

Education, Training & Conference Organization

Reactor

Graduation and Post-graduation teaching

J.G. Marques, Professor of “Técnicas Nucleares”, B.Sc. in Engenharia Física, Faculdade de Ciências da Universidade de Lisboa.

J.G. Marques, Co-professor of “Radioquímica: Fundamentos e Técnicas”, M.Sc. in Química Inorgânica Biomédica - Aplicações em Diagnóstico e Terapia, Faculdade de Ciências da Univ. de Lisboa.

N.P. Barradas, Co-professor of “Radioquímica: Fundamentos e Técnicas”, M.Sc. in Química Inorgânica Biomédica - Aplicações em Diagnóstico e Terapia, Faculdade de Ciências da Univ. de Lisboa.

Conference organization

J. Antunes, O. Inácio, Session organizers for *19th Int. Congress on Acoustics*, Madrid, Spain, 2-7 Sep. 2007.

J. Antunes, member of the Scientific Committee of the *EUROMECH Colloquium 483, Geometrically Non-linear Vibrations of Structures*, FEUP, Porto, Portugal, 9-11 July 2007.

Training courses

M.C. Freitas, 1-week IAEA scientific visit within TC POR/6/004 in Hungarian Academy of Sciences, Institute of Isotopes, Dep. Nuclear Physics, Budapest, Hungary, to learn PGAA.

S. Sarmiento, Dep. Radiation, Radionuclide & Reactors Section RIH, Faculty of Applied Sciences, Technical Univ. Delft, 8 months.

R. Godinho, Dep. Radiation, Radionuclide & Reactors Section RIH, Faculty of Applied Sciences, Technical Univ. Delft, 2 weeks.

M.M. Farinha, Dep. Radiation, Radionuclide & Reactors Section RIH, Faculty of Applied Sciences, Technical Univ. Delft, 3 weeks.

Ciência Viva

A.R. Ramos, supervisor of José Pedro Pereira – *Ciência Viva - 23-07-2007 a 31-07-2007: “Fabricação e teste de detectores de neutrões”*.

Jury membership

J. Antunes, PhD Thesis, *Précontraintes et vibration des tables d'harmonie: Vers une modélisation du savoir-faire des fabricants d'instruments de musique*, by Adrien Mamou-Mani, Univ. Pierre et Marie Curie, Paris, Dec. 2007

Committees

J. Antunes, External Assessor for Fellowship selection, Trinity College, Univ. of Dublin, Ireland.

J. Antunes, Member of the Cientific Council of IRCAM – Institut de Recherche et Coordination Acoustique-Musique, Centre Pompidou, Paris, France.

Lectures and seminars

C.S. Repolho, 1-day seminar on Climate Changes – Perspectives for Portugal, Calouste Gulbenkian Foundation, Lisbon, 28 May 2007.

C.S. Repolho, 1-day seminar on Nutrition and Air Quality in Portugal, Calouste Gulbenkian Foundation, Lisbon, 20 June 2007.

J. Antunes, Applications des méthodes modales aux instruments frottés, 22 Oct. 2007, *Univ. Pierre et Marie Curie, Paris VI, Institut Jean le Rond d'Alembert, LAM*, Paris, France.

J. Antunes, Nouvelle modélisation de la turbulence pour le calcul temporel des composants tubulaires excités par les écoulements, 23 Oct. 2007, *CEA – Centre d'Études Nucléaires de Saclay*, France.

J. Antunes, Résultats récents sur la dynamique des instruments frottés : 1 - Analyse non-linéaire, 18 Dec. 2007, *Laboratoire de Mécanique et d'Acoustique (LMA)*, Marseille, France.

J. Antunes, Résultats récents sur la dynamique des instruments frottés : 2 - Analyse linéarisée, 18 Dec. 2007, *Laboratoire de Mécanique et d'Acoustique (LMA)*, Marseille, France.

J. Antunes, Des non-linéarités dans les instruments percutés et frottés, 19 Dec. 2007, *CEA – Centre d'Études Nucléaires de Saclay*, France.

Radiological Protection and Nuclear Safety

Graduation and post-graduation teaching

P. Vaz, Invited Professor in Technical University of Lisbon, IST. Disciplines: Radiation Technology; Nuclear Physics in Science and Technology; Computational Radiation Technology.

P. Vaz, Invited Professor of IST. Monte Carlo Introduction; Radiation Shielding Projects. Advanced Course on Safety and Radiological Protection.

