A project funded by Helmholtz research initiative and Networking Fund (INF)
qflow.hzdr.de

qFLOW: Quantum-Enhanced Simulations of Complex Fluid Flows – From Droplets to Groundwater

Kick off Meeting Agenda

Dates: 16.Jun.2026–18.Jun.2026 (Tue–Thu)
Venue: Helmholtz Zentrum Dresden Rossendorf, Bautzner Landstr. 400 | 01328 Dresden

Host: Institute of Fluid Dynamics

Day 1 – Tuesday: Lectures & Fundamentals

Time	Session	Format
08:00–09:00	Shuttle Service	
09:00–10:30	QC Basics @ Prof. Matteo Rizzi	Lecture + Q&A
10:30–11:00	Coffee Break	
11:00–12:30	QC Alg. and Hardware @ Dr. Stefan Kühn	Lecture + Q&A
12:30–13:30	Lunch Break	
13:30–15:00	FD Lecture I @Dr. Roland Rzehak	Lecture + Q&A
15:00–15:30	Coffee Break	
15:30–17:00	FD Lecture II @ Prof. Dr. Luis Samaniego; Prof. Sabine Attinger	Lecture + Q&A
17:00–18:00	Shuttle Service	

Day 2 – Wednesday: Keynotes & Discussions

Time	Session	Format
08:00–09:00	Shuttle Service	
09:00–09:45	Keynote Lecture 1 Dieter Jaksch	Keynote Lecture + Q&A
09:45-10:15	Lecture 1 Li Jheng-Wei	Lecture + Q&A
10:15-10:45	Lecture 2 Juan Arenas	Lecture + Q&A
10:45–11:15	Coffee Break	
11:15–12:00	Keynote Lecture 2 Sauro Succi	Keynote Lecture + Q&A
12:00–12:30	Lecture I Pia Siegl	Lecture + Q&A
12:30–13:00	Lecture 2 Julien Zylberman	Lecture + Q&A
13:00–14:00	Lunch Break	
14:00–14:45	Keynote Lecture III Nikolaus Adams	Lecture + Q&A
14:40–15:15	Lecture I Matthias Möller (via Zoom)	Lecture + Q&A
15:15–15:45	Lecture 2 Stefan Langer	Lecture + Q&A
15:45–16:00	Coffee Break	
16:00–17:00	Discussion	
17:00–18:00	Shuttle Service	
19:00–21:00	Workshop Dinner	

Day 3 – Thursday: Project & Wrap-up

Time	Session	Format
08:00–9:00	Shuttle Service	
09:00–10:30	Experiment for time propagation of non-linear dynamics on a superconducting quantum processor @ Felix Cluster, GPU Code Lecture @ Mani Lokamani	Lecture + Q&A
10:30–11:00	Coffee Break & Finger Food	
11:00–12:30	Cluster, GPU Code Lecture @Dr. Stefan Kühn; @Sai Vadlamudi; @ Mani Lokamani	Lecture + Q&A
13:00	Shuttle Service	

Kick off Meeting Participants

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Venue: Helmholtz Zentrum Dresden Rossendorf, Bautzner Landstr. 400 | 01328 Dresden

Host: Institute of Fluid Dynamics

Invited Lecturers:

Jaksch, Prof. Dieter dieter.jaksch@uni-hamburg.de

Li, Dr. Jheng-Wei jheng-wei.li@cea.fr

Succi, Prof. Sauro sauro.succi@gmail.com

Langer, Prof. Stefan Stefan.Langer@dlr.de

Adams, Prof. Dr. -Ing. Nikolaus nikolaus.adams@tum.de

Arenas, Prof. Juan J.M. Jum151@pitt.edu

Siegl, Ms. Pia Pia.Siegl@dlr.de

Zylberman, Dr. Julien julien.zylberman@gmail.com

Möller, Prof. Matthias M.Moller@tudelft.nl (zoom)

Consortium:

Dobrautz, Werner w.dobrautz@hzdr.de

Eckert, Kerstin k.eckert@hzdr.de

Ding, Wei w.ding@hzdr.de

Lokamani, Mani lokama42@hzdr.de

Rzehak, Roland r.rzehak@hzdr.de

Vadlamudi, Sai s.vadlamudi@hzdr.de

Kühne, Thomas t.kuehne@hzdr.de

Feitosa, Guilherme feitosad@mpi-cbg.de

Syed, Taha Zaffar taha.syed@tum.de

Dannenfeld, Nicolas n.dannenfeld@fz-juelich.de

Palaparthy, Venkata Sai Krishna Chaitanya k.palaparthy@hzdr.de

Konrad, Uwe u.konrad@hzdr.de

Kuehn, Stefanstefan.kuehn@desy.de

Motzoi, Felix f.motzoi@fz-juelich.de

Rizzi, Matteo m.rizzi@fz-juelich.de

Schmitt, Markus mar.schmitt@fz-juelich.de

Calarco, Tommaso t.calarco@fz-juelich.de

Setty, Abhishek a.setty@fz-juelich.de

Devaraju, Nikkin n.devaraju@fz-juelich.de

Ugale, Sahil s.ugale@fz-juelich.de

Bumberger, Jan jan.bumberger@ufz.de

Schüler, Lennart lennart.schueler@ufz.de

Attinger, Sabine sabine.attinger@ufz.de; tbl-modmon@ufz.de

Kalbacher, Thomas thomas.kalbacher@ufz.de

Samaniego, Luis luis.samaniego@ufz.de

Gangloff , Susanne susanne.gangloff@ufz.de

qFLOW

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HELMHOLTZ

Quantum-Enhanced Simulations of Complex Fluid Flows – from Droplets to Groundwater

qFLOW Kickoff: 16 -18 June 2026
large lecture hall (building 106, room 255)
School, Symposium & Project Discussion

HZDR HELMHOLTZ ZENTRUM DRESDEN ROSSENDORF

UFZ HELMHOLTZ Zentrum für Umweltforschung

DESY.

