







Career progression: from academia to industry – personal experience

Janusz Harasimowicz, PhD

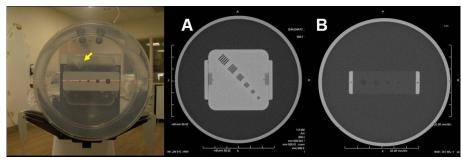
Elekta Ltd (former Marie Curie fellow)



Undergraduate



University of Warsaw Faculty of Physics, Biomedical Physics Division

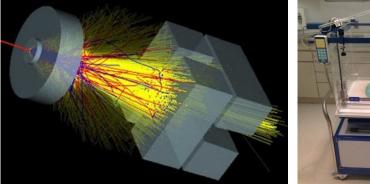


Marie Curie Cancer Centre, Inst. of Oncology

 Computer tomography (CT) quality control undergraduate project

Andrzej Sołtan Institute for Nuclear Studies

 R&D for medical and industrial linear accelerators (linacs)





Master's thesis:

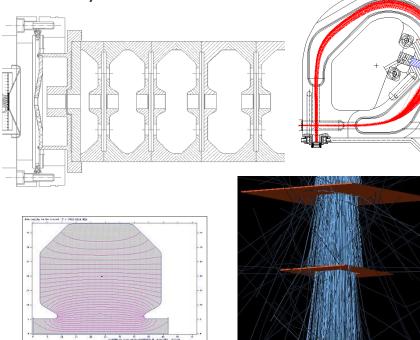
Derivation of a medical accelerator electron beam energy spectrum using an inverse Monte Carlo method



Postgraduate

Andrzej Sołtan Inst. for Nuclear Studies Establishment for Nuclear Equipment Świerk, Poland

- R&D physicist
- Physics team leader

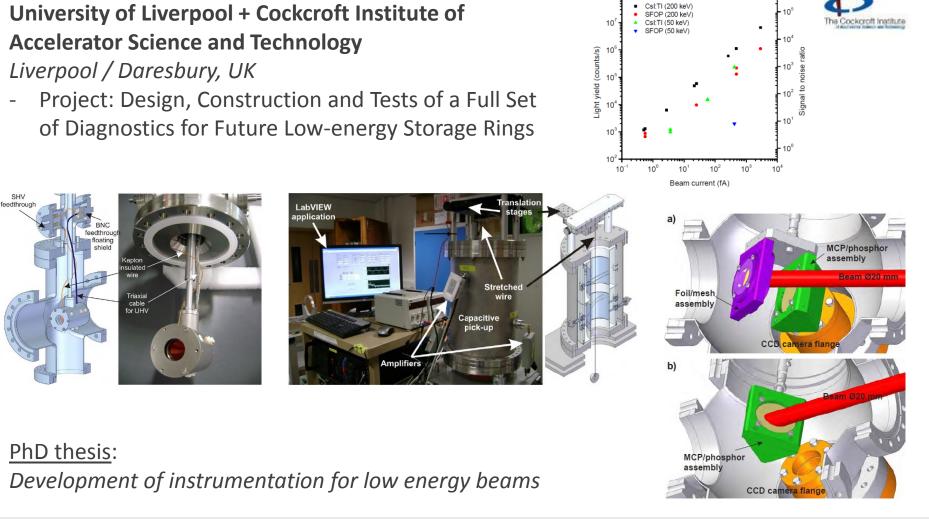




Max Planck Inst. for Nuclear Physics **QUASAR Group** Heidelberg, Germany Post-grad. researcher SIS100/300 Rare Isotope Production Target uper-FRS **ANTIPROTON** Antiproton Production Target Plasma Physic Acrylic felt/fleece with poly bead fill for medium mass. Atomic Physic 10 49 •••••••••00000 RUMANTINUO YAGC Electric field lines

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Accelerator Science and Technology

Liverpool / Daresbury, UK

DITANET Marie Curie fellow

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UNIVERSITY LIVERPOO

Elekta

Elekta is a human care company pioneering significant innovations and clinical solutions for treating cancer and brain disorders.





The company develops state-of-the-art tools and treatment planning systems for radiation therapy, including brachytherapy and radiosurgery, as well as workflow enhancing software systems across the spectrum of cancer care.







My background allowed me to:

directly apply my specialised physics skills

Radiation Physics & Beam Modelling

Medical

Physics

work independently and within a team, plan tasks and manage my own time

> Accelerator Physics, RF Physics, Beam Dynamics



operate comfortably in a multi-disciplinary, international environment

deliver high-quality work(used to critical peer reviews)



identify with the process of innovative concept development

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Detector

Physics

Imaging Physics



...but I still had to develop/gain:



- Specific knowledge of machine technology and applications
- Understanding of a large commercial organisation
- Awareness of internal processes and industry regulations
- Understanding of business needs and priorities
- Flexibility in work direction
- Ability to work under pressure and to tight deadlines
- Specific communication and presentation skills for external partners, customers and competition
- And as my career progressed, also...
 - Leadership skills
 - People management skills
 - Systems engineering knowledge



My career development within Elekta

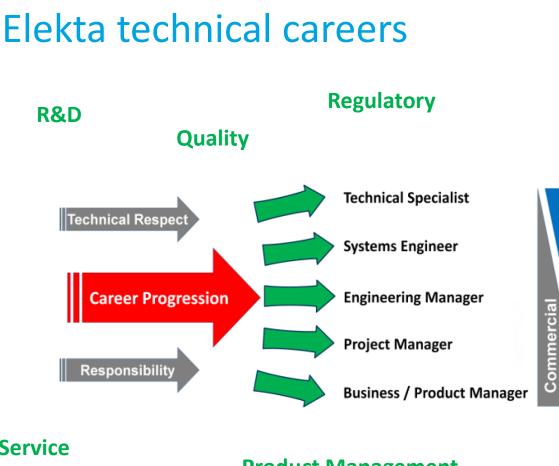
\rightarrow Physicist

- Beam Generation physics work for the MR Linac project
- Beam Shaping physics work for the MR Linac project
- Machine & Patient QA physics work for the MR Linac project

\rightarrow Senior Physicist

- Physics Lead on the Beam Generation and Machine & Patient QA modules
- System Integration Team member
- Module Lead on the Machine & Patient QA module
- Product Owner on the Systems Engineering team within the Scaled Agile Framework (SAFe)







Service

Product Management

Manufacturing

Business Management

Technical



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