SUNDAY, MAY 17

Technical Program

3:00 PM		REGISTRATION OPENS (REMAINS OPEN THROUGH MEETING)
		SESSION I Jaime Grunlan, Discussion Leader
4:00 PM		OPENING REMARKS: ALEXANDER MORGAN AND JAIME GRUNLAN
4:15 PM	1.	Alexander B. Morgan, University of Dayton Research Institute *Improvements in Cone Calorimeter Best Practices: Standard Reference Materials, Maintenance Issues, and A New Potential Standard Guide with ASTM*
4:45 PM	2.	Rick Davis, National Institute of Standards & Technology *Testing of Materials with ASTM E3367 – The Cube Test*
5:15 PM	3.	Jason Huczek, Southwest Research Institute *Effects of Substrates and Support Systems on ASTM E84 Performance*
5:45 PM	4.	Mark McKinnon, Fire Safety Reseach Institute *Best Practices for Modeling Ignition from Directly Measured Thermophysical Properties*
6:05 PM		WELCOME RECEPTION (1 HOUR)

MONDAY, MAY 18

		SESSION II Alexander Morgan, Discussion Leader
8:00 AM		MORNING COFFEE WITH LIGHT PASTRIES AND FRUIT
8:30 AM	5.	Sabyasachi Gaan, EMPA *Recyclable Fire-Retardant Dynamic Phosphonated Networks from H-Polyphosphonates*
9:00 AM	6.	Bernhard Schartel, Federal Institute for Materials Research and Testing (BAM) *Flame Retardant Polyurethane Featuring Future Challenges*
9:30 AM	7.	Marie-Odile Augé, Safran Composites *Representative elementary volume Combustion Calorimeter (RevCC) : a new tool to study aircraft composites materials*
9:50 AM	8.	Abdenour Amokrane, EDF R&D *Assessing the Validity of the 1D Assumption in Polymer Pyrolysis Modeling of Cylindrical Materials*
10:10 AM		BREAK
10:35 AM	9.	Jaime Grunlan, Texas A&M University *Self-Extinguishing Polyester, Polyurethane, and Polyamide with Benign Polyelectrolyte-Based Coatings*
11:05 AM	10.	Federico Carosio, Politecnico di Torino – Alessandria Campus *Flame retardant composites from polyelectrolyte complexes and natural fillers*
11:35 AM	11.	Douglas Fox, American University *Crosslinked, carbohydrate-based, flame-resistant coatings for wood-based products*
11:55 AM	12.	Margaret J. Karim, Texas A&M University *Vibratory Ball Milling of Solid State Flame Retardant Polyelectrolyte Complex for Use in Polymer Emulsions*

MONDAY, MAY 18, CONT'D

12:10 PM		LUNCH ON YOUR OWN
		SESSION III Bernhard Schartel, Discussion Leader
2:00 PM	13.	Serge Bourbigot, University of Central Lille *Fire-retarded polymer in space-like environment*
2:30 PM	14.	Hatsuo Ishida, Case Western University *Intrinsic and Extremely High Flame-Retardant, Bio-based Polybenzoxazines: Flammability Under Various Oxygen Concentrations*
3:00 PM	15.	Todd Emrick, University of Massachusetts *Approaches to Polymeric Flame-Retardants: Halogen-free, Phosphorus-free, and PFAS-free*
3:30 PM		BREAK
4:00 PM	16.	Laura E. Hasburgh, Forest Products Laboratory *Nanoscale X-Ray Imaging of Thermally Degraded Wood*
4:30 PM	17.	Fernando Raffan-Montoya, University of Maryland *Towards Predicting ASTM D613 (Vertical Flame Test) Performance of FR Treated Fabrics Using Milligram-scale Flame Calorimetry*
5:00 PM	18.	Isaac T. Leventon, National Institute of Standards and Technology (NIST) *Development of the NIST Cone Calorimeter Database*
5:30 PM	19.	Lyla (Changxin) Dong, Stanford University *Polymer–Particle Hydrogels for Extended Wildfire Protection*
5:45 PM		POSTER SESSION AND RECEPTION (1 HOUR)

