Monday, September 8			
18:00 - 20:00	**Registration**		
18:00 - 20:00	**Welcome Reception**		

Tuesday, September 9			
08:00 - 12:00	**Registration**		
09:00 - 09:15	**TXRF 2025 Opening Session**		
Session: TXRF History/Biomedical applications **Chair: Maria Luisa Carvalho**			
09:15 - 10:00	I-1	J. Chwiej	FROM BULK TO SPATIAL INSIGHT: TXRF AND MICRO-XRF IN BIOMEDICAL INVESTIGATIONS
10:00 - 10:25	O-1	R. Fernández-Ruiz	A BRIEF HISTORY OF TXRF TECHNOLOGICAL EVOLUTION
10:25 - 10:45	O-2	I. Stabrawa	ANALYSIS OF ELEMENT CONCENTRATIONS IN THE BLOOD SERUM OF PATIENTS WITH RHEUMATOID ARTHRITIS (RA)
10:45 - 11:15	**Coffee break**		
Session: TXRF History/Biomedical applications **Chair: Maria Luisa Carvalho**			
11:15 - 11:45	O-3	Ch. Streli	TWENTY EDITIONS OF THE TXRF 2025 CONFERENCE
11:45 - 12:10	O-4	A. Wilk	TXRF AND ICP-OES ANALYSIS OF MAGNETITE AND MAGHEMITE NANOPARTICLE BEHAVIOUR *IN VIVO*
12:10 - 12:35	O-5	J. Jablan	EVALUATION OF BLOOD COLLECTION TUBE MATERIAL IMPACT ON TRACE ELEMENT QUANTIFICATION IN SERUM USING TXRF
12:35 - 13:00	O-6	M. Piotrowska	STUDY OF ELEMENT CONCENTRATONS IN BLOOD SERUM OF PATIENTS RECEIVING PARENTERAL NUTRITION USING TXRF
13:00 - 14:15	**Conference Photo/Lunch**		

Session: Biological and environmental applications Chair: Diane Eichert			
14:15 - 14:40	O-7	H. Stosnach	POTATO PETIOLE ANALYSIS BY MEANS OF TXRF IN CONTRAST TO ICP-OES ANALYSIS
14:40 - 15:05	O-8	N. Lal Mishra	ELEMENTAL DETERMINATIONS IN WATER SAMPLES OF MAHESHARA LAKE, GORAKHPUR, INDIA BY TOTAL REFLECTION X-RAY FLUORESCENCE
15:05 - 15:30	O-9	S. Hauser	GREEN ANALYTICAL STRATEGIES FOR TRACE ELEMENT QUANTIFICATION IN BIOLOGICAL SAMPLES USING TXRF AND NANOLITER DEPOSITION TECHNIQUES
15:30 - 16:00	**Coffee break**		
Session: Biological and environmental applications **Chair: Diane Eichert**			
16:00 - 16:30	O-10	T. Matsuyama	APPLICATION OF FREEZE CONCENTRATION TECHNIQUE FOR IMPROVING SENSITIVITY OF TXRF ANALYSIS
16:30 - 17:00	O-11	J. Osán	TXRF ANALYSIS FOR ELEMENTAL COMPOSITION AND METAL UPTAKE OF CLAYS FOR RADIOACTIVE WASTE REPOSITORY
17:15 - 18:45	**Poster session/Lab visit**		

Wednesday, September 10			
Session: Environmental and industrial applications **Chair: Peter Wobrauschek**			
09:00 - 09:45	I-2	E. Marguí	TXRF-BASED METHODS FOR THE ANALYSIS OF WASTE PRODUCTS FROM FOSSIL-FUELED POWER PLANTS
09:45 - 10:15	O-12	G. Siviero	ELEMENTAL ANALYSIS OF CRITICAL RAW MATERIALS IN LITHIUM-ION BATTERY BLACK MASS: A TXRF-BASED APPROACH

10:15 - 10:45	O-13	T. Schwank	TRACE ANALYSIS OF COPPER, ZINC, LEAD, MANGANESE, CHROMIUM, COBALT AND NICKEL IN WORKPLACE AIR USING SUSPENSION-ASSISTED TXRF
10:45 - 11:15	**Coffee break**		
Session: Particulate Matter Chair: Peter Wobrauschek			
11:15 - 12:00	I-3	L. Borgese	ELEMENTAL ANALYSIS OF PARTICULATE MATTER: PRELIMINARY RESULTS FROM THE PROJECT "SMART-AIR" - SUSTAINABLE METHODS IN AIR RESEARCH QUALITY
12:00 - 12:30	O-14	A. Gross	AN INNOVATIVE APPROACH MEASURING METAL CONCENTRATIONS IN AIRBORNE PARTICULATE MATTER
12:30 - 13:00	O-15	D. Eichert	X-RAY FLUORESCENCE-BASED STUDIES OF PARTICULATE MATTER ON FILTERS
13:00 - 14:15	**Lunch**		
14:15 - 20:00	**Excursion**		

