



Curriculum Vitae

MILAN - 11.02.2019

NAME: Francesco M. CHILLE'
DATE OF BIRTH: September 16th, 1963
NATIONALITY: Italian

Graduated in Structural Engineering at Technical University of Milan (Politecnico) 1989.

From 1991 to 2006 he worked at various departments and companies of the ENEL group, dealing with electrical components explosion-related problems and impact on structures, both in R&D projects and consulting projects.

Since 1995 he has been involved in advanced engineering services (Oil & Gas, Energy, Process) related to gas dispersion and explosion, and the structural response to dynamic and impulsive loads.

From 2010 to 2015 he has worked closely with Gexcon AS (Norway's leading company in Quantitative Risk Analysis, Testing and SW development for gas&dust dispersion and explosion), working as Trainer and Consultant, and then leading Milan's office from 2012 to 2015.

During his business career he has worked in various projects in Europe, North and South America, Asia, Australia, for hydroelectric underground power plants, nuclear power plants, urban electrical substations, O&G offshore and onshore plants, chemical plants.

He is author/co-author of >40 technical publications and presentations in international conferences.

MEMBERSHIP: Ordine degli Ingegneri della Provincia di Milano (Iscr. Albo n. 16221), 1990
Cigre WGA3.20 Simulations & Calculations as Verification Tools, Regular Member, 2005
VGR "L'innovazione tecnologica per il miglioramento della sicurezza oil&gas offshore", Member, 2016
GdL VVF-NIA "Verifica di congruenza delle distanze previste dalle vigenti normative di prevenzione incendi in materia di installazioni per l'erogazione dei combustibili alternativi per l'autotrazione con i corrispondenti standard di sicurezza utilizzati in ambito europeo e internazionale", Member, 2016

CERTIFICATIONS: Qing Certified Engineer at level 2° in the field of energy and nuclear power, as safety expert in chemical and energy production plants; Ordine degli Ingegneri della Provincia di Milano; resolution date 16/03/2016

COUNTRIES OF WORK: Italy, Spain, Austria, France, Portugal, Sweden, Norway, UK, Germany, Russia, Switzerland
EXPERIENCE: US, Canada, Brazil
UAE, Malaysia, Japan, South Korea
Australia



EDUCATION

Master's Degree in Civil Engineering, Structural Engineering, Politecnico of Milan, 1989.

Thesis: "Analisi per Elementi Finiti di una struttura assialsimmetrica in regime viscoplastico sotto carichi ciclici: aspetti costitutivi e computazionali (Finite Element Analysis of an axisymmetric structure in viscoplastic regime under cyclic loading: constitutive and computational aspects)". The work was part of CEC Benchmark Exercise ERC 12.0914, Project No 1296000, conducted by Activity Group 2 of the Working Group "Codes and Standards" of the Fast Reactor Coordinating Committee.

Other courses

Title-Subject	Provider	Venue	Year
IMPETUS introductory course (Olovsson)	Impetus AFEA	Stockholm	2015
FLACS Fire introductory course on fire simulations (Abiven)	GexCon	Bergen	2014
Probabilistic Explosion Risk analysis with FLACS (Abiven, co-developer)	GexCon	Milan	2013
Geometry modelling for gas explosion analysis with FLACS (Hestetraet, co-developer)	GexCon	Milan	2013
Advanced course on gas dispersion and explosion with FLACS (Middha, co-developer)	GexCon	Bergen	2012
Course on Power Transformers internal faults (Fracchia)	HVCC	Milan	2011
Gas explosion hazards on offshore facilities (van Wingerden et al.)	GexCon	Bergen	2010
Introductory course on dust dispersion and explosion with DESC (Skjold)	GexCon	Bergen	2010
Introductory course on gas dispersion and explosion with FLACS (Middha)	GexCon	Manchester	2009
Gas Explosion simulation with FLACS code (Hansen)	GexCon	Milan	2001
Analisi limite e non lineare di strutture in calcestruzzo armato (Malerba et al.)	CISM	Udine	1997
A course on Damage Mechanics (Lemaitre)	Politecnico di Milano	Milan	1993
Modelling and analysis of reinforced concrete structures for dynamic loading (Gergely et al.)	CISM	Udine	1993
Course on Fast Transient Dynamics and Fluid-Structure Interaction (Halleux, Donea)	JRC	Ispra (Va)	1992
Nonlinear finite element analysis (Hughes, Belytschko)	Zace Services Ltd	Munich	1992
Stress-strain constitutive modelling of soils (Lade)	ENEL Ricerca – PIS	Milan	1991



