

# MTLM24 DAY 1

27 May

## 9:30-10:30 Session 0: Opening

9:30-10:00	Arrival & registration	
10:00-10:15	Gerbeth, Gunter	Greetings
10:15-10:30	Sieger, Max	General Announcements

*short break / buffer*

## 10:30-11:30 Session 1: ECFM

10:30-10:50	Afflard, Antoine	Eddy current based detection of inclusions in liquid metal flow
10:50-11:10	Paumel, Kevin	A method for compensating Eddy Current Flow-Meter temperature dependence
11:10-11:30	Krauter, Nico	A Look-up-Table Method for Simultaneous Measurement of Flow Velocity and Electrical Conductivity of a Liquid Metal Using an Eddy Current Flow Meter

## 11:30-12:30 Session 2: Further flow rate measurements

11:30-11:50	Sahu, Srikanta	Development of a highly sensitive electromagnetic flowmeter for high temperature liquid metals
11:50-12:10	Cioli Puviani, Pietro	Thermal flow meter for HLM application
12:10-12:30	Onea, Alexandru	Measurements of sodium flow rates in the high temperature SOLTEC-2 facility

**12:30-14:00** *Lunch break*

## 14:00-15:20 Session 3: Inductive measurement techniques & local velocities

14:00-14:20	Gundrum, Thomas	Contactless inductive bubble detection in a liquid metal flow
14:20-14:40	Sieger, Max	Inductive detection of gas bubbles in liquid metals
14:40-15:00	Carlesi, Tommaso	Experimental analysis of a differentially heated cavity with water and GaInSn
15:00-15:20	Sieger, Max	Latest developments in contactless inductive flow tomography

## 15:20-16:00 Session 4: Level & distance

15:20-15:40	Kent, Edward	Development of an Electromagnetic Level Sensor for use in Liquid Metals
15:40-16:00	Brenneis, Björn	Distance measurements on liquid metals regarding the film thickness detection in DONES

**16:00-16:30** *coffee break*

## 16:30-17:10 Session 5: Ultrasound

16:30-16:50	Eckert, Sven	Ultrasound Localization Microscopy for Super-Resolved Flow Fields in Liquid Metal Experiments
16:50-17:10	Tsiapkinis, Iason	Melt flow measurements in model experiments for crystal growth

**17:30** *departure to city tour*

# MTLM24 DAY 2

28 May

## 9:00-10:30 Keynote: Safety considerations of Liquid metal cooled reactors

**10:30-11:00** *coffee break & conference foto*

## 11:00-12:00 Session 6: sodium cooled, fusion and hybrid reactors

11:00-11:20	Sieger, Max (on behalf of Pierre Sciora)	Overview on the ESRF-SIMPLE Project
11:20-11:40	Jiao, Guanghao	Radiation-based imaging techniques for nuclear safety research (RIMANUS)
11:40-12:00	Congjin Ding	Multiphysical study of cladding failure detection in Sodium cooled Fast Reactors
12:00-12:20	Baranovskis, Reinis	Liquid Metal Flow Experiment for Fusion Reactor walls
12:20-12:40	Diogo, Rui	Advancements in Lead-Bismuth Eutectic (LBE) Measurement Techniques at the SCK CEN: A Review of the Past Decade

**12:40-14:00** *Lunch break*

## 14:00-15:00 Session 7:

14:00-14:20	Lappan, Tobias	Imaging measurements in liquid metal flows by means of X-ray and neutron radiography
14:20-14:40	Gundrum, Thomas	3-D shape and velocity measurement of argon gas bubbles rising in liquid sodium by means of ultrafast X-ray CT imaging
14:40-15:00	Nash, William	Liquid Metal Batteries: Challenges and Opportunities

## 15:00-15:30 Closing & final remarks

**15:30-16:00** *coffee break*

**16:00** *departure to City center*

16:00-18:00 Time slot for project-related meetings etc.

**19:00-23:00** *Dinner at Carolaschößchen (Großer Garten)*