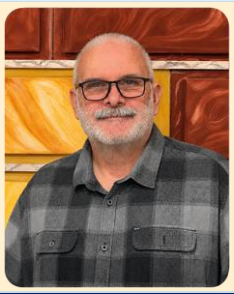


DAY 1 | 12 JANUARY 2027

Scientific Program Day 1 12 January 2027 — Scientific Program Day 2 13 January 2027 — Poster Session

08:00–17:00	**Registration** Collect Your Badge & Conference Materials		
08:00–09:10	MORNING REFRESHMENTS & NETWORKING | Connect With Colleagues Before the Sessions		
09:10–09:15	**Official Opening of ISRANALYTICA 2027** **Debby Bartfeld**, ISRANALYTICA 2027 Chairperson		
09:15–10:00	 **Plenary Session** **Laser-Induced Breakdown Spectroscopy: From an Emerging Technique to a Mature Analytical Tool — Achievements, Challenges and Future Perspectives** **Vincenzo Palleschi** *Institute of Chemistry of Organometallic Compounds* *Research area of CNR, Pisa (Italy)* Chair: Israel Schechter		
10:00–10:10	 EXCELLENCE AWARD *In Memory of Eli Grushka | Hall B*		
10:10–10:30	Coffee Break		
10:30–12:30	**HALL A** **Environmental & Agriculture** Chair: Iris Zohar	**HALL B** **SAF and Renewable Fuels Analytics** Chair: Moshe Rabaev	**HALL C** **Introduction to Analytical Chemistry** **Lab assistants, students & entry-level researchers, talks will be presented in Hebrew** Chair: Zvi Naim
10:30–10:50	**PFAS – Far Beyond Water: When Analytical Science Meets Complex Matrices** **Dekel Etzion** *Bactochem, Rehovot, Israel*	**Qualifying Sustainable Aviation Fuels: D4054, Producer Support and Analytical Needs** **Matthew Jee** *SAF Clearing House, Sheffield, UK*	**Introduction to Chromatography: How Do We Separate a Mixture of Substances?** **Igal Gozlan** *Haifa, Israel*
10:50–11:10	**Integrated Omics and Analytical Chemistry Reveal Compound- and Species-Specific Mitochondrial Responses to PFAS Toxicity** **Amir Sapir** *Oranim Collage of Education, Kiryat Tivon, Israel*	**From Molecules to Qualification: Characterization and Predictive Modeling of Sustainable Aviation Fuels** **Alon Grinberg** *Technion, Haifa, Israel*	**Introduction to Spectroscopy: Using Light for the Identification, Characterization, and Quantification of Chemical Compounds** **Igal Gozlan** *Haifa, Israel*
11:10–11:30	**Overcoming Marine Matrix Challenges: In-Situ Spme Application for Non-Lethal Extraction and Seasonal Profiling of Plastic Additives in Living Marine Organisms** **Shay Almagor** *Tel Aviv University, Tel Aviv, Israel*	**GCxGC in Routine Analysis and Fuel Research** **Maximilian Jennerwein** *ASG Analytik-Service AG, Neusaess, Germany*	**Introduction to ICP: Touch the Sun** **Ofer Zeiri** *NRCN, Omer, Israel*
11:30–11:50	**A Story of Three Kingdoms: the Interaction of Birds, Plants, and Bacteria and the Secondary Metabolites That Modulate It** **Yoram Gerchman** *Oranim Academic College, Kiryat Tivon, Israel*	**Aromatics and Simulated Distillation of Jet Fuel by the Newly Revised GCVUV ASTM D8267** **Dan Wispinski** *VUV Analytics, Cedar Park, USA*	**Introduction to Electrochemistry for Use in Analytical Methods** **Hadar Ben-Yoav** *Ben-Gurion University of the Negev, Beer Sheva, Israel*
11:50–12:10	**An Improved Analytical Method for Determining Trace Levels of Arsenic in Pure Phosphoric Acid** **Hasan Ganem** *Tenova Advanced Technologies Ltd., Israel*	**GCxGC Analysis of Fuel Samples - Use of VUV as a Detector** **Maximilian Jennerwein** *ASG Analytik-Service AG, Neusaess, Germany*	

