

ADVANCED EDITION

ISPROCHEM 2023

International School of Process Chemistry, 28th – 31st May 2023
Palazzo Feltrinelli, Gargnano (BS) – IT

Sunday 28th May

OPENING CEREMONY

- 16:00 Registration at Palazzo Feltrinelli desk
- 17:00 Opening remarks on behalf of “Divisione di Chimica Organica” of Società Chimica Italiana.

Session #1:

HTE: HIGH THROUGHPUT EXPERIMENTATION

- 17:30 High-Throughput Experimentation
Dr. Qinghao (Hao) Chen
(Janssen Pharmaceutica)

Session #2:

PHOTOCATALYSIS

- 18:30 Photoredox Catalytic Strategies for the Activation of Strong Bonds
Prof. Kirsten Zeitler
(University of Leipzig)

19:45 WELCOME COCKTAIL - Palazzo Feltrinelli

Special seminar session #1:

HYSTORICAL LECTURE

- 21:00 Living dangerously: Sobrero, Nobel and the taming of industrial nitration
Prof. Giovanni Appendino
(Università del Piemonte Orientale, IT)

Monday 29th May

Session #3:

BIOCATALYSIS

- 09:00 Biocatalysis @ Scale
Dr. Diego Ghislieri
(BASF)
- 10:00 Immobilize to go further: how enzyme immobilization can help in process intensification
Dr. David Roura Padrosa
(inSEIT biotech)
- 10:30 Break

Session #4:

SOLID STATE (Intellectual Property)

- 11:00 Polymorphism of drugs and patent strategy
Dr. Enrico Zanoli
(Zanoli & Giavarini - Intellectual Property)

WORKSHOP

- 12:00 Introduction to working principles; lab vs plant
Prof. John Knight
(Jkonsult Ltd)
- 13:00 Lunch break
- 14:30 Problem sessions around topics of work-up, crystallisation and designing a safe process (part A)
Prof. John Knight
(Jkonsult Ltd)
- 16:00 Break
- 16:30 Problem sessions around topics of work-up, crystallisation and designing a safe process (part B)
Prof. John Knight
(Jkonsult Ltd)
- 17:30 End of lectures

Tuesday 30th May

Session #5:

FLOW CHEMISTRY

- 09:00 Development of New Synthetic Strategies by Organometallic Flow Chemistry
Prof. Renzo Luisi
(University of Bari)
- 10:00 Engineering Concepts of Flow Chemistry (with Real Case Examples)
Dr. Ing. Dominique Roberge
(LONZA)
- 11:00 Break
- 11:30 CASE STUDY: Manufacturing and Characterization of an Amorphous API - Dexlansoprazole
Dr. Chiara Vladiskovic
(DIPHARMA)

- 12:00 CASE STUDY: Challenging reactions in aqueous media
Dr. Mattia Stucchi
(Olon S.p.A)

12:30 Lunch Break

Session #6:

PHOTOCATALYSIS

- 14:00 Recent advances in photocatalysis
Prof. Timothy Noël
(University of Amsterdam)

Session #7:

FLASH PRESENTATIONS

- 15:00 Flash presentations from PhD students
- 16:15 Coffee Break

- 16:45 CASE STUDY: Development of a Robust and Scalable Catalytic Process for API Manufacture
Dr. Matthew Tailby
(CatSci)

- 17:15 Flow Reactor Technology to enable Scalable Photo-, Electro- & Multi-phase Chemistry
Dr. Hannes Gemoets
(CreaFlow)

17:45 End of lectures

Wednesday 31st May

Session #8:

GREEN METRICS

- 09:00 Benchmarking Synthetic Peptide Sustainability
Dr. Martin N. Kenworthy
(ASTRAZENECA)

Session #9:

QUALITY OF ACTIVE SUBSTANCES

- 10:00 Process Development, GMP and API Quality: a strong bond
Dr. Alberto Moro

11:00 Break

- 11:30 CASE STUDY: Cocrystals in process chemistry – An efficient and scalable purification and resolution strategy
Dr. Laura Grau
(Enantia S.L.)

Special seminar session #2:

CHEMICAL TECHNOLOGIES

- 12:00 Challenges for Process Chemistry in the 21st Century
Dr. Kai Rossen
(Editor-in-Chief Organic Process Research & Development)

CLOSING CEREMONY

- 13:00 FINAL REMARKS AND CONCLUSION
- 13:15 Lunch break
- 15:00 ISPROCHEM shuttle departure