EMPLOYMENT RECORD

Date	Employer	Position	Description Of Duties
2016-to date	Independent Consultant	Consultant	Consulting activities in the field of: <ul style="list-style-type: none">• structural response advanced applications• consequence and risk analyses related to explosion of electrical components, including structural effects• consequence and risk analyses related to gas dispersion and explosion scenarios, including structural effects
2012-2015	Independent Consultant	GexCon Italy s.r.l. Managing Director	Managing Director and Principal Engineer
2010-2015	Independent Consultant	GexCon AS Trainer and Developer	Organisation and realisation of FLACS courses for GexCon worldwide. Development of new training modules and courses
2007-2012	Independent Consultant	GexCon AS Representative	Ad-hoc business advisor and consultant in connection with project quotations and project executions for process facility related projects
2006-2012	Independent Consultant	Consultant	Consulting activities in the field of structural and industrial safety, Numerical modelling activities for industrial and research clients
2006-2006	CESI Research s.p.a. – Transmission & Distribution Technology Dept	Senior Engineer	Research activities on thermo-mechanical behaviour of electrical components. Research activities and industrial applications on explosion of electrical components in power plants and substations.
2005-2005	CESI s.p.a. – Tests and Components BU	Senior Engineer	Research activities on thermo-mechanical behaviour of electrical components. Research activities and industrial applications on explosion of electrical components in power plants and substations.
2002-2004	CESI s.p.a. – Industry, End Users & Renewables BU	Senior Engineer	Industrial applications and Research activities for ENEL and other utilities on: large structures safety assessment and refurbishment (dams, cooling towers,...); explosion of electrical components in power plants and substations.
2000-2002	ENEL.Hydro s.p.a. - Hydraulics and Structures BU	Senior Engineer	Industrial applications and Research activities for ENEL and other utilities on: large structures safety assessment and refurbishment (dams, cooling towers,...); explosion of electrical components in power plants and substations.
1995-1999	ENEL Research - Hydraulics and Structures Department	Senior Engineer	Industrial applications and Research activities for ENEL and other utilities on: large structures safety assessment and refurbishment (dams, cooling towers,...); explosion of electrical components in power plants and substations.
1991-1994	ENEL Research - Hydraulics and Structures Department	Junior Engineer	Industrial applications and Research activities for ENEL: large structures safety assessment and refurbishment (dams, cooling towers,...); explosion of electrical components in power plants and substations.
1989-1990	COOPRO s.r.l.	Junior Engineer	Design of concrete and steel structures.



PROJECTS (last 7 years)

