

Curriculum Vitae

Personal information

First name(s) / Surname(s) **Raimon Pericas**

Date of birth 21st February 1978

email raipercas@yahoo.es



Summary

I define myself as a very active person with experience in Nuclear Safety Analysis, Teaching, Project management and International experience worldwide. I do hold a Ph.D in Nuclear Engineering and I have been applying my knowledge to several groups and organizations spread all over. I like team working but I also have a good leader command skills. I hold 10 years' experience in team and projects management and University teaching environment. Finally I do hold experience in dealing with customers worldwide in site negotiations (Asia, America, Europe and Middle East)

Work experience

Dates	15 May 2011 → ongoing
Occupation or position held	Nuclear Engineer
Main activities and responsibilities	Nuclear engineering research and development
Name and address of employer	Innovative Systems Software 3585 Briar Creek Ln. Ammon, ID 83406
Type of business or sector	Research and development on Nuclear simulation computer codes
Dates	21/01/2012 → ongoing 01/12/2015 → ongoing
Occupation or position held	College / university teaching professional
Main activities and responsibilities	Teaching and research, "Master of Nuclear Engineering" Post Doc research position Coupled codes, reactor physics and core design
Name and address of employer	UPC Diagonal, 647, 08028 Barcelona (Spain)
Type of business or sector	Education
Type of business or sector	Research
Dates	11/01/2011 → 15/05/2015
Occupation or position held	Nuclear Engineering
Main activities and responsibilities	Scholarship for a Ph.D.
Name and address of employer	UPC Diagonal, 647, 08028 Barcelona (Spain)
Type of business or sector	Research
Dates	15 September 2006 → ongoing
Occupation or position held	College / university teaching professional
Main activities and responsibilities	Teaching, technical matters New Renewable energies Energy management Environment and Energy Mathematics Physics

Name and address of employer Universitat de Vic
Sagrada Família, 7, 08500 Vic (Spain)

Type of business or sector Education

Education and training

Dates 30 September 1996 - 01 July 2002

Title of qualification awarded Physics bachelor degree

Principal subjects / occupational skills covered Physics

Name and type of organisation providing education and training Universitat Autònoma de Barcelona, SPAIN

Dates 10 October 2003 - 10 October 2004

Title of qualification awarded Master degree in New Renewable Energies

Principal subjects / occupational skills covered New Renewable Energies Engineering

Name and type of organisation providing education and training Institut Català de Tecnologia, SPAIN

Dates 07 September 2007 - 12 October 2010

Title of qualification awarded Master thesis in Nuclear Engineering

Principal subjects / occupational skills covered Nuclear Engineering, Coupled codes

Name and type of organisation providing education and training Universitat Politècnica de Catalunya, SPAIN

Dates 10 October 2010 → 15 May 2015

Title of qualification awarded Ph.D. Nuclear Engineering

Principal subjects / occupational skills covered "Contribution to the validation of best estimate coupled codes for the analysis of NK-TH nuclear transients"

Name and type of organisation providing education and training Universitat Politècnica de Catalunya, international mention jointly with The Pennsylvania State University

Personal skills and competences

Mother tongue(s) Catalan

Other language(s)

Self-assessment

Spanish / Castilian

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C2	Proficient user	C2	Proficient user	C1	Proficient user	C2	Proficient user	C2	Proficient user
B1	Independent user	B1	Independent user	B2	Independent user	B2	Independent user	B1	Independent user

Social skills and competences Good team spirit aptitudes

Good ability to adapt to multicultural environments, gained through my work experience abroad

