

Monday, November 10 2025				
Short Course on Multiphase Flows				
Time		Lecturer	Affiliation	Title
11:00	12:30	Registration		
12:30	12:40	T. Höhne	Helmholtz-Zentrum Dresden-Rossendorf, Germany	General Information
12:40	12:50	U. Hampel	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Welcome
12:50	13:50	R. Rzehak	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 1: Mathematical Models for Multiphase Flows: Overview & Basic Equations
13:50	14:10	Break with Coffee, Tea & Beverages		
14:10	15:10	S. Kriebitzsch	CADFEM GmbH Germany	Lecture 2: Lagrangian Two-Phase Flow Modelling
15:10	15:30	Break with Coffee, Tea & Beverages		
15:30	16:30	R. Rzehak	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 3: Euler-Euler Modelling of Disperse Flows
16:30	16:50	Break with Coffee, Tea & Beverages		
16:50	17:50	U. Hampel	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 4: Measurement Techniques and Experimental Investigations for Multiphase Flows
18:00		Transfer to Dresden		

Tuesday, November 11 2025				
Short Course on Multiphase Flows				
Time	Lecturer	Affiliation	Title	
08:30	09:00	Registration		
09:00	10:00	V. K. Gupta	ANSYS India	Lecture 5: Modelling of free-surface flows with focus on the VOF Method
10:00	10:20	Break with Coffee, Tea & Beverages		
10:20	11:20	Y. Liao	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 6: Interfacial Heat and Mass Transfer Models
11:20	11:40	Break with Coffee, Tea & Beverages		
11:40	12:40	R. Rzehak	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 7: Poly-Disperse Bubbly Flows & Chemical Reaction
12:40	12:45	Group Photo		
12:45	13:45	Lunch		
13:45	14:45	T. Höhne	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 8: Multiscale Multiphase Flow Modelling - AIAD & GENTOP
14:45	15:05	Break with Coffee, Tea & Beverages		
15:05	16:05	H. Hessenkemper, A. Sommer	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 9: Optical measurement techniques in bubbly flows: From pattern recognition with neuronal networks to 3D liquid flow fields with Tomographic PIV
16:05	16:25	Break with Coffee, Tea & Beverages		
16:25	17:25	B. Krull & R. Meller	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 10: Morphology-adaptive Multifield Two-Fluid Modelling - MultiMorph
17:25	17:45	All	Discussion, Questions & Answers	
18:00		Transfer to Dresden		
19:00		Short Course Dinner @ Restaurant "Feldschlösschen"		

Wednesday, November 12 2025				
Short Course on Multiphase Flows - Code Capabilities & Experimental (Parallel Sessions)				
Time		Lecturer	Affiliation	Title
<b>Code capabilities part</b>				
<b>Plenum</b>				
09:00	09:35	M. Braun	ANSYS Germany	Lecture 11: Multiphase Flow Modeling with Ansys Fluent
09:35	10:10	A. Davanlou	Siemens Digital Industry Software, USA	Lecture 12: Multiphase Flow Capabilities in Simcenter STAR-CCM+
10:10	10:45	F. Schlegel	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 13: Multiphase Developments with OpenFOAM Foundation Software
10:45	11:00	<b>Break with Coffee, Tea &amp; Beverages</b>		
<b>Parallel Sessions</b>				
11:00	12:00	H. Eickenbusch	ANSYS Germany	Lecture 14: Meet the Specialists from ANSYS
11:00	12:00	C. Santarelli & F. Klippel	Siemens Digital Industry Software, Germany	Lecture 15: Simcenter STAR-CCM+ demonstration
11:00	12:00	R. Lehnigk	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Lecture 16: Sustainable management of simulation setups for OpenFOAM Foundation Software
<b>Experimental part</b>				
09:00	12:00	E. Schleicher & A. Bieberle	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Interactive Seminar on the Application of Two-Phase Flow Measuring Techniques - Wire-Mesh Sensors & Gamma CT
12:00	13:00	<b>Lunch</b>		

21st Multiphase Flow Conference and  
Short Course: Simulation, Experiment  
and Application  
Dresden, November 10-14, 2025









12:30	13:00	Registration Conference		
Wednesday, November 12 2025 - Multiphase Flow Conference - Session 1				
Chair:		T. Höhne	Helmholtz-Zentrum Dresden-Rossendorf	
Time		Presenter	Affiliation	Title
13:00	13:10	S. Schmidt	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Welcome
13:10	13:35			
13:35	14:00			
14:00	14:25			
14:25	14:50			
14:50	15:15			
15:15	15:45	Coffee, Tea & Beverages		
Multiphase Flow Conference - Session 2				
Chair:		A. B. H. Ali	ANSYS Germany	
Time		Presenter	Affiliation	Title
15:45	16:10			
16:10	16:35			
16:35	17:00			
17:00	18:00	Visit of the Experimental Facilities @ Institute of Fluid Dynamics		
18:00		Transfer to Dresden		

Thursday, November 13 2025				
Multiphase Flow Conference - Session 3				
Chair:		R. Rzehak	Helmholtz-Zentrum Dresden-Rossendorf	
Time		Presenter	Affiliation	Title
09:00	09:45	Kosuke Hayashi	Kobe University, Japan	<u>Keynote:</u> Modeling the Dynamics of Bubbles under the Influence of Surfactants
09:45	10:10			
10:10	10:35			
10:35	10:55	Coffee, Tea & Beverages		
Multiphase Flow Conference - Session 4				
Chair:		C. Santarelli	Siemens, Germany	
Time		Presenter	Affiliation	Title
10:55	11:20			
11:20	11:45			
11:45	12:10			
12:10	12:15	Group Photo		

12:15	13:15	Lunch		
Multiphase Flow Conference - Session 5				
Chair:				
Time		Presenter	Affiliation	Title
13:15	13:40			
13:40	14:05			
14:05	14:30			
14:30	16:00	Poster Session with Coffee, Tea & Beverages - Votes for the Best Poster Award - see Poster list		
Multiphase Flow Conference - Session 6				
Chair:		Y. Liao	Helmholtz-Zentrum Dresden-Rossendorf	
16:00	16:25			
16:25	16:50			
16:50	17:15			
17:15	17:40			
17:40	18:05			
18:10		Transfer to Dresden		
19:00		Conference Dinner @ Restaurant "Sophienkeller"		

Friday, November 14 2025				
Multiphase Flow Conference - Session 7				
Chair:		F. Schlegel	Helmholtz-Zentrum Dresden-Rossendorf	
Time		Presenter	Affiliation	Title
09:00	09:45	Stefan Pirker	Johannes Kepler University Linz, Austria	<u>Keynote:</u> Multiphase modelling through space and time - extending the multi-scale modelling paradigm
09:45	10:10			
10:10	10:35			
10:35	11:00			
11:00	11:25			
11:25	11:45	Coffee, Tea, Snacks & Beverages		
Multiphase Flow Conference - Session 8				
Chair:		D. Lucas	Helmholtz-Zentrum Dresden-Rossendorf	
Time		Presenter	Affiliation	Title
11:45	12:10			
12:10	12:35			
12:35	13:00			
13:00	13:25			
13:25	13:30	Closure		







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Poster - Best poster will be selected by the participants

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