

WP 8 Communication and dissemination for promoting hadron-therapy research facilities to end-users

Pawel Olko and Michael Waligorski

IFJ PAN and COOK, Kraków, Poland

IFJ PAN -Institute of Nuclear Physics, Polish Academy of Sciences, Radzikowskiego 152 31-342 Kraków, Poland COOK - The Maria Skłodowska-Curie Institute, Centre of Oncology Kraków Dividion, Garncarska 11, 31-115 Kraków Poland







Proton radiotherapy at the Institute of Nuclear Physics, IFJ PAN, in Krakow, Poland

First 15 patients have been treated on 60 MeV proton beam from AIC-144 cyclotron



230 MeV IBA cyclotron is operational in the new IFJ PAN facility
Scanning gantry will be commissioned in 2014









ENLIGHT

- the platform for hadron radiotherapy





- established in 2002 to coordinate European efforts in hadron radio therapy
- >400 participants, 25 European countries
- umbrella over 4 projects







ULICE - Union of Light Ion Centres in Europe

Addresses two main issues:

Development of instruments for high-performance hadron therapy

Collaboration among the existing and planned centres



ARC|AUH,AS|CERN|CNAO|ESTRO|ETOILE|GSI| IBA|IFJPAN|INFN|KI|MEDA|MUW|RUNMC|SAG|TUD|UCL|UKL-HD|UNIMAR|UOXF







Union of Light Ion Centres in Europe

WP-8: Main goal of this work package: to promote ULICE activities to ENLIGHT community

Participants: CERN, CNAO, ESTRO, IFJ PAN







Physical and Biological Basis of Hadron Radiotherapy Krakow, Poland, 3 -4 September, 2011



Physical and biological basis of hadron radiotherapy Satellite symposium of the 14th International Congress of Radiation Research Kraków, Poland, 2 – 3 September, 2011

Science as a public duty - following the ideas and work of Maria Skłodowska-Curie

Home
Organizing Committee

Scientific Committee

Programme

Important Dates

Registration

Abstract Submission

Payment

Veni

Accommodation

Visa Requirement

Contacts

Link



It is our pleasure to invite you to participate in our workshop entitled **Physical and biological basis of hadron radiotherapy**, a satellite event of the **14th International Congress of Radiation Research (ICRR-2011)**. Our Workshop will be held in Krakow, Poland, on the 2nd September to 3rd September 2011, at the Collegium Novum of the Jaqiellonian University.

The Workshop organized, jointly by the Institute of Nuclear Physics of the Polish Academy of Sciences and the Polish Radiation Research Society, will provide its participants with an opportunity to informally discuss current topics in proton and carbon radiotherapy, clinical aspects of ion radiotherapy, ion beam dosimetry, unwanted patient exposure, radiobiology for ion radiotherapy and other relevant subjects.

In 2013 in Krakow the new proton therapy centre based on the IBA C-235 cyclotron will complement our existing proton eye radiotherapy facility. The Workshop participants will be also invited to discuss issue of design, acceptance and commissioning of new ion beam facilities.

We look forward to seeing you in Krakow at our Workshop!

Organizing institutions:

Symposium is held under the auspices of:





Research Society







The Mayor of City of Krako Stanisław Kracik Rector of the The Governor Jagiellonian Univers of Malopolska A satellite event accompanying the 14th International Congress of Radiation Research, Warsaw, Poland, August 28 – September 1, 2011 www.icrr2011.org

Topics discussed:

- clinical aspects of ion radiotherapy
- ion beam dosimetry,
- -unwanted patient exposure
- radiobiology for ion radiotherapy

95 participants



http://icrr2011.satellitekrak.ifj.edu.pl/htherapy/





Physical and Biological Basis of Hadron Radiotherapy Krakow, Poland, 3 -4 September, 2011









The ULICE project is co-funded by the <u>European Commission under FP7</u> Grant Agreement Number 228436.







ASEPS is a platform to forge Asia-Europe physics programme strategies by discussing the scientific priorities and possible shared contributions to large scale infrastructures or networks in an Asia-Europe cooperation framework.

ASEPS promotes synergies between different fields of physics and between physics and other research fields: biology and health, environment, energy – including hadrontherapy









- •Presentation of Manjit Dosanjh From Particle Physics to Health, Collaborate or die.....
- Poster P.Olko, M. Waligorski
- Distribution of leaflets with the poster









ENLIGHT Highlights 10 years on





IT SEEMS LIKE YESTERDAY, AND YET TEN YEARS HAVE PASSED SINCE OUR NETWORK WAS LAUNCHED.

At the time, the establishment of a multidisciplinary for keeping as all connected as the network expands like a dream. And indeed, it has not always been easy; but looking at the size, cohorton, and scientific impact of ENLIGHT today, it was definitely worth it.

collaborations. In 2012, we can affirm that ENLIGHT views across to the not of the community has fulfilled that need, acting as an essential catalyst for partnerships among different disciplines, research institutes, and countries. New challenges he ahead of us: we started planning for the future at the meeting in Marburg last year, and we will refine our strategy in Pavia in September.

Scientific potential was turned into mality by the enthustasm and energy of the people involved. From sentor researchers to young PhD students, each one of us has been contributing to the success of the network.

This same collaborative spirit trapined us to create HIGHLIGHTS. This publication is our new platform

platform which would gather clinicians, physicists, and the young researchers from our first Marie Curie biologists, computer experts and engineers with project pursue their careers around the world. We are experience in proton and carbon ton thempy seemed a community on the move.

In 2002, INLIGHT was created to foster effective. Now the opportunity is yourn to get your news and

Maniit Dosanih

FOCUS ON... RADIOTHERAPY IN POLAND

From proton beam eye radiotherapy to a scanning proton gantry in

the Department of Ophtalmology and Ophtalmic beam delivery system and treatment room Oncology of the Jagtellonian University's Collegium Medicum (Prof. B. Romanowska-Dizon, MD) received Our 60 MeV proton radiotherapy facility, supervised ocular proton radiotherapy treatment at the Institute by Dr. Jan Swakoń (IFJ PAN), is the only one in of Nuclear Physics of the Polish Academy of Sciences Poland (a 40-million people country) and also the (IF) PAN) in Kraków, Poland, in collaboration with first to operate in Central-Eastern Europe. It should the Centre of Oncology in Kraków (Prof. M. Reinfuss, be able not only to treat all Polith patients affected by

treated. For the first time, proton radiotherapy of the astandard treatment of eye-cancer patients, and costs eyeball has been made available to patients in Central are expected to be covered by the Polish National Europe. The eye melanoma patients undergo a four- Health Fund. fraction treatment by a 60 MeV proton beam from our

On Rebruary 18, 2011, the first two patients from in-house-designed AIC-144 teachronous cyclotron,

ocular melanoma (some 100 cases per year), but also patients in neighbouring European countries. From Up to July 2012, a total of fifteen patients have been 2013 onwards, proton therapy will be considered



The optical beach and patient treatment chair of the proton radiotherapy facility at 177 PAN (the beam enters from the far right

Contribution to ENLIGHT Highlights







TO DO LIST 2012

What?	How disseminated?	When?
First report from the ULICE meeting in Pavia	e-mail (ENLIGHT) ULICE Web Page	October 10, 2012
Summary of ULICE achievements and what is foreseen in the coming year	Brochure in pdf Distributed by e-mail	December 2012
Major popular paper on the achievements of ULICE	Journal	February 2013









Thank you!