JÜLICH Forschungszentrum

Agenda

Day	Theme	Focus
16 June 9:00-17:00	**School**	Fundamentals: quantum computing + flow simulations
17 June 9:00-17:00	**Symposium**	Expert talks on quantum algorithms for CFD
18 June 9:00-12:30	**Project Discussion**	Discussion of project directions, collaborations, and next steps

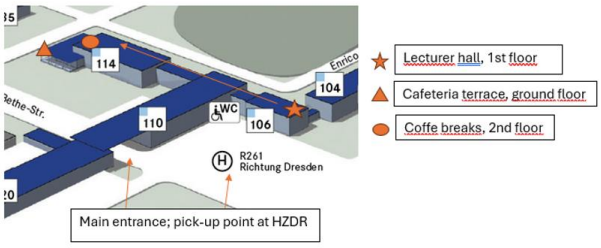
Practical Information

- Attendance list: if you haven't done so yet, please sign, it is important
- Presentations: please stick to schedule and allow some time for discussion
- In the evening: Welcoming Dinner, Meeting Banquet
- Toilets: downstairs behind the warderobe
- Bus Shuttle Service: Zwinger ↔ HZDR (see next page)

Break times and locations

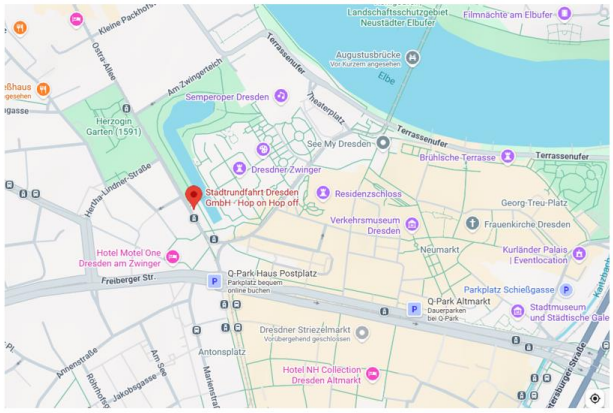
- Coffee breaks: at building 114/room 203 (signposted)
- 16 June: 10:30 – 11:00, 15:00 – 15:30
- 17 June: 10:45 – 11:15, 15:45 – 16:00
- 18 June: 10:30 – 11:00 (finger food)

➔Beverages are available the whole day from 8:30 a.m. to meeting end



- Lunch: at building 114 – ground floor, company cafeteria terrace (signposted)
- 16 June: 12:30 – 13:30
- 17 June: 13:00 – 14:00

Shuttle Service



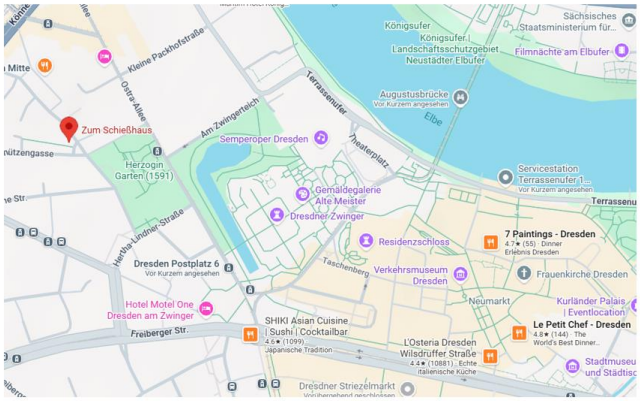
➔ Pick up point HZDR: directly near the HZDR main entrance

➔ Pick up point Zwinger: near the bus stop at “Zwinger”, across from the “Staatsschauspielhaus”, Ostra-Allee/Sophienstraße, 01067 Dresden

From Zwinger to HZDR
16-18 June 2026: 8:15

From HZDR to Zwinger
16-17.06.2026: 17:15
18.06.2026: 12:45

Consortium dinner 16 June 2026



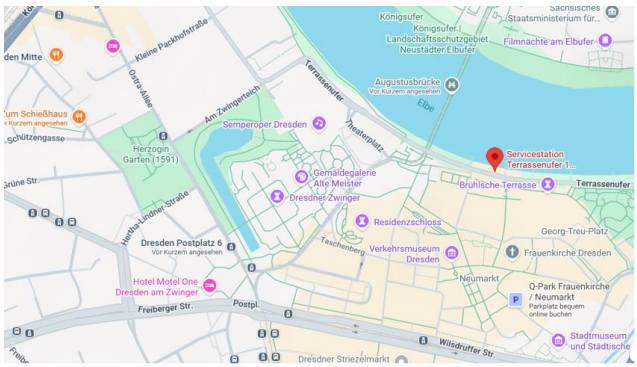
We will meet at 6:50 p.m. at Restaurant „Schießhaus“

Address:
Am Schießhaus 19
01067 Dresden
Tel: +49 351 4845990

FYI: No additional shuttle service to the restaurant.

MM

Meeting banquet 17 June 2026



We will meet on June 17 2026 at approximately 6:30 p.m. at Terrassenufer

- ➔ the specific departure point will be announced at the conference
- ➔ doors open 20–30 minutes before departure

Address: Terrassenufer 1, 01067 Dresden

FYI: No additional shuttle service to the ship