



# Society for Pharmaceutical Dissolution Science

*Announces*

One day online seminar on

## HYDRODYNAMICS IN DISSOLUTION TESTING



Wednesday  
23rd Nov. 2022



11:30 am to  
06:00 pm IST

## SCIENTIFIC PROGRAMME AND SPEAKERS



### Dr. Deirdre D'Arcy

Associate Professor,  
Trinity College,  
Dublin, Ireland

Dr. Deirdre D'Arcy qualified as a pharmacist in 1999. After initial training in clinical pharmacy, she commenced research in pharmaceutical technology, in the area of hydrodynamic simulations and dissolution testing. She is currently Associate Professor in Pharmaceutics and Pharmaceutical Technology in the School of Pharmacy and Pharmaceutical Sciences, Trinity College Dublin (TCD), Ireland. Her research interests relate to hydrodynamics in dissolution testing, clinically relevant dissolution testing and clinical pharmacokinetics.

Her current research focuses on computational simulation and imaging of particulate dissolution to capture the effects of dissolution test set-up on particulate behaviour, including particle motion and viscosity effects. She has co-authored more than 65 peer-reviewed presentations and publications, has been involved in several clinical trials and is currently supported by SSPC, The Science Foundation Ireland Research Centre for Pharmaceuticals and TCD Provost's PhD awards.

#### Topics that will be covered during the session

- An introduction to characterising hydrodynamics
- A general overview of hydrodynamics in USP apparatuses 1, 2 and 4, and hydrodynamic considerations specific to pharmacopoeial dissolution apparatuses
- Representation of hydrodynamics in dissolution modelling and simulation
- Hydrodynamic properties and particle motion behaviour (focus on USP 4 flow-through apparatus)



### Samir Haddouchi

Managing Director,  
SOTAX Pharma Services,  
Orleans, France

Samir is a professional with more than 2 decades of experience in Pharmaceutical Industry.

As a chemist, he started working on the analytical development of agrochemical compounds at Sandoz Agro in the region of Basel (Switzerland).

During the Novartis merger, he moved to Orléans (France) in 1998 to join the analytical group in the technical development department where he became responsible for dissolution. In 2005, he resigned from Novartis to create SPS Pharma Services in Clermont Ferrand which is the first and only CRO specialized in Dissolution and Release Testing.

Since then, Samir manages SPS facility and is in charge of projects management. Now SPS Pharma Services is a part of the SOTAX Pharma Services

Samir is regularly invited as speaker in international conferences as well as expert for various organizations (scientific societies and Health Authorities). His fields of interest and expertise include analytical development (LC), in vitro dissolution and release testing (all techniques from USP1 to USP7), in vitro-in vivo correlations (IVIVC), formulation development, laboratory automation

#### Topics that will be covered during the session :

- Vessel design considerations affecting hydrodynamics
- Importance of instrument calibration in ensuring optimal hydrodynamics
- Spatial variations within dissolution vessel and implications on drug product performance

## REGISTRATION FEES

**INR 2000 + GST (Individual)**

**INR 10,000 + GST (Corporate Plan - for 10 delegates)**

#### • PAYMENT DETAILS •

1) Individual registrations and payments can be directly done through payment gateway link on <https://spds.in/events/>

2) To pay by Bank transfer, please send payments to :

* Beneficiary Name	: Society for Pharmaceutical Dissolution Science	* Account Number	: 010 220 110000628
		* IFSC Code	: BKID0000102
* Bank Name	: Bank of India	* Branch	: IGIDR Branch, Goregaon (E), Mumbai.

For registrations, please write to [contact@spds.in](mailto:contact@spds.in)/[bhakti.saraf@spds.in](mailto:bhakti.saraf@spds.in)

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