

Report on the International Conference on Flow Injection Analysis and Related Techniques (20th ICFIA), Spain

Kanchana Uraisin

Flow Innovation Research for Science and Technology Laboratories (Firstlabs),
Department of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science,
Mahidol University, Rama 6 Road, Bangkok, 10400, Thailand.

*e-mail: kanchana.ura@mahidol.ac.th

The 20th ICFIA was held during 2nd to 7th, October 2016 at Palma de Mallorca, Spain. The conference was organized by the Association of Environmental Sciences and Techniques (AEST), the University of the Balearic Islands (UIB), by Prof. Víctor Cerdà as the Chairman of the 20th ICFIA, and the Japanese Association for Flow Injection Analysis (JAFIA).

The conference program covered all areas of flow-based technique and related disciplines. There were 145 participants from 19 countries. The scientific program comprised opening lecture and closing lecture, 3 keynote lectures, the contributed talks by outstanding scientists (9 invited lectures and 38 oral presentations) and 21 short oral communications by young scientists from many countries. The program also included 91 poster presentations.



The registration and welcome reception were held on the first date (Sunday, 2nd October) at Hotel Barceló Pueblo Park. Welcome cocktail with refreshments and snacks was served. During the welcome party, we have the great opportunity to meet and converse with all participants from many countries.

The scientific program started on Monday, 3rd October with opening remark from Llorenç Huguet Rector of the

University of the Balearic Islands, and welcome messages from Prof. Víctor Cerdà and Prof. Gary Christian. After that, the opening lecture was delivered by *Prof. Gary Christian* (University of Washington, USA) with the title of ‘Can concentrated salts help FIA?’.

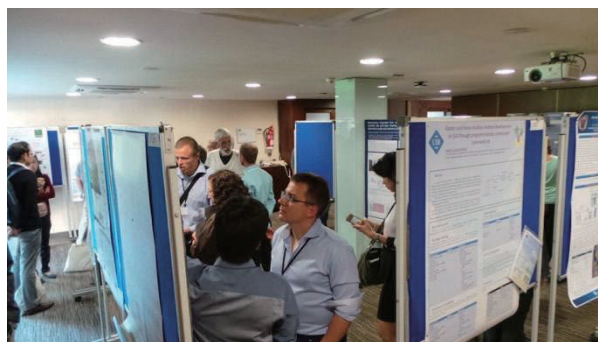
Three keynote lectures by *Prof. Petr Solich* (Charles University in Prague, Czech Republic) entitled ‘Flow techniques as a research tool in pharmaceutical area’, *Prof. Toshihiko Imato* (Kyushu University, Japan) entitled ‘Electrogenerated chemiluminescence-based analysis on compact disk-type microchip’ and *Prof. Duangjai Nacapricha* (Mahidol University, Thailand) entitled ‘Evolution of membraneless gas-liquid separation: from tubular-based flow systems to microfluidic paper-based analytical devices’ were given on Tuesday, Thursday and Friday, respectively.

On the last date of the conference, the closing lecture was given by *Prof. António O.S.S. Rangel* (Universidade Católica Portuguesa, Portugal). His talk was a reviewed on the strengths and limitations of flow-based approaches for food and environmental monitoring.



Wednesday was a whole day for an excursion. We visited the fantastic villages

named 'Valldemossa', 'Deia' and 'Sóller. Valldemossa all located in the Serra de Tramuntana mountains 20 km north of Palma City. Valldemossa is known as the place where the Polish composer Frédéric Chopin, spent in the winter of 1838-9. In Sóller harbor we had a delightful lunch of traditional Spanish food called 'Paella' with great wine.



Poster Awards:

Poster presentations were arranged in three sessions on Monday, Tuesday and Thursday. The poster presentation awards were given to

- *Héctor Vigil, Edgar Ruiz, Laura Hinojosa, Minerva Villanueva, Aracely Hernández, Jorge Guzmán*, entitled 'On-line monitoring of Photo Electro-Fenton Process for asulam degradation'.



