

NACP2008 programme

Wednesday June 4, 2008

- 11:30 - 12:30 **Registration**
- 12:30 - 12:45 **Opening of NACP2008**
Ludvig Paul Muren
Chairman of NACP2008 Scientific Committee
Søren Holm
Chairman of DSMF
- 12:45 - 13:30 **Session 1**
Steve Webb, Royal Marsden Hospital, London
The contribution, history, impact and future of physics in medicine
Chairpersons: Søren Holm and Dag Rune Olsen
- 13:30 - 14:15 **Session 2**
Martin Bech, Niels Bohr Institute, Copenhagen
X-ray phase-contrast and dark-field imaging
Chairpersons: Hilde Olerud and Jolanta Hansen
- 14:15 - 14:30 **Coffea break**
- 14:30 - 15:15 **Session 3 - Highlights of the proffered papers**
DMLC tracking: Enabling technology for motion management in rotational therapy (9')
Jens Zimmerman
Rigshospitalet, Copenhagen
Characteristics of a flattening filter free photon beam-Measurements and Monte Carlo simulations (9')
Mårten Lind
Lund University Hospital
A quantification of the influence of organ motion on conformal versus intensity-modulated pelvic radiotherapy for prostate cancer based on the generalized Equivalent Uniform Dose (9')
Liv B Hysing, Haukeland University Hospital, Bergen / University Hospital for Radiation Oncology, Tübingen
Multispectral analysis of multimodal images (9')
Yngve Kvinnsland
University of Bergen
A robust dual cardiac-respiratory gating method for a PET/CT scanner (9')
Mika Teräs
Turku PET Centre
Chairpersons: Søren Baarsgaard Hansen and Carsten Brink
- 15:15 - 16:00 **Session 4**
Poster viewing and visit of the industry exhibition
- 16:00 - 16:15 **Coffea break**
- 16:15 - 17:00 **Session 5 - Award session**
Varian-NACP grant 2007
Intensity-modulated radiotherapy for Total Body Irradiation (8')
Flemming Kjær-Kristoffersen
Rigshospitalet, Copenhagen
NFMF PhD award 2007
Biologically adapted radiotherapy and evaluation of non-uniform dose distributions (8')
Åste Søvik
University of Oslo
NFMF award for professional activity 2007 (8')
Anne Catrine Trægde Martinsen
Ullevål University Hospital, Oslo

DSMF young physicist award 2008

Accuracy of image-guided radiotherapy of prostate cancer based on the BeamCath urethral catheter technique (8')

Per Rugaard Poulsen

Aarhus University Hospital

Presentation of the awardees of the Varian-NACP grant 2008, the Siemens-NACP grant and the NACP2008 Best poster award

Chairpersons: Rune Hafslund and Søren Holm

17:05 - 18:30

General assemblies - DSMF and NFMF

19:00 -

Dinner party

Thursday June 5, 2008

8:00 - 8:45	<p>Session 6a</p> <p><i>Normal tissue complication probability models and data</i> Giovanna Gagliardi Karolinska Hospital, Stockholm</p> <p>Chairpersons: Jomar Frengen and Ludvig Paul Muren</p>	<p>Session 6b</p> <p><i>Magnetic tomography - New imaging techniques and future perspectives</i> Kjell Inge Gjesdal Sunnmøre MR Clinic, Ålesund</p> <p>Chairpersons: Yngve Kvinnsland and Søren Haack</p>	<p>Session 6c</p> <p><i>Integrated modality imaging with PET/CT and SPECT/CT: Pitfalls and image artefacts</i> Gustav K von Schulthess University of Zurich</p> <p>Chairpersons: Mika Teräs and Markus Nowak Lonsdale</p>
8:45 - 9:30	<p>Session 7a</p> <p><i>The dielectric wall accelerator for protons</i> Rock Mackie University of Wisconsin, Madison</p> <p>Chairpersons: Per Nilsson and Jørgen Petersen</p>	<p>Session 7b</p> <p><i>The computerized radiologist - Automated medical image analysis</i> Rasmus Larsen Technical University of Denmark, Copenhagen</p> <p>Chairpersons: Anne Catrine T Martinsen and Jolanta Hansen</p>	<p>Session 7c</p> <p><i>High-dose radioimmuno-therapy with Zevalin, dosimetric aspects</i> Katarina Sjögreen Gleisner Lund University</p> <p>Chairpersons: Lars Jødal and Theis Bacher</p>
9:30 - 10:00	<p>Coffea break</p>		
10:00 - 10:50	<p>Session 8a - Radiotherapy</p> <p><i>The feasibility of using the Pareto front for comparison of treatment planning systems and delivery techniques (10')</i> Rickard Ottosson University Hospital Herlev / Lund University Hospital</p> <p><i>Normal tissue sparing using simultaneous treatment of bladder and lymph nodes with IMRT (10')</i> Ludvig Paul Muren Aarhus University Hospital</p> <p><i>Dosimetric verification of RapidArc treatment delivery (10')</i> Stine Korreman Rigshospitalet, Copenhagen</p> <p><i>Testing and pre-clinical evaluation of the COMPASS system for on-line dose verification (10')</i> Karsten Eilertsen The Norwegian Radium Hospital, Oslo</p> <p><i>Respiratory movement of abdominal organs for pancreatic cancer patients (10')</i> Christian Rønn Hansen Odense University Hospital</p> <p>Chairpersons: Eirik Malinen and Ole Nørrevang</p>	<p>Session 8b - Radiology</p> <p><i>The analysis of current practice of multislice CT examinations (10')</i> Jolanta Hansen Aarhus University Hospital</p> <p><i>Quantitative assessment of hepatic perfusion using dynamic CT: Accuracy and precision studied in pigs (10')</i> Ole Munk Aarhus University Hospital</p> <p><i>Automatic dose modulation in CT -challenges and gain (10')</i> Anne Catrine T. Martinsen Ullevål University Hospital, Oslo</p> <p><i>Technical information in digital images (10')</i> Hans-Erik Källman Center for Clinical Research, Falun</p> <p><i>Calibration of Reference DAP meters at an SSDL and Cross-calibration of Clinical DAP meters (10')</i> Hans Bjerke Norwegian Radiation Protection Authority, Østerås</p> <p>Chairpersons: Jacob Geleijns and Erik Andersen</p>	<p>Session 8c - Nuclear medicine and radiation protection</p> <p><i>Improved resolution in the HRRT brain scanner using estimated PSF (10')</i> Søren Holm Rigshospitalet, Copenhagen</p> <p><i>Use of the finite number of most intense pixels ROI to quantify changes in repeated bone studies (10')</i> Arne Skretting Rikshospitalet University Hospital, Oslo</p> <p><i>The assay of Iodine-123 revisited (10')</i> Markus Nowak Lonsdale Bispebjerg Hospital, Copenhagen</p> <p><i>Beta emitters and radiation protection (10')</i> Lars Jødal Aalborg Hospital</p> <p><i>Review of recent national surveys of population exposure from medical x-rays in Europe and guidance on the methodology for future surveys (10')</i> Hilde Olerud Norwegian Radiation Protection Authority, Østerås</p> <p>Chairpersons: Arne Skretting and Søren Baarsgaard Hansen</p>
11:00 - 12:15	<p>Session 9</p> <p><i>The future of physics in medicine and biology</i> Robert Jeraj University of Wisconsin, Madison</p> <p>Panel discussion with Dag Rune Olsen, Tore Lindmo, Mats Nilsson, Mika Teräs and Søren Holm</p> <p>Chairperson: Steve Webb</p>		

12:15 - 12:45

Closing of NACP2008 - Current NACP projects

NACP: The past, the present and the future

Rune Hafslund, President of NACP

Haukeland University Hospital, Bergen

NACP recommended guidelines for CPD schemes in the nordic countries

Simo Hÿodynmaa, member of CPD task group

University of Kuopio

NACP2008 participants will have free access to the Thursday afternoon sessions at IGRT2008.