### Program Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Session #1</th>
<th>Session #2</th>
<th>Session #3</th>
<th>Session #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16 June 2010</td>
<td>8.30 - 9.30</td>
<td>10.45 - 11.30 Registration</td>
<td>14:00 - 14:45 Lunch</td>
<td>15:45 - 16.30 QC of CT, MR, and PET-CT scanners for Radiation Therapy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9:30 - 10.30</td>
<td>Opening Ceremony</td>
<td>Break</td>
<td>16.30 - 17.15 QA and QC of TPS (SV)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>The transition from 2D to 3D and to IMRT - rationale and critical elements (YP)</td>
<td>Lunch Break</td>
<td>Reception</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tools for evaluation of treatment plans in 3D-CRT and in IMRT and their QC (YP)</td>
<td>MC calculations using the Fortran based EGSnrc system under WINDOWS - a simplified approach (GH)</td>
<td>Practical - Use of treatment planning software</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Coffee Break 15 min.</td>
<td>Practical - Use of treatment planning software and visit to a radiotherapy department</td>
<td>Practical - VMAT pretreatment QC</td>
</tr>
<tr>
<td></td>
<td>17 June 2010</td>
<td></td>
<td>QA and QC of Record &amp; Verify systems (SV)</td>
<td>Tea Break</td>
<td>Tea Break</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Advanced Methods of treatment planning/Monte Carlo algorithms (JC)</td>
<td>Tea Break</td>
<td>Tea Break</td>
</tr>
<tr>
<td></td>
<td>18 June 2010</td>
<td></td>
<td>Management of Imaging Dose during Image Guided Radiation Therapy – AAPM Report #65 (MM)</td>
<td>Tea Break</td>
<td>Tea Break</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IMRT/VMAT commissioning and QC (EL)</td>
<td>Practical - Use of treatment planning software</td>
<td>Practical - VMAT pretreatment QC</td>
</tr>
<tr>
<td></td>
<td>19 June 2010</td>
<td></td>
<td>Light ion beam radiotherapy technology development (SV)</td>
<td>Tea Break</td>
<td>Tea Break</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dosimetry and QA of light ion beams (SV)</td>
<td>Tea Break</td>
<td>Tea Break</td>
</tr>
<tr>
<td></td>
<td>20 June 2010</td>
<td></td>
<td>Course evaluation &amp; Closing ceremony</td>
<td>Tea Break</td>
<td>Dosimetry audits in radiotherapy (JI)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FREE TIME</td>
<td>Radiation Safety, Shielding Design, and Radiation Surveys (RW)</td>
<td>Old Town excursion &amp; Gala Dinner</td>
</tr>
</tbody>
</table>

**Day 1:**
- Registration
- Opening Ceremony
- The transition from 2D to 3D and to IMRT - rationale and critical elements (YP)
- Tools for evaluation of treatment plans in 3D-CRT and in IMRT and their QC (YP)

**Day 2:**
- Clinical dosimetric measurements - small field dosimetry (JC)
- Commissioning and QA of Imaging equipment in Radiation Therapy, TG 179, (MM)
- Tools for evaluation of treatment plans in 3D-CRT and in IMRT and their QC (YP)
- Advanced Methods of treatment planning/Monte Carlo algorithms (JC)

**Day 3:**
- What is next in radiotherapy? (GH)
- Adaptive radiotherapy: rationale and current approaches (EL)
- MC calculations using the Fortran based EGSnrc system under WINDOWS - a simplified approach (GH)
- Management of Imaging Dose during Image Guided Radiation Therapy – AAPM Report #65 (MM)
- Light ion beam radiotherapy technology development (SV)

**Day 4:**
- Comprehensive audits in Radiotherapy (JI)
- The harmonisation of the role of medical physics within Europe: a challenge or an impossibility? (MP)
- Light ion beam radiotherapy technology development (SV)

**Day 5:**
- Course evaluation & Closing ceremony
- Comprehensive audits in Radiotherapy (JI)
- The harmonisation of the role of medical physics within Europe: a challenge or an impossibility? (MP)

---

**Speakers:**
- Raymond Wu, Ph.D. (AAPM)
- Mahadevappa Mahesh, MS, Ph.D (AAPM)
- Johns Hopkins University School of Medicine, Baltimore, MD, USA
- Yakov Pipman, D.Sc. (AAPM)
- Florida State University, Tallahassee, Florida, USA
- Stanislav Vatnitsky, Ph.D. (AAPM)
- EBG MedAustron, Wiener Neustadt, Austria
- Joanna Cygler, Ph.D. (AAPM)
- The Ottawa Hospital Cancer Centre, Ottawa, Ontario, Canada
- Günter Hartmann, Ph.D. (EFOMP)
- German Cancer Research Center, Heidelberg, Germany
- Marta Painisco, Ph.D. (EFOMP)
- Arcispedale Santa Maria Nuova, Reggio Emilia, Italy
- Joanna Izewska, Ph.D. (IAEA)
- Johns Hopkins School of Medicine, Baltimore, MD, USA
- Eugene Lief, PhD (course director, AAPM)
- White Plains Hospital, Pelham, NY, USA
- Medical Physics and Dosimetry Section, International Atomic Energy Agency, Vienna, Austria
- North Estonia Medical Centre, Tallinn, Estonia