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Medical Physicist
N°RP 317

PhD - H D R

Lucien Malet Award 1999

Medical and Radiological Physics Award 1998

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Service de radiothérapie
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Objective

I would like to bring my skills and know-how acquired in France, in the USA and at the European level to contribute to the development of an ambitious project in the field of radiation therapy.

Qualification

My professional experience acquired in the **medical physics** field during **clinical activities, research, teaching** and **engineering** prepared me to achieve this challenge.

Professional Experience

10/1998-... , **Medical Physicist**, Grenoble University Hospital. Setup of the IMRT and the prostate seed implant programs. Clinical duties in radiation therapy : IMRT, Stereotactic treatment, TBI, LDR, PDR, HDR, Prostate seeds implant, patient repositioning, Linac and TPS commissioning, Beam calibration, QA. Research and Teaching. Radiation Protection. Collaboration with the Imaging Department. Management of the medical physics activities in the hospital. Mission in Alger for the IAEA (dec 2004).

10/1997-09/1998, **Visiting Scientist**, Harvard Medical School, Joint Center for Radiation Therapy, Department of Radiation Oncology Boston (MA) USA. Research on virtual simulation: study of spiral CT acquisition parameters on DRR quality. Study of MLC penumbra: comparison to conventional blocks. Prostate seed implant. Attending meetings of the Harvard Cyclotron Laboratory.

03/1993-09/1997, **Medical Physicist**, Grenoble University Hospital. Setup of the stereotactic treatment program. Research on conformational radiation therapy. Study of SC dose detectors. Responsible of the medical physicist residency program in Grenoble. Research and development of contention and repositioning systems.

12/1991-02/1993, **Engineer** in the Engineering department, Satelec Compagny, Mérignac. Design of ultrasonic hand pieces for surgery and dentistry. Technical specifications and cost control. Technical manual and preproduction industry. Quality assurance in the company. Team Leader.

09/1988-11/1991, **PhD Student, INSERM U 305**, Toulouse and Satelec compagny. Study and development of an ultrasonic osteotome. Manufacturing and testing of the prototype. Modeling and simulation of physical phenomena. Animation of a multidisciplinary working group.

08/1990, 08/91 et 08/92, replacement of **Medical Physicist**, Pasteur Clinic - Toulouse.

08/1987-08/1988, **Medical Physicist**, Oncology-Radiotherapy Department, **Val de Grâce** Army Hospital, Paris. Electron beams calibration. Stereotactic radiation therapy project.

Research

Project coordinator - DOrGIPro –Physique Cancer Funding – 2011 - 2013

Expert for the National Agency for Research (ANR)

Co-director of Anas Ismail's PhD work: Implantable *in vivo* dosimetry. Collaboration with INL.

Director of the PhD work of A. Chaik and I. Fonteille.

Initiator of the collaboration with the **LPSC** laboratory for the development of a 2D detector for IMRT beam checks – Part of the INSPIRA project.

Initiator of the project « MRI/TRUS data fusion for prostate seeds implant » - Collaboration with the **GMCAO** team from **TIMC**.

Co-chairman of the **New Treatment Technique** group at **EORTC**.

Project leader for the Quality Control of the EORTC trials 22911, 22961 and 22991.

Project leader « Planimétrie » at **ETOILE** (2000-2003).

Member of the ETOILE visiting group to Japan Carbontherapy facilities. 2012 - 2013

Reviewer for European Radiology and Radiotherapy & Oncology.

Teaching

Initiator of the **Medical Physics** specialty of the ISM master at Joseph Fourier University (UJF).

Leader of the « Medical Exposure » module of the **Radiation Protection** specialty.

Member of the European consortium EMIT - Leonardo Prize of the European community in 2005.

Qualification Diploma in Radiological and Medical Physics.

- Head of the “Service Centrale Validant” at Grenoble University Hospital since 1994.
- Member (95-00) and Coordinator (00-07) of the Education Board of the SFPM
- Member of the Executive board of the DQPRM at INSTN (95-07)

Lecturer in radiation protection for the in house trainings at Grenoble University Hospital.

Initiator, organizer and member of the board of education for the **Dosimetrists** training.