TUESDAY, MAY 19

8:00 AM		MORNING COFFEE WITH LIGHT PASTRIES AND FRUIT
		SESSION IV Serge Bourbigot, Discussion Leader
8:30 AM	20.	Gaëlle Fontaine, Centrale Lille Institute *Elucidation of Fire Retardation Mechanisms: A Deep Dive into the Gas Phase*
9:00 AM	21.	Michael Großhauser, Fraunhofer LBF *Future Proof Flame Retardancy: Designing Resilient Solutions for Changing Demands*
9:30 AM	22.	Margaret Baumann, Performance Polymers and Additives LLC/Pinfa NA *ATO and Alternatives for Formulated FR Plastics- Pinfa NA*
9:50 AM	23.	Kelvin K. Shen, U.S. Borax *Review of Testings, Applications, and Mode of Actions of Comparative Tracking Index (CTI)*
10:10 AM		BREAK

TUESDAY, MAY 19, CONT'D

10:35 AM	24.	Aurelio Bifulco, University of Naples Federico II *Biochar in Fire protection: A sustainable alternative to other flame retardants and synergists*
11:05 AM	25.	Igor Jordanov: Saints Cyril and Methodius University, Skopje, North Macedonia *Sustainable Flame-Retardant Polyelectrolyte Complexes for Efficient Treatment of Natural, Synthetic, and Blended Textiles*
11:35 AM	26.	Carl-Christoph Höhne, Fraunhofer Institute for Chemical Technology *Safe-and-Sustainable-by-Design Flame Retardants for Insulation Foams*
11:55 AM	27.	Laura F. Guidugli, Florida Institute of Technology *Blooming and Dust Transfer Screening of Flame-Retardant Additives in Enclosure Plastics*
12:10 PM		LUNCH ON YOUR OWN
		SESSION V Gaëlle Fontaine, Discussion Leader
2:00 PM	28.	Sabine Fuchs, Hamm-Lippstadt University of Applied Sciences Synergistic bio-based flame retardant systems for polypropylene
2:30 PM	29.	Paul Joseph, Victoria University *Ignition propensities and combustion characteristics of some ligno-cellulosic materials in the context of wildland fires*
3:00 PM	30.	Svetlana Tretsiakova-McNally, Ulster University *A comparison of permeation of toxic combustion products through new and retired firefighters' jackets*
3:30 PM		BREAK
4:00 PM	31.	Carl-Eric Wilen, Åbo Akademi University *A New Kid on the Block for Flame Retardancy of Expanded Polystyrene*
4:30 PM	32.	Sandra Bischof, University of Zagreb *Closing the Loop: From Biomass to Innovative Flame Retardant Biocomposites & Biofuels*
5:00 PM	33.	Ramaswamy Nagarajan, University of Massachusetts Lowell *Surface Functionalization Strategies for Reducing Flammability of Nylon, Cotton, and NyCo Fabric*
5:30 PM	34.	Lorenzo Tosato, University of Bologna *Development and Scale-Up of Intumescent Waterborne Coatings for Wooden Structures*
5:45 PM		DINNER ON YOUR OWN

WEDNESDAY, MAY 20

8:00 AM		MORNING COFFEE WITH LIGHT PASTRIES AND FRUIT
		SESSION VI Federico Carosio, Discussion Leader
8:30 AM	35.	Sylvain Caillol, CNRS *A Journey Around Circularity in Polymers: Bio-Based Copolymerizable Flame-Retardant Systems for Sustainable Fire-Safe Materials*
9:00 AM	36.	Krishna Suleria, University of Massachusetts Lowell *Novel Durable 'No Melt Drip' Flame Retardant Coatings for Nylon 6,6 Fabrics*
9:20 AM	37.	Hajime Kishi, Univ. of Hyogo *Flame retardancy of cross-linked cyanate ester/amorphous engineering polymer blends*
9:40 AM	38.	Sharon Ma, Avient Corporation *Novel Fire-Resistant Composites Based on In-Situ Formation of Flame Barrier*
10:00 AM		BREAK
10:20 AM	39.	Dido Agostinis, AIMPLAS *Sustainable Phosphorus-Based Flame Retardants: Sustainable Synthesis, Structure–Property Characterisation, and Fire Performance*
10:45 AM	40.	Jan Wagner, Ansbach University of Applied Sciences *Can cork do more than preserve a good wine?*
11:05 AM	41.	David J. Irvin, Quantum Copper *Non-Halogenated, High Molecular Weight Flame Retardant Additive to Produce Fire Resistant Fibers and Fabrics*
11:25 AM	42.	Yanfei Xu, University of Massachusetts *Molecular Engineering for Enhanced Flame Retardancy and Reduced Thermal Conductivity in Polymers*
11:45 AM		CLOSING REMARKS

