

## **Aniello Amendola's Selected Publications**

**A. Books and Special Issues**

**B. Nuclear Power Plant Engineering and Safety**

**C. Systems Reliability, Probabilistic Safety Analysis and Uncertainties**

**D. Dynamic Reliability, Accident Sequences and Man-Machine Analysis**

**E. Major Accident Risk Assessment and Related Uncertainties**

**F. Risk Regulation and Governance**

**G. Integrated Disaster Risk Management**

## **A. Books and Special Issues**

- **Reliability Data Bases**, A. Amendola and A. Z. Keller, eds., Reidel Publisher, 1987
- **Reliability Engineering**, A. Amendola and A. Saiz de Bustamante, eds., Kluwer Academic Publishers, 1988
- **Common Cause Failure Analysis in Probabilistic Safety Assessment**, A. Amendola, ed., Kluwer Academic Publishers, 1989
- **Natural Risk and Civil Protection**, T Horlick Jones, A. Amendola and R Casale, eds., E & FN SPON, 1995
- ***The Seveso II Directive (96/82/EC) On The Control Of Major Accident Hazards Involving Dangerous Substances***, A. Amendola and K Cassidy, eds., special issue of the **Journal of Hazardous Materials**, Vol. 65. Nos 1-2, 1 March 1999
- ***Risk Assessment And Environmental Decision Making***, A. Amendola and D. Wilkinson, eds. special issue of the **Journal of Hazardous Materials**, Vol. 78 – NOS 1-3, 3 November 2000
- ***Flood Risk In Europe***, J. Linnerooth-Bayer and A. Amendola, eds., special paper collection in **Risk Analysis**, Vol. 23, – No 3, June 2003
- ***Disaster Risk Management: Pro-Active Financing To Reduce Vulnerability***, A. Amendola, J. Linnerooth-Bayer, N.Okada, and P.Shi, eds., special issue of **Environmental Hazards**, Vol. 7/1, 2007
- ***Towards Integrated Disaster Risk Management: Case Studies And Trends From Asia***, A. Amendola, J. Linnerooth-Bayer, N.Okada, and P. Shi, eds., special issue of **Natural Hazards**, 44/2, February 2008

## **B. Nuclear Power Plant Design and Safety**

### **Papers in journals**

- A. Amendola: *Effective Equally Limiting Hot Channels in Reactor Thermal Design*. **Nucl. Sci. Eng.** 39/121 (1970)
- A. Amendola: *Statistical Evaluation of the Maximum Temperatures in Reactor Cores*. **Nucl. Sci. Eng.** 41,343-350 (1970)
- A. Amendola: *Expected Number of Subassembly Failures Due to Hot Spot Occurrences*. **Nucl. Sci. Eng.** 43, 239-240 (1971)
- A. Amendola: *The Influence of Power Flattening on Hot Channel Factors*. **Nucl. Sci. Eng.** 44, 435-437 (1971)
- A. Amendola: *Hot Spot Expectation in Nuclear Reactor Core Thermal Design*. **Nucl. Sci. Eng.** 49, 106-108 (1972)

### **Selected conference papers and reports**

- A. Amendola and P. Giordano: *Probable gain due to temperature measurements in power reactors based on hot channel probability analysis*, KFK Externer Bericht 9/67-11 (1967)
- A. Amendola: *A statistical Method for Evaluation of Hot Channel Factors in Reactor Design*. KFK-843-EUR 3979 (1968)
- A. Amendola: *Eine statistische Methode für die Berechnung des Heißkanalfaktors* Reaktortagung des Deutschen Atomforums, Frankfurt/M, April (1969)
- A. Amendola: *Statistical Hot Spot Factors for Gas-Cooled Fast Reactors*, Lugano Group - Second Specialist Meeting on Fuel and Materials, Karlsruhe, 1970
- A. Amendola: *Advanced Statistical Hot Spot Analysis*.. KFK-1134-EUR 3687 (1970)
- A. Amendola: *Optimization of Reactor Thermal Design by Statistical Hot Spot Analysis*.. KFK-1284-EUR 3682 (1970)
- A. Amendola: Beitrag an der **Durchführbarkeitsstudie für den Schnellen Hochflusstestreaktor FR3**, zusammengestellt von M. Fischer, KFK-1356 (1971)
- A. Amendola: **THEDRA - A Code for Thermal Design Reliability Analysis of a Reactor Core**. KFK-1507-EUR 4722 (1971)
- A. Amendola und K. Doetschmann: *THECA, ein Rechenprogramm zur dreidimensionalen thermischen Auslegung schneller Reaktorkerne einschließlich einer statistischen Heißstellen - und Zuverlässigkeitsanalyse* Reaktortagung 1972 des Deutschen Atomforums, Hamburg
- K. Doetschmann und A. Amendola: *Kenngößen bei der thermohydraulischen Gesamtauslegung Schneller Reaktorkerne*. KTG-Fachtagung 1973, Jülich
- A. Amendola: **Reliable Core Thermal Design**, IAEA Panel Meeting on Principles of Hot-Channel Factor Calculations for LMFBR's, Karlsruhe, 1973, in IAEA-166, Vienna, (1974)

