Time	Presenter	Program	Place
08:30-9:30		Registration	Mezzanine
09:30-10:20		Opening Ceremony	New York room
10:20-10:40		Coffee Break	Mezzanine
10:40-11:30	Paul Heinz Mayrhofer	Materials science-based guidelines to develop robust hard coatings	New York room
11:30-12:00	Prof. Ana Sofia D'Oliveira	Protective graded coated for high temperature applications	New York room
12:00-14:00		Lunch	

Chairperson: Prof. Antonio Riul Jr.

Chairperson: Prof. Fernando Alvarez

Time	Presenter	Program	Place
14:00-14:50	Prof. Abdou Djouadi	CANCELLED	New York room
14:50-15:20	Sara Aldabe Bilmes	Tuning defects and pores by "chimie douce"	New York room
15:20-15:40	Lara Eggert	Layer characterization by ellipsometry of thin Ti2CTx and Ti3C2Tx films prepared with low concentrated hydrofluoric acid	New York room
15:40-16:00	Fabiola Bravo Hualpa	Development of Cu-doped AZO sensors connected with artificial neural network for organic volatiles detection linked to coffee quality	New York room
16:00-16:40		Coffee Break	Mezzanine
16:40-17:10	Prof. Chengyong Wang	Ultrafast Laser Manufacturing of Cemented Carbide Coated Tools	New York room
17:30-19:00		Happy Hour	Pool area

Chairperson: Prof. Luiz Fernando Zagonel

Time	Presenter	Program	Place
08:30-09:20	Fernando Lázaro Freire Junior	2D materials: electronic structure and doping	New York room
09:20-09:50	Tiberiu Minea	Ultra-thin functional coatings and in situ monitoring of the growth	New York room
09:50-10:30		Coffee Break	London room
10:30-10:50	Luis Francisco Sanchez Sovero	Aluminum-Doped Amorphous Silicon Carbide Thin Films as Photocathodes for Green Ammonia Production	New York room
10:50-11:10	Shirley Hossack	Study of the relative humidity dependence on film growth of self-healing polymeric surface	New York room
11:10-11:30	Fabiola Bravo Hualpa	Enhancing Organic Volatiles Gas Sensing Capabilities by Cr Doped AZO Thin Films Bilayer Systems: Optoelectronic and Structural Properties	New York room
11:30-11:50	Leandro Merces	Active Micro-Origami Hinges for Dynamically Morphing Microelectronics	New York room
11:50-14:00		Lunch	

Chairperson: Profa. Sara Aldabe Bilmes

Time	Presenter	Program	Place
	Douglas Soares	STRUCTURAL, ELECTRONIC, AND	New York
14:00-14:50	Galvão	MECHANICAL PROPERTIES OF 2D	room
		FULLERENE NETWORKS	
	Carlos Figueroa	Fundamentals of Nanotribology and	New York
14:50-15:20		Phototribology	room
	Rafael Sánchez		New York
15:20-15:40	Reátegui	Tuning and measurements of ionization in	room
		HiPIMS	
		Coffee Break	London room
15:40-16:20			
	Chenguang	Analysis of tool wear and cutting	New York
16:20-16:40	Wang	characteristics in milling by various coatings	room
	XIUQING HAO	Effect of Si content on microstructure,	New York
16:40-17:10		mechanical properties, and cutting	room
		performance of TiSiN/AITiN dual-layer coating	
		Closed Dinner	
19:00-23:00			

21th

Chairperson: Prof. Carlos Alejandro Figueroa

Time	Presenter	Program	Place
08:30-09:20	Prof. Qimin Wang	Fabrication and properties of hard coatings for high-speed machining by hybrid PVD methods	New York room
09:20-09:50	Prof. Tiegang Wang	Regulation, and Cutting Performance of the AlCrMoSiN Tool Coatings with Gradually Increasing Mo Concentration	New York room
09:50-10:30		Coffee Break	London room
10:30-10:50	Shengsheng Zhao	Determination of internal stress in ceramic coatings by application of the Stoney formula	New York room
10:50-11:10	Guilherme Segolin Selmi	Transient electrical response of reduced graphene oxide liquid-gated transistor towards synaptic devices	New York room
11:10-11:30	Yuxiang Xu	Design and deposition of hard oxide coatings with improved high-temperature properties	New York room
11:30-11:50	Gabrielle Coelho Lelis	Molecularly Imprinted Polymer Functional Coating on Eletrolytic Transistors for Point-of-care Sensing Technologies	New York room
11:50-14:00		Lunch	