C. Oliveira, Invited Professor of IST. Monte Carlo Introduction; Radiation Dosimetry. Advanced Course on Safety and Radiological Protection.

M.J. Reis. Environmental Radioactivity. Advanced Course on Safety and Radiological Protection. IST, Technical University of Lisbon.

J. Cardoso. Radiation Protection Units. Advanced Course on Safety and Radiological Protection. IST, Technical University of Lisbon.

M.J. Madruga. Radioisotopes as Tracers. MSc Course on Applied Analytical Chemistry, Faculdade de Ciências, Universidade de Lisboa.

C. Oliveira, supervisor of the 9 months training of Dr. Ridwaan Esmail, Health Minister of Moçambique.

J. Cardoso, L. Santos, responsables for the "Monitors for Ionizing Radiation" module included in the 9 months training of Dr. Ridwaan Esmail .

J. Cardoso. Detecção e medida de radiações ionizantes. Curso de formação profissional. ITN, Março e Abril.

M. Neves. Students tutor under a Marie Curie (EU) program and a Portugal/Poland scientific agreement (GRICES/ MCES).

Lectures and seminars

F.P. Carvalho, Radioactividade no ambiente marinho. Esc. Sup. de Tecnologias do Mar. Peniche, 14 Abril.

M.J. Madruga, Monitorização Radiológica Ambiental a Nível Nacional. Dia Mundial da Metrologia 2007, Instituto Português da Qualidade, Caparica, 18 Maio.

M.J. Madruga, ICRP Recommendations- Protection of the Environment. Seminar of the Portuguese Health Physics Society, IST, Lisbon, 23 November.

M. Neves. Radiações em Medicina e Biologia . Licenciatura/Mestrado integrado em Engenharia Biomédica, FCTUC/FMUC, Coimbra.

M. Neves. Radiofarmacos terapêuticos. Licenciatura /Mestrado integrado em Engenharia Biomédica, FCTUC/FMUC, Coimbra

M.J. Reis. Radioactividade Ambiente, Escola Secundária EB 2,3/S, Mêda, Dezembro.

M. Malta. Radioactividade em mamíferos marinhos. Esc. Sup. de Tecnologias do Mar. Peniche, 14 Abril

M. Goulart. Interfaces of Radiobiology, DPRSN, ITN.

J. Cardoso, Actividades Recentes do LMRI. Seminário DPRSN, ITN, Oct. 2007.

A.D. Oliveira, Dosimetria das radiações e risco radiológico em manipulação de radionuclidos, Seminário, IBILI, Univ. Coimbra, 2007.

C. Oliveira, Avaliação da exposição da população portuguesa às radiações devida a exames médicos. ITN, Prova de habilitação, Nov. 2007

C. Oliveira, Programa de pós-graduação em Protecção Radiológica. ITN. Prova de habilitação, Nov. 2007.

Jury membership

F.P. Carvalho, PhD thesis by Sara Marques Antunes, Avaliação ecotoxicológica integrada da área adjacente a uma mina de urânio abandonada, Univ. de Aveiro.

M.J. Reis, MSc thesis by H. Fonseca, Variação das concentrações de ^7Be e ^{210}Pb na atmosfera de Lisboa, Instituto Superior Técnico, Lisboa, Julho 2007

P. Vaz, MSc thesis by C.M. Pereira Santos, Determinação de Secções Efizes de Captura Neutrónica Utilizando um Calorímetro de BaF_2 no Espectrómetro n-TOF no CERN, FCUL, Set. 2007

P. Vaz. MSc thesis by Ana Lúcia Vital Belchior, Contributo para um Sistema de Automação e Robótica na Fonte Experimental de ^{60}Co /ITN – Distribuição de Dose por Simulação Monte Carlo e sua Validação por Dosimetria Física e Química, FCUL, Dez. 2007.

Chemistry

Graduation and post-graduation teaching

M.I. Dias, Invited Professor, Luminescence of geological and archaeological materials. Research work developed at ITN. Seminario de Datacion Absoluta. MSc teaching programme, Univ. Seville, Spain, Dec. 2007.

M.F. Araújo, Invited Professor. Energy Dispersive X-ray Fluorescence Spectrometry. Lectures in two one semester courses: on Advanced Methods of Analysis and Hyphenated Techniques for the MSc in Applied Analytical Chemistry, FCUL and also on Analytical Methods I for the graduation in Conservation and Restoration, FCT/UNL

A.M.M. Soares, Invited Professor. Radiocarbon dating, lectures in the semester course on Analytical Methods II for the MSc in Environmental Geology, Geological Hazards and Land Planning, FCT/UNL.

