Monday 20 March

9:30	Conference Introduction and Overview Dr. Tony Hasting and Dr. Ian Wilson
10:00	Session I - Surfaces Session Chairs - Dr Tony Hasting and Dr Thierry Bénézech
10:00	Assessment of organic material and microbial components on hygienic surfaces J. Verran, P.J. Airey and K. Whitehead
10:25	Reducing milk protein adhesion rates: a transient surface treatment of stainless steel A.N. Parbhu, M. Danne and S. Hendy
10:50	A study of the effects of surface coating on the initial deposition mechanisms of dairy fouling S.S. Premathilaka, S. Wiehe, M.M. Hyland, X.D. Chen and B. Bansal
10:55	Effect of electroless Ni-P-based composite coatings with different surface free energies on cleaning time of tomato fouling deposit N. Ab Aziz, P.J. Fryer and Q. Zhao
11:00	The influence of surface treatment on removal of food fouling layers <i>P. Saikhwan, T. Geddert, W. Augustin, S. Scholl, W.R. Paterson & D.I. Wilson</i>
11:05	Influences on the result of cleaning in food and pharma industry U. Beck, U. Bobe, G. Reiners and K. Sommer
	Tea break and Posters
11:40	The effect of substratum surface topography on the retention of micro- organisms and organic material on defined surfaces K. Whitehead and J. Verran
12:05	Innovative self-cleaning and bactericide coated polymer films and fabrics under daylight irradiation T. Yuranova, J. Rengifo, A. Rincon, C. Pulgarin and J. Kiwi
12:30	Solute-membrane fouling interactions during the ultrafiltration of black tea liquor <i>P.J. Evans and M.R. Bird</i>

Monday 20 March

14:00	Session II – Measurement and Modelling Session Chairs– Prof. Dong Chen and Dr Peter de Jong
14:00	Application of MRI and CLSM for the analysis of biofilm detachment B. Manz, T.R. Neu, F. Volke, C. Staudt, M. Haesner, D. Hempel and H. Horn
14:25	Monitoring deposit build-up using a novel mechatronic surface sensor (MSS) A. Pereira, R. Rosmaninho, J. Mendes and L.F. Melo
14:50	Diffusion of chlorine dioxide through aqueous and oil films A.A. Hosni, A. Jang, M. Coughlin and P.L. Bishop
14:55	Confocal laser scanning microscopy and fluid dynamic gauging as a tool for determination of biofilm stability T.R. Neu , T. Langemann, R. Moehle, T Geddert, W. Augustin S. Scholl, D.C. Hempel and H. Horn
15:00	A method for monitoring substratum hygiene using a complex soil; the human fingerprint <i>P. Airey and J. Verra</i>
15:05	Monitoring of biofilm development in industrial water circuits by an online- sensor-system H. Horn, D. Goll and L. Teichmann
15:10	Investigation of membrane foulants in a drinking water production unit by ATR-FTIR spectroscopy and lectin-binding-analysis B. Doumèche, L. Galas, H. Vaudry and P. Di Martino
15:15	Use of a radial flow cell for the cleanability assessment of solid surfaces J. Detry, L. Boulangé-Petermann, P.G. Rouxhet, C. Deroanne and M. Sindic
15:20	Polyaspartic acid as a cleaning agent for calcite and barite deposits J. Braxton, B. Crow and C.S. Grant
15:25	The fouling of ultrafiltration membranes using model tea component solutions D. Wu and M.R. Bird
15:30- 16:00	Tea Break

Monday 20 March

16:00	Session II – Measurement and Modelling (continued) Session Chairs– Prof. Per Einar Granum and Dr John Chew
16:00	Predicting cleaning: Estimate fluctuations in signal from electrochemical wall shear stress measurements using CFD B.B.B. Jensen, T. Bénézech, P. Legentilhomme, C. Lelièvre and A. Friis
16:25	Simple models for cleaning 1: Cohesive and adhesive removal in the cleaning of model food deposits <i>W. Liu, Z. Zhang and P.J. Fryer</i>
16:50	Simple models for cleaning 2: Diffusion-reaction behaviour in the cleaning of model food deposits <i>G.K. Christian and P.J. Fryer</i>
16:55	Comparative studies of fluid dynamic gauging and a micromanipulation probe for strength measurements R.J. Hooper, W. Liu, P.J. Fryer, W.R. Paterson, D.I. Wilson and Z. Zhang
17:00	The mechanical effect of rinsing in cleaning of fermentation tank bottoms S. Salo, S. Johnsen, B.B.B. Jensen, E. Storgårds and A. Friis
17:05	Assessing the cleaning of unhygienic geometries in the food industry using computational fluid dynamics (CFD) K. Asteriadou, T. Hasting, M.R. Bird and J. Melrose
17:10	Development of a novel spinning disc deposition system R. Nigo, W.R. Paterson and D.I. Wilson
17:15	Summary and Close

18:00-19:30 Session II Poster Session and pre-dinner drinks in Upper Hall, JE

9:30	Session III – Dairy Session Chairs – Profs. Albrecht Graβhoff and Marie Paulsson
9:30	Review on fouling control in the dairy industry: what do we have and what needs to be done P. de Jong and A.J. van Asselt
10:00	Role of ionic calcium in fouling of heat treated milk S. Prakash, H. Deeth, A. Grandison and M. Lewis
10:25	Effect of preheating on fouling of UHT sterilizing plants by fresh, recombined and reconstituted whole milk A Srichantra, D.F. Newstead, O.J. McCarthy and A.J.H. Paterson
10:50	Tea Break
11:15	Analysis of milk fouling in an ohmic heater: effect of temperature and power frequency B. Bansal and X.D. Chen
11:40	Minimum wetting rates for falling-films K.R. Morison, Q. A.G. Worth and N.P. O'Dea
11:45	Deposition on electrode surfaces during thermal processing of milk in an ohmic heater B. Bansal and X.D. Chen
11:50	Simulation of fouling behaviour in a helical triple tube ultra-high-temperature (UHT) milk sterilizer <i>P.K. Sahoo, P.K. Nema and A.K. Datta</i>
11:55	Reducing milk fouling using ultrasonic power S.X. Lin and X.D. Chen
12:00	Demonstration of cleaning kinetics using a pilot-scale test rig and implications for dairy manufacturers M.W. Danne, S.C. Warren, G.C. Knight, J.G. Issa, D.V. Irwin and M.G. Weeks
12:25	Cleaning of whey protein fouling layers using pulsed flow
	K. Bode, R.J. Hooper, W.R. Paterson, D.I. Wilson, W. Augustin and S. Scholl

Tuesday 21 March

14:15 Session III - Dairy (continued)

	Session Chairs – Prof. Peter Fryer and Dr Michael Bird
14:15	Probing the mechanisms limiting dissolution of whey protein gels during cleaning R. Mercadé-Prieto, R.J. Falconer, W.R. Paterson and D.I. Wilson
14:40	Optimisation of cleaning of spiral PES ultrafiltration membranes in the dairy industry: Physico-chemical and hydrodynamic aspects M. Rabiller-Baudry, D. Delaunay, L. Paugam, L. Bégoin and B. Chaufer
15:05	Physico-chemical effect of simple alkaline and acid solutions in cleaning sequences of spiral ultrafiltration membranes fouled by skim milk L. Paugam, M. Rabiller-Baudry, D. Delaunay, J.F. Perez and B. Chaufer
15:10	Dissolving heat induced protein gel cubes in alkaline solutions J.Y. Yoo, X.D. Chen, R. Mercadé-Prieto and D.I. Wilson
15:15	Comparison of whey protein fouling layers derived by deposition and gelation <i>R.J. Hooper, W.R. Paterson and D.I. Wilson</i>
15:20	Development of a novel micro-scale technique for monitoring food proteins undergoing cleaning R.J. Hooper, J.Y.M. Chew, W.R. Paterson and D.I. Wilson
15:25	Cleaning the cleaning solution - an industry approach to CIP recovery D. Irwin, S. Warren, M. Danne and M. Weeks
15:30	Factors affecting the cleaning efficiency of polysulphone membranes after cream ultrafiltration Y. Hernández, A. Grandison, M. Lewis, J. Highnam and A. McInnes

15:40-17:00 Tea and Session III Poster Session

Wednesday 22 March

9:30	Session III – Microbes Session Chairs – Prof. Joanna Verran and Dr Ian Wilson
9:30	Influence of wall shear stress variations on microbial removal along different pipe arrangements during cleaning-in-place W. Blel, T. Bénézech, P. Legentilhomme, J. Legrand and C. Le Gentillelièvre
9 :55	Control of flow-generated biofilms with surfactants - evidence of resistance and recovery M. Simões, L.C. Simões, I. Machada, M.O. Pereira and M.J. Vieira
10:20	Investigation of mechanisms of <i>Bacillus cereus</i> spore removal during an alkaline cleaning of a tubular ceramic microfiltration membrane <i>P. Blanpain-Avet, C. Faille and T. Bénézech</i>
10:45	Influence of material type and surface benzalkonium chloride preconditioning on biofilm formation and activity M.O. Pereira, S. Machado, L.C. Simões, I. Machado, M. Simões & M.J. Vieira
10:50	UV intensity variation from high output sources - mercury arc lamps D. Chambers, S. Theng and D. Marsden
10:55	Measurement techniques and surface technologies to control biofouling on poultry equipment J.W. Arnold
11:00	Tea Break and Poster Session
11:30	Microbial activity of biopolymers isolated from Sphagnum papillosum T. Stalheim, S. Ballance, B.E. Christensen and P.E. Granum
11:55	Microbial inactivation using cold atmospheric gas plasmas X.T. Deng, J.J. Shi, G. Shama and M.G. Kong
12:20	Summary and Close