Client	Country	Year	Project	Duties
ARUP-MIRVAC	Australia	2019	Dalley Street Substation Transformer explosion analysis	PM; technical activities: evaluation of transformer explosion effects in Dalley Street substation by means of FLACS explosion simulations.
EDF	France	2019-2018	Analyse du Risque d'Explosion Interne et de la Réponse du Génie Civil dans les locaux de l'Îlot Nucléaire du Palier P4	TM; technical activities: evaluation of structural response to hydrogen explosion loading, using simplified and advanced methods.
TECSA-ENI	Italy	2018	Fire analyses for Ortona depot	PM; technical activities: fire analyses by means of FLACS code.
RINA-ENI	Italy	2018	Explosion analyses for Unit 90 Est Slurry in Sannazzaro refinery	PM; technical activities: explosion analyses by means of FLACS code.
CESI-ENDESA	Spain	2018	Aragonia substation - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Aragonia substation, layout optimization for blast mitigation by means of FLACS explosion simulations.
CESI-ENDESA	Spain	2018	Rastro substation - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Rastro substation, layout optimization for blast mitigation by means of FLACS explosion simulations.
LYONDELL BASELL	Germany	2018-2017	PE Production Facility OT3 Dispersion&Explosion analysis and Gas detection optimization	PM; technical activities: evaluation of possible solutions for explosion mitigation, including gas detection optimization, by means of dispersion and explosion CFD analyses and advanced FE blast analyses.
EDF	France	2018-2017	Etudes de simulation des explosions internes H2 dans les locaux de l'îlot nucléaire et vérification de la tenue GC - Bugey NPP	TM; technical activities: evaluation of structural response to hydrogen explosion loading, using simplified and advanced methods.
TECSA-TAP	Italy	2017	Vent stack dispersion explosion and noise simulation	PM; technical activities: ventilation dispersion and explosion analyses for an atmospheric release from the two vent stacks in the Pipeline Receiving Terminal in Meledugno, by means of FLACS code. Noise assessment by means of Fluent analyses.
CESI	Italy	2017	Seismic analysis of Montagna Spaccata dam	PM; technical activities: structural assessment of the dam against environmental operational and seismic loads by means of ABAQUS dynamic FEM analyses
CERN	Switzerland	2017	Explosion in an enclosure	PM; technical activities: evaluation of capacitor bank explosion effects in steel enclosure, project review; structural assessment of steel structures by means of ABAQUS dynamic FEM analyses
CERN	Switzerland	2016-2017	POPS Explosion Inquiry and Assessment	PM; technical activities: evaluation of capacitor bank explosion effects in Building 245, project review; structural assessment of concrete structures by means of ABAQUS dynamic FEM analyses
TECSA-TURBODEN	Italy	2016	Atmospheric dispersion from a smokestack – Dispersion analyses	PM; technical activities: ventilation and dispersion analyses for an atmospheric release from a smokestack, by means of FLACS code.
BW OFFSHORE	Brazil	2016	FPSO FE blast analysis	TM; technical activities: support for accident investigation by means of advanced FE blast analyses
EDF	France	2015-2016	Simulation des explosions internes d'hydrogène dans les locaux de l'îlot nucléaire et vérification de la résistance des installations dans le cadre de la VD4-900	TM; technical activities: evaluation of structural response to hydrogen explosion loading, using simplified and advanced methods.
TIS	UK	2015	Structural assessment of	TM; technical activities: evaluation of structural response evaluation to explosion loading, by means of ABAQUS



MANUFACTURING			HDP and TUTU units for Catcher FPSO	dynamic FEM analyses.
LYONDELL BASELL	Germany	2014-2015	PE Production Facility OT4 Gas detection optimization	PM; technical activities: gas detection optimization by means of dispersion and explosion CFD analyses
JRC	EU	2014	Effects of explosions of small quantities of hydrocarbons on an offshore platform	TM; technical activities: investigation on the effects of explosions of small quantities of hydrocarbons on an offshore platform, by means of FLACS explosion simulations.
SIRA KVINA	Norway	2014	Tjoerhom hydropower plant - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Tjoerhom hydropower plant, layout optimization for blast mitigation by means of FLACS explosion simulations.
SKL	Norway	2014	Eikelandsosen hydropower plant - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Eikelandsosen hydropower plant, layout optimization for blast mitigation by means of FLACS explosion simulations.
SKL	Norway	2014	Blaafalli Vik hydropower plant - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Blaafalli Vik hydropower plant, layout optimization for blast mitigation by means of FLACS explosion simulations.
HAFSLUND NETT	Norway	2014	Bekkelaget substation - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Bekkelaget substation, layout optimization for blast mitigation by means of FLACS explosion simulations.
EDP	Portugal	2013-2014	Frades I hydropower plant - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Frades I HPP by means of FLACS explosion simulations.
STATNETT	Norway	2013-2014	Smestad substation - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Smestad substation, layout optimization for blast mitigation by means of FLACS explosion simulations.
LOCKPOINT	UK	2013-2014	Gryphon FE analysis	TM; technical activities: geometry modelling, FE blast analysis of the Gryphon mechanical assembly by means of ABAQUS explicit transient simulations.
EDP	Portugal	2013-2014	Frades II hydropower plant - Transformer explosion study (final design solution)	TM; technical activities: evaluation of transformer explosion effects in Frades II HPP, project review; structural assessment of blast resistant steel doors by means of ABAQUS dynamic FEM analyses
RAMS&E-BASIS	Italy	2013-2014	Marlin Offshore Platform consequence and risk analyses	PM; technical activities: explosion risk assessment and exhaust dispersion study using FLACS code; fire analysis using FDS code.
HAFSLUND NETT	Norway	2013	Capacitor bank explosion study	TM; technical activities: evaluation of capacitor bank explosion effects in a substation, layout optimization for blast mitigation by means of FLACS explosion simulations.
DET NORSKE	Norway	2013	Ivar Aasen platform - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Ivar Aasen platform, layout optimization for blast mitigation.
SKL	Norway	2013	Blaafalli III hydropower plant - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Blaafalli III hydropower plant, layout optimization for blast mitigation by means of FLACS explosion simulations.
ABB	Sweden	2013	DolWin Alpha Wind Power Offshore Platform - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in DolWin Alpha Wind Power Offshore Platform, layout optimization for blast mitigation by means of FLACS explosion simulations.
NORSK HYDRO	Norway	2013	Karmøy smelting plant - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Karmøy melting plant, layout optimization for blast mitigation by means of FLACS explosion simulations. Structural assessment of the reinforced concrete structures by means of ABAQUS dynamic FEM analyses
VIRTHUALIS	Italy	2013	HF dispersion study	PM; technical activities: dispersion analyses for HF accidental release by means of FLACS simulations. Data exporting to a Virtual Reality System.
LYONDELL BASELL	Germany	2013	PE Production Facility OT4 Dispersion&Explosion analysis	PM; technical activities: dispersion and explosion analyses in order to establish potential explosion loads in a PE production facility. FE blast analysis of the concrete bay by means of ABAQUS explicit transient simulations.
AIR	U.S.A.	2012	120 tube WSP - FE	TM; technical activities: geometry modelling, FE blast