A. Pires de Matos, Invited Full Professor, Dep. Conservação e Restauro, Univ. Nova de Lisboa, coordinator of the courses: Instrumental Analysis I and II, and Diagnostic and Conservation of Ceramics and Glass.

J.P. Leal, Invited Professor, Dep. de Química e Bioquímica, Fac. Ciências, Univ. Lisboa, responsible for the MSc course Resources for Chemistry Teaching

J. Marçalo, Radiochemistry and Mass Spectrometry lectures in the discipline of Instrumental Analysis I, Dep. Conservação e Restauro, Univ. Nova de Lisboa.

A. Paulo, Invited Professor, Dep. Química e Bioquímica, FC-UL, MSc course on Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, ITN/FCUL, Responsible for the discipline Medicinal Inorganic Chemistry I; Lectures on the Chemistry of Elements of Groups 13 and on Boron Chemistry/BNCT- discipline Medicinal Inorganic Chemistry II; Lectures on Radionuclide Generators - discipline Radiochemistry: Fundamentals and Techniques.

A. Paulo, Invited Coordinator Professor at ESTeSL: Radiopharmacy I (2nd year, 2nd semester) and Radiopharmacy II (3rd year, 1st Semester).

M.P. Campello, Invited Professor, Dep. Química e Bioquímica, FCUL, MSc course on Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, ITN/FCUL; Lectures on the Chemistry of f-elements - discipline Medicinal Inorganic Chemistry II.

J.D.G. Correia, Invited Professor, Dep. Química e Bioquímica, FCUL, MSc course on Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, ITN/FCUL; Lectures on: a) Iodination of Organic Molecules – discipline Radiochemistry: Fundamentals and Techniques; b) Radiopharmaceuticals for PET - discipline Radiochemistry: Fundamentals and Techniques; c) Biospecific Metal Complexes- discipline Medicinal Inorganic Chemistry II.

L. Gano, Invited Professor, Dep. Química e Bioquímica, FCUL, MSc course on Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, ITN/FCUL; Lectures on: a) Radionuclides in Biology and Medicine - discipline Radiochemistry: Fundamentals and Techniques; b) Synthesis and Formulation of Radiopharmaceuticals / Mechanisms of Action and Quality Control of Radiopharmaceuticals - discipline Radiochemistry: Fundamentals and Techniques.

F. Marques, Invited Professor, Dep. Química e Bioquímica, FCUL, MSc course on Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, ITN/FCUL; Lectures on: Interaction of Radiation with Matter/Radioactivity Detection and Measurement - discipline Radiochemistry: Fundamentals and Techniques

I. Santos, Invited Professor, Dep. Química e Bioquímica, FCUL, MSc course on Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, ITN/FCUL; Lectures on: a) Chemistry of *d*-transition elements – discipline Medicinal Inorganic Chemistry II; b) Chemical Synthesis and Characterization of Biologically Relevant Complexes based on *d*- and *f*- transition elements- discipline Chemical Synthesis.

L. Gano, Invited Professor, Faculty of Pharmacy, Univ. Lisbon, Radiopharmacy (1st semester- 10 hours)

L. Gano, Invited Professor, European Post-graduation on Radiopharmacy, CEA INSTN, Saclay, France.

L. Gano, Invited lecturer on Good Radiopharmacy Practice, in II Acção de formação para utilizadores de material radioactivo at IBILI, Univ. Coimbra.

L. Gano, Invited lecturer, Biomedical Engineering Graduation course, FCT, Univ. Coimbra, Discipline: Radiopharmacy, 22 May 2007.

A. Paulo, L. Gano, F. Marques, Training on Radiopharmacy, ITN, Graduation Course on Nuclear Medicine, ESTeSL, 19-29 March 2007.

A. Paulo, Biomedical Applications of Radionuclides, part I, PhD Teaching Programme ITQB, UNL, Oeiras, 14 May 2007.

I. Santos, Biomedical Applications of Radionuclides, Part II, PhD Teaching Programme ITQB, UNL, Oeiras, April 2006.

L. Gano, Training of students from ESTeSL: Practical work on Biodistribution of Radiopharmaceuticals, Preparation of Lyophilized Kits and Quality Control of ^{99m}Tc-coloidal.

