

## Confirmed Speakers

### Lectures confirmed to date

#### Quality by Design in API Purifications. Making the Right Things



Dr Alessandro BUTTE  
(ETH ZURICH, Zurich, Switzerland)

#### Molecular Modeling of the Affinity Chromatography of Proteins: Status and Perspectives



Prof. Carlo CAVALLOTTI  
(POLITECNICO DI MILANO, Milano, Italy)

#### Molecular Engineering of Multiple Weak Interactions for High Selectivity Bioseparations



Prof. Steven CRAMER M  
(RENSELAER POLYTECHNIC INSTITUTE, Troy, United States)

#### Implementation of a Continuous Chromatography Step in The Synthesis of an API – Combining Chemistry and Chromatography to Achieve Better Economics

Dr Olivier DAPREMONT  
(SK PHARMTECO, Rancho Cordova, United States)

#### New Approaches to Food Fractionation by Chromatography: Adapting High-Cost Techniques to the Production of Moderate-Value Products



Prof. Conan FEE  
(UNIVERSITY OF CANTERBURY, Christchurch, New Zealand)

#### Biological Production of Peptides



Prof. Susanna LEONG  
(NANYANG TECHNOLOGICAL UNIVERSITY, Singapore, Singapore)

### Oral Communications

#### Purification of Proteins from Human Blood Plasma by Multicolumn Solvent Gradient Purification

Mr Daniel BAUR  
(ETH ZÜRICH, Zurich, Switzerland)

#### Distributed Pore Surface Model

Ing Niklas BORG  
(LUND UNIVERSITY, Lund, Sweden)

#### Towards Optimally Sized Centrifugal Partition Chromatography Columns - Process Design Methodology and Applications

Mr Sebastien CHOLLET  
(GEPEA LABORATORY, Saint-Nazaire, France)

#### A Model Based Approach to Reducing the Analytical Burden of High Throughput Screening

Dr Marcus DEGERMAN  
(LUND UNIVERSITY, Lund, Sweden)

## Confirmed Speakers

### Liquid-Liquid Extraction of Biomolecules - Process Development and Integration into Downstream Processing

Mr Jan Kristof EGGERSGLUESS  
(CLAUSTHAL UNIVERSITY OF TECHNOLOGY, Clausthal, Germany)

### Characterization of Adsorption in SFC: an Evaluation of Methods Used in LC



Prof. Torgny FORNSTEDT  
(KARLSTAD UNIVERSITY, Karlstad, Sweden)

### New Trend in Material Development for Peptide Purification

Dr Nicola FORRER  
(ZEOCHEM, Uetikon am See, Switzerland)

### Preparative Chiral Chromatography: What Can Go Wrong and How to Solve it

Dr Pilar FRANCO  
(CHIRAL TECHNOLOGIES, INC, Illkirch, France)

### From Racemate to Single Enantiomer with 100% Yield by Process Integration of SMB and Enzymatic Racemization

Mr Markus FUEREDER  
(ETH ZURICH, Basel, Switzerland)

### Modeling Protein Adsorption Equilibria on Ion-Exchange Resins

Dr Bertrand GUELAT  
(NOVARTIS PHARMA AG, Basel, Switzerland)

### Quality by Design with Rigorous Process Modeling as Platform Technology of the Future

Mr Christoph HELLING  
(CLAUSTHAL UNIVERSITY OF TECHNOLOGY, Clausthal-Zellerfeld, Germany)

### Experimental Study on a Binary Chromatographic System Subject to a Mixed Competitive-Cooperative Adsorption Isotherm

Mr Simon JERMANN  
(ETH ZÜRICH, Zurich, Switzerland)

### Separation of Bionanoparticles and Biological Superstructures



Prof. Alois JUNGBAUER  
(UNIVERSITY OF NATURAL RESOURCES AND APPLIED LIFE SCIENCES, Vienna, Austria)

### Integrated Chromatographic Processes for the Production of Pure Enantiomers



Prof. Malte KASPEREIT  
(FRIEDRICH-ALEXANDER UNIVERSITY ERLANGEN-NÜRNBERG, Erlangen, Germany)

### Model Mismatch Resolution and Optimization for Simulated Moving Bed and Continuous Chromatographic Processes



Prof. Yoshiaki KAWAJIRI  
(GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, United States)

## Confirmed Speakers

### **A Non-Conventional Application of Simulated Moving Bed Technology: Purification of a Complex Mixture**

Ms Kiara KOCHENDOERFER  
(UNIVERSITY ERLANGEN-NUREMBERG, Ludwigshafen, Germany)

### **Model Based Design and Integration of Crystallization Processes of Natural Products in Down Stream Processing**

Mr Iraj KOUDOUS  
(INSITUT FÜR THERMISCHE VERFAHRENS- UND PROZESSTECHNIK, Clausthal-Zellerfeld, Germany)

### **Continuous Synthesis and Purification Through Direct Combination of a Flow Reactor and Simulated Moving Bed Chromatography**



Dr Ju Weon LEE  
(MAX-PLANCK-INSTITUTE FOR DYNAMICS OF COMPLEX TECHINICAL SYSTEMS, Magdeburg, Germany)