PRODUCTS			analysis against blast loading	analysis by means of ABAQUS explicit transient simulations.
SSE	U.K.	2012	Greater Gabbard platform - Transformer explosion analysis	TM; technical activities: evaluation of transformer explosion effects in Greater Gabbard Offshore Platform by means of FLACS explosion simulations.
LILLEAKER	Norway	2012	Goliat FPSO - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Goliat FPSO, layout optimization for blast mitigation.
TRONDER ENERGY	Norway	2012	Sokna & Sjøa hydropower plants - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Sokna & Sjøa hydropower plants, layout optimization for blast mitigation by means of FLACS explosion simulations.
APPLY-SORCO	Norway	2012	Gullfaks C platform - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Gullfaks C platform, layout optimization for blast mitigation by means of FLACS explosion simulations.
SWECO	Norway	2012	Solheim Substation - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in Solheim substation, layout optimization for blast mitigation by means of FLACS explosion simulations.
ABB	Sweden	2012	DolWin Beta Wind Power Offshore Platform - Transformer explosion study	TM; technical activities: evaluation of transformer explosion effects in DolWin Beta Wind Power Offshore Platform, layout optimization for blast mitigation by means of FLACS explosion simulations.
TEA	Italy	2012	West Franklin Offshore Platform Probabilistic explosion analysis	local representative for Gexcon; technical activities: team member for Probabilistic explosion study by means of FLACS simulations.
TEA	Italy	2012	Elgin B Offshore Platform Extended support on explosion analysis	local representative for Gexcon; technical activities: extended support to Clienton for the set up execution and interpretation of FLACS explosion analyses



COURSES (as instructor)

