Sunday - June 18 Technical Program				
1:00 PM		Registration Booth opens		
SESSION A	A: SYN	NTHESIS, CHARACTERIZATION, AND PROPERTIES I		
Session Ch	air: Al	lexandru Asandei, University of Connecticut		
2:30 PM		Welcome and Introductory Remarks by Workshop Chairs Jena McCollum, University of Colorado – Colorado Springs & Bruno Am (France)	neduri, CNRS	
2:45 PM	1.	The Fluorine Toolbox: from Molecular Design to Advanced Applications Cheng Zhang, University of Queensland (Australia)	S	
3:15 PM	2.	Separation of Hydrofluorocarbon Refrigerants Using Fluorinated Copoly Perfluoro(2,2-Dimethyl-1,3-Dioxole) (PDD) and Vinyl Acetate (VA) Abby Harders, University of Kansas	mers of	
3:45 PM		Break		
4:00 PM	3.	A Journey from the Synthesis of Functional 2-Trifluoromethacrylate Mor Radical Copolymerizations with Vinylidene Fluoride, and Applications Bruno Ameduri, French National Center for Scientific Research (France)		
4:30 PM	4.	Fluorinated (Co)Polymers as Coating Materials for Slow-Release Fertilization		
5:00 PM	5.	Free and Controlled Radical Homo- and Block Photopolymerizations of with Group 14 Derivatives and (Fluoro)Alkyl Halides Alexandru Asandei, University of Connecticut	f (Fluoro)Alkenes	
5:30 PM		Welcome Reception		
		Dinner on your own		
Monda ¹ SESSION B		une 19 Ithesis, Characterization, and properties II		
Session Ch	air: Jo	ames Goldbach, Arkema		
8:00 AM	6.	Interfacial Friedel-Crafts Reactions of Hexafluoroacetone Hydrate: Synt 12F Polymers Gustavo Munoz, Mississippi State University	thesis of 6F and	
8:30 AM	7.	Continuous Flow Synthesis of Polyvinylidene Fluoride Stefan Herrmann, RWTH Aachen University (Germany)		
9:00 AM	8.	Well-Defined Semi-Fluorinated Aromatic Polyamide Brushes Stephen Boyes, George Washington University		

Monda	y - Ju	une 19 CONT'D
9:45 AM	9.	Efficient Mineralization of Poly(Vinylidene Fluoride) and Related Copolymers Using Superheated Water in the Presence of Alkaline Reagent Hisao Hori, Kanagawa University (Japan)
10:15 AM	10.	Rheological Methods for Size Determination in Fluorinated Thermoplastics Jena McCollum, University of Colorado – Colorado Springs
SESSION C	C: PRC	DCESSING
Session Ch	air: C	ameron Parrish, Chemours
10:45 AM	11.	Kynar® PVDF for Lithium Ion Battery and Coatings Applications James Goldbach, Arkema
11:15 AM	12.	PVDF Crystallization in Binary and Ternary Blends with PMMA and POSS Nanostructured Additives Toby Edwards, University of Southern Mississippi
11:45 AM		Lunch on your own
SESSION D): SUR	FACES & INTERFACES
Session Ch	air: De	ennis Smith, Jr., Mississippi State University
2:00 PM	13.	Effects of Fluoropolymer Side Chain Composition on Polymer Properties via Molecular Dynamic Simulations Alex Lonnecker, Air Force Research Laboratory
2:30 PM	14.	High-Performance Polyimine Vitrimers from an Aromatic Bio-Based Scaffold Kevin Stewart, University of Florida
3:00 PM	15.	Structure and Functional Properties of Fluoropolymers with Fluoroalkyl Side Chain Atsushi Takahara, Kyushu University (Japan)
3:30 PM	16.	Surface Fluorination of Moldable Polymers Attila Pavlath, U.S. Department of Agriculture
4:00 PM		Break
4:15 PM	17.	Fluorophobic based Self-Assembly with Nanoparticles and Polymers Morgan Stefik, University of South Carolina
4:45 PM	18.	Wettability of Functionalized Graphene Oxide is Dependent on both the Size and Structure of Surface-Modifying Groups Frank Blum, Oklahoma State University
5:15 PM	19.	Nanoscale IR Characterization of Ultrathin Fluoropolymer Coatings Derek Nowak, Molecular Vista
5:45 PM		Poster Session & Networking Reception
		Dinner on your own

