

# FAST AND GENTLE HIGH-RESOLUTION VOLUMETRIC IMAGING FOR MARINE BIOLOGY AND BEYOND

HANDS-ON SESSIONS ON THE **LEICA SP8 DLS** DIGITAL LIGHT-SHEET AND  
ON THE LEICA CONFOCAL **LEICA SP8 LIGHTNING** WITH WHITE LIGHT LASER

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20<sup>TH</sup> – 22<sup>ND</sup> AUGUST 2019

**LOCATION:** SARS INTERNATIONAL CENTRE FOR MARINE MOLECULAR BIOLOGY



BERGEN, NORWAY

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## ORGANIZERS AND SPEAKERS

**MARIOS CHATZIGEORGIOU**

(Sars International Centre for Marine Molecular Biology, University of Bergen)

**HEGE DALE**

(Molecular Imaging Center, University of Bergen)

**JIAN HAO LIU**

(Dept. of Biomedisin, University of Bergen)

**DANIEL SMEETS**

(Advanced Workflow Specialist, Leica Microsystems)

**SIMEN OWE**

(Sales Manager, Ortomedic)

PROGRAMME

**20<sup>th</sup> August, TUESDAY**

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- 08:45 Registration
- 08:55 – 09:00 Welcome by Marios Chatzigeorgiou and Simen Owe
- 09:00 – 09:30 **Imaging marine organisms: Current challenges and future prospects**  
Marios Chatzigeorgiou
- 09:30 – 10:15 **SP8 Lightning – The fast, gentle and sensitive confocal Super Resolution approach**  
Daniel Smeets
- 10:15 – 10:30 COFFEE BREAK
- 10:30 – 11:00 **Multispectral and Super Resolution imaging**  
Hege Dale / Jian Hao Liu
- 11:00 – 11:30 **From SP8 to Digital Light Sheet – Introduction and Sample Preparation**  
Daniel Smeets
- 11:30 – 13:00 LUNCH
- 13:00 – 15:00 **Hands-on Session 1**  
(Leica SP8 DLS)
- 15:30 – 17:30 **Hands-on Session 2**  
(Leica SP8 DLS)

**21<sup>st</sup> August, WEDNESDAY**

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- 9:00 – 11:00 **Hands-on Session 3**  
(Leica SP8 DLS)
- 12:30 – 14:30 **Hands-on Session 4**  
(Leica SP8 DLS)
- 15:00 – 17:00 **Hands-on Session 5**  
(Leica SP8 DLS)

**22<sup>nd</sup> August, THURSDAY**

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08:30 – 10:30      **Hands-on Session 6**  
(Leica SP8 LIGHTNING with WLL)

11:00 – 13:00      **Hands-on Session 7**  
(Leica SP8 LIGHTNING with WLL)

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#### SAMPLE PREPARATION FOR LEICA DIGITAL LIGHT SHEET

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LIGHT SHEET SAMPLES PREPARATION WILL BE PERFORMED DURING THE SESSIONS WITH THE HELP OF THE LEICA APPLICATION SPECIALIST. A LIST OF COMPATIBLE CLEARING REAGENTS IS AVAILABLE [HERE](#). YOU CAN ALSO FIND ARTICLES RELATED TO SAMPLE PREP ON LEICA SCIENCE LAB.

[SAMPLE PREPARATION USING-U-SHAPED-GLASS-CAPILLARIES](#)

[SAMPLE PREPARATION USING A ROTATION DEVICE](#)

[SAMPLE PREPARATION USING MOUNTING FRAMES](#)

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#### REGISTRATION

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IN ORDER TO HELP US WITH THE ORGANIZATION OF THE HANDS-ON SESSIONS, PLEASE REGISTER AS SOON AS POSSIBLE USING THE ONLINE REGISTRATION FORM [HERE](#). THE CAPACITY IS LIMITED!

EACH SESSION - 120 MIN. INCL. DLS SAMPLE PREPARATION; **MAX 6 PEOPLE PER GROUP**.

PLEASE BE PRESENT FOR THE HANDS-ON SESSIONS APPROX. 15 MINUTES IN ADVANCE. DUE TO TIME RESTRICTIONS PROBABLY ONLY 2 SAMPLES CAN BE IMAGED PER HANDS-ON SESSION.

**IN CASE OF ANY QUESTIONS PLEASE CONTACT US BY E-MAIL.**

**CONTACT PERSON:**

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