Thursday, September 11			
Session: Techniques related to TXRF Chair: Giancarlo Pepponi			
09:00 - 09:45	I-4	K. Tsuji	X-RAY FLUORESCENCE ANALYTICAL TECHNIQUES RELATED TO X-RAY TOTAL REFLECTION
09:45 - 10:15	O-16	M. Radtke	FROM TOTAL REFLECTION TO GRAZING EXIT: BAMLINE'S 20+-YEAR JOURNEY IN X-RAY FLUORESCENCE INNOVATION
10:15 - 10:45	O-17	K. Siebers	NANOPLASTIC CHARACTERIZATION WITH T- AND GI-XRF AS PART OF A CORRELATED MICRO-SPECTROSCOPIC APPROACH

10:45 - 11:15	**Coffee break**		
Session: Techniques related to TXRF Chair: Giancarlo Pepponi			
11:15 - 11:45	O-18	M. Pichois	MOS_2 QUANTIFICATION OF OVERLAPPED ED-XRF SPECTRA USING SIMULATION AND COMBINED MEASUREMENTS
11:45 - 12:10	O-19	E. G. Hatam	MODELING COMPLEX X-RAY TRAJECTORIES: A 3-D SIMULATION FOR PATH LENGTH AND YIELD CORRECTION IN MICRO-PIXE ANALYSIS OF ROUGH SURFACES
12:10 - 12:35	O-20	G. Wesołowski	APPLICATION OF TOTAL REFLECTION X-RAY PHOTO-ELECTRON SPECTROSCOPY IN STUDIES OF METALLIC NANOLAYERS
12:35 - 13:00	O-21	I. Djouada	STRUCTURAL AND MORPHOLOGICAL ANALYSIS OF EVAPORATED Ni FILMS ON GaAs (001) AND Si (111)
13:00 - 14:15	**Lunch**		
Session: Experimental systems and procedures Chair: Dariusz Banaś			
14:15 - 15:00	I-5	D. Ingerle	GIMOXS: A VERSATILE GI/TXRF SPECTROMETER FOR CHARACTERIZATION OF NANOMATERIALS IN THE LAB FROM C TO U
15:00 - 15:30	O-22	E. Demenev	A MODULAR, LOW-COST MICROCONTROLLER-BASED READ-OUT SYSTEM FOR ENERGY DISPERSIVE X-RAY SPECTROSCOPY
15:30 - 16:00	**Coffee break**		
Session: Experimental systems and procedures Chair: Dariusz Banaś			
16:00 - 16:30	O-23	D. Eichert	18115-4: A NEW ISO PROPOSAL FOR A STANDARD FOCUSED ON TXRF TERMINOLOGY

16:30 - 17:00	O-24	M. Krämer	X-RAY OPTICS IN TXRF AND GIXRF PRIMARY RADIATION: HOW TO GET YOUR MOST EXCITING BEAM
17:00 - 17:30	O-25	F. Sand	FILM-LIKE RESIDUE PREPARATION BY PICOLITER PRINTING
17:30 - 19:30	**Break**		
20:00 - 22:30	**Conference Dinner**		

Friday, September 12			
Session: TXRF applications **Chair: János Osán**			
09:00 - 09:35	O-26	F. Mähler	X-RAY EMISSION SPECTROSCOPY - AN SUPPORTING TOOL FOR TXRF MEASUREMENTS?
09:35 - 10:10	O-27	U. Yanagisawa	EVAPORATIVE CONCENTRATION OF SOLUTION ONTO A HYDROPHILIC SPOT PRESERVED ON A FLUORINE-COATED GLASS SLIDE FOR HIGH-SENSITIVITY TXRF ANALYSIS
10:10 - 10:45	O-28	H. Yoshii	DETECTION OF U AND PU IN THE PRESENCE OF SR BY HYBRID MEASUREMENT OF TXRF AND SPONTANEOUSLY EMITTED CHARACTERISTIC X-RAYS
10:45 - 11:15	**Coffee break**		
Session: TXRF applications **Chair: János Osán**			
11:15 - 11:45	O-29	A. Shaltout	VALORIZATION THE IMPORTANCE OF THE RECYCLING OF DIFFERENT TYPES OF STEEL SLAGS BASED ON X-RAY SPECTROMETRY'S
11:45 - 12:15	O-30	A. Usman	CORRELATIVE SPECTROSCOPY AND QUANTIFICATION OF NMC ALLOYS USING XRF, SEM AND NANO GPS TECHNIQUE

12:15 - 12:45	O-31	R. Stachura	ANALYSIS OF ELEMENTAL COMPOSITION OF WOMEN'S AND MEN'S NAILS USING TOTAL REFLECTION X-RAY FLUORESCENCE (TXRF) METHOD
12:45 - 13:00	**TXRF 2025 CLOSING REMARKS**		
13:00 - 14:15	**Lunch**		

POSTERS

LIST OF POSTERS		
PS1	P. Roth	DETERMINATION OF MANGANESE OXIDATION STATE IN AN ARTIFICIAL SLAG USING XANES SPECTROSCOPY
PS2	E. Marguí	TXRF AS AN ANALYTICAL TOOL TO EXPLORE THE POTENTIAL OF SEWAGE SLUGE ASHES FOR METAL REMOVAL IN WATERS
PS3	E. Marguí	STUDY OF ZINC ADSORPTION IN REAL-TO-LIFE MICROPLASTICS BY MEANS OF TXRF ANALYSIS
PS4	J. Jablan	OPTIMIZING ELEMENTAL ANALYSIS OF *PIPER NIGRUM* BY TXRF
PS5	E. Kumar Santhosh	TEMPERATURE AND IKRUM DEPENDENCE IN TIMEPIX 3 USING KATHERINE READOUT & EVALUATION ON EFFICIENCY OF THE LINEAR COMPENSATION METHOD
PS6	K. Gałczyńska	MECHANISM UNDERLYING TRANSPORT OF AN ANTICANCER COPPER(II) COMPLEX INTO A549 LUNG CANCER CELLS AND ACROSS CELL MONOLAYERS
PS7	P. Moskwa	DETECTION OF SMALL AMOUNTS OF METAL IONS USING FLUORESCENT SENSORS AND THE TXRF METHOD
PS8	N. Almulhem	A HIGHLY EFFICIENT DOWNCONVERTER FROM Er^{3+}, Yb^{3+}, AND Ce^{3+} DOPED PHOSPHATE GLASS FOR NIR LASERS
PS9	Md. Akhlak Alam	DEVELOPMENT OF AN XRF MEASUREMENT CELL FOR ELEMENTAL QUANTIFICATION AND MAPPING OF NEXT-GENERATION BATTERY MATERIALS

PS10	I. Queralt	DETERMINATION OF POTENTIALLY TOXIC ELEMENT CONTENT IN WILD MUSHROOMS AND ITS POTENTIAL BIOACCESIBILITY TROUGH TOTAL REFLECTION X-RAY FLUORESCENCE
PS11	M. Wada	EVALUATION OF THIOL SELF-ASSEMBLED MONOLAYER ON GOLD NANOPARTICLES USING TOTAL REFLECTION X-RAY FLUORESCENCE ANALYSIS
PS12	P. Wobrauschek	CHARACTERIZATION OF THE ATI TXRF SPECTROMETER FOR THE DETECTION OF LOW Z ELEMENTS
PS13	K. Lakomy	THE ANALYSIS OF SPIONs METABOLISM AND TOXICITY BASED ON THE ELEMENTAL COMPOSITION OF BLOOD SERUM DETERMINED WITH THE TXRF METHOD
PS14	A. Tupys	PRODUCTION OF A MULTIFUNCTIONAL PLANT CRM WITH CERTIFIED CONTENT OF SELECTED ELEMENTS FOR USE IN SPECTRAL ANALYSIS
PS15	P. Jagodziński	DEVELOPMENT OF A SOFTWARE FOR SIMULATIONS OF X-RAY REFLECTIVITY CURVES
PS16	M. Krämer	AN INTERLABORATORY COMPARISON FOR XRF UNDER GRAZING INCIDENCE CONDITIONS (TXRF, GIXRF AND ANGLE-RESOLVED XRF)
PS17	K. Tsuji	TOTAL REFLECTION X-RAY FLUORESCENCE ANALYSIS OF BIOLOGICAL SAMPLES SLICED USING MICROTOME
PS18	J. Osán	TXRF ANALYSIS OF AIRBORNE PARTICULATE MATTER ORIGINATING FROM RESUSPENSION AND COMBUSTION
PS19	T. Matsuyama	APPLICATION OF BAYESIAN ESTIMATION FOR TXRF ANALYSIS
PS20	N. Wojtaś	POSSIBILITIES OF APPLICATION OF TXRF IN THE DIAGNOSIS OF THE ELEMENTAL COMPOSITION OF HUMAN BIOLOGICAL MATERIAL
PS21	V. Grebnevs	UNLOCKING PRECISION IN HYDROXYAPATITE ANALYSIS WITH TXRF: ADDRESSING CHALLENGES IN Ca/P QUANTIFICATION
PS22	S. Akbar	TXRF-BASED TRACE ANALYSIS IN DOPED CARBON QUANTUM DOTS
PS23	F. Bilo	FROM AIR TO ELEMENT: EXPLORING TXRF CHARACTERIZATION OF PARTICULATE MATTER COLLECTED VIA LIQUID-PHASE BIOSAMPLING