Tuesday - June 20

SESSIONI E: DEM	MEDIATION, REGULATORY, & ENVIRONMENTAL IMPACTS OF FLUOROPOLYMERS
	Bruno Ameduri, CNRS (France)
8:00 AM 20.	Developments in Fluoropolymer Manufacturing Technology to Remove Intentional Use of PFAS as Polymerization Aids Deepak Kapoor, Gujarat Fluorochemicals Limited (India)
8:30 AM 21.	Ionic Fluorogels: A Platform Technology for PFAS Remediation from Water Frank Leibfarth, University of North Carolina
9:00 AM 22.	State of U.S. (Federal and States) and European Union Regulations Jay West, American Chemical Council
9:30 AM 23.	Nontarget LC/QToF Interrogation of Fluorinated Residues in a Fluoropolymer Dispersion Prepared with a Hydrocarbon based Processing Aid Michael Davis, Chemours
10:00 AM	Break
SESSION F: GL	OBAL STATE OF FLUOROPOLYMERS
Session Chair: I	Bruno Ameduri, CNRS (France)
10:15 AM	Open Forum Discussion with Designated Panelists
12:00 PM	Lunch on your own
SESSION G: SY	NTHESIS, CHARACTERIZATION, AND PROPERTIES III
Session Chair: S	Scott Iacono, US Air Force Academy
2:30 PM 24.	Shaken Not Stirred: Advancements in Perfluoropyridine Prepolymers Using Mechanochemical Methods Chadron Friesen, Trinity Western University (Canada)
3:00 PM 25.	Inverse Vulcanization Towards the Generation of Fluorinated Polymeric Materials Moira Lauer, Azimuth Corp., Air Force Research Laboratory
3:30 PM 26.	Vacuum-Depositable Fluoropolymers to Enhance Outcoupling Efficiency of OLEDs Takefumi Abe, AGC, Inc. (Japan)
4:00 PM	BREAK
4:15 PM 27	Extreme UV (EUV) Resists Exploiting the Unique Decomposition Behavior of Fluorinated Polymers Jin-Kyun Lee, Inha University (Korea)
4:45 PM 28	Potnourri of Topics in Elucropolymer Chemistry
5:15 PM 29	Semi-Fluorinated Aromatic Ether Polymers via Step-Growth Polymerization of

Tuesday - June 20 CONT'D

5:45 PM	30.	Fluoropolymers - Valuable Materials for the Utilization of Electromagnetic Waves: Applications from Nanometer- to Meterscale Christian Dreyer, Technical University of Applied Sciences Wildau & Fraunhofer Institute for Applied Polymer Research IAP (Germany)
6:15 PM		Poster Awards
		Dinner on your own

Wednesday - June 21

SESSION H: ENERGY CONVERSION					
Session Ch	Session Chair: Jena McCollum, University of Colorado – Colorado Springs				
8:00 AM	31.	The Origin of Piezoelectricity in Ferroelectric Polymers Lei Zhu, Case Western Reserve University			
8:30 AM	32.	Relative Phase Quantification of Defective Ferroelectric Phases in PVDF-TrFE copolymers Pedro Resende, University of Bordeaux (France)			
9:00 AM	33.	PVDF Structure and Properties in the Context of Lithium-Ion Battery Applications Bradley Kent, Solvay			
9:30 AM		Break			
9:45 AM	34.	Effect of ZnO Nanoparticles on 3D Printed PVDF Giancarlo Corti, University of Miami (OH)			
10:15 AM	35.	Flexoelectricity in Fluoropolymer Reactives Lori Groven, South Dakota School of Mines			
10:45 AM	36.	Advancing Fluoropolymer Binders to Energetic Applications Neil Vaz, Texas Tech University			
11:15 AM		Meeting Adjourns			