Lecturer at the School of Technologists – Grenoble

Education

Habilitation à Diriger des Recherches, May 26th, 2007 - UJF - Grenoble

Visiting Scientist, Oct 1997 to Sept 1998, **Harvard Medical School**, Joint Center for Radiation Therapy, Department of Radiation Oncology - Boston MA USA

Management training, May - June 1996, IRAP santé – Grenoble

Communication training, March 1995, CUEFA – INPG – Grenoble

PhD in Medical and Radiological Physics, Dec 2nd, 1991 - Paul Sabatier University (UPS) - Toulouse

DEA Medical and Radiological Physics, June 1987, UPS - Toulouse

Publications

20 Publications – 2 Books – 41 Communications – 25 Posters

- 1 Patrick Pittet, Guo-Neng Lu, Jean-Marc Galvan, Jean-Marie Bluet, Ismail Anas, Jean-Yves Giraud, Jacques Balosso, "*PL characterization of GaN scintillator for radioluminescence-based dosimetry*", **Optical Materials**, Volume 31, Issue 10, August 2009, Pages 1421-1424
- 2 Matzinger O, Poortmans P, Giraud JY, Maingon P, Budiharto T, van den Bergh AC, Davis JB, Musat E, Ataman F, Huyskens DP, Gulyban A, Bolla M; Quality assurance in the 22991 EORTC ROG trial in localized prostate cancer: dummy run and individual case review. **Radiother Oncol.** 2009 Mar;90(3):285-90. Epub 2008 Nov 27.
- 3 Bolla M, Mazon JJ, Mornex F, Ardiet JM, Renody N, Giraud JY, Depenwiller C, Letallec P, Piollet I, Bernard B. Report of the mission committed by the Ministry of Health to the French society of radiation oncology. **Cancer Radiother.** 2009 Mar 16. [Epub ahead of print]
- 4 Ismail A, Giraud JY, Lu GN, Sihanath R, Pittet P, Galvan JM, Balosso J. Radiotherapy quality insurance by individualized in vivo dosimetry: State of the art. **Cancer Radiother.** 2009 Mar 7. [Epub ahead of print]
- 5 Daanen V, Gastaldo J, Giraud JY, Fournieret P, Descotes JL, Bolla M, Collomb D, Troccaz J. MRI/TRUS data fusion for brachytherapy. **Int J Med Robotics Comput Assist Surg.** 2006; 2; 256-261.
- 6 Tabakov S, Roberts VC, Jonsson BA, Ljungberg M, Lewis CA, Wirestam R, Strand SE, Lamm IL, Milano F, Simmons A, Deane C, Goss D, Aitken V, Noel A, Giraud JY, Sherriff S, Smith P, Clarke G, Almquist M, Jansson T; EMERALD plus EMIT International Consortia. Development of educational image databases and e-books for medical physics training. **Med Eng Phys.** 2005 Sep;27(7):591-8.
- 7 Kouloulis VE, Giraud JY, Davis BJ, Dusserre A, Zurlo A, Bolla M. Quality assurance of the 22961 EORTC trial. A phase III study of the optimal combination of hormonal adjuvant treatment by LHRH analogue and radiation therapy for the management of locally advanced prostate cancer: the dummy run. **Radiother Oncol.** 2004 Oct;73(1):11-20.
- 8 Reynier C., Troccaz J., Fournieret P., Dusserre A., Gay-Jeune C., Descotes JL, Bolla M., Giraud JY. MRI/TRUS data fusion for prostate brachytherapy. Preliminary results. ; **Medical Physics** 2004 Jun;31(6):1568-75.
- 9 Visseaux H., Vuillez JP., Giraud JY. Etude dosimétrique et optimisation de la radioprotection en scintigraphie au [F-18]-FDG. **Médecine Nucléaire.** 2004 Mai Vol 28, N°5, 205-217.
- 10 Killoran JH, Giraud JY, and Chin L. A dosimetric comparison of two multileaf collimator designs. **Medical Physics** 2002 Volume 29, 8 : 1752-1758
- 11 Davis J.B., Reiner B., Dusserre A., Giraud JY., Bolla M.. Quality assurance of the EORTC trial 22911. A phase III study of post operative external radiotherapy in pathological stage T3N0 prostatic carcinoma. **Radiotherapy and Oncology.** 2002 vol 64 : 65-73
- 12 Giraud JY, Sage J, Taisant D, Dusserre A, Bolla M, Coulomb M, Kolodié H, Barthelemy R, Aumont B, Ferretti G. Dose délivrée lors d'un examen scanner en acquisition hélicoïdale. Influence des paramètres d'acquisition. **Journal de radiologie** 2001; 82 :45-50

Professional Associative Activities

Chairman of the French Society of Medical Physics (SFPM) 2000-2003.

Chairman of the Rhône-Alpes Association of Medical Physicists (APHCRA) de 94 à 97.

Member of the American Association of Physicists in Medicine (AAPM) since 1998.

Observer at the European Society for Therapeutic Radiology and Oncology (ESTRO).

Member of the European Organization for Research and Treatment of Cancer (EORTC).

Organizer of the 41st Meeting of the SFPM – 2002.

Member of the Scientific Council of the SFPM – 1998-2001.

Expert at the professional register of the SFPM.

References

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Personal Information

Wedded
54
2 children

Cross country skiing, cycling, running.
Dance.