Organisational skills and competences	Good experience in project or team management.
Technical skills and competences	Good command of quality control processes Good in Engineering tasks
Computer skills and competences	Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™)
Other skills and competences	Sports
Driving licence(s)	A1, C, A, C1, B, CE, B1, C1E, BE
Additional information	<p>1. Communications and conference presentations</p> <p>[1] R. Pericas; "Assessment of FRAPCON Capabilities for Prediction of Nuclear Fuel Behaviour in Advanced Burners", ANL/US DOE PSU university 2007</p> <p>[2] Pericas R.; Martínez V.; Reventós F.; "Test PKL III G3.1: Main Steam Line Break". 5th Meeting of the Programme Review Group and Management Board of the OECD PKL 2 Project; Maig de 2010; Pisa 05/2010</p> <p>[3] Lecturer at SAAM-2013 (Severe Accident Analysis and Management) Symposium "Impact of International Severe Accident Research Programs on Fukushima Daiichi" 1st to 3rd of February 2013, Kanpur, India.</p> <p>[4] Lecturer for RELAP/SCDAP code course for Severe Accident Analysis 25th of March to 12nd of April 2013, The Tsinghua University, Beijing, China</p> <p>[5] Pericas R.; Ivanov K.; Reventós F.; "Comparison of best estimate plus uncertainties and conservative methodologies for a PWR MSLB analysis using coupled 3D neutron kinetics/thermal-hydraulic code". The 15th International Topical Meeting on Nuclear Reactor Thermalhydraulics, NURETH-15; May 2013</p> <p>[6] Lecturer for DBA and RELAP/SCDAP code course for Severe Accident Analysis 1st of September to 13rd of September 2013, The Tsinghua University, Beijing, China</p> <p>[7] Lecturer at ICONE23 conference "Developing MOD4 for advanced fluid systems analysis" May 2015, Chiba, Tokyo.</p> <p>[8] Pericas R.; Allison C. M.; Hohorst J. K.; "RELAP/SCDAPSIM Fukushima related activities". The 17th International Topical Meeting on Nuclear Reactor Thermalhydraulics, NURETH-17; September 2017</p> <p>[9] Pericas R.; Allison C. M.; Nistor-Vlad R.M.; Dupleac D.; Prisecaru I.; "Modeling approach regarding new safety prepectives for CANDU-6 reactor employing RELAP/SCDAPSIM". 6th International workshop on "PHWR Challenging Issues for Safe Operation and Long-term Sustainability" CANSAS 2017 Haiyan, China November 2017</p> <p>2. Technical reports</p> <p>[1] Pericas R.; Reventós F.; Batet L.I.; "Sensitivity Analyses of a hypothetical 6 inch break, LOCA in Ascó NPP using RELAP/MOD3.2." NUREG/IA-243. 2007</p> <p>[2] R. Pericas; "Assessment of FRAPCON Capabilities for Prediction of Nuclear Fuel Behavior in Advanced Burners", ANL/US DOE PSU university 2007</p> <p>[3] Chris Allison, Judith K. Hohorst, Brian Allison, Damir Konjarek, Tomislav Bajcs, R. Pericas, Francisc Reventós and Ramon Lopez "Preliminary Assessment of the Possible BWR Core/Vessel</p>

Damage States for Fukushima Daiichi Station Blackout Scenarios Using RELAP/SCDAPSIM" Science and Technology of Nuclear Installations, 2012

[4] Pericas R.; Reventós F.; Batet LI "Improving Neutron Kinetics and Thermal Hydraulics coupled tools for BEPU calculations" paper and poster presentation. 41 reunión anual de la sociedad nuclear española. A Coruña, SPAIN, September 2015

[5] Pericas R.; Ivanov K.; Reventós F.; Batet LI "Code improving and validation for Asco-II nuclear power plant model using coupled 3D neutron kinetics / thermal-hydraulic code" Journal paper. Annals of Nuclear Energy, Volume 87, Part 2, January 2016, Pages 366–374

[6] Pericas R.; Ivanov K.; Reventós F.; Batet LI "Comparison of Best Estimate Plus Uncertainties and Conservative Methodologies for a PWR MSLB Analysis Using Coupled 3D Neutron Kinetics/Thermal-Hydraulic Code" Journal paper. UNCT Nuclear Technology, Pages 193-201 | Received 11 Oct 2016, Accepted 20 Feb 2017, Published online: 04 May 2017

3. Others

[1] Participation in the project: Test PKL III G3.1: Main Steam Line Break. 2010.

[2] Participation in the project: "OECD Benchmark for Uncertainty Analysis in Best-Estimate Modelling (UAM) for Design, Operation and Safety Analysis of LWRs". 2010- ongoing

[3] Participation in the project: "Main Results of Phase IV BEMUSE Project: Simulation of LBLOCA in an NPP" 2007

[4] Collaboration stage in Reactor Dynamics and Fuel Management Group (RDFMG) a la Penn State University, 2007, 2009 and 2012

[5] Attendance to the course of reactor physics, thought by K. Ivanov at University of Valencia, June 2010.