MONDAY, JUNE 19, 2023

POSTER PROGRAM End of Life Assessment of Fluoropolymers: Recent Developments and Challenges 1. Bruno Ameduri and H. Hori Charles Gerhardt Institute/University of Montpellier (France) Semi-fluorinated Aromatic Polyamide Brushes 2. Rhys Dickhudt, Victoria Skovorodnev, Xun Guan, Bridget Anger, Xitong Liu, and Stephen G. Boyes George Washington University Synthesis of a Novel Perfluoro(phosphoric acid) Polymer Elizabeth Salako and Yong Gao 3. Southern Illinois University Efficient Mineralization of Ethylene-tetrafluoroethylene Copolymer Using Superheated Water with **Alkaline Reagent** 4. Jin Hamaura and Hisao Hori Kanagawa University (Japan) Insights into the Complex Crystalline Structure of PVDF-based co- and ter-polymers: Impact of the Processing and Post-treatments on the Electroactive Properties 5. <u>Joulia Houssenini</u>, Guillaume Fleury, and Georges Hadziioannou University of Bordeaux (France) One Ring to Rule them all: Designing High Performance Polymers from Perfluoropyridine 6. Tiffany Li, Kyle Kramer, Mikhail Lachapelle, Nathan J. Weeks, Timothy Fuhrer, and Scott T. Iacono United States Air Force Academy In-depth Study of the Rheological Behavior and Polymer-solvent Interaction for P(VDF-TrFE) Inks: Impact of the Solvent Polarity and Copolymer Composition 7. <u>Jean-David Isasa</u>, X. Chevalier, G. Fleury, and G. Hadziioannou University of Bordeaux (France) Macromolecular Engineering of Fluorinated Electroactive Polymers 8. Raymond Khayat, Fabrice Domingues Dos Santos, Thierry Lannuzel, and Guillaume Fleury University of Bordeaux (France) Controlling Solubility in Copolymers of Fluoroalkyl, Spiropyranyl, and Isobornyl Methacrylates through **Photoinduced Process** 9. Gayoung Kim, Keun-woo Park, Yu Min Choi, Jongchan Son, Byung Jun Jung, and Jin-Kyun Lee Inha University (Korea) Fluoroalkylated Extreme UV Resists Utilizing Synergistic Combination of Noncatalytic Crosslinking and Catalytic Acidolysis 10. Yejin Ku, Gayoung Kim, Sangsul Lee, Byung Jun Jung, and <u>Jin-Kyun Lee</u> Inha University (Korea) High-Performance Ionic Fluorogels for PFAS Remediation from Natural Waters 11. Irene M. Manning, Nick G. P. Chew, Haley Macdonald, Orlando Coronell, and Frank Leibfarth University of North Carolina at Chapel Hill Rheological Methods for Size Determination in Fluorinated Thermoplastics 12. Jena McCollum University of Colorado, Colorado Springs Facile Modification of Poly(vinylidene fluoride) (PVDF)-based Polymers by Green Light - Mediated Atom Transfer Radical Polymerization (ATRP) and its Comparison with Grafting-onto Method 13. Piotr Mocny, Rohan Parekh, Ting-Chih Lin, Martin Cvek, and Krzysztof Matyjaszewski Carnegie Mellon University

MONDAY, JUNE 19, 2023 CONT'D

	POSTER PROGRAM
	High Molecular Weight and Highly Functional Vinylidene Fluoride Based Copolymers
14.	<u>Inbal Ozeri</u> , Xuhui Zheng, and Moris S. Eisen
	Israel Institute of Technology (Israel)
	Development of Fluorinated (CO) Polymers as Coating Materials for Slow-Release of
1 5	Hydrosoluble Fertilizers
15.	M. Raihane, A. Sofyane, S. Atlas, M. Lahcini, and B. Ameduri
	Cadi-Ayyad University (Morocco)
	Design of A Fluorinated Block Copolymer for PFAS Adsorption
16.	<u>Amrita Sarkar</u>
	Montclair State University
	Utilizing Regioselective Strategies Towards Diverse Fluoropolymer Architectures from
17.	Perfluoropyridine Feedstocks
	<u>Katelyn D. Thompson</u> , Nathan J. Weeks, and Scott T. lacono
	United States Air Force Academy