Report of activities – ESEAC 2026

The **20th International Conference on Electroanalysis – ESEAC 2026** took place in Lisbon, Portugal, from June 7 to 11, 2026. Nearly 300 researchers from all corners of the world gathered to present and discuss the latest advances in various topics of modern electroanalytical chemistry at an exciting edition, commemorating the 40th anniversary of the conference series.

ESEAC continued the regular biennial international meetings initiated in 1986 by Professor Malcolm R. Smyth. Previous conferences were held in Dublin, Ireland (1986); Turku, Finland (1988); Gijón, Spain (1990); Nordwijkerhout, The Netherlands (1992); Venice, Italy (1994); Durham, UK (1996); Coimbra, Portugal (1998); Bonn, Germany (2000); Kraków, Poland (2002); Galway, Ireland (2004); Bordeaux, France (2006); Prague, Czechia (2008); Gijón, Spain (2010); Portorož, Slovenia (2012); Malmö, Sweden (2014); Bath, UK (2016); Rhodes, Greece (2018); Vilnius, Lithuania (2022); and Ulm, Germany (2024).

ESEAC 2026, was a vibrant meeting where participants had the opportunity to discover the latest advances in all major areas of interest in electroanalysis, a research field that plays a key role in various disciplines, ranging from life sciences to materials science, from fundamental knowledge to applications. Highlighting the impressive evolution of this field over the past few decades, the conference covered a broad scope of research topics, including electroanalysis at the micro- and nano-scale, hybrid electrochemical tools, new materials for electrochemical devices, electrochemical sensors and biosensors, study of materials for energy conversion and storage, wearable devices, 3D-printed technologies, in vivo and microfluidic electroanalysis, clinical analysis and medical applications, photoelectrochemical systems, analysis of microbial electrochemical technologies, electroanalytical studies on electrocatalysis, electrochemical analysis in food, agriculture, and the environment, AI-driven electroanalytical investigations, and fundamental studies on electrochemical conversions.

The conference started with a welcome reception at the Medical School of the NOVA University of Lisbon on Sunday, June 7, while the scientific program took place at the Faculty of Sciences of the University of Lisbon between June 8 and 11. During the opening ceremony, held on June 8, attendees were welcomed by the Conference Chair, Felipe Conzuelo, and had the pleasure to enjoy an overview about the history of ESEAC presented by Ari Ivaska, organizer of the second meeting of the series in Finland 1988.

A total of **283 registered participants** from **42 different countries** joined the event, having the opportunity to listen to high-quality scientific presentations. The following four plenary lectures were presented: “Paper-Based Electrochemical (Bio)Sensors as Sustainable and Smart Devices” by **Fabiana Arduini** (University of Rome Tor Vergata, Italy), “Nanoparticles that Mimic the Three-Dimensional Architecture of Enzymes: The Role of Nanoconfinement in Enhancing Activity and Selectivity” by **Justin Gooding** (University of New South Wales, Australia), “Electroanalysis-Unplugged” by **Alexander Kuhn** (University of Bordeaux, France), and “Bridging From Art to Application – Electrocatalytic Insights From Pico- to Ampere Levels” by **Kristina Tschulik** (Ruhr-University Bochum, Germany). The following six keynote lectures were presented: “Long Journey Towards Wearable Bioelectronic Platforms” by **Joseph Wang** (University of California, San Diego, USA), “Real-Time Electrochemical Monitoring of Aptamer–Target Binding in Vitro and in Vivo” by **Leyla Soleymani** (McMaster University, Canada), “Development of Liquid

Triggered Batteries for Sustainable Low Power Electronics" by **Neus Sabaté** (Institute of Microelectronics of Barcelona, Spain), "Aptamer-Based Nanoscale Electrochemical Sensors for Neurochemical Detection in the Brain" by **Nako Nakatsuka** (EPFL - Federal Technology Institute of Lausanne, Switzerland), "Adaptive Electrochemistry: Paper and 3D Printing as Enablers of Next-Generation Analytical Devices" by **Alberto Escarpa** (University of Alcalá, Spain), and "Structural Analysis of Ribosomes with Solid-State Nanopores" by **Paolo Actis** (University of Leeds, UK). In addition, 12 invited lectures were delivered by **Simona Baluchová** (Charles University, Czech Republic), **Johan Bobacka** (Åbo Akademi University, Finland), **Taek Dong Chung** (Seoul National University, South Korea), **Hua Cui** (University of Science and Technology of China, China), **Pedro Estrela** (University of Bath, UK), **Rodrigo A. Muñoz** (Federal University of Uberlândia, Brazil), **María Isabel Pividori** (Autonomous University of Barcelona, Spain), **Mamas Prodromidis** (University of Ioannina, Greece), **Ulrich Rant** (Technical University Dresden, Germany), **Goreti Sales** (University of Coimbra, Portugal), **Suna Timur** (Ege University, Türkiye), and **Jay Wadhawan** (University of Hull, UK). The scientific program was completed with **96 oral presentations** and **165 posters**.

On the second half of Wednesday 10, the participants had the opportunity to enjoy some local attractions and engage in discussions in a distended atmosphere. First, a group excursion was organized to the neighboring town of Sintra. Described by Lord Byron as a "glorious Eden" and enchanted by its "maze of mount and glen", he considered it the most beautiful place in Europe. Sintra has been on the UNESCO World Heritage List since 1995 and was definitely worth a visit. Later on, the participants also enjoyed the conference gala dinner at Palácio Conde d'Óbidos in Lisbon.

The scientific program finalized on June 11. During the closing ceremony, the winners of **seven poster prizes** were announced: Daan Vangerven (University of Antwerp, Belgium), Karolina Kwaczyński (University of Lodz, Poland), and Katherine Bettencourt (University of Lisbon, Portugal) with prizes sponsored by *The Analyst* (Royal Society of Chemistry); Mia Ambuski (Colorado State University, USA) and Rafaela C. de Freitas (UFSCar, Brazil), with prizes sponsored by *Analytical and Bioanalytical Chemistry* (Springer), and Krittamate Buppasirakul (VISTEC, Thailand) and Lilian Collins (University of Strathclyde, UK) with prizes sponsored by ACS Publications. A **Special Issue** collecting contributions derived from the conference is open for submissions in the journal *Electroanalysis* (Wiley-VCH), continuing the tradition of the conference series. The next edition, **ESEAC 2028**, will be chaired by Stefano Cinti, taking place in Naples, Italy.

Felipe Conzuelo

Conference Chair – ESEAC 2026