla, Morgan W. Bates, Cheng Zhang, Christopher M. Bates,

17. and Craig J. Hawker

University of California, Santa Barbara

Efficient Creation and Morphological Analysis of Block Copolymers

## Sofia L. Goodrich, Madison E. Ross, James B. Young, and Brent S. Sumerlin

18. University of Florida

Democratization of Sono-RAFT: Reversible-Deactivation Radical Polymerization with Low-Frequency Ultrasound

#### Ariana Tamura

19. University of Florida

Stimuli-Responsive Statistical and Block Copolymers as Synthetic Mucin Replacements

#### Lucca Trachsel, Kevin A. Stewart, Jason D. Hillman, and Brent S. Sumerlin

20. University of Florida

β-Triketones as Reactive Handles for Polymer Functionalization via Dynamic Diketoenamines

#### **Adam Voelker**

21. BioHybrid Solutions

Preparation and Characterization of Bioconjugates Using NanoArmor® Technology

## Mizhi Xu, Banruo Huang, and Craig J. Hawker

22. University of California, Santa Barbara

Polymeric Diazirines as Efficient Cross-Linking Agents

## <u>James B. Young</u>, Rhys W. Hughes, Ariana M. Tamura, Laura S. Bailey, Kevin A. Stewart, and Brent S. Sumerlin

23. University of Florida

Bulk Depolymerization of Polymethacrylates for Reversion to Monomer and Thermoplastic Property Augmentation

#### Xiaomeng Li, Yishayah Bension, and Chuanbing Tang

24. University of South Carolina

Sustainable Polymer: Mimicking Polystyrene

## Luis Ramos, Huina Lin, and Chuanbing Tang

25. University of South Carolina

Synthesis of Mechanophore-Containing Polymers Derivatives via Atom Transfer Radical Polymerization for Mechanochemistry

# <u>Stéphane Mazières</u>, Andrii Karpus, Anna Stasiuk, Oleksandr Ivanchenko, Simon Harrisson, Rinaldo Poli, Eric Manoury, and Mathias Destarac

26. University of Toulouse

Switchable RAFT Polymerization via Chain-End Chemical Modification