European curriculum vitae Personal information

Surname(s) / First name(s)

Address(es)

Telephone(s)

Fax(es)

E-mail(s)

Nationality(-ies) Date of birth

Gender

ALLOUIS Christophe

+39 0817683256

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allouis@irc.cnr.it

French

03/03/1971

M

Work experience

Dates

2001- on-going

Occupation or position held Main activities and responsibilities Researcher at the Italian National Council of Research – CNR (I)

Main research activities and competences on energetic systems and innovation, energy policy, Biofuels and renewable sources for energy production, power plant optimization, combustion, pollutant characterization

Responsible for different national and regional research and innovation projects with industrial partners, for instance: Société Tecsabois on design and optimization of a 1 MWth burner fuelled with pulverized wood (2001-2002); CTM s.r.l. on "optimization of the combustion chamber of an open fire place to lower emissions" (2003-2005); on the "design and industrialization of a new generation open fire place with sustainable technology" (2004-2006); ITEA Spa on "chemico-physical analysis of particulates emitted by Isotherm reactor under oxycombustion conditions" (2006); Italian Ministry of Economic Development on "Use of biofuels in micro gas turbine for smartgrids" (2008-2012)

Co-responsible for different European R&D projects, for instance: ACREVO, Advanced Combustion REsearch for Vegetable Oils (FP5-1996-1999); MUSCLES, Modelling of UnSteady Combustion in Low Emission Systems in aeronautic engines (FP6-2002-2005); AFTUR, Alternative Fuel for gas TURbine (FP6-2002-2006); SOMALOX, Optimized retrofitting of pulverized lignite power plant for oxy-combustion plants (FP7undergoing)

Participant in the CNR strategic programs regarding "Technology and combustion processes with low environmental impact"; "Characterization and analysis of the formation mechanisms of pollutants"; "Alternative fuels: valorisation of biomass and wastes"

Name and address of employer Type of business or sector Consiglio Nazionale delle Ricerche - CNR, P.le A. Moro, 7 - 00185 Rome, Italy

Development of optical technique based in IR imaging for Oxy-fuel combustion

Research organization

2010 Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

University of Utah, Chemical Engineering - 50 South Central Campus Drive, Room 3290 - Salt Lake City Utah, 84112-9203, USA

Type of business or sector

University

2003

Dates

Occupation or position held

Main activities and responsibilities Name and address of employer

Type of business or sector

Invited researcher at the French National Centre for Scientific Research - CNRS (F)

Characterization of a gas turbine combustor by optical techniques

Invited researcher at the Utah University (USA)

LCSR-CNRS - 1C, avenue de la Recherche Scientifique - 45071 Orléans Cedex 2, France

Research organisation

Page 1 - Curriculum vitae of Christophe ALLOUIS **Dates**

2008-on-going

Occupation or position held Main activities and responsibilities **Evaluator of EC and National RTDI projects**

Participating on selection panels of several European Commission FPs calls for proposals (DG RTD)

and other DGs' research programs projects evaluation (ENER, REGIO and ENTR); of the French Environment and Energy Management Agency (ADEME); of the Israel Science Foundation (ISF); of the

Italian Ministry of Economic Development

Name and address of employer Type of business or sector European Commission; Research organisation

Advisor for regional RTDI-related issues

Public organisation

Dates

2003-on-going

Occupation or position held Main activities and responsibilities

Providing expertise to regional bodies in designing and implementing research/innovation policies/strategies and monitoring projects implementation, for instance:

2003: District (Provincia) of Alessandria, for energy innovation

Since 2006: Regional Centre of Competences in Campania, for improving SME innovation strategy, product distribution and competitiveness

Since 2007: participating in the monitoring of the implementation of RTDI projects assigned to the following Italian Regions: Sicily, Veneto, Lombardia (as registered regional auditor for RDTI projects of the Italian Ministry of Economic Development) and to the French "Région Centre", in collaboration with the French Environment and Energy Management Agency (ADEME)

Name and address of employer

District (Provincia) of Alessandria; Piemonte (Italy); Regione Campania Centre of Competence (Italy); various Regions (Italy and France)

Type of business or sector

Public organisation

Dates

2006-on-going

Occupation or position held Main activities and responsibilities Advisor for RTDI-related issues for Industry and SMEs

Providing expertise to Industry and SMEs in designing and implementing research/innovation policies/strategies, for instance:

2006: C.T.M. srl, for the development and modification of new closed fire placed able to comply with the Swiss and German pollutant emission regulations

2006: C.T.M. srl, for the development of innovative products to increase internationalization and competitiveness of the company in the EU market

2007: Redoil Italy Spa, for the improvement of the process for energy recovery from industrial wastes to enhance the competitiveness of the company in the EU market

2011: FLIR, for the development of innovative applications of InfraRed camera to combustion systems

C.T.M. srl, Benevento (Italy); Redoil Italy Spa, San Vitaliano (Italy); FLIR Systems company for R&D and innovation strategy, Milano (Italy)

Type of business or sector

Name and address of employer

Industry; SMEs

Dates

2001- on-going

Occupation or position held Main activities and responsibilities

Teaching activities at University and for Industry on innovation and energy related issues

Responsible of the courses on advanced optical diagnostics for combustion systems and application of the Infra Red imaging to combustion systems for University students, post doc fellows, industry engineers

Name and address of employer

University of Naples (Italy); Alenia (Italian Aerospace Industry); Bertelli Spa (Italian burner producer Company); Ansaldo boiler (Italy)

