

**Sunday April 21**

16:00 Doors open and registration

17:00 Welcome by *Prof. Richard Darton, president of EFCE*  
 Award ceremony of the Dieter Behrens Award  
 Presentation 'Sustainability by Triple Helix partners'  
 Speech 'Sustainability for future generations' by *Laurentien van Oranje, founder of the Missing Chapter Foundation*  
 Official opening of the congress by *EFCE and ESBES*

18:30 Drinks & soup buffet

20:00 End of day 1

**Monday April 22**

08:30 **Plenary Opening & Lecture**  
 Welcome by *Prof. Jan Harmsen, co-chairman of the organizing committee ECCE9 / ECAB2*  
 Opening speech by *Rabin Baldewsingh, executive councillor for sustainability in The Hague*  
 Plenary speech 'A Biomass Success Story' by *Peter Vadasz, mayor of Güssing (Austria) and Prof. Hermann Hofbauer, University of Vienna (Austria)*

10:00 Coffee & tea break

10:30 **Keynotes & 60-Second Pitches**

10:30	'Sustainability and Education: Educating Future Chemical Engineers Today' by <i>Prof. Adisa Azapagic, University of Manchester (UK)</i>	Title to be announced by <i>Prof. Werner Bauer, Nestlé (Switzerland)</i>	'Hydrodynamics and Process Performance: Technology Status and Future Trends' by <i>Dr. Vivek Ranade, National Chemical Laboratory (Pune, India)</i>	'Sustainability is Business and Business is Sustainability' by <i>André Veneman, corporate director for sustainability at AkzoNobel</i>
11:20	'Model Validation - A Key to Successful Simulation' by <i>Dr. Herman Feise, BASF (Germany)</i>	'Biorefinery of Microalgae' by <i>Prof. René Wijffels, Wageningen University (the Netherlands)</i>	'Quadrature-based Moment Methods for the Simulation of Turbulent Multi-Phase Flows' by <i>Prof. Daniele Marchisio, Politecnico di Torino (Italy)</i>	Title to be announced by <i>Prof. Louise Vet, director of Netherlands Institute of Ecology</i>
12:10	3x 60-Second Pitches			3x 60-Second Pitches

12:15 Lunch break  
 13:15 - 13:45 Lunch lecture Bridge PPP & SPIRE

14:00 **Scientific Track: 18 scientific parallel sessions**

Teaching Chemical Engineering	Towards More Sustainability	Gas to Liquids	Energetics	Inaugural Symposium of the European Academy for Food Engineering (EAFE)	Structured Materials: Reactors	Bio-nano & Metabolic Engineering	Bioreactor Operation - Products	Crystallization and Precipitation
Separation: Proteins and Antibodies	Biobased Products I	Catalytic Reaction Engineering	Process Design, Control and Operation	CAPE I	Mass Transfer and Reaction Engineering I	PI: Micro Process Technology I	PI: Methodology and Design	<b>DSM Science &amp; Technology Symposium</b>

**Innovation Track**

Workshop Sustainability: Look at your Business from a New Perspective by <i>Laurentien van Oranje</i> (invitation only)	Innovation talks 'Open innovation' (5 orals)	Matchmaking activities in Holland Pavilion
ISPT innovation game	Workshop 'New Business out Innovations; an integral approach'	Q&A session European projects - Bridge PPP & SPIRE

16:30 **Exhibition & Networking Fair**

20:00 End of day 2

**Tuesday April 23**

08:30 **Plenary Opening & Lecture**  
 Welcome by *Prof. Guilherme Ferreira, chairman for ECAB2*  
 Plenary speech 'Sustainable solutions for a changing world' by *Marcel Wubboldts, Chief Technology Officer of DSM*  
 Award ceremony DSM Science & Technology Award 2013

10:00 Coffee & tea break

10:30 **Keynotes & 60-Second Pitches**

10:30	'Extending Total Site Integration to Regional Integration for Energy Saving and Footprints Reduction' by <i>Prof. Jiri Klemeš, University of Pannonia (Veszprém, Hungary)</i>	'Microwave-assisted Chemical Processes: New Insights, New Concepts, New Challenges' by <i>Prof. Andrzej Stankiewicz, Delft University of Technology (The Netherlands)</i>	'Computational Analysis and Synthesis of Biochemical Networks for Sustainable Processes' by <i>Prof. Vassily Hatzimanikatis, École Polytechnique Fédérale de Lausanne (Switzerland)</i>	'Innovation as a Sign of Life (in Individuals or Organisations)' by <i>Prof. Tim Cook, non-executive director of Oxford Gene Technology</i>
11:20	'Engineering the Biobased Economy: Drop-in or Drop-out' by <i>Prof. Luuk van der Wielen, Delft University of Technology (the Netherlands)</i>	'Just Because the Results are in Colour, it Does Not Mean They Are Right' by <i>Prof. Hugh Stitt, Johnson Matthey (UK)</i>	<b>Danckwerts Lecture</b> 'Assembly Engineering: Materials Design for the 21st Century' by <i>Prof. Sharon Glotzer, University of Michigan (USA)</i>	To be announced by <i>Dr. Claus Peter Haelsig, VP process &amp; technology at Fluor B.V.</i>
12:10	3x 60-Second Pitches		3x 60-Second Pitches	3x 60-Second Pitches

12:15 Lunch break

14:00 **Scientific Track: 19 scientific parallel sessions**

Improving Safety	Solar Energy, CO2 and Energy Storage	Sensors in Biomedicine	Strategies for Therapy and Biofilm Control	Inaugural Symposium of the European Academy for Food Engineering (EAFE) II	Nano Materials	Cell Factory	Bioreactor Design Aspects	Monitoring and Screening in Process Development and Control	Solvents, Extraction & Distillation
Membrane Separations	Biobased Products II	Integrated (Bio)processing	CFD I	Modelling and Simulation	Multiphase Flow	Thermodynamics I	PI: Advanced Reactors and Reactive Separations	PI: Micro Process Technology II	<b>Award ceremony Hoogewerff Jongerenprijs</b>

**Innovation Track**

Innovation talks 'Successful examples of new (biobased) feedstock application in chemistry' (7 orals)	Poster exhibition Imagine Life Sciences scholar competition in Holland Pavilion	Final of the Imagine Life Sciences scholar competition	
Workshop Fluor	Round table on Innovation	Workshop Early Stage Business Planning	Workshop Value Based Pricing

17:30 **Exhibition & Networking Fair**

19:30 End of day 3

Wednesday  
April 24

08:30	<b>Plenary Opening &amp; Lecture</b> Welcome Plenary speech 'From Molecular Computations to Continuous Pharmaceutical Manufacturing and Their Role in Shaping a Sustainable Future' by Prof. Bernhardt L. Trout, MIT (Cambridge, USA) Announcement ECCE10 & CHISA2013											
10:00	Coffee & tea break											
10:30	<b>Keynotes &amp; 60-Second Pitches</b>											
10:30	'High Throughput Process Development – Screening, Analytics and Molecular Understanding' by Prof. Jürgen Hubbuch, Karlsruhe Institute of Technology (Germany)			'Recent Developments in Consumer Products – From Nanomaterial Synthesis to Device Fabrication' by Prof. Ka Ng, Hong Kong University of Science & Technology			'A Comparison Between Local and Global Intensification of Processes' by Prof. Laurent Falk, Université de Lorraine (Nancy, France)			Title to be announced by Dr. Geert Woerlee, founder of Feyecon		
11:20	'Recent Advances in Molecular Engineering of High Resolution Multimodal Chromatographic Protein Separation' by Prof. Steven M. Cramer, Rensselaer Polytechnic Institute (USA)			'Hydrous Ethanol in Gasoline - Wet is Better than Dry' by Dr. Hans Keuken, Process Design Center B.V. (Breda, The Netherlands)			'Magnetic Stimulation of Non-Magnetic Chemical Engineering Fluids – Hydrodynamics, Mixing, Transport Phenomena and Catalytic Reactions' by Prof. Faiçal Larachi, Laval University (Québec, Canada)			Huntsman Design Award		
12:10	3x 60-Second Pitches			3x 60-Second Pitches			3x 60-Second Pitches			3x 60-Second Pitches		
12:15	Lunch break											
13:15 - 13:45	Lunch lecture by Marc van Heijningen, Fluor											
14:00	<b>Scientific Track: 18 scientific parallel sessions</b>									<b>Innovation Track</b>		
	Food Ingredient Production: Separation and Isolation	Food Process Modelling, Process Systems, Sustainability	Biocatalysis	Metabolic Engineering II	Simulations, Modeling and Monitoring in Bioreactors	Bio/Sensors for Detection and Monitoring	Chromatography	Separation Processing	Microalgae I	Workshop 'Towards Zero cost PV Electricity – what can it mean for European Process industry'	Innovation talks 'Sustainability & innovation' (6 orals)	Workshop 'The Chemistry of Entrepreneurship' by Gert Poppe of DPI Value Centre
	Biobased Reaction Engineering	CAPE II	CFD II	Model Based Methods and Tools	Mass Transfer and Reaction Engineering II	Particulate Systems	PI: Intensified Separations	PI: Novel Processing Technologies	PI: Intensified Reactors and Processes	Workshop 'Pitch your Career!'	Career matchmaking event in Holland Pavilion	Workshop '3D printing - what can it mean for European Process Industry'
												Fluor workshop (2x)
17:00	<b>Exhibition &amp; Networking Fair</b>											
19:00	Departure for dinner location											
20:00	Congress dinner											
22:30	End day 4											

Thursday  
April 25

08:15	<b>Scientific Track: 18 scientific parallel sessions</b>								
	CO2 Abatement	Process Technology in the Field of Energy	Culture Sorting and Separation in Biomedicine	Food Product Formation and Structuring	Food Preservation and Stabilization	Novel Materials	Biotransformation	Bioreactor Operation - Parameters	Advanced Separation Technologies
	Biorefinery and Renewable Energy	Microalgae II	Chemical Reaction Engineering	Advanced Reactor Concepts	CFD III	Model Based Analysis	Crystallization	Thermodynamics II	Mixing
11:30	<b>Plenary Lecture</b> Hoogewerff lecture 'Molecular Structures, Matter Elements, Thermodynamic Routes, Process Networks: Some Elements of the Future Toolbox for Chemical Process Design' by Professor Dr.-Ing. Kai Sundmacher, Max Planck Institute for Dynamics of Complex Technical Systems & Otto-von-Guericke University (Magdeburg, Germany)								
12:30	Closing ceremony								
12:35	Picnic lunch								
13:00	<b>Company Visits</b>								
	Fluor			AkzoNobel			Shell (Pernis - Port of Rotterdam)		Bioprocess Pilot Facility
17:00	End of day 5								