F. Marques, Training of students from ESTeSL Practical work on Calibration of Equipment for Radioactivity Measurement, Preparation and Quality Control of radiopharmaceuticals, Quality Control of ⁹⁹Mo/^{99m}Tc generator.

A.M.M. Soares, Invited Professor, Lecture in Dating methods in archaeology – using radioactive isotopes for measuring the time, Gabinete de Arqueologia, Conservação e Restauro, Câmara Municipal de Silves.

Course Organisation

I. Santos, Co-ordination of the MSc course Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications, Third Edition (D.R. n° 123 of 26/05/04, II série)

I. Santos, Adjustment of MSc course Biomedical Inorganic Chemistry: Diagnostic and Therapeutical Applications to the Bologna Agreement.

Adjustment to the Bologna Agreement of the Master Course *Pharmaceutical and Therapeutical Chemistry*, organized by the Faculdade de Farmácia da Universidade de Lisboa. ITN coordinator: I. Santos.

Lectures and seminars

M.I. Dias, Archaeometric applications of nuclear techniques. Portuguese archaeological and historical heritage case studies, Lisbon Summer Course 2007, “Be Reactive – Think Nuclear”. Board of European Students of Technology (BEST), IST, Aug. 2007.

M.I. Prudêncio. “Ceramic in ancient societies: a role for clay analysis”. Plenary Lecture. *EUROCLAY’07*. 23-27 July 2007, Aveiro, Portugal. Oral.

M.I. Prudêncio, Ceramic in ancient societies: a role for clay analysis, Plenary Lecture, *EUROCLAY'07*. 23-27 July 2007, Aveiro, Portugal.

A. Pires de Matos, A Arte e a Ciência do Vidro, Um Mestrado Inovador, Dia da Cidade Polis Marinha Grande, Pavilhão de Portugal, March 31, 2007.

D. Belo, Neutros para Variar, invited seminar at the Chemistry Dep., Instituto Superior Técnico, Lisboa, Portugal, May 25, 2007.

A.P. Gonçalves, $AnFe_xAl_{12-x}$ ($An = U, Np, Pu; 3 < x < 7$): a case study of magnetism in actinide intermetallic compounds, Faculty of Mathematics and Physics, Charles Univ., Prague, February 21, 2007.

Conference organisation

M.I. Prudêncio, Member of Organizing Committee of European Clay Meeting - *EUROCLAY'07*, Aveiro, Portugal, 23-27 July 2007.

M.I. Dias, Chairman of session Environmental Interactions, *EUROCLAY'07*, Aveiro, Portugal, 23-27 July 2007.

M.I. Prudêncio, Chairman of session Archaeology, the *EUROCLAY'07*, Aveiro, Portugal, 23-27 July 2007.

M.I. Dias, member of International Scientific Committee, 9th European Meeting on Ancient Ceramics, Budapest, Hungary, 24 – 27 Oct 2007.

M.I. Dias, Chairman of sessions Dating pottery and Pottery as containers, 9th Europ. Meeting on Ancient Ceramics, Budapest, Hungary, 24-27 Oct 2007.

P.M. Carreira, Organizing Committee of XXXV IAH Congress – Groundwater and ecosystems, FCUL, Lisbon, Portugal, 17-21 Sept. 2007

37^{èmes} Journées de Actinides, organized by the Solid State Group, 24-27 Mar. 2007, Sesimbra, Portugal. Organizing Committee: A.P. Gonçalves (Chairman), J.C. Waerenborgh, L.C.J. Pereira, M. Almeida, M. Godinho (FCUL), J.A. Paixão (FCTUC).

Workshop on Molecular Materials organized by the Solid State Group, Dec. 17, 2007, ITN, Sacavém. Organizing Committee: M. Almeida.

Jury membership

M.I. Prudêncio, Ph.D. thesis by M. Abad de los Santos, La transgresión Totoniense en el margen pasivo de la cuenca del Guadalquivir: respuesta estratigráfica e implicaciones paleontológicas. Univ. de Huelva, Spain. Mars 2007.

M.I. Dias, Ph.D. thesis by M.J. Trindade, Geoquímica e Mineralogia de Argilas da Bacia Algarvia. Univ. Aveiro, Portugal, 12 Dec 2007.