- K. Doetschmann and A. Amendola: **THECA - Ein Programmsystem zur dreidimensionalen thermohydraulischen Auslegung schneller Reaktorkerne**. KFK-2372 - EUR 4722 (1977)
- A. Amendola, GM Bovalini, P. Corticelli, P. Iannuzzo, M. Pezzilli, L. Presciuttini: *Some aspects of core and fuel design in the Italian Fast Reactor Programme*, IAEA Conference on Design, Construction and Operating Experience of Demonstration LMFBRs, Bologna, 1978, in IAEA-SM-225/58
- A. Amendola, S. Capobianchi, G. Mancini, L. Olivi and G. Volta: *Identification and evaluation of accident sequences in nuclear power reactors*. IAEA -CN-39/8; International Conference on Current Nuclear Power Plant Safety Issues, Stockholm, 20-24 October 1980.
- A. Amendola, T. Fortescue, G. Mancini and B. Lisanti: *Analysis of Blowdown Experiments: An Application of Statistical Techniques for Model Validation and Test Design*. ANS/ENS Topical Meeting on PRA, Port Chester N.Y. (Sept. 20-24 1981)
- A. Amendola, M Astolfi, S. Canali and L Olivi: *Probabilistic Consequence Analysis of ATWSs in a PWR Plant*. ANS/ENS Topical Meeting on PRA, Port Chester N.Y. (Sept. 20-24 1981)
- A. Martelli, M. Forni, A. Amendola AC Lucia, and G. Maresca: *Effects of the uncertainties on the seismic behavior of a fast breeder reactor*. VII SMIRT (Structural Mechanics in Reactor Technology), Chicago (USA), August, 1983
- A. Amendola, S Canali, M. Forni, AC Lucia, G. Maresca, A. Martelli, and L Olivi: *Uncertainty evaluation of fast reactor core seismic response*. OECD/NEA/CSNI Livermore, CA (USA), 16-19 May, 1983
- WL Riebold, A Amendola, TR Fortscue, H Stadtke, A Annunziato and B Lisanti: *Use of LOBI test facility for plant simulation*, ANS Topical Meeting "Anticipated and Abnormal Plant Transients in Light Water Reactors, Jackson, Wyoming, 26-29 September, 1983
- A. Amendola, A. Ancarani, PC Cacciabue and D. Zanobetti: *Work Carried Out Through the Commission of the European Communities in the Field of Simulation of Nuclear Power Stations*. International Conference on Power Simulation, Guernavaca, Mexico, 19-21 November 1984
- A. Amendola, G Mancini, G Volta and W Vinck: *Probabilistic Safety Assessment: Actions and Priorities in the EC-Frame*. SNS/ENS (ANS) International Topical Conference on Safety Assessment and Risk Management, PSA'87, Zurich, CH August30 to September 4, 1987