The conference gala dinner took place on Thursday evening at the Restaurante Bahia Mediterraneo in the Paseo Marítimo (Palma de Mallorca Seaside Promenade). It is a wonderful restaurant with a great view over Palma bay and a nice view of Cathedral of Santa Maria of Palma.

During the dinner, there were announcements of the next 21st ICFIA which will be held in Saint Petersburg (Russia) on 2017 and the 14th Flow Analysis which will be held in Bangkok (Thailand) on 2018.

- *Elodie Mattio, Fabien Robert-Peillard, Bruno Coulomb, Jean-Luc Boudenne, Catherine Branger, Kinga Puzio, André Margaillan, Christophe Brach-Papa, Joël Knoery*, entitled '3D printed system for the spectrophotometric determination of lead in water'.

- *Aleksei Pochivalov, Irina Timofeeva, Christina Vakh, Andrey Bulatov*, entitled 'A membrane microextraction based on switchable-hydrophilicity solvent. Automated determination of fluoroquino-

lones in food samples’.

Short Oral Communication Awards:

The 21 short oral communications were presented on the evening of Monday, Tuesday, and Thursday. The awards were given to

- *Ana M.O. Azevedo*, entitled ‘Automated acylase I assay for ionic liquids’ toxicity screening’.
- *Nattapong Chantipmanee*, entitled ‘Effect of surface area of acceptor on analytical sensitivity in zone-fluidic membraneless vaporization’.
- *Sam-ang Supharoek*, entitled ‘Determination of benzoyl peroxide by a sequential injection analysis using natural reagent from pumpkin (*Curcubita moschata*)’.

The JAFIA Awards:

The Japanese Association for Flow Injection Analysis presented, by Prof. Toshihiko Imato (The president of JAFIA) presented the JAFIA awards, 2016.

The FIA Award for Science was given to Prof. Marcela Alves Segundo, (University of Porto, Portugal) for ‘Development of Flow-Based Systems for Automatic Sample Treatment and Antioxidant Assessment’

The FIA Awards for Young Investigators were given to:

- Asst. Prof. Nathawut Choengchan (King Mongkut’s Institute of Technology Ladkrabang (KMUTL), Thailand) for ‘Cross injection analysis: versatile liquid handling in flow injection-based technique’.
- Asst. Prof. Kanchana Uraisin (Mahidol University, Thailand) for. ‘Newly designed flow-based chemical analysis method for determination of trace halogen compounds’.
- Dr. Raquel Beatriz Ribeiro de Mesquita, (Universidade Católica Portuguesa, Portugal) for ‘Development of flow analysis methods as sustainable alternatives to study dynamic environmental systems’.

The FIA Award for Technical Development was given to:

- Dr. Lukman Hakim (Brawijaya University, Indonesia), Prof. Shoji Motomizu (Okayama University, Japan), Dr. Keiro Higuchi (Ogawa & Co. LTD., Japan), Prof. Tadao Sakai (Aichi Institute of Technology, Japan) and Prof. Norio Teshima (Aichi Institute of Technology, Japan) for ‘Computer-Controlled High-Performance Solution Handling Systems and Their Practical Applications’.
- Sciware Systems (Spain), President; Prof. Víctor Cerdà, Dr. Laura Ferrer, Dr. Edwin Palacio, Dr. Sabrina Clavijo, Ms. Melisa Rodas, and Ms. Alba González for ‘Development of Multi-Syringe Technology for Flow Analysis’.



Finally, I would like to congratulate on the successful on the organizing of the 20th ICFIA. I also would like to take this opportunity to express my sincerely thanks to the Chairman of the conference, Prof. Víctor Cerdà, and local organizing committees from University of the Balearic Islands for the great organization with your warm hospitality.



Kanchana Uraisin