M.I. Dias, MSc. thesis by R. Marques, Geoquímica e Mineralogia de argilas do Cretácico de Taveiro e Aveiro, Portugal. Univ. Aveiro, Portugal, 12 Dec 2007

M.I. Prudêncio, Ph.D. thesis by M.J. Trindade, Geoquímica e Mineralogia de Argilas da Bacia Algarvia. Univ. Aveiro, Portugal, 12 Dec 2007.

M.I. Prudêncio, MSc. thesis by R. Marques, Geoquímica e Mineralogia de argilas do Cretácico de Taveiro e Aveiro, Portugal. Univ. Aveiro, Portugal, 12 Dec 2007

M.I. Dias, graduation thesis by P. Francisco, Geoquímica e Mineralogia das Cerâmicas Islâmicas de Silves, Portugal. Univ. Aveiro, 18 Set 2007.

M.F. Araújo, MSc. thesis by Marta Nunes Ferreira, Caracterização estrutural da talha dourada da caixa do órgão da Igreja de Santa Cruz em Coimbra, Dep. Química e Bioquímica, FCUL, Feb. 2007.

A.M.M. Soares, post-graduation thesis by C. Silva Maurício, Análise Textural, Mineralógica e Química de Cerâmicas Arqueológicas - Estudos de Proveniência, Dep. Conservação e Restauro, FCT/UNL, Nov. 2007.

N. Marques, PhD thesis by Maria João Gomes Ferreira, Complexos de Metais dos Grupos 4 e 6 com Ligandos Azavinilideno: Síntese, Caracterização e Reactividade, Instituto Superior Técnico, July 2006.

N. Marques, PhD thesis by M.A.Q. Antunes, Síntese e Reactividade de Compostos de Urânio(III) com Ligandos Quelantes Doadores de Azoto, FCUL, Feb. 2007.

J.P. Leal, PhD thesis by Maria Augusta Quaresma Antunes, Síntese e Reactividade de Compostos de Urânio(III) com Ligandos Quelantes Doadores de Azoto, FCUL, Feb. 2007.

N. Marques, MSc thesis by Bruno José Cardoso Vieira, Estudos em Química de Coordenação de Urânio(III), Instituto Superior Técnico, October 2007.

J.P. Leal, MSc thesis by Celestino Manuel Barros Mendes, Avaliação das Aprendizagens dos Alunos com Base no Microsoft Excel, FCUL, March 2007.

J.P. Leal, MSc thesis by Marta Simão Bento Pinheiro, A Química de Lupa na Mão, FCUL, April 2007.

J.P. Leal, MSc thesis by Isabel Maria Martins Cipriano, Os Cientistas na Toponímia, FCUL, July 2007.

J.P. Leal, MSc thesis by Paula Alexandra Banha Caramelo, Manual Multimédia para Física e Química, FCUL, July 2007.

J.P. Leal, Graduation thesis by Ricardo Alexandre Gravata Simões, Síntese e Caracterização de Apatites, FCUL, June 2007.

A. Pires de Matos, president of the .juries of 6 MSc theses in Conservation and Restoration, Universidade Nova de Lisboa, July, September and December 2007.