MONDAY, MAY 18, 2026

	POSTER PROGRAM
1.	**Karen Cortes-Guzman**, Demchuk Zoriana, Tang Mengjia, Sumathipala Kuma, Hun Diana E., and Saito Tomonori Oak Ridge National Laboratory *Molecular Architecture Effects in Phosphorous Flame Retardants: Quantifying the Influence of Phosphate Loading vs Aromatic Content in Fire Performance*
2.	**Zoriana Demchuk**, Karen Cortes Guzman, Mengjia Tang, Kuma Sumanthipala, and Diana Hun Oak Ridge National Laboratory *Non-toxic, Affordable Phosphorous-Based Flame Retardants for Multi-substrate Applications*
3.	**Ryan Greene**, Alec Tripi, Isaac Leventon, and Kevin McGrattan Fire Research Division, National Institute of Standards and Technology *Measurement of the Average Molecular Formula of Gaseous Pyrolyzates Produced by Combustible Solids*
4.	**Grace Inman**, Kathryn Wnuk-Fink, Aaron Bruckbauer, Cailtin Hudecek, Matthew Halloran, Aanchal Jaisingh, and Michael D. Burkart University of California San Diego *Recent Advances of 100% Bio-Based Thermoplastic Polyester Polyurethanes and Future Directions for Renewable Flame-Retardant Materials*
5.	**Margaret J. Karim**, Dallin L. Smith, Zachary Buck, Kristin L. Smith, Sarah G. Fisher, and Jaime C. Grunlan Texas A&M University *Chemical Anchoring and Crosslinking of Polyelectrolyte Complex for Durable Flame Retardant Cotton*
6.	**Athena Kolli**, Changxin (Lyla) Dong, Matthew Szedlock, and Eric A. Appel Stanford University *Advancing Sustainable Wildfire Management with Struvite-Based Hydrogel Retardants*
7.	**Jessica Passaro**, Immacolata Mazzuoccolo, Immacolata Climaco, Giulio Malucelli, Antonio Aronne, Pietro Russo, Sabyasachi Gaan, and Aurelio Bifulco Institute of Polymers, Composites and Biomaterials (IPCB) *HTL Biochar and Functionalized PVP–Silica Fiber Reinforced Flame-Retardant Epoxy Composites*
8.	**Madigan Petri**, Dallin L. Smith, Maya D. Montemayor, Federico Carosio, and Jaime C. Grunlan Texas A&M University *Universal intumescent polyelectrolyte complex treatment for cotton, polyester, and blends thereof*
9.	**Koteswar Rayachur**, Krishnamurthy Munusamy, Jainam Shah, Ravi Mosurkal, Jayant Kumar, and Ramaswamy Nagarajan University of Massachusetts, Lowell *High-Performance Flame-Retardant Fabrics via Scalable Thermal Grafting of Novel DOPO Derivatives*

	POSTER PROGRAM
10.	**Luyi Sun** University of Connecticut *Scalable and Environmentally Friendly Flame-Retardant Nanocoatings via One-Step Self-Assembly*
11.	**Kun-Ling Teng**, Yuan-Hsiang Yu, Hsinjin Edwin Yang, and Yao-ting Huang Fu Jen Catholic University *Nitrogen-Containing Ni-MOF/Polyurethane Composites: Influence of Dispersion Strategy on Thermal Stability and Flame-Retardant Performance*
12	**Kun-Ling Teng**, Yuan-Hsiang Yu, and Hsinjin Edwin Yang Fu Jen Catholic University *Eu MOF/Polyimide Nanocomposite Films with Eu_2O_3/Carbon Char Barriers for Enhanced Halogen-Free Flame Retardancy*
13.	**Andre L. Thompson**, Andrew Maizel, Audrey Tombaugh, Halen Solomon, Bruce Benner, Alix Rodowa, Michelle Donnelly, and Rick Davis Fire Research Division, NIST *Stress-Induced Changes in PFAS in Structural and Wildland Firefighter Textiles*
14.	**Haley Young** PPG Industries *Protecting Critical Infrastructure: Advanced Intumescent Coatings for Commercial and Industrial Applications*