## C. Systems Reliability, Probabilistic Safety Analysis and Uncertainties

### Papers in journals or books

- A. Amendola and S. Contini: *About the definition of coherency in binary systems reliability analysis*. In **Synthesis and Analysis Methods for Safety and Reliability Studies**, G.Apostolakis, S.Garribba and G.Volta, eds., Plenum Press, 1980
- A.M. Games, M. Brewood, A. Amendola, P Martin and AZ Keller: *Common Cause Failure Investigations Using the European Reliability Data System*. **Reliability Engineering**. 13 (1985) 33-44
- A Amendola: *Common Cause Failure Analysis: Insight Gained From Reliability Benchmark Exercises* in Eds. AG Colombo and AZ Keller: **Reliability Modelling and Applications**. Reidel Publisher,1986
- A. Amendola: *Uncertainties in Systems Reliability Modelling: Insight gained through European Benchmark Exercises*. **Nucl. Eng. Des.** 93 (1986) 215-225
- A. Amendola, A Besi, G Mancini and A Poucet: *Euro-cooperation toward Validated Models, Procedures and Data for PSA*. **Nuclear Europe** (1987) 6/7,37-38
- A Amendola: *PSA benchmark studies* in **ESRA newsletter**. Vol.4.-No 3 -December 1987
- A. Amendola *Common Cause Failure Analysis in Reliability and Risk Assessment* in A. Amendola and A. Saiz de Bustamante Eds. **Reliability Engineering**. Kluwer Academic Publishers, 1988
- A. Amendola and S. Contini: *Systems Reliability Analysis in the Process Industry* in A. Amendola and A. Saiz de Bustamante Eds. **Reliability Engineering**. Kluwer Academic Publishers, 1988
- A. Amendola *Classification of Multiple Related Failures*, in A Amendola ed. **Common Cause Failure Analysis in Probabilistic Safety Assessment**. Kluwer Ac. Pub. (1989)
- A. Amendola: *Human Reliability Models*. In **Systems Reliability Assessment**. Eds. A.G. Colombo and A. Saiz de Bustamante. Kluwer Academic Publishers. 1990
- A. Amendola: *Prefazione*. P. Vestrucci: "**Modelli per la valutazione dell'affidabilità umana**". Franco Angeli, Milano, 1990

### Selected conference papers and reports

- A. Amendola et al.: *Analysis of complete logical structures in system reliability assessment*. EUR-6886EN (1980)
- A. Amendola et al.: *Response Surface Methodology Development for Nuclear Safety Analysis. A test problem*; EUR 7031 (1980)
- CA. Clarotti, A. Amendola, S. Contini and G. Squellati: *Fault Tree Technique: Advances in Probabilistic and Logic Analysis*.. ANS/ENS Topical Meeting on PRA, Port Chester N.Y. (Sept. 20-24 1981)

- A. Amendola, A. Poucet, S. Contini, G. Squellati, AM Amendola and R Mongelluzzo: *Component Modelling and Computer Aided Fault Tree Construction: Reliability in Electrical and Electronic Components and Systems*. Fifth European Conference on Electrotechnics - EUTOCON '82 Meeting, Copenhagen, DK, June 14-18, 1982 (Eds. E. Lauger and J Møltoft, North-Holland Publishing Company)
- A Poucet, P De Meester, A Amendola and A Caretta: *Interactive Reliability Analysis by Using SALP and Computer Aided Fault Tree Synthesis*. CNES - CNET ESA -SEE Colloque International sur la Fiabilité et la Maintenabilité, Toulouse, France, October 18-23, 1982
- G. Mancini and A. Amendola: *Human Models and the Problem of Data*. IV Euredata Conference, Venezia, March 23 - 25, 1983
- A. Amendola et al.: *MUP, CEC-DES, STRADE: codes for uncertainty propagation, experimental design and stratified sampling techniques* EUR 8244 EN (1983)
- S Contini, G Squellati and A Amendola (ed.) *Automated Fault Tree Construction*. EUR 9168 EN, JRC 1984
- A. Amendola, V Mangoni, R Mongelluzzo, A Testa and V Vaccaro.: *Electrical Component Modelling for Computer Aided Reliability Analysis*. AMSE Intern. Conf. "Modelling and Simulation" Minneapolis, USA (1984).
- A Amendola: *Lesson learned from the systems reliability benchmark exercise*, 3SF 3rd European Symposium on System Safety, Cannes, F, 19-21 September 1984
- A. Amendola: *Results of the Reliability Benchmark Exercise and the Future CEC-JRC Programme*. ANS/ENS Topical Meeting on Probabilistic Safety Methods & Applications, San Francisco, CA, USA. (24-28 February 1985)
- AM Games, A. Amendola, P Martin: *Exploitation of a Component Event Data Bank for Common Cause Failure Analysis*. ANS/ENS Topical Meeting on Probabilistic Safety Methods & Applications, San Francisco, CA, USA. (24-28 February 1985)
- AM Games, P Martin and A Amendola: *Multiple Related Component Failure Events - Risk, Design, Maintenance and Cost*, Reliability '85, Birmingham 10-12 July, UK, 1985
- A. Amendola, "Reliability Benchmark Exercise" Post SMIRT-8 Seminar " The role of data and judgment in PRA" Bruxelles. August 26-27 1985 - Missing Test
- A. Amendola: *Systems Reliability Benchmark Exercise - Part I/II*. EUR 10696 EN/I-II, JRC, 1986
- A Poucet, A Amendola and PC Cacciabue: *CCF-RBE, Common Cause Failure Benchmark Exercise*. EUR 11054 EN, 1987
- A. Poucet, A. Amendola and PC Cacciabue: *European Benchmark Exercise on Common Cause Failure Analysis*. SNS/ENS (ANS) International Topical Conference on Safety Assessment and Risk Management, PSA'87, Zurich, CH August 30 to September 4, 1987
- A. Amendola, G Mancini, G Volta and W Vinck: *Probabilistic Safety Assessment: Actions and Priorities in the EC-Frame*. SNS/ENS (ANS) International Topical Conference on Safety Assessment and Risk Management, PSA'87, Zurich, CH August 30 to September 4, 1987
- A. Amendola: *Report on Methodology, Common Cause Failures, and Benchmark Exercise Papers*. SNS/ENS (ANS) International Topical Conference on Safety

Assessment and Risk Management, PSA'87, Zurich, CH August 30 to September 4, 1987

- A. Amendola, PC Cacciabue, S Contini and A. Poucet: *Technical Specifications: Insight Gained From The Reliability Benchmark Exercises And From The Development Of Computerised Support Systems*. NEA/UNIPED Specialist Meeting on Improving Technical Specifications, Madrid, September 7-11, 1987
- A. Amendola and A Besi: *Assessment of models, procedures and data for PSA*. IAEA Workshop "Advances in Reliability Analysis and Probabilistic Safety Assessment" Seregeliyes - Budapest September 7-11, 1987
- A. Amendola, U Bersini, PC Cacciabue, G Mancini and A Poucet: *PSA models for system and human reliability: Results of benchmark exercises and needs*. IAEA Conference on Nuclear Power Performance and Safety. Vienna, 28 September -2 October, 1987
- A Amendola: Accident sequence identification - lessons from the reliability benchmark exercise. IAEA - URSS project workshop, Hotel MIR, Moscow, May 1988
- A. Poucet and A. Amendola: *State of the art in PSA reliability modelling as resulting from the international benchmark exercises project*. NUCSAFE Conf. Avignon, F. October 2-7 (1988)
- G. Volta and A. Amendola: *Knowledge, Judgement and Uncertainty in Current Practices of Risk Analysis*, Paris, SRA-Europe Conference: Risk Analysis: Underlying Rationales, 16-19 December 1991

## **D. Dynamic Reliability, Accident Sequence and Man-Machine Analysis**

### **Papers in journals or books**

- A. Amendola and G. Reina: *Event Sequence and Consequence Spectrum: A methodology for Probabilistic Transient Analysis*. **Nucl. Sci. Eng.** 77,297-315 (1981)
- Z. Nivolianitou, A. Amendola and G. Reina: *Reliability Analysis of Chemical Processes by the DYLAM Approach*. **Reliability Engineering**, 14 (1986) 163-182
- P.C. Cacciabue, A. Amendola and G. Cojazzi: *Dynamic Logical Analytical Methodology versus Fault Tree: The case study of the auxiliary feedwater system of a NPP*. **Nuclear Technology**, Vo74 pp 195-