Type of business or sector

University; Industry

Education and training

Dates

1999

Page 2 - Curriculum vitae of Christophe ALLOUIS Title of qualification awarded

Principal subjects/Occupational skills covered

Name and type of organisation providing education and training

Level in national or international classification

PhD thesis in chemical engineering, Orléans' University (F)

Characterization Of Combustion Processes Of Rapeseed Oil And Its Blends With Alcohol As Liquid Fuels In Stationary Burners

Université d'Orléans - 6 Avenue du Parc Floral - 45100 Orléans, France

5A/6

Dates

Title of qualification awarded
Principal subjects/Occupational skills
covered

Name and type of organisation providing education and training Level in national or international

1994

Graduated in chemical engineering, Ecole Supérieure de l'Energie et des Matériaux, Orléans (F)

Majoring in heat and industrial energy engineering

Ecole Supérieure de l'Energie et des Matériaux - 2 4 Rue de Vendôme -45062 Orléans, France

5A

Dates

classification

Title of qualification awarded Principal subjects/Occupational skills covered

Name and type of organisation providing education and training Level in national or international classification

1991

Technology University Diploma (DUT), Ville d'Avray's Polytechnic (F)

Majoring in heat and industrial energy

Ville d'Avray's Polytechnic – Paris, France

5B

Personal skills and competences

Mother tongue(s)

Other language(s)

Self-assessment

European level (*)

ITALIAN ENGLISH GERMAN

FRENCH

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C2	C2
C2	C2	C2	C2	C2
A2	A2	A2	A2	A2

[©] Common European Framework of Reference (CEF) level

Social skills and competences

Solid communication skills both orally and in writing Teaching activities for Universities and private bodies. Regular speaker in conferences and symposium. Author of several publications and articles and regular drafting in FR, EN, IT. Invited by Italian television broadcaster RAI as the CNR representative for Biomass and waste valorisation

Excellent adaptation skills Used to moving country and working context inside and outside of Europe

Organisational skills and competences

Mature organisational and management capacities and ability to motivate teams and work in different environments Responsible for several research projects including multinational teams: ensuring planning, supervision of staff performances and budget, cost statements and reporting. Managed research networks for instance the Italian participation to an international research network on combustion. Took part in the organisation of several international meetings (Mediterranean Combustion Symposium; National meetings related to EU RDTI projects, etc.)

Technical skills and competences

High level of professional experience on:

- Practical combustion systems pollutant characterization by means of advanced laser-based

Page 3 - Curriculum vitae of Christophe ALLOUIS techniques, flow characterisation, advanced thermography applied for burner design

- Development of advanced diagnostics for combustion systems based on laser light -material interferences. Good knowledge on physics (i.e. quantum mechanics)

Consolidated knowledge of the EU, National and regional RDTI policies and procedures Participated at several EC FPs as project partner. Assisted several project coordinators in preparing project proposals. Evaluator in several panels of EC FPs and other calls for proposals (DG RDT, ENER, REGIO, ENV and ENTR). Participated in the organization of the Regional Centre of Competences in Campania (Italy) in the framework the regional innovation policy. Participated in the monitoring of RDTI projects in the Italian regions of Sicily, Veneto, Lombardia and in the French "Région Centre"

Computer skills and competences

Excellent computer knowledge of Windows operative Systems (from Win95 to Windows 8), Microsoft Business OFFICE 2010 pack, Photoshop, Grapher, Labview, Matlab, cad: Solidworks, AutoDesk packages

Driving licence(s)

French Driving licence type B, C, D

Additional information

Registered regional auditor of the Italian Ministry of Economic Development for RDTI projects (Albo degli esperti) since 2007

Author and co-author of more than 35 scientific International and 30 National publications (texts available under request), of which the following are most representative:

- C. Allouis, R. Pagliara, A. Saponaro, "Fast infrared imaging for combustion stability analysis of industrial burners", Experimental Thermal and Fluid Science, Volume 43, November 2012, Pages 2-8
- C. Allouis, F. Beretta, P. Minutolo, R. Pagliara, M. Sirignano, L.A. Sgro, A. D'Anna, "Measurements of ultrafine particles from a gas-turbine burning biofuels", Experimental Thermal and Fluid Science, Volume 34, Issue 3, April 2010, Pages 258-261
- D. Menghini, F.S. Marra, C. Allouis, F. Beretta, "Effect of excess air on the optimization of heating appliances for biomass combustion", Experimental Thermal and Fluid Science, Volume 32, Issue 7, July 2008, Pages 1371-1380
- C. Allouis, A. L'Insalata, L. Fortunato, A. Saponaro, F. Beretta, "Study of water-oil emulsion combustion in large pilot power plants for fine particle matter emission reduction", Experimental Thermal and Fluid Science, Volume 31, Issue 5, April **2007**, Pages 421-426
- C. Allouis, F. Beretta, A. D'Alessio, Sizing soot and micronic carbonaceous particle in spray flames based on time resolved LII", Experimental Thermal and Fluid Science, Volume 27, Issue 4, April 2003, Pages 455-463

Speaker in several National and International Scientific Conferences and Symposium, for instance:

- Mediterranean Combustion Symposium (1999 2011)
- International Symposium on Combustion (2000-2004)
- European Meeting on Combustion (2003-2011)
- RAI television (2003): invited by Italian television broadcaster RAI as the CNR representative for Biomass and waste valorisation activity at the round table about the Biomass use in Italy