A. Pires de Matos, member of the jury for a Coordinator Researcher Position at ITN, Nov. 2007.

- J. Marçalo, member of the jury for a Researcher Position at ITN (Ciência 2007), August 2007.
- I. Santos, MSc thesis by J. Pedro Ribeiro, Síntese Caracterização de Complexos Organometálicos de Ru(II) com Vista às suas Potencialidades como Agentes Citotóxicos, FCUL, Feb. 2007.
- I. Santos, MSc thesis by E. Palma, Complexos de Re e Tc Contendo Antagonistas dos Receptores Serotonérgicos 5HT_{1A} Estabilizados por Fosfinas Heterofuncionalizadas: Química, Radioquímica e Avaliação Biológica, FCUL, Feb. 2007.
- I. Santos, Seminar – Advanced Course by Catarina Xavier, Labelling of Oligodeoxynucleotides (DNA) and Peptide Nucleic Acids (PNA) with the $[M(CO)_3]^+$ (M=Re, Tc) Moieties, FCUL, March 2007
- I. Santos, Seminar – Advanced Course by S. Lacerda, Tetraazamacrociclos e complexos de metais de transição-*d* e *f* com potencial aplicação em Medicina Nuclear, Faculdade de Ciências da Universidade de Lisboa, March 2007.
- I. Santos, MSc by B. L. Oliveira, Análogos da L-Arginina contendo a unidade *fac*- $[^{99m}Tc(CO)_3]^+$ para detecção in vivo do óxido nítrico sintase: química, radioquímica e avaliação biológica, FCUL, May 2007
- J.D.G. Correia, MSc thesis by E. Palma, Complexos de Re e Tc Contendo Antagonistas dos Receptores Serotonérgicos 5HT_{1A} Estabilizados por Fosfinas Heterofuncionalizadas: Química, Radioquímica e Avaliação Biológica, FCUL, Feb. 2007.
- I. Santos, MSc thesis by C. Moura, Complexos de M(I) e M(V) (M = Re, ^{99m}Tc) com Ligandos do Tipo Pirazolo Relevantes para o Desenvolvimento de Radiofármacos Específicos, Faculdade de Ciências da Universidade de Lisboa, July 2007.
- I. Santos, MSc thesis by Isabel Garcia do Vale, Complexos de Vanádio com Bases de Schiff do Tipo (sal)₂en e (sal)₂an. Avaliação da Possibilidade da sua Utilização como Agentes Antidiabéticos ou Anticancerígenos, FCUL, July 2007.
- J.D.G. Correia, MSc thesis by B. L. Oliveira, Análogos da L-Arginina Contendo a Unidade *fac*- $[^{99m}Tc(CO)_3]^+$ para Detecção in vivo do Óxido Nítrico Sintase: Química, Radioquímica e Avaliação Biológica, FCUL, May 2007.
- I. Santos, MSc thesis by Nuno da Rosa Xeng, Aplicações de Metodologias Analíticas Emergentes para Determinação de - oxoaldeídos em Matrizes Biológicas e Ambientais, FCUL, July 2007.
- I. Santos, MSc thesis by Z. Barbosa, Modelação Computacional de Complexos Tricarbonilo de Tecnécio e Rénio com Interesse para Imagiologia do Receptor 5HT_{1A}, FCUL, Nov. 2007
- A. Paulo, MSc thesis by Carolina Moura, Complexos de M(I) e M(V) (M = Re, ^{99m}Tc) com Ligandos do Tipo Pirazolo Relevantes para o Desenvolvimento de Radiofármacos Específicos, FCUL, July 2007.
- L. Gano, MSc thesis by A.M.C. Abrantes, Avaliação da hypoxia tumoral em adenocarcinoma colo-rectal. FCT, Univ. Coimbra, Nov. 2007.
- A.P. Gonçalves, PhD thesis of David Berthebaud, Synthèse, structure cristalline et propriétés électroniques des composés intermetalliques dans les systèmes ternaires (U,Ce)-Fe-(Ge,Si), Univ. Rennes 1, France, Oct. 2007.
- J.C. Waerenborgh, PhD thesis by Teresa Alexandra da Silva Ferreira, Synthesis and characterization of mixed oxides of the spinel-type,, FCUL, June 2007.
- M. Almeida PhD thesis by Jean-Philippe Savy, Films minces et nanofils de conducteurs moléculaires déposés sur une électrode de silicium par oxydation électrochimique, Univ. Paul Sabatier, Toulouse, France, April 17, 2007.
- M. Almeida, PhD Thesis of Samar Eid, Influence du cycle thiazole sur les propriétés de complexes dithiolènes et de tétrahéterofulvalènes, Univ. Rennes 1, France, Oct. 8, 2007.

Services to the community

J.P. Leal, elected Deputy General Secretary of the Portuguese Chemical Society (Sociedade Portuguesa de Química) for 2007-2009.

Physics

Graduation and post-graduation teaching

- E. Alves, Invited Coordinator Professor, Applied Physics – 1st Semester of Nuclear Medicine, Radiology and Radiotherapy courses at Escola Superior de Tecnologias da Saúde de Lisboa, ESTSL.
- E. Alves, Invited Coordinator Professor, Atomic and Nuclear Physics – 2nd Semester of Nuclear Medicine, Radiology and Radiotherapy courses at ESTSL.
- R.C. da Silva, Invited Professor, Lectures in Nuclear Physics – one semester theoretical plus laboratory course at introductory level for 7th sem. of Physical Engineering and Biomedical Engineering curricular plans, Physics Dep., FCT, Univ. Nova de Lisboa.
- R.C. da Silva, Invited Professor, Lectures in Ion Beam Analysis – in the framework of the one semester course on Methods of Inspection and Analysis II for the 8th semester of Conservation and Restoration curricular plan of Univ. Nova de Lisboa.
- E. Alves, Estudo de estruturas quânticas (ilhas e multicamadas) com feixes de iões, Seminário da unidade curricular Materiais Nanoestruturados e Nanotecnologias,

2º ano do Mestrado em Engenharia de Materiais do IST (ed. 2007-8), 26 Nov. 2007.

