

Training Objectives

The training objective of the CORE network is to deliver a CORE skills toolbox of knowledge, personal, organizational and impact skills to 15 early stage scientists and engineers in the interdisciplinary and cross-sectional field of Continuous Resolution. Each ESR obtains dedicated training through their research project, network events, a webinar course, management involvement and an academic & industrial secondment.

CORE Introduction week, 30 January - 3 February 2017, University of Strathclyde, Scotland

Summerschool Crystallization, 3 - 7 July 2017, Radboud University Nijmegen, Netherlands

Workshop Solid State Properties, 6 - 10 November 2017, TeraCrystal, Romania

Summerschool Process Analytical Tools, May 2018, University of Manchester

Workshop Resolution Fundamentals and Conference Chirality & Resolution, August 2018, University of Rouen, France

Summerschool Continuous Resolution, April 2019, Otto-von-Guericke University Magdeburg, Germany

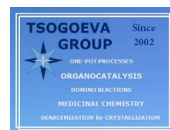
Workshop Chiral Synthesis, August 2019, SYNCOM, Netherlands

Conference Chirality & Resolution, September 2020, University of Strathclyde, Scotland

Each of the summer schools will be open events and an opportunity for participants outside of the network to get involved. Please follow us on twitter, like our Facebook and LinkedIn pages and sign up to the mailing list to stay informed https://www.coreitn.eu/mailling_list.php



Radboud University



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Marie Skłodowska-Curie Innovative Training Network

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Project Number: 722456 CORE



Introduction

The objective of the CORE Training Network is to deliver a toolbox of knowledge, personal, organizational and impact skills to a core of multi-disciplinary scientists and engineers at the interface of Chemistry, Materials Science and Process Engineering with international and inter-sectorial experience who will contribute to the development of the European knowledge economy. In a multidisciplinary environment the ESRs will acquire their knowledge and transferable skills through an extensive intersectoral exposure to various academic groups, various types of SME and industrial manufacturers.

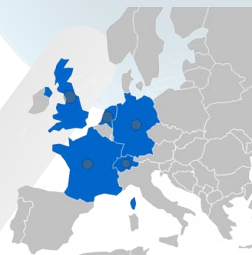
CORE is a four year Marie Skłodowska-Curie Innovative Training Network (ITN) on **Continuous Resolution and Deracemization of Chiral Compounds by Crystallization** which started on the 1 October 2016. The ITN, co-ordinated by the University of Strathclyde-Glasgow, has successfully obtained 4m Euros.

The CORE network employs 15 Early Stage Researcher (ESRs) on a challenging research-training programme, which is to be completed with a PhD thesis. The CORE network provides excellent infrastructure, is well equipped with state-of-the-art technologies, and has substantial knowledge and experience from eminent senior academics in the field. In addition to hands-on training in multidisciplinary and intersectoral research, ESRs are provided with extensive transferable skills training through network-wide training events. A key component of the training is that ESRs will undertake secondments with Academic and Industrial Partners.

Duration: October 2016 - September 2020

Consortium Partners

CORE brings together 8 academic and 7 industrial partners from 6 European countries resulting in an unparalleled combination of **chirality, synthesis and crystallization training and research** covering the areas of Chemical Engineering, Chemistry and Applied Physics.



University of Strathclyde, Glasgow, UK - **Professor Joop ter Horst** (Project Coordinator)

Otto-von-Guericke University Magdeburg, Germany - **Professor Andreas Seidel-Morgenstern**

University of Rouen, France - **Professor Gerard Coquerel**

Radboud University Nijmegen, Netherlands - **Professor Elias Vlieg**

ETH Zurich (Swiss Federal Institute of Technology in Zurich), Switzerland - **Professor Marco Mazzotti**

University of Manchester, UK - **Dr Thomas Vetter**

Friedrich - Alexander University Erlangen - Nürnberg, Germany - **Professor Svetlana B. Tsogoeva**

SYNCOM, Netherlands - **Professor Richard Kellogg**

Associate Partners

Max Planck Institute for Dynamics of Complex Technical Systems - **Professor Heike Lorenz**

TeraCrystal - **Dr Mihaela Pop**

Process Systems Enterprise - **Dr Sean Bermingham**

ChemConnection - **Dr Gerjan Kemperman**

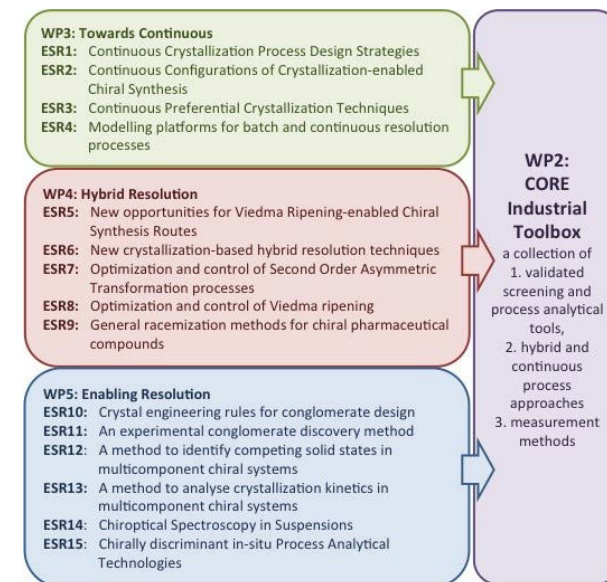
Merck KGaA - **Dr Claus-Peter Niesert**

Corbion Purac, Purac Biochem BV Process Technology - **Dr Alex Kalbasenka**

PCAS Research & Development - **Dr Gérard Guillaumot**

Work Packages

The research objective of the CORE Network is to jointly construct a CORE Industrial Toolbox that provides next generation tools, approaches and methods to industry for the development continuous resolution processes. The strongly involved industrial partners will ensure that the CORE Industrial Toolbox fulfils their requirements in the skills gap areas Towards Continuous, Hybrid Resolution and Enabling Resolution.



Chirality

The two mirror symmetrical molecules of Thalidomide, R-enantiomer (red, left) and S-enantiomer (blue, right).