[6] Collaboration stage in Innovative Software Systems, Idaho May 2011, April 2012 and 2013, May 2014→

[7] Teaching on IAEA Regional Workshop on Severe Accidents and Introduction to Analytical Methods for Assessment of In-Vessel Phenomena, Warsaw, Poland July 2012

[8] Teaching on IAEA SATG Webinar on RELAP5 Basic exercise and application to VVER, November 2012

[9] Teaching in RELAP5 and RELAP/SCDAPSIM novice, advanced and model developer ISS training workshop, Barcelona May 2013

[10] Teaching Severe Accident Codes and Severe Accident Analysis in Seminar and Training on Scaling Uncertainty and 3D Coupled Code Calculations in Nuclear Technology, SUNCOP, Barcelona October 2013

[11] Teaching DBA and RELAP/SCDAP code course for Severe Accident Analysis, November 2013, ESKOM, Cape Town, South Africa

[12] Teaching RELAP/SCDAP code course for Severe Accident Analysis, March 2014, KHNP, Korea Hydro & Nuclear Power, Daejeon, South Korea

[13] Teaching RELAP/SCDAP code course for Severe Accident Analysis, May 2014, ISS, Idaho Falls, Idaho, USA

[14] Teaching RELAP/SCDAP code course for Severe Accident Analysis, June 2014, ISS, Barcelona, Spain

[15] Teaching TRACE code course for Thermalhydraulics Analysis, NRSHT (Nuclear Reactor

Simulation Hands on Training) 2014, July 2014, Barcelona, Spain

[16] Teaching RELAP/SCDAP code course for Thermalhydraulics, Severe Accident Analysis and Model developer, February 2015 and June 2015, ISS, Barcelona, Spain

[17] Teaching RELAP/SCDAP code course for Thermalhydraulics, Severe Accident Analysis and Model developer, July 2015, ISS, NECSA facilities SAFARI reactor, Pretoria, South Africa

[18] Technical consultant expert "Technical meeting on GSAN and SAET" IAEA, Vienna, September 2015

[19] Technical consultant expert "Technical meeting on GSAN and SAET" IAEA, Vienna, November 2015

[20] Technical consultant expert: JAEA Severe accident management group, O-Arai, Japan January 2016 (Post Fukushima severe accident analysis)

[21] Post-doc position as Nuclear Engineer Researcher in Technical University of Catalonia, January 2016 –

[22] Lecturer and Chairman on the Severe Accident meeting post Fukushima analysis and lessons learn from it. May 2016. Puerto Vallarta Mexico

[23] Teaching RELAP/SCDAP code course for Thermal Hydraulic Analysis, ISS, July 2016, Irbid, Jordan

[24] Lecturer and Technical consultant expert "Reactor Kinetics training course" and "GSAN and SAET" IAEA, July 2016 Amman, Jordan.

[25] Technical consultant expert: JAEA Severe accident management group August-September 2016, O-Arai, Japan (Post Fukushima severe accident analysis)

[26] Teaching RELAP/SCDAP code course for Thermal Hydraulic Analysis, ISS, February 2017, Alexandria Faculty of Engineering, Egypt

[27] Teaching RELAP/SCDAP code course for Severe Accident Analysis, February 2017, ISS, Amman, Jordan

[28] Lecturer and Chairman on the Severe Accident meeting post Fukushima analysis and lessons learn from it. May 2017. Huatulco, Mexico

4. Nuclear codes

o Thermalhydraulics

RELAP5, RELAPISS/SCDAPSIM, TRACE, RELAP5-3D

o Neutron core codes

NESTLE, PARCS, GENPMAXS

o Mechanical fuel behaviour

FRAPCON, FUELSIM

o Reactor physics

HELIOS, SCALE

o Coupled codes

TRACE/PARCS (SNAP)

RELAP5-3D/NESTLE

RELAP5/PARCS

o Uncertainties

DAKOTA

o Other
FORTRAN, python