### **Nanofiltration of Peptides in Acetonitrile/Water Mixtures: Process Development**

Ms Patrizia MARCHETTI  
(LONZA, Visp, Switzerland)

### **Continuous Purification of Single-Chain Antibody Fragments by Simulated Moving Bed Chromatography**

Mr Carlos Andres MARTINEZ CRISTANCHO  
(MAX-PLANCK-INSTITUT MAGDEBURG, Magdeburg, Germany)

### **Design Of Tailor-Made Stationary And Mobile Phase In Liquid-Liquid Chromatography**



Prof. Mirjana MINCEVA  
(UNIVERSITÄT ERLANGEN, Freising, Germany)

### **Relay SMB: A Simple and Efficient Way of Implementing Simulated Moving-Bed Chromatography**



Prof. José Paulo MOTA  
(REQUIMTE/CQFB, FFCT, Caparica, Portugal)

### **Enabling High Purities and Yields in Therapeutic Peptide Purification by Using Continuous Chromatography (MCSGP)**

Dr Thomas MÜLLER-SPÄTH  
(CHROMACON AG, Zurich, Switzerland)

### **Efficient API Purification or How Combining OSN and Chromatography Increases Your Process Yields!**

Dr Muriel NASSO  
(EVONIK, Wembley, United Kingdom)

### **Modeling of Protein Aggregation in Preparative Chromatography**



Prof. Bernt NILSSON  
(LUND UNIVERSITY, Lund, Sweden)

### **Peptidomimetic Affinity Ligands (PALs) - A Powerful Approach to Improving DSP Performance**

Dr Matthias PASCHKE  
(3B PHARMACEUTICALS GMBH, Berlin, Germany)

## Confirmed Speakers

### Shifting the Scale-up Limits of Disposable Downstream Processing

Mr. Marcel RAEDTS  
(PROXCYS BV, Nieuw Amsterdam, The Netherlands)

### Optimization of Simulated Moving Bed Processes for Multicomponent Chiral Separations



Dr António E. RIBEIRO  
(POLYTECHNIC INSTITUTE OF BRAGANÇA, Braganca, Portugal)

### Supercritical Fluids as the Desorbent for Simulated Moving Bed? Application to the Concentration of Triterpenoids from *Taiwanofugus Camphorate*

Ms Liang RU CHIEN  
(I SHOU UNIVERSITY, Kaohsiung City, Taiwan)

### Chromatographic Process Options for Reduced Purities



Prof. Tuomo SAINIO  
(LAPPEENRANTA UNIVERSITY OF TECHNOLOGY, Lappeenranta, Finland)

### Study of Hydrodynamics in Chromatographic Columns by Computed X-Ray Tomography and its Evaluation by CFD Simulations

Ms Irma SCHMIDT  
(UNIVERSITY ERLANGEN-NUREMBERG, Erlangen, Germany)

### Scalable Technology for the Extraction of Pharmaceuticals (STEP): Progress on Developing Versatile Small Footprint Technology for Continuous Processing at the Lab Scale up to 1 Kg/Day

Prof. Ian SUTHERLAND  
(BRUNEL INSTITUTE FOR BIOENGINEERING, Uxbridge, United Kingdom)



Dr Svetlana IGNATOVA  
(BRUNEL UNIVERSITY, Uxbridge, United Kingdom)

### A Reaction-Separation Integrated Process for the High-Yield Synthesis of Rare Sugars

Ms Nina WAGNER  
(ETH ZURICH D-BSSE, Basel, Switzerland)

### Integration of Hydrophobic Interaction- and Ion Exchange Chromatography

Mr Tim WELLSANDT  
(INSTITUT FÜR THERMISCHE VERFAHRENS- UND PROZESSTECHNIK, Clausthal-Zellerfeld, Germany)

### A New Disposable Technology for Chromatographic Purification of Biopharmaceuticals

Dr David YAVORSKY  
(MERCK-MILLIPORE, Bedford, United States)

## Workshops

### From Development to Commercial Scale: Rules to Scale up, QbD, Regulatory, Process Validation



Dr Alessandro BUTTE  
(ETH ZURICH, Zurich, Switzerland)

## Confirmed Speakers

### Process Design for Purification of Biomolecules



Prof. Alois JUNGBAUER  
(UNIVERSITY OF NATURAL RESOURCES AND APPLIED LIFE SCIENCES, Vienna, Austria)

### Multicolumn Processes: from Historical SMB to the Latest Advances in the Purification of Biomolecules



Prof. Arvind RAJENDRAN  
(UNIVERSITY OF ALBERTA, Edmonton, AB, Canada)

### Preparative HPLC : Phase Screening, Method Optimization, Process Development. Troubleshooting a Preparative Chromatographic Device

Dr Michael SCHULTE  
(MERCK, Darmstadt, Germany)

### Process Design for Purification of Small Molecules

Prof. Jochen STRUBE  
(CLAUSTHAL UNIVERSITY OF TECHNOLOGY, Clausthal-Zellerfeld, Germany)

### Solving a Purification Process: Choice of the Appropriate Process (Batch vs Continuous, Low Pressure vs High Pressure, Liquid vs SFC, Centrifugal Partition Chromatography vs Countercurrent Chromatography)

Dr Eric VALERY  
(NOVASEP CDMO, AN AXPLORA COMPANY, Pompey, France)