M.L. Botelho, S. Cabo Verde, Esterilização, invited practical and theoretical lectures in the scope of the course Microbial Biotechnology, degree in Microbiology, FCUL, 20-30 Nov. 2007.

M.L. Botelho, Supervisor of L. Tahri on the MOR/05018 IAEA training program in Impact of gamma radiation parameters on wastewater treatment: microbiological and chemical evaluation, Jan.-Jun. 2007.

Lectures and seminars

R.C. da Silva, Nuclear Energy – Fundamentals of Nuclear Energy Generation, Nuclear Reactors, Safety, and Environmental Impacts, Course on Environmental Protection for Education Agents, Officers and NCOs of the Portuguese Army, EPE (Escola Prática de Engenharia, Army Higher School of Engineering), Tancos, Portugal, 23 Apr. 2007.

K. Lorenz, Structural Analysis of Group-III Nitrides by Rutherford Backscattering Spectrometry and Channelling, John Anderson Research Colloquia at Univ. Strathclyde, Glasgow, U.K., 25 Apr. 2007.

U. Wahl, *Diluted magnetic semiconductors*, Instituut voor Kern- en Stralingsfysica, Katholieke Universiteit Leuven, Leuven, Belgium, 4 Jun. 2007.

E. Alves, Estudo e desenvolvimento de materiais estruturais e funcionais para reatores de fusão nuclear, Centro de Fusão Nuclear do Instituto Superior Técnico, 15 Jun. 2007.

N. Pinhão, PLASMAKIN: A software package to study plasma kinetics, Inst. of Physics, Belgrade, Serbia Dec. 2007.

Conference organisation

E. Alves, Chairman: 8th IEA International Workshop on Beryllium Technology, 5-7 Dec. 2007, Lisboa, Portugal.

E. Alves, Programme committee, 13th Int. Conf. on Fusion Reactor Materials, 10-14 Dec. 2007, Nice, France.

E. Alves, Programme committee, REI-14 Radiation Effects in Insulators, 28 Aug.-1 Sep. 2007, Caen, France.

M.L. Botelho, Session Chairman of Symp. Radiation and the Human Environment, 13th Int. Congress of Radiation Research, San Francisco, California, USA, 9 Jul. 2007.

Ciência Viva

C. Marques, Rutherford Experiment, 16-27 Jul. and 30 Jul.-10 Aug. 2007.

I.F. Gonçalves, Experiments in Radiation Physics, 30 Jul.-3 Aug. 2007.

Jury membership

R.C. da Silva, D.Sc. thesis by João Neves Duarte Cruz, Experimental study of proton induced nuclear reactions in ^{6,7}Li, FCT-UNL, 20 Apr. 2007

E. Alves, D.Sc. thesis by Maria Alexandra Fonseca, *Estudo de estruturas quânticas de silício germânio*, Univ. Aveiro, 14 May 2007.

M.L. Botelho, D.Sc. thesis by S. Cabo Verde, Avaliação de HACCP, tecnologias de irradiação e métodos moleculares no controlo higieno-sanitário de Salmonella e Campylobacter em ovos, FCUL, May 2007.

E. Alves, D.Sc. thesis by Gerardo González Aguilar, Preparação e propriedades de filmes finos de SrBi₂M₂O₉ (M=Ta,Nb), Univ. Aveiro, 4 Jun. 2007.

N.R. Pinhão, D.Sc. thesis by Ana Rita de Faria Alves Pereira, Uma abordagem estocástica do aprisionamento radiativo atómico incoerente, Univ. Minho, Braga, Jun. 2007.

E. Alves, M.Sc. thesis by Marco Peres, Caracterização óptica de amostras de ZnO, Univ. Aveiro, 25 Jul. 2007

E. Alves, M.Sc. thesis by Sérgio Nuno C. Magalhães, Estudo de estruturas quânticas semicondutoras, Instituto Superior Técnico, 20 Dec. 2007.

R.C. da Silva, M.Sc. thesis by Sérgio N. C. Magalhães, Estudo de estruturas quânticas semicondutoras, Instituto Superior Técnico, 20 Dec. 2007

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