NEW!
ADVANCED SKILLS FOR TREATMENT DELIVERY
09-12 February 2014
Amsterdam, the Netherlands

MULTIDISCIPLINARY TEACHING COURSE ON PROSTATE CANCER
23-27 February 2014
Amsterdam, the Netherlands

CLINICAL PARTICLE THERAPY
23-27 February 2014 | Nice, France

UNDERSTANDING AND MANAGEMENT OF MORBIDITY
Postponed to 2015

ADVANCED TECHNOLOGIES
07-11 March 2014 | Amman, Jordan

MODERN BRACHYTHERAPY TECHNIQUES
09-12 March 2014 | Galanik, Poland

DOSE MODELLING AND VERIFICATION FOR EXTERNAL BEAM RADTHERAPY
09-13 March 2014 | Prague, Czech Republic

ESTRO 33 PRE-MEETING COURSES
04 April 2014 | Vienna, Austria

PHYSICS FOR MODERN RADIOTHERAPY: A JOINT COURSE FOR CLINICIANS AND PHYSICISTS
04-08 May 2014 | Madrid, Spain

EVIDENCE AND NEW CHALLENGES IN RECTAL CANCER
08-11 May 2014 | Prague, Czech Republic

TARGET VOLUME DETERMINATION - FROM IMAGING TO MARGINS
16-18 May 2014 | Tokyo, Japan

ADVANCED BRACHYTHERAPY PHYSICS
19-21 May 2014 | Brussels, Belgium

BASIC CLINICAL RADIOBIOLOGY
23-25 May 2014 | Istanbul, Turkey

EANM/ESTRO EDUCATIONAL SEMINAR
POSITRON/EMISSION TOMOGRAPHY (PET) IN RADIATION ONCOLOGY
30-31 May 2014 | Brussels, Belgium

IMRT AND OTHER CONFORMAL TECHNIQUES IN PRACTICE
09-12 June 2014 | Torino, Italy

COMBINED DRUG-RADIATION TREATMENT: BIOLOGICAL BASIS, CURRENT APPLICATIONS AND PERSPECTIVES
09-12 June 2014 | St. Petersburg, Russia

BRACHYTHERAPY FOR PROSTATE CANCER
08-21 June 2014 | Dublin, Republic of Ireland

COMPREHENSIVE QUALITY MANAGEMENT IN RADIOTHERAPY - RISK MANAGEMENT & PATIENT SAFETY
26-29 June 2014 | Poznan, Poland

BIOMICLICAL BASIS OF PERSON-ALISED RADIATION ONCOLOGY
20 June - 02 July 2014 | Brussels, Belgium

MULTIDISCIPLINARY MANAGEMENT OF HEAD AND NECK ONCOLOGY
20 June - 02 July 2014 | Athens, Greece

ACCELERATED PARTIAL BREAST IRRADIATION
06-09 September 2014 | Barcelona, Spain

CLINICAL PRACTICE AND IMPLEMENTATION OF IMAGE-GUIDED STEREOTACTIC BODY RADIOTHERAPY
07-11 September 2014 | Florence, Italy

IMAGING COURSE FOR PHYSICISTS
16-20 September 2014 | Budapest, Hungary

BASIC TREATMENT PLANNING BACK TO BACK WITH ADVANCED TREATMENT PLANNING
16-20 September 2014 | Budapest, Hungary

ADVANCED TREATMENT PLANNING BACK TO BACK WITH BASIC TREATMENT PLANNING
23-25 September 2014 | Budapest, Hungary

IMAGE-GUIDED RADIOTHERAPY AND CHEMOTHERAPY IN GYNAECOLOGICAL CANCER - FOCUS ON ADAPTIVE BRACHYTHERAPY
28 September - 02 October 2014 | Florence, Italy

EVIDENCE-BASED RADIATION ONCOLOGY - A CLINICAL REFRESHER COURSE WITH A METHODOLOGICAL BASIS
03-10 October 2014 | Vienna, Austria

ADVANCED TECHNOLOGIES
19-23 October 2014 | Chennai, India

BEST PRACTICE IN RADIATION ONCOLOGY - A WORKSHOP TO TRAIN RTT TRAINERS IN COLLABORATION WITH THE IAEA PART II: TRAIN THE RTT TRAINERS
20-24 October 2014 | Vienna, Austria

COMBINED DRUG-RADIATION TREATMENT: BIOLOGICAL BASIS, CURRENT APPLICATIONS AND PERSPECTIVES
02-05 November 2014 | Varna, Bulgaria

ESOR/ESTRO COURSE: MULTIDISCIPLINARY APPROACH OF CANCER IMAGING
06-08 November 2014 | Maastricht, the Netherlands

3rd MASTERCLASS IN RADIATION ONCOLOGY
09-12 November 2014 | Lisbon, Portugal

TARGET VOLUME DETERMINATION - FROM IMAGING TO MARGINS
09-13 November 2014 | Vienna, Austria

MULTIDISCIPLINARY TEACHING COURSE ON LUNG CANCER
28-30 November 2014 | Guangzhou, China

IMAGE-GUIDED RADIOTHERAPY IN CLINICAL PRACTICE
30 November - 04 December 2014 | Brno, the Czech Republic

QUANTITATIVE METHODS IN RADIATION ONCOLOGY: MODELS, TRIALS AND CLINICAL OUTCOMES
07-10 December 2014 | Vienna, Austria

www.estro.org/school
**COURSE DIRECTORS**
Christine Haie-Meder (FR)
Richard Potter (AT)

**TEACHERS**
Daniel Berger (AT)
Johannes Dimopoulos (GR)
Umesh Mahantshetty (IN)
Taran Paulsen-Hellebust (NO)
Primoz Petric (QA)
Peter Petrow (FR)
Kari Tanderup (DK)
Ina Jürgenliemk-Schulz (NL)

**LOCAL ORGANISER**
Lorenzo Livi

**GUEST LECTURERS**
Massimiliano Fambrini (IT)
Vieri Scotti (IT)

**PROJECT MANAGER**
Melissa Vanderijst

**TARGET GROUP**
The course is aimed at Radiation and Gynaecological Oncologists, Medical Physicists and Radiation Technologists involved in Gynaecological tumour treatments, interested in the implementation of advanced concepts and techniques. A basic knowledge of Gynaecological Oncology is required.

**EDUCATIONAL PROGRAMME**
- Normal and pathologic anatomy of female pelvis
- Image based anatomy including US, CT and MRI
- CTV/ITV for external irradiation
- GTV, CTV, PTV at diagnosis and at time of brachytherapy
- Combination of external irradiation and brachytherapy
- Different application techniques in brachytherapy, including endocavitary and interstitial techniques
- Image requirements for irradiation
- Treatment planning: a. Conventional external irradiation techniques based on X-rays; b. Conventional brachytherapy techniques, based on standard and individual loading patterns using point doses, including point A and ICRU reference points; c. Advanced techniques including conformal external irradiation and IMRT; d. Advanced techniques in brachytherapy, including individual loading patterns based on images
- Image based dose volume assessment applying DVH parameters
- Dose volume constraints for CTVs and organs at risk
- Dose, dose-rate and fractionation and overall treatment time
- HDR, PDR, MDR, and LDR equivalences
- Radiobiological effects from combined external irradiation and brachytherapy, linear quadratic model
- Prescribing, recording and reporting including ICRU and GEC-ESTRO recommendations
- Nodal dose evaluation, including external irradiation and brachytherapy
- Nodal and parametrical boosts
- EMBRACE study
- Therapeutic outcome: radiochemotherapy, image based EBRT and brachytherapy
- Principles and Practice of evidence-based medicine in Gynaecologic Radio-Oncology
- Delineation examples: external irradiation and brachytherapy
- Treatment Planning Workshops
- Possibility to participate in additional web-based contouring training before and after the course

**COURSE AIM**
- To provide a comprehensive overview on the whole field of Gynaecological Radiation Therapy focussing on Brachytherapy and External Irradiation in Cervix Cancer, Endometrial Cancer and Vaginal Cancer
- To provide an overview on evidence-based medicine (concomitant chemoradiation)
- To provide an overview on traditional approach in Gynaecological Brachytherapy and External Irradiation
- To learn to know about advanced image-based techniques including IMRT and optimization process in brachytherapy using stepping source technology
- To introduce image-based concepts of GTV, CTV and PTV in Gynaecological Radiation Oncology including both External Irradiation and Brachytherapy (with adaptation during 4D treatment)
- To enable practical implementation of advanced concepts and techniques in Gynaecological External Irradiation and Brachytherapy.

**LANGUAGE**
The course is conducted in English. No simultaneous translation will be provided.

**PRACTICAL ORGANISATION**

**COURSE ORGANISATION**
For any further information please contact ESTRO:

Melissa Vanderijst
mvanderijst@estro.org
+32 2 779 54 94

**ADVANCE REGISTRATION AND PAYMENT ARE REQUIRED. ON-SITE REGISTRATION WILL NOT BE AVAILABLE.**

Since the number of participants is limited, late registrants are advised to contact the ESTRO office before payment, to inquire about availability of places. Access to homework and/or course material will become available upon receipt of full payment.

**REGISTRATION FEES**

<table>
<thead>
<tr>
<th>Category</th>
<th>Before 30/06/14</th>
<th>After 30/06/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non members</td>
<td>750 €</td>
<td>850 €</td>
</tr>
<tr>
<td>Members</td>
<td>600 €</td>
<td>725 €</td>
</tr>
<tr>
<td>In-training members*</td>
<td>450 €</td>
<td>625 €</td>
</tr>
</tbody>
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* RTT members are eligible for the in training fee.

The fee includes the course material, coffees, lunches, and the social event.

**REDUCED FEES** are available for ESTRO members working in economically less competitive countries. Check the eligible countries and the selection criteria on the website of the ESTRO School.

**ESTRO GOES GREEN** - Please note that the course material is now distributed on a USB key. No printed course book will be provided during the courses.

**TECHNICAL EXHIBITION**
Companies interested in exhibition opportunities during this teaching course should contact:
Melissa Vanderijst, Project Manager
mvanderijst@estro.org
+32 2 779 54 94

**ACCOMMODATION**
To book your room, please download the accommodation form from the ESTRO website:
www.estro.org/school

This course is using the FALCON platform for the contouring exercises

**INFORMATION**
- To enable practical implementation of advanced concepts and techniques. A basic knowledge of Gynaecological Oncology is required.
- To provide an overview on traditional approach in Gynaecological Brachytherapy and External Irradiation in Cervix Cancer, Endometrial Cancer and Vaginal Cancer
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