Chairperson: Prof. Antonio Riul Jr.

Time	Presenter	Program	Place
14:00-14:50	Vladimir Jesus Trava-Airoldi	DLC and CVD Diamond Single Crystal growth demanding a lot of high value-added applications	New York room
14:50-15:20	Roberto Souza	Numerical Modeling of Contact and Residual Stresses of Hard Thin Films	New York room
15:20-15:40	Luis Alonso Enrique Morán	Co-doping of zinc oxide thin films with aluminum and terbium to engineer a conductive, transparent and luminescent multifunctional material	New York room
15:40-16:20		Coffee Break	London room
16:20-16:40	Erick Serquen	On the color emission of Tb ions embedded in indium tin oxide thin films	New York room
16:40-17:10	Prof. Wenfeng Ding	Superhigh-speed grinding and surface integrity of difficult-to-cut materials	New York room

17:20-18:20

IFGW visit

22th

Chairperson: Prof. Fernando Alvarez

Time	Presenter	Program	Place
08:30-09:20	Zhiguang Guo	Biomimetic materials of Tribology and their applications	New York room
09:20-09:50	Luiz Fernando Zagonel	Using an off-axis parabolic mirror to inject and collect light inside an STM in UHV	New York room
09:50-10:30		Coffee Break	London room
10:30-10:50	Xia Ji	Evaporation effects on thermal and fluid behaviors of melt pool in laser powder bed fusion	New York room
10:50-11:10	Maria Claudia Marchi	Upconversion thin films based on photonic structures for sunlight capture	New York room
11:10-11:30	Leonardo Mathias Leidens	High-Entropy Nitride Coatings Deposited by Magnetron Sputtering as Sensing Units in Enhanced Impedimetric E-Tongues	New York room
11:30-14:00		Lunch	

Chairperson: Prof. Luiz Fernando Zagonel

Time	Presenter	Program	Place
14:00-14:30	Harry Westfahl Junior	Sirius: Transforming Research with Fourth-Generation Synchrotron Light	New York room
14:30-15:30		Coffee Break	London room
15:30-17:30		Sirius/CNPEM visit	

23th

Chairperson: Prof. Carlos Alejandro Figueroa

Time	Presenter	Program	Place
08:30-09:20	Daniel Mario Ugarte	New paradigms for the quantitative structural and chemical characterization of nanomaterials by advanced TEM methods	New York room
09:20-09:50	Jyh-Wei Lee	The development of transition metal nitride thin films: effects of compositions, microstructure, and PVD processing parameters	New York room
09:50-10:10	Kevin lizarraga olivares	Optical Charcterization of Excitonic Absorption in Metal Tri-Halide Pervoskites using Dispersion Models, a Hydrogen-Polaron Model and First Principles.	New York room
10:10-10:30		Coffee Break	Mezzanine
10:10-10:30 10:30-10:50	Shreelekha Mishra	Coffee Break Revisiting the Optoelectronic Characterization and Bandgap Narrowing of Sputtered Aluminum-Doped Zinc Oxide Thin Films	Mezzanine New York room
	Shreelekha Mishra Carla Daniela Boeira	Revisiting the Optoelectronic Characterization and Bandgap Narrowing of Sputtered	
10:30-10:50		Revisiting the Optoelectronic Characterization and Bandgap Narrowing of Sputtered Aluminum-Doped Zinc Oxide Thin Films Microfluidic E-Tongue Using Metallic Nitride	New York room