

1st International Symposium on Continuous Real-Time Biomolecular Sensing

27-28 August 2024

Eindhoven University of Technology (TU/e) & online

Program

Focus of the symposium

- (i)** The monitoring of biomolecules at micromolar levels and below
- (ii)** The core components of continuous sensors, i.e. molecular and detection concepts
- (iii)** Sensing concepts that are able to monitor increases as well as decreases of biomarker concentration
- (iv)** Sensing concepts that operate without consuming sensing reagents, in order to be suited for longterm use



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Program Day 1: Tuesday, 27 August 2024 | TU/e Atlas Building & online

16:00 CEST

Welcome and Introduction (Menno Prins, TU Eindhoven)

Session 1: Electrochemical sensors

16:10 CEST

Kevin Plaxco (UC Santa Barbara)

E-AB sensors - overview; Q&A

16:55 CEST

Hossein Zargartalebi (Northwestern University)

Molecular pendulum, with Shana Kelley; Q&A

17:20 CEST

Chuanzhen Zhao (Stanford University)

Redox, neuro, with Zhenan Bao; Q&A

18:00 CEST

Sensor exhibition, posters, dinner

Session 2: Particle-based, Particle-based, fluorescence, and medical perspective

19:45 CEST

Menno Prins (TU Eindhoven)

Biosensing by Particle Motion - overview; Q&A

20:30 CEST

Heather Clark (Arizona State University)

Fluorescent nanosensors; Q&A

20:55 CEST

Claudia Scarpellini (KU Leuven)

Tethered AuNPs, with Jeroen Lammertyn; Q&A

21:20 CEST

Marien de Jonge (Radboud University)

Medical perspective: immuno-monitoring; Q&A



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Program Day 2: Wednesday, 28 August 2024 | TU/e Atlas Building & online

Session 3: (L)SPR and SERS

16:00 CEST

Weiqiang Chen (New York University)
LSPR, AuNPs; Q&A

16:25 CEST

Daniel Aili (University of Linköping)
LSPR, AuNPs; Q&A

16:50 CEST

Jean-Francois Masson (University of Montreal)
SERS, AuNPs; Q&A

17:15 CEST

Abtin Saateh (EPFL)
SPR, with Hatice Altug; Q&A

18:00 CEST

Posters and dinner

Session 4: FRET-based sensors

19:45 CEST

Tom Soh (Stanford University)
FRET Sensors - overview; Q&A

20:30 CEST

Anahi Higuera (Dynamic Biosensors)
FRET; Q&A

20:55 CEST

TBD (Aarhus University)
FRET, with Kurt Gotthelf; Q&A

21:20 CEST

Menno Prins (TU Eindhoven)
Closing and conclusions

