

## ESMPE European School for Medical Physics Experts

### School for Stereotactic Radiotherapy

### 29<sup>th</sup> – 31<sup>st</sup> October 2026, Cluj, Romania

EFOMP would like to invite you to the next ESMPE on **29<sup>th</sup>-31<sup>st</sup> October 2026**. The school will be aimed at different aspects of Stereotactic Radiotherapy (SRT), including both cranial (SRS) and extracranial (SBRT) applications, from basics to treatment imaging and planning to motion management, quality assurance and image guidance. Moreover, it will cover current hot topics, such as FLASH, STAR (Cardiac Radioablation) and Multi-Mets Radiosurgery. The school will also highlight the essential role of medical physicists in clinical trials and accreditation, offering attendees a comprehensive understanding of their responsibilities in both research and clinical practice.

This two-and-half day event will be accredited by EBAMP (European Board of Accreditation for Medical Physics) and is intended for practicing clinical Medical Physicists who are involved or interested in radiotherapy. There will be an optional examination at the end for those seeking a higher level of certification beyond attendance.

ESMPE have decided this event will be in a hybrid format. All lecturers will give their talks on-site in Cluj, Romania but participants can choose if they want to attend the school on-site or online, it will be live-streamed.

***Please note: All times shown are in CET***

#### **Content**

- Introduction to and Requirements for SRT (SRS and SBRT)
- Clinical Trial Involvement, Accreditation and Audits
- Patient Preparation and Imaging
- Treatment Planning
- Quality Assurance
- Treatment Delivery
- Special Machines and Techniques
- Special Treatments

#### **Final exam**

The final exam is voluntary. Participants can gain additional credits when successfully pass the test.

#### **Organisers**

- Joao Seco (Chair of the School)
- Efi Koutsouveli (EFOMP President)
- Oliver Blanck, Lucy Winch (Scientific Chairs)

## Faculty

On Site Faculty		
Oliver	Blanck	Kiel, Germany
Lucy	Winch	Bristol, UK
Claudiu	Hopirtean	Radiation Oncologist, Romania
Stefan	Mindea	Neurosurgeon, Romania
Daniela	Schmitt	Göttingen, Germany
Patricia	Diez	Northwood, United Kingdom
Serenella	Russo	Florence, Italy
Sofie	Ceberg	Lund, Sweden
Thomas	Lacormerie	France
Joao	Seco	Heidelberg, Germany



**Thursday 29<sup>th</sup> October 2026**

	Session	Title	Description	Lecturer
08:00-09:00	Registration			
09:00-09:15	Welcome	Presentation of the ESMPE and introduction to the course		J. Seco
09:15-09:30	Introduction to the topic of SRT with SRS & SBRT	History, Terminology, and Technology for SRT	Introduction to Stereotactic Radiotherapy (SRT)	O. Blanck
09:30-09:45		Radiation Biology Rationale and Issues of Dose Prescription for SRT	Radiation Biology and Dosimetry for SRT	T. Lacomerie
09:45-10:05		Intracranial Indications for SRS	Introduction to Radiosurgery	Neurosurgeon
10:05-10:25		Extracranial Indications for SBRT	Introduction to SBRT	Rad. Oncologist
10:25-10:40		Discussion		Faculty
10:40-11:10	Coffee break			
11:10-11:30	Requirements for SRT	Procedural and Quality Requirements and Suspension Levels for SRT	Need to know how to start an SRT program	D. Schmitt
11:30-11:45		Commissioning Requirements: Formalism and Reference Protocols	Need to know on small field methodology for SRT	D. Schmitt
11:45-12:15		Credentialing and Education for SRT: A National Perspective from the UK	Ongoing national guidance, credentialing and education	P. Diez
12:15-12:30		Discussion		Faculty
12:30-14:00	Lunch break			
14:00-14:20	Risk Analysis & Management, Clinical Trials, and Patient Preparation	Risk Management for SRT	Practical approaches for risk management for SRT	S. Russo
14:20-14:40		Medical Physics Involvement in Clinical Trials: EFOMP Guidelines	Lead, design and quality assurance of clinical trials	P. Diez
14:40-15:00		Patient Immobilization and Patient Motion Management	Overview over the different strategies and techniques	S. Ceberg
15:00-15:15		Discussion		Faculty
15:15-15:45	Coffee break			
15:45-16:00	Imaging, Registration, Contouring, Margins, Dose Limits and Reporting Standards	Planning Imaging, Registration and Contouring for SRS	Requirements for multimodal imaging, registration and contour segmentation	L. Winch
16:00-16:15		Planning Imaging, Registration and Contouring for SBRT		O. Blanck
16:15-16:40		Uncertainty Margins for Non-moving and Moving Targets	Uncertainty assessment and compensation (ITV, PTV)	S. Ceberg
16:40-17:00		Dose Prescription, critical Structure Limits, and Reporting Standards	ICRU report 91 and the table on the wall	T. Lacomerie
17:00-17:15		Discussion		Faculty



