

Monday - July 10th, 2023

- 08:45 – 09:10 **Welcome and coffee**
- 09:10 – 09:30 **Opening of the NCR Summerschool**
- 09:30 – 11:10 **Explaining patterns and dynamics of rivers and estuaries: where to carve nature at its joints?**
Maarten Kleinhans (Utrecht University)
- 11:10 – 13:00 **Poster session of participants' projects with lunch**
- 13:00 – 14:40 **Fluid mechanics of shallow environmental flows**
Wim Uijttewaal (Delft University of Technology)
- 14:40 – 15:05 Coffee break
- 15:05 – 16:45 **River morphodynamic response to interventions and natural change**
Astrid Blom (Delft University of Technology)
- 17:00 – **Group dinner**

Tuesday - July 11th, 2023

- 08:45 – 10:25 **Modelling approaches to turbulent environmental flows**
Mario Franca (Karlsruhe Institute of Technology)
- 10:25 – 10:50 Coffee break
- 10:50 – 12:30 **Flow and sediment transport in three-dimensional flows**
Koen Blanckaert (Vienna University of Technology)
- 12:30 – 13:45 Lunch break
- 13:45 – 17:30 **Hands-on: ADCP data processing**
Bart Vermeulen (Wageningen University and Research)
- 18:00 – 20:30 **Virtual River: Gaming with a live 2D hydrodynamic model (with dinner)**
Robert-Jan den Haan (University of Twente)

Wednesday - July 12th, 2023

- 08:45 – 10:25 ***River morphodynamics***
Suzanne Hulscher (University of Twente)
- 10:25 – 10:50 Coffee break
- 10:50 – 12:30 ***Tidal rivers***
Ton Hoitink (Wageningen University and Research)
- 12:30 – 13:45 Lunch break
- 13:45 – 17:30 ***Hands-on: Numerical modelling***
Victor Chavarrias (Deltares)

Thursday - July 13th, 2023

Day hosted by Radboud University Nijmegen

- 08:00 Departure from University of Twente to Radboud University Nijmegen
- 10:00 – 10:45 ***Introduction and ecology of large rivers***
Gertjan Geerling (Radboud University)
- 10:45 – 11:30 ***Quantifying the role of vegetation in ecohydraulic studies***
Ellis Penning (Deltares)
- 11:30 – 11:45 Coffee break
- 11:45 – 12:30 ***Future dikes: enabling strong biodiverse dike covers***
Hans de Kroon (Radboud University) and Jord Warmink (University of Twente)
- 12:30 – 13:30 ***Lunch + fieldlab visit at a site of the university (future dikes fieldlab)***
- 13:30 Departure for excursion in floodplains
- 14:15 – 16:00 ***Field excursion***
- 16:00 Departure for University of Twente
- 18:00 Arrival at University of Twente

Friday - July 14th, 2023

Day hosted by Rijkswaterstaat at the Pannerdense Kop

- 08:00 Departure from University of Twente to Pannerdense Kop
- 09:45 – 10:45 **Connecting research and river management**
Ralph Schielen (Rijkswaterstaat)
- 10:45 – 11:00 Coffee break
- 11:00 – 12:00 **International cooperation in river management**
David Kroekenstoel (Rijkswaterstaat)
- 12:00 – 13:00 **Lunch break**
- 13:00 – 16:00 **Young NCR excursion**
Young NCR
- 16:00 Departure for University of Twente
- 18:00 Arrival at University of Twente

Saturday - July 15th, 2023

- 08:45 – 10:25 **Remote sensing of the fluvial environment**
Menno Straatsma (Utrecht University)
- 10:25 – 10:50 Coffee break
- 10:50 – 12:30 **How to connect river science with the outside world?**
Wilfried ten Brinke (Blueland Consultancy)
- 12:30 End of the Summerschool

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