Client	Country	City	Date	Course / Event
CERN	Switzerland	Geneve	02/2018	Electrical Components Explosion Hazard
Auriga	Italy	Fano	07/2016	FLACS update (update course on new features)
CESI	Italy	Seriate	11/2015	FLACS update (update course on new features)
open	Italy	Milan	10/2015	FLACS II (advanced course on gas disp and exp)
CNVVF	Italy	Rome	07/2015	FLACS Fire (course on CFD fire analysis)
CNVVF	Italy	Rome	07/2015	DESC (course on dust explosion)
CNVVF	Italy	Rome	12/2014	FLACS Fire (course on CFD fire analysis)
CNVVF	Italy	Rome	12/2014	Short course on Transformer Explosions
open	Malaysia	KualaLumpur	08/2014	FLACS II (advanced course on gas disp and exp)
open	Japan	Tokyo	07/2014	FLACS I (course on gas dispersion and explosion)
open	Japan	Tokyo	07/2014	FLACS II (advanced course on gas disp and exp)
open	USA	Houston	06/2014	FLACS I (course on gas dispersion and explosion)
open	France	Paris	05/2014	FLACS I (course on gas dispersion and explosion)
open	Italy	Milan	03/2014	FLACS I (course on gas dispersion and explosion)
open	Japan	Tokyo	12/2013	FLACS I (course on gas dispersion and explosion)
open	Italy	Milan	09/2013	FLACS I (course on gas dispersion and explosion)
open	Malaysia	KualaLumpur	06/2013	FLACS I (course on gas dispersion and explosion)
Saipem	Italy	Milan	05/2013	FLACS GEO (course on geometry modelling)
Saipem	Italy	Milan	05/2013	FLACS PROB (course on probabilistic risk analysis)
open	UK	Manchester	03/2013	FLACS I (course on gas dispersion and explosion)
DNV-GL	UAE	Abu Dhabi	02/2013	FLACS I (course on gas dispersion and explosion)
open	Malaysia	KualaLumpur	02/2013	FLACS I (course on gas dispersion and explosion)
open	Norway	Bergen	01/2013	FLACS II (advanced course on gas disp and exp)
open	Japan	Tokyo	12/2012	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	11/2012	FLACS I (course on gas dispersion and explosion)
CNVVF	Italy	Rome	09/2012	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	09/2012	FLACS I (course on gas dispersion and explosion)
UNINA	Italy	Naples	06/2012	DESC (course on dust explosion)
open	UK	Manchester	06/2012	FLACS I (course on gas dispersion and explosion)
open	Italy	Milan	04/2012	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	12/2011	FLACS I (course on gas dispersion and explosion)
VSB	Czech Republic	Ostrava	10/2011	FLACS I (course on gas dispersion and explosion)
open	Italy	Milan	09/2011	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	06/2011	FLACS I (course on gas dispersion and explosion)
open	France	Paris	04/2011	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	02/2011	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	11/2010	FLACS I (course on gas dispersion and explosion)
SITSPR	Russia	StPetersburg	10/2010	FLACS I (course on gas dispersion and explosion)
open	Italy	Milan	09/2010	FLACS I (course on gas dispersion and explosion)
open	South Korea	Seoul	06/2010	FLACS I (course on gas dispersion and explosion)
open	UK	Manchester	06/2010	FLACS I (course on gas dispersion and explosion)
open	Italy	Milan	03/2010	FLACS I (course on gas dispersion and explosion)
VSB	Czech Republic	Ostrava	02/2010	FLACS I (course on gas dispersion and explosion)



LECTURES

Client	City	Date	Lecture
Politecnico di Milano	Milan	10/05/2017	The Buncefield lesson: effect of vegetation on Vapour Cloud Explosions
GRICU	Ferrara	19/09/2014	The Buncefield lesson: effect of vegetation on Vapour Cloud Explosions
KGS	Seoul	07/08/2014	Simulation of toxic gas dispersion with FLACS
AIAS	Milan	14/11/2013	Buncefield accident: main results of FLACS numerical tool analysis
CNVVF	Rome	07/05/2013	An LPG explosion scenario reconstruction based on CFD simulations
IEEE 979	Pittsburg	29/04/2013	Gexcon experience on Transformer Explosions
AIAS	Milan	18/05/2012	Use of FLACS for Risk Assessment: Methodologies and case histories
Politecnico di Torino	Turin	23/04/2010	Metodi avanzati per la modellazione di esplosioni di gas e polveri
Collegio Architetti Ingegneri di Monza	Monza	30/06/2009	Introduzione alle problematiche di esplosione di gas e polveri
Università La Sapienza	Rome	26/03/2009	Introduction to Gas & Dust Explosion

OTHER ACADEMIC & TRAINING ACTIVITIES

Co-advisor for following Master Thesis works:

