

**Winter school on Therapeutic Ultrasound – January 31<sup>st</sup> - February 5<sup>th</sup> 2027**  
Previsional program

DATE	TIME	LECTURER	TITLE
Sunday	<i>From 3.00 pm</i>	<i>Arrival – Room keys</i>	
	<b>7.15 – 7.30 pm</b>	J.F. Aubry, G. ter Haar, V. Khokhlova	Welcome (in the conference room)
	<b>7.30 pm</b>	<i>Dinner</i>	
Monday	<b>8.45 – 9.15 am</b>	J.F. Aubry, G. ter Haar, V. Khokhlova	Overview & Introduction
	<b>9.15 – 10.00</b>	TBD	Acoustic propagation – soft tissue
	<b>10.00 – 10.45</b>	TBD	Focusing ultrasound in complex media
	<b>10.45 – 11.00</b>	<i>Coffee/tea</i>	
	<b>11.00 – 11.30</b>	TBD	Biophysics: heating, thermometry
	<b>11.30 – 12.15</b>	TBD	Biophysics: cavitation
	<b>12.30</b>	<i>Lunch</i>	
	<b>4.00 pm</b>	<i>Coffee/tea</i>	
	<b>4.30 – 5.30</b>	TBD	Basics of MR imaging and monitoring and beyond
	<b>5.30 – 6.30</b>	TBD	Basics of US imaging and monitoring and beyond
	<b>7.00</b>	<i>Welcome drink and dinner</i>	
Tuesday	<b>9.00 – 9.45 am</b>	TBD	Ultrasound transducers
	<b>9.45 – 10.30</b>	TBD	Thermal biology, thermal dose, cavitation dose
	<b>10.30 – 11.00</b>	<i>Coffee/tea</i>	
	<b>11.00 – 11.45</b>	TBD	Tumour microenvironment & physiology
	<b>11.45 – 12.15</b>	TBD	Histology for therapeutic ultrasound
	<b>12.30</b>	<i>Lunch</i>	
	<b>5.00 pm</b>	<i>Coffee/tea</i>	
	<b>5.30 – 6.15</b>	TBD	Interaction of ultrasound with blood – From hemostasis to thrombolysis
	<b>6.15 – 6.45</b>	TBD	Hyperthermia & chemo/radiotherapy
	<b>Evening</b>	<i>Glühwein lecture</i>	
Wednesday	<b>9.00 – 9.30 am</b>	TBD	Ultrasonic neurosurgery
	<b>9.30 – 10.00</b>	TBD	Neuromodulation: preclinical and technical
	<b>10.00 – 10.30</b>	TBD	Neuromodulation for psychiatric disorders
	<b>10.30 – 10.45</b>	<i>Coffee/tea</i>	
	<b>10.45 – 11.30</b>	TBD	Sonodynamic therapy
	<b>11.45 – 12.15</b>	TBD	Ultrasound mediated drug delivery
	<b>12.30</b>	<i>Lunch</i>	
	<b>5.15 pm</b>	<i>Coffee/tea</i>	
	<b>5.30 – 6.15</b>	TBD	State-of-the-art rival technologies
<b>6.15 – 7.00</b>	TBD	Innovation and clinical transfer	
	<b>7.00</b>	<i>Dinner</i>	
Thursday	<b>9.00 – 9.45</b>	TBD	Histotripsy
	<b>9.45 – 10.30</b>	TBD	Current applications in oncology
	<b>10.30 – 11.00</b>	<i>Coffee/tea</i>	
	<b>11.00 – 11.45</b>	TBD	Gene therapy
	<b>12.30</b>	<i>Lunch</i>	
	<b>4.00 pm</b>	<i>Coffee/tea</i>	
	<b>4.15 – 7.00</b>	Students presentations	
<b>Evening</b>	<i>(Table) football world cup</i>		
Friday	<b>8.45 – 9.00 am</b>	<i>Vacate your room and leave your luggage in the main building.</i>	
	<b>9.00 – 9.45</b>	TBD	Calibration & field characterization
	<b>9.45 – 10.30</b>	TBD	Experimental design: getting the physics right
	<b>10.30 – 11.00</b>	<i>Coffee/tea</i>	
	<b>11.00 – 11.45</b>	TBD	The state of field
	<b>11.45 – 12.00</b>	Closing	
	<b>12:30</b>	<i>Lunch and departure</i>	