12:10–12:30	**Pharmaceutical Transformation Products Formed by Ozonation – Does Degradation Occur?** **Dror Avisar** *Tel Aviv University, Tel Aviv, Israel*	**Future Fuels Demand Advanced Analytics: High-Resolution Profiling of Sustainable Aviation Fuels (SAF) Using Comprehensive Two-Dimensional Gas Chromatography** **Alex Porat** *Bazan Group, Haifa, Israel*	
12:30–13:30	**LUNCH BREAK & POSTER PRESENTATIONS**		
13:30–14:15	**HALL A** **Vendor Commercial Talk**	**HALL B** **Vendor Commercial Talk**	**HALL C** **Round Table: Lab Managers** Chair: Moshe Nulman & Maya Keinan
13:30–13:45	**Smart Chemical Fume Hoods: Reducing Energy Consumption and Operating Costs through VAV Systems and Automation** **Eran Edny** *Statitech, Ness Ziona, Israel*	**From Regulation to Reliable Results: a Holistic Approach to PFAS Analysis in Food and the Environment** **Claudia Rathmann** *Waters, Eschborn, Germany*	
13:45–14:00	**The AI-Ready Balance: How Cubis® III Brings Laboratory Weighing into the Age of AI Assistants** *Sartorius Israel*		
14:00–14:15	**Advanced Thermal Characterization of Anisotropic and Advanced Materials Using the Transient Plane Source (TPS) – Hot Disk Technique** **Moshe Smilovici** *Tetra Sense Scientific Tools, Caesarea, Israel*		
14:40–16:30	**HALL A** **MS & Spectrometry in Analytical Chemistry** Chair: Israel Schechter & Aviv Amirav	**HALL B** **Robotics & Laboratory Automation** Chair: Bianca Avramovitch	**HALL C** **Food Analytics: Safety, Quality & Authenticity** Chair: Igal Gozlan
14:40–15:00	**Cold EI – Bridging the Gap between GC-MS and LC-MS** **Aviv Amirav** *Tel Aviv University, Tel Aviv, Israel*	**Robotics and Laboratory Automation in the Age of Generative AI Integration** **Bianca Avramovitch** *Consultant, Mevasseret Zion, Israel*	**Quantification of Dissolved H2 in Hydrogen Water Samples** **Dror Avisar** *Tel Aviv University, Tel Aviv, Israel*
15:00–15:20	**Isotopic Analysis of MgO by Laser-Induced Plasma (LIP)** **Michael Gaft** *Ariel University, Ariel, Israel*	**Robots in the Lab: What Works, What Doesn't, and What Nobody Tells You** **Yishai Levin** *Weizmann Institute of Science, Rehovot, Israel*	**Beyond the Laboratory: Bringing Raman Spectroscopy to Everyday Beverage Analysis** **Aviv Kaplan** *WISP, Givat Haim Meuhad, Israel*
15:20–15:40	**Multiphoton Electron Extraction Spectroscopy (MEES) for Pharmaceutical Analysis: Fingerprinting of Drugs and Tablets and Detection of Pharmaceutically Relevant Impurities** **Danny Fisher** *Technion - Israel Institute of Technology, Haifa, Israel*	**From Manual Bottlenecks to Automated Confidence: Waters Lab Automation for the Modern Analytical Laboratory** **Nikolas Vamvoukas** *Waters, Geneva, Switzerland*	**Methodology Matters: When Models Drive Mineral Conclusions** **Sivan Isaschar** *ICL Group, Haifa, Israel*
15:40–16:00	**Online Sensor for Trace Polycyclic Aromatic Hydrocarbons in Air Based on Multiphoton Electron Extraction Spectroscopy (MEES)** **Tikhon Filippov** *Technion - Israel Institute of Technology, Haifa, Israel*	**Case Studies in Automated Solid State Search for API Development** **Maytal Piran**	**The Effect of Exposure to Ozone on Resistance of Vines to Downy Mildew Disease and on Their Metabolic Profile** **Meir Shlisel** *Tel-Hai University of Kiryat Shmona, Kiryat Shmona, Israel*
16:00–16:20	**A General Method for Selecting Fluorescence Scanning Trajectories for Quantifying Fluorescent Mixtures under a Fixed Measurement Budget** **Neta Caspin** *Technion - Israel Institute of Technology, Haifa, Israel*	**Automation of Laboratory Workflows: Approaches for Sample Preparation, Solutions, Experiences and Lessons Learned** **Björn-Thoralf Erxleben** *Shimadzu Europe GmbH, Duisburg, Germany*	**Development and Feasibility Assessment of Extraction Methods for Quercetinrecovery from Onion Peel** **Imeda Rubashvili** *Petre Melikishvili Institute of Physical and Organic Chemistry, Tbilisi, Georgia*
16:20–16:40	**Inter-Element Correction in ICP-OES: a Practical Qtegra Case Study of Fe Interference on Cd** **Vassili Rosen** *The Hebrew University of Jerusal, Rehovot, Israel*		

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