- L.Ciulla, M.Rizzotto: “Esplosioni di trasformatori di potenza: analisi fluidodinamica del termine sorgente”; Advisor Prof. V.Busini, Politecnico di Milano, Corso di Laurea Magistrale in Ingegneria della Prevenzione e della Sicurezza nell’Industria di Processo, AA 2014/2015
- S.Rodella: “Development of blast load evaluation method on medium objects in FLACS”; Advisor Prof. V.Busini, Politecnico di Milano, Corso di Laurea Magistrale in Ingegneria della Prevenzione e della Sicurezza nell’Industria di Processo, AA 2013/2014
- A.Boieri, P.D.Randellini: “Valutazione di una metodologia di analisi di incendio in sottostazioni elettriche di trasformazione interrate”; Advisor Prof. C.Ortolani, Politecnico di Milano, Corso di Laurea in Ingegneria Energetica, AA 2005/2006
- V.Rossi: “Sviluppo di una metodologia per l’analisi degli incidenti di trasformatori di potenza”; Advisor Prof. P.Andreini, Politecnico di Milano, Corso di Laurea in Ingegneria Meccanica, AA 2003/2004

Co-lecturer for following courses:

- FAST, Corso d’aggiornamento: “Fisica e chimica degli incendi e delle esplosioni - teoria di base e analisi di casi reali”, 24-25 Gennaio 2019
- Fondazione dell’Ordine degli Ingegneri della Provincia di Milano, Corso d’aggiornamento in materia di Prevenzione Incendi (D.M. 05/08/2011): “Antincendio - Approccio prestazionale alla sicurezza contro incendi ed esplosioni: Cenni alla normativa e introduzione alla modellistica”, 17 Novembre 2015
- Fondazione dell’Ordine degli Ingegneri della Provincia di Milano, Corso d’aggiornamento in materia di Prevenzione Incendi (D.M. 05/08/2011): “Antincendio - Approccio prestazionale alla sicurezza contro incendi ed esplosioni: Analisi e casi applicativi in ambienti civili ed industriali”, 24 Novembre 2015
- Fondazione dell’Ordine degli Ingegneri della Provincia di Milano, Corso d’aggiornamento: “Modellistica Antincendio - Approccio prestazionale alla sicurezza contro incendi ed esplosioni. Cenni alla normativa e introduzione alla modellistica”, 15 Maggio 2017
- Fondazione dell’Ordine degli Ingegneri della Provincia di Milano, Corso d’aggiornamento: “Modellistica Antincendio - Approccio prestazionale alla sicurezza contro incendi ed esplosioni. Analisi e casi applicativi in ambienti civili ed industriali”, 22 Maggio 2017