**Friday 30<sup>th</sup> October 2026**

	Session	Title	Description	Lecturer
09:00-09:10	Treatment Planning: Benchmarks and Practical Tips	Summary of the Last Day		Chair
09:10-09:30		Lessons learned from large Multiplatform Benchmark Studies	User and platform harmonization	D. Schmitt
09:30-09:50		Approaches for SRS Planning: A Practical Guideline (Benign Tumors)	Tips and tricks for SRS planning	L. Winch
09:50-10:10		Approaches for SBRT Planning: A Practical Guideline (Lung)	Tips and tricks for SBRT planning	T. Lacornerie
10:10-10:30		Approaches for SBRT Planning: A Practical Guideline (Prostate)	Tips and tricks for SBRT planning	O. Blanck
10:30-10:45		Discussion		
10:45-11:15	Coffee break			
11:15-11:40	Treatment Planning: Special Cases	Single Isocenter Multi-Brain Metastases Planning and Quality Assurance	Tips and tricks for single Isocenter planning	S. Russo
11:40-12:00		Spatial-Temporal Fractionation for SRS and Quality Assurance	Complex intracranial SRS planning	L. Winch
12:00-12:15		Simultaneous Integrated Boost and Protection Concepts (SIB/SIP)	Complex extracranial SBRT planning	O. Blanck
12:15-12:30		Discussion		
12:30-14:00	Lunch break			
14:00-14:20	Quality Assurance	Machine Specific Quality Assurance: From Daily Checks to End-2-End Tests	QA requirements and options for SRT systems	D. Schmitt
14:20-14:40		Patient Specific Quality Assurance for Very Small Targets (Detector-based)	Overview of procedures and recommended detectors for small fields	S. Russo
14:40-15:00		Patient Specific Quality Assurance in routine practise (Calculation-based)	Overview of procedures over secondary dose calculation systems	S. Russo
15:00-15:15		Quality Assurance for SBRT Motion Compensation Systems (Phantoms)	Overview of motion phantoms and procedures	O. Blanck
15:15-15:30		Discussion		
15:30-16:00	Coffee break			
16:00-17:15	Case Management	Image Integration, Auto Contouring and Multi-/Re-Treatment Management with various Systems and Techniques		See virtual agenda (TBD)
17:15-17:30		Discussion		
	Visit Cluj - Social Gathering			



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**Saturday 31<sup>st</sup> October 2026**

	Session	Title	Description	Lecturer
09:00-09:10	Image Guidance, Treatment Delivery and Plan-Adaptation	Summary of the Last Day		Chair
09:10-09:30		Interfraction Image Guidance and Adaptation for SRS	Practical aspects and pitfalls of in-room and out-of-room motion monitoring and position/plan adaptation	L. Winch
09:30-09:50		Intrafraction Motion Monitoring and Compensation for SRT		Sofie
09:50-10:10		Online Plan-Adaptation: From Daily Imaging to Quality Assurance to One-Stop-Shop		Thomas
10:10-10:20		Discussion		Faculty
10:20-10:50	Coffee break			
10:50-11:10	Special Topics	Potential of Proton Radiotherapy and FLASH for SBRT	Overview of proton FLASH: Basic and preclinical studies and clinical implementation	J. Seco
11:10-11:30		TBD	TBD	TBD
11:30-11:50		Stereotatic Arrhythmia Radioablation (STAR)	Overview of STAR: Rational, techniques and clinical effects and results	O. Blanck
11:50-12:00		Discussion		Faculty
12:00-13:00	Final examination			



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Course language	English
Level	Medical Physics / Medical Physics Expert
Registration fee* (2 main meals, 5 coffee breaks, 1 social event)	400 € (*VAT included)
Reduced registration fee* · subsidized by EFOMP · first-come, first-served policy	200 € (*VAT included) - for the first 40 participants (max. 3 from one country) coming from the following European countries: Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Estonia, Greece, Hungary, Latvia, Lithuania, Moldova, North Macedonia, Poland, Portugal, Serbia, Slovak Republic, Spain, Ukraine. 200 € (*VAT included) - for 30 young persons (under 35y)
Maximum number of on-site/online participants	120/No limit
Duration	29th-31st October 2026
Study load	20 hours of lectures and case examples, 1h optional exam
Venue	Cluj, Romania
Accommodation	Participants book their own accommodation
Information, programme at:	<a href="http://www.efomp.org">www.efomp.org</a>
Registration	Electronic registration via <a href="http://www.efomp.org">www.efomp.org</a>
Registration period	Closes on 22 <sup>nd</sup> of October 2026

\* payment must be done in 7 days following the pre-registration, otherwise pre-registration will be cancelled and neither free place nor subsidized or ordinary fee can be granted for repeated registration

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