XIX Euroanalysis 2017

The XIX Euroanalysis 2017 was celebrated from the 28th August to 1st September in Stockholm (Sweden), one of the most technologically developed cities in the world which blends with the nature of an archipelago composed by more than 30,000 islands. Euroanalysis is an annual meeting that covers all aspects where analytical chemistry plays a role, including fundamental and applied sciences. This year the meeting was hosted by the Analytical Chemistry Division of the Swedish Chemical Society and chaired by Prof. Charlotta Turner and Prof. Jonas Bergquist.

The conference started on Monday afternoon with an opening ceremony where Prof. Klaus Unger (Johannes Gutenberg-Universität, Germany) gave an interesting talk about the history of separation science at the second half of the last century. The welcome finished with a reception in the Stockholm University Aula Magna.

On Tuesday morning, Prof. Luigi Mondello (University of Messina, Italy), who received the Robert Kellner Award 2017, gave the first plenary lecture regarding different approaches of multidimensional chromatographic separations coupled to mass spectrometry. A second plenary lecture was carried out by Prof. Marja-Liisa Riekkola (University of Helsinki, Finland) based on the analysis of atmospheric aerosol particles. Afterwards, the Swedish Mass Spectrometry Society awarded the Berzelius Gold and Silver Medal 2017 to Bo Sundqvist (Uppsala University, Sweden) and Prof. Jörg Hanrieder (Göteborg University, Sweden), respectively. After that, the first poster pitch session took place. It was composed by 10 pitches, followed by the poster session. The morning finished with the Editorial session constituted by lectures based on the following topics: (i) Microfluidic biomarker analysis systems, (ii) New polymer materials for miniaturised separations, and (iii) Biomolecular interaction analysis. The afternoon was dedicated to two cycles of four parallel sessions run in different halls about the following principal topics: (i) Separation science, (ii) Mass spectrometry I and II, (iii) Forestry, plants and food analysis, (iv) Capillary techniques, (v) Materials and polymers, and (vi) Education in analytical chemistry I and II.

Program schedule was similar on Wednesday. It started with two plenary lectures carried out by Prof. Stefan Hell (Max Planck Institute for Biophysical Chemistry, Germany) talking about Nanoscopy with focused light, and Prof. Mario Thevis (German Sport University, Germany) with a lecture based on analytical approaches for doping controls. Different talks focused on tip-enhanced raman spectroscopy (by Prof. Renato Zenobi; ETH Zürich, Switzerland), characterization of diesel soot (by Prof. Reinhard Niessner; Technical University of Munich, Germany), native mass spectrometry in structural biology (by Prof. Vicki Wysocki; Ohio State University Columbus, USA) and amperometric micro biosensors in scanning probe microscopy (by Prof. Christine Kranz; Ulm University, Germany) constituted the Editorial session of this day. Wednesday afternoon, started with four parallel sessions divided into two groups and including different topics such as electroanalysis, imagining, processes analytical chemistry, environmental analysis, NMR and forensic and toxicological analysis. These interesting lectures were given by different recognized professors and also by young emerging scientist.

Thursday 31th August began with two plenary lectures: the first one presented by Prof. Anja Boisen (Technical University of Denmark, Denmark) who talked about a miniaturization of method for simultaneous counting of white blood cells and detection of biomarkers in whole blood, and the second one was done by Prof. Lutgarde Buydens (Radboud University, Netherlands) about the new insights from data gathered by citizens due to the recent development of wearables and sensors. Afterward, a new session of poster pitches was carried out by young researchers followed by the third poster session. In the second part of the morning program, four parallel sessions run at the same time with the following topics: microfluidics, bioanalysis, and chemometrics. During the lunch, ACE offered an excellent seminar about how to develop a method step-by-step in HILIC. To continue, a total of eight parallel sessions divided in two groups were held during the afternoon with the topics of: (i) Supercritical fluids in separation science, (ii) Pharmaceutical and biopharmaceutical analysis, (iii) Sample preparation, (iv) Sensors and biosensors, (v) Vibrational spectroscopy, (vi) Arts and cultural heritage, (vii) Green analytical chemistry and (viii) Mixed session of different highlights.

The last day of the symposium, started with a plenary lecture offered by Prof. Peter Schoenmakers (University of Amsterdam, Netherlands) about the separation of very complex mixtures by Liquid Chromatography followed by another plenary lecture given by Prof. Francesco Ricci (University of Rome, Italy) who won the Heinrich Emanuel Merck Award for Analytical Chemistry 2017 and talked about DNA-based nanodevices for sensing applications. Then, the last plenary lecture was given by Prof. Lo Gorton (Lund University, Sweden), who won the AC EuCheMS Award 2017, about the analytical tools based on electrochemical communication between enzymes/cells and electrodes. Finally, the posters awards were given by the scientific committee and the symposium ended with a closing ceremony.

Euroanalysis 2017 welcomed a large number of scientists from different fields around the world. This congress was an excellent opportunity to create new collaborations between research groups, to stimulate interdisciplinary discussions and to learn new skills regarding analytical chemistry.

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