PAPERS AND PRESENTATIONS

44. F. Chillè, P. Middha: "Metodologie ingegneristiche avanzate per la valutazione del rischio di incendio nei complessi industriali", PreVInTo18, Turin, 8-9/06/2018
43. N. Salaun, F. Chillè, N. Daudey - "*Structural response based on CFD blast analyses: part 1, application to nuclear safety: methodology for design verification of a nuclear power plant against confined hydrogen explosions*", 2nd International Conference on Structural Safety under Fire & Blast, Brunel University, London, UK, 10-12/09/2017
42. F. Chillè, N. Salaun, N. Daudey - "*Structural response based on CFD blast analyses: part 2, application to reinforced concrete structures*", 2nd International Conference on Structural Safety under Fire & Blast, Brunel University, London, UK, 10-12/09/2017
41. F. Chillè, N. Salaun, N. Daudey - "*Structural response based on CFD blast analyses: part 3, application to industrial equipment*", 2nd International Conference on Structural Safety under Fire & Blast, Brunel University, London, UK, 10-12/09/2017
40. F. Chillè, A. Fracchia, M. Andreini, F. Boattini, S. La Mendola - "*Handling Oil insulated electrical components Explosion hazard*", 5th Magdeburg Fire and Explosion Days, Magdeburg, 23-24/03/2017
39. F. Chillè - "*Potenzialità dell'uso di modelli CFD per lo studio degli effetti di esplosioni ed incendi*", L'investigazione antincendi: stato dell'arte e sviluppi futuri, Roma, 22-23/03/2017
38. F. Chillè, L. Rogstadkjernet - "*Handling uncertainties in Transformer Explosion Risk Assessment studies for Underground power plants*", Hydro 2015, Bordeaux, 26-28/10/2015
37. O. Westberg, F. Chillè - "*Risk assessment studies in underground power plants*", Hydro 2014, Cernobbio, 13-15/10/2014
36. P. Cancelliere, A. De Rosa, F. Chillè - "*An LPG explosion scenario reconstruction based on CFD simulations*", Investigating the causes of fire, 2nd International Workshop, ISA, Rome, 7/5/2013
35. F. Chillè, A. Fracchia - "*A probabilistic approach to Transformer Explosion risk analysis*", IECS 2013, 9th ICOLD European Club Symposium, Sharing experience for safe and sustainable water storage, Venice, 10-12/4/2013
34. F. Chillè, F. Duarte, A.L. Fuglestad - "*Transformer explosion risk assessment of Frades II HPP*", Hydro 2012, Bilbao, 29-31/10/2012
33. S.G. Davis, P.C. Hinze, F. Gavelli, K. Van Wingerden, O.R. Hansen, F. Chillè - "*Dust Explosions: Case Study of Dryer Explosions and Poor Explosion Vent Design*", 8th Global Congress on Process Safety, Houston, TX, April, 1-4/2012
32. F. Chillè, A.L. Fuglestad - "*Transformer explosion risk assessment using FLACS code*", Brannforum 2012, Trondheim, Feb 6-8th 2012
31. V. de Cesare, F. Bontempi, K. van Wingerden, F. Chillè, F. Petrini - "*Structural response against explosion loads*", Handling exceptions in Structural Engineering: structural reliability, accidental scenarios, project complexity, Session 'Explosion Loads Modeling', Rome, 8-9/7/2010
30. N. Brini, F. Chillè - "*Gas explosion accident in a multi-store building, a Case History*", Handling exceptions in Structural Engineering: structural reliability, accidental scenarios, project complexity, Session 'Explosion Loads Modeling', Rome, 8-9/7/2010
29. A. Frigerio, F. Chillè, L. Sgambi - "*Explosions in power plants and urban substations due to internal fault in electrical equipment*", Handling exceptions in Structural Engineering: structural reliability, accidental scenarios, project complexity, Session 'Explosion Loads Modeling', Rome, 8-9/7/2010
28. A. Frigerio, F. Chillè, G. Mazzà - "*Study of thermal effects occurring in a concrete arch dam during its construction*", 2nd International Conference on Long Term Behaviour Of Dams, Graz, Austria, 12 - 13/10/2009
27. F. Chillè, J.R. Bakke, K. van Wingerden - "*Use of CFD tools for prediction of explosion loads*", Handling



exceptions in Structural Engineering: structural reliability, accidental scenarios, project complexity, Rome, 13-14/11/2008

26. F. Chillè, A. Frigerio - "*Safety assessment of an arch dam*", 16th Italian ABAQUS Users' Meeting Milan, 10-12/10/2005
25. F. Chillè, A. Frigerio - "*Simulation of the construction phases of arch dams*", 16th Italian ABAQUS Users' Meeting Milan, 10-12/10/2005
24. F. Chillè, A. Brunelli, D. Caputo, V. Maugliani - "*The bump of a boat into a gate-structure dam: an unusual risk scenario*", International Congress on conservation and rehabilitation of dams - Madrid 11-13/11/2002
23. P.R. Bianchi, M.J. Barros, C.L.S. Fonseca, L.F. Giacomet, F. Chillè, F. Polidoro - "*Explosion and fire protection in Itaipu power plant – a challenge*", SEBK - Safety Measures against explosion and fire in Power Plants Final Meeting, Oslo, 24/01/2002
22. F. Chillè, F. Casadei, J.P. Halleux, A. Sala - "*Transient Fluid-structure interaction algorithms for large industrial applications*", Computer methods in applied mechanics and engineering (CMAME), 190 (2001) 3081-3110, 2001
21. P. C. Masarati, E. G. Bon, F. Chillè, C. Massaro - "*Analysis of the effects induced by alkali-aggregate reaction (AAR) on the structural behavior of Pian Telesio dam*", Sixth ICOLD Benchmark Workshop on Numerical Analysis of Dams; Salzburg, Austria; 17-19/10/2001
20. F. Polidoro, A. D. Cadore, F. Chillè, A. Fenelli, A. Scaglia - "*Confinement of blast phenomena caused by hypothetical ill-functioning of power transformers in Pont Ventoux HPP*", Hydro 2001 - Opportunities and Challenges; Riva del Garda, Italia, 27-29/9/2001
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