PROGRAMME

Saturday 20th September: Day 1

12:00 Arrival/Registration

16:45 - 17:00 Welcoming Addresses
M. Berovic, I. Radojičić Redovniković and H.J. Noorman

Course Introduction: Some Basic Concepts

17:00 - 17:45 Lecture 1: Basic Microbiological Concepts — V. Zechner-Krpan

17:45 - 18:30 Lecture 2: Basic Engineering Balances — J. Büchs

18:30 - 19:15 Lecture 3: Introduction to Modern Industrial Bioprocesses — M. Jenzsch

19:45 Dinner and Welcome Party

Sunday 21st September: Day 2

Stoichiometry, Rates and Reaction Kinetics

09:00 - 09:45 Lecture 4: Stoichiometry — H.J. Noorman

09:45 - 10:30 Lecture 5: Kinetics — H.J. Noorman

10:30 - 11:00 Coffee break

Physical Parameters of Bioprocessing and Bioreactors

11:00 - 11:45 Lecture 6: Sterilization in Bioprocesse — M. Berovič

11:45 - 12:30 Lecture 7: Mixing, Mass and Heat Transfer in Bioreactors — S.M. Stocks

12:30 - 13:15 Lecture 8: Process Intensification — G. Jovanović

13:30 - 14:30 Lunch

14:30 - 15:15 Lecture 9: Bioprocess Engineering in Microtiter Plates and Shake Flasks/J. Büchs

15:15 - 16:00 Lecture 10: Bioprocessing in Conventional Bioreactors — S.M. Stocks

Bioreactors and Bioprocessing I

16:00 - 18:45 Design Study 1 - Stoichiometry / Kinetics — H.J. Noorman / S.M. Stocks J.Büchs / C. Haringa

19:00 – 20:00 Dinner

20:30 Get Together Party with Tasting of Participants *'National Delights'*
M. Jenzsch, I. Radojičić Redovniković

Monday 22nd September: Day 3

Bioreactors and Bioprocessing II

09:00 - 09:45	Lecture 11: Industrial Bioreactors and Detailed Modelling	C. Haringa
09:45 - 10:30	Lecture 12: Scale-Up and Scale-Down	S.M. Stocks
10:30 - 11:00	**Coffee break**	
11:00 - 11:45	Lecture 13: Microscale-Based Design of Modular Industrial-Scale Reactors	G. Jovanović
11:45 - 12:30	Lecture 14: Solid State Bioprocessing	M. Berovič
12:30 - 13:45	**Lunch**	

Bioreactors and Bioprocessing III

13:45 - 14:30	Lecture 15	
14:30 - 15:15	Lecture 16: Fed Batch and Continuous Culture	J. Büchs
15:15 - 16:00	**Coffee break**	
16:00 - 18:00	Design Study 2: Transport phenomena	J. Büchs / H. J. Noorman S.M. Stocks / C. Haringa
19:00 - 20:00	**Dinner**	
20:30	**Chris Hewitt Speakers Corner**	B. Kristiansen, I. Radojičić Redovniković

Tuesday 23rd September: Day 4

Dynamic Diagnostic Analysis and Modelling

09:00 - 09:45	Lecture 17: Tools for in-vivo Diagnosis of Pathway Reactions	M. Reuss
09:45 - 10:30	Lecture 18: Dynamic Modeling of Metabolism	M. Reuss

Use of Enzymes

11:00 - 11:45	Lecture 19: Biocatalytic Process Engineering	J.M. Woodley E. Overgaard Willer
12:00	**Social Boat Trip to Bol**	

Wednesday 24th September: Day 5

Modern Measurement Techniques and Optimisation

09:00 - 09:45	Lecture 20: Bioprocess and Fermentation Monitoring	M. Jenzsch
09:45 - 10:30	Lecture 21: Soft-sensors for Bioprocess Monitoring	C. Haringa

10:30 - 11:00 Coffee break

Special Cases 1 and 2

11:00 - 11:45	Lecture 22: Recombinant Protein Production with Different Hosts	M. Jenszch
11:45 - 12:30	Lecture 23: Bioprocess Engineering for Stem Cell Culture	Q. Rafiq

12:30 - 14:00 Lunch

Downstream Processing

14:00 - 14:45	Lecture 24: Downstream Processing 1	L. van der Wielen
14:45 - 15:30	Lecture 25: Downstream Processing 2	L. van der Wielen

15:30 - 16:00 Coffee break

16:00 - 16:45	Lecture 26: Downstream Processing 3	L. van der Wielen
16:45 - 18:45	Exercise 3: Case study - Downstream Processing	L. van der Wielen

19:00 - 20:15 Dinner

20:30 Wine Culture and Art of Wine Tasting in Europe and EUBEC 2025 Wine Competition M. Berovič

Thursday 25th September: Day 6

Special Cases 3 and 4

09:00 - 09:45	Lecture 27: Culture of Human Mesenchymal Stem Cells on Microcarriers	Q. Rafiq
09:45 - 10:30	Lecture 28: Barriers in Industrial Production of Metabolites	B. Kristiansen

10:30 - 11:00 Coffee break

Control of Bioprocesses

11:00 - 11:45	Lecture 29: Introduction to Control of Bioprocesses	J. Huusom
11:45 - 12:30	Lecture 30: Advances in Control of Bioprocesses	J. Huusom

12:30 - 14:00 Lunch

14:00 - 18:30 Free time

18:30 - 20:00 Dinner

20:15 Farewell Party and Presentation of Certificates and Case Study Prize

Friday 26th September: Day 6

Departure