MEDICAL PHYSICS IN THE BALTIC STATES
13TH CONFERENCE & WORKSHOP PROGRAM (UPGRADED)

Thursday, 9 November 2017

WORKSHOP: Possibilities and innovations in External Radiotherapy

Hosting institution: Republican Šiauliai Hospital, Radiotherapy Department, Darželio str. 10, Šiauliai

13.30-14.00 Registration of participants at Republican Šiauliai Hospital, Radiotherapy Department, Darželio str. 10, Šiauliai

14.00-14.15 Welcome to the Republican Šiauliai Hospital, Radiotherapy Department
14.15-14.30 Genadij Aleksejenko, Karolis Jakštas (Republican Šiauliai Hospital, Radiotherapy Department). New trends and improvements in Radiotherapy department in Republican Šiauliai Hospital.
14.30-15.00 Lars G Lilja (C-RAD Positioning AB) Catalyst HD – Surface Tracking System for Positioning, Motion control and Gating.
15.00-15.15 Romas Vilkas, Rasa Dagienė (Klaipėda University Hospital) Brachytherapy in Klaipėda University Hospital.
15.30-16.00 Ramune Ulrich (LAP GmbH Laser) News in LAP product portfolio: easy water family phantoms for QA in radiotherapy
16.00-16.30 Visit to the Radiotherapy Department (Head of department Jonas Gečas)

Coffee break 16:30-17.00
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Friday, 10 November 2017

8.30-9.30 Registration of participants at Kaunas University of Technology, Studentų str. 50–325F, Kaunas

9.30-9.45 Conference opening: Giedrius Laukaitis, Head of Physics Department, Sören Mattsson, Lund University, Skåne University Hospital Malmö, Diana Adlienė, Kaunas University of Technology

9.45-10.00 Judita Puišo. Department of Physics: 95 years with the University of Lithuania

Session 1. Chair: prof. Diana Adlienė

10.00-10.30 Sören Mattsson. ICRP project "Radiological protection in therapy with radiopharmaceuticals".


10.45-11.00 Romualdas Griskevicius, Rita Steponaviciene, Saulius Cicenas, Jonas Venius. Sparing of perfusion active regions during lung radiotherapy can improve patients quality of life.


Coffee break 11:45-12.00

Session 2. Chair: Judita Puišo

12.00-12.15 Martin Andersson, Lars Herrnsdorf, Sören Mattsson. IDAC-CAD2VOX - a software for radiation protection calculations for the ICRP reference phantoms which are in an environment described by detailed CAD drawings.

12.15-12.30 Aleksandras Ševčik, Diana Adlienė. Monte Carlo simulated dose distribution in a human voxel phantom from diagnostic X-ray with visualisation.


Time for the lunch 13:15 – 14:15
Session 3. Chair: Kalle Kepler


15.00-15.15 Marijus Astrauskas, Marius Burkanas, Arijanda Neverauskienė, Jonas Venius. Optimisation of low dose computed tomography protocol for diagnostics of developmental dysplasia of the hip using a phantom based noise simulation approach.

15.15-15.30 Alvar Aasna, Mait Nigul, Kalle Kepler. Adaptation of ECG-gated non-contrast enhanced magnetic resonance angiography trigger delay technique for patients with high heart rate.

15.30-15.45 Sofie Ceberg, Diana Adliene and Sören Mattsson. 3D polymer gel dosimetry for quality assurance in radiation therapy.


Coffee break 16.00-16:15

Session 4. Chair: Aleksandr Vodovatov


16.45-17.00 Tadas Didžvalis, Paulius Ruzgys, Saulius Šatkauskas, Diana Adliene, Saulius Mickevičius. Cell viability, DNA damage and relative mitotic arrest dependance on ionising radiation dose.

17.00-17.15 Miglė Staliulionytė, Paulius Ruzgys, Darius Germanas, Saulius Mickevičius. Evaluation of low-dose neutron irradiation impact on CHO cells.


17.30-17.45 Florentina Sederavičiūtė, Jurgita Domskienė, Judita Pušo, Viktorija Vaitkevičienė. Influence of drying temperature on mechanical properties of bacterial cellulose.

19:00 -22:00 Get-together party

EUROPA ROYALE HOTEL KAUNAS,
Miško g. 11, Kaunas
MEDICAL PHYSICS IN THE BALTIC STATES
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Saturday, 11 November 2017

9.30 -10.00 Registration of participants at Kaunas University of Technology, Studentų str.50-325F, Kaunas.

Session 5. Chair: Ilia Shatskii

10.00-10.15 Varmo Ernits, Kalle Kepler, Anatoli Vladimirov. Quantitative quality control measurements of a diagnostic digital x-ray image detector.

10.15-10.30 Kirill Skovorodko, Birute Griciene, Milda Petkelyte. Comparison of personnel radiation monitoring dosimeters designed for medical field.

10.30-10.45 Christian Bernhardsson, Lovisa Waldner, Aleksandr Vodovatov. Advancements in prospective dosimetry with NaCl read-out by Optically Stimulated Luminescence.

10.45-11.00 Benas Gabriulis Urbonavičius. Surface plasmon resonance based dosemeter for fixed geometry measurements in situ

11.00-11.15 Evelina Jaselskė, Diana Adlienė, Viktoras Rudžianskas, Erika Korobeinikova. Dosimetric characteristics of 3D printed materials

Coffee break 11:15 -11.45

POSTERS: Kęstutis Akelaitis, Violeta Nevulis-Obuchovska, Jonas Venius. Interstitial brachytherapy for cervical cancer - a way to better target dose coverage.

Virgilijus Minialga, Robertas Samavičius. Modelling of diamagnetic levitation control of pyrolytic graphite.

Justė Lazauskaitė, Arvydas Kanapickas. Extremely low frequency electric and magnetic fields in passenger cars.

Viktorija Juškaitė. ICT use in the carers’ work: technostress.

Session 5. Chair: Larisa Chipiga


12.00-12.15 Severina Paukštytė, Benas Gabriulis Urbonavičius. TLD dose response in different radiation beam qualities.

12.15-12.30 Diana Adlienė. Recognition of medical physicists as health professionals in Lithuania

12.30-13.00 Sören Mattsson. Fresh impressions from Fukushima, Asia-Oceania Nuclear medicine in Yokohama and National Institute of Radiological Sciences in Chiba.

13.00-13.15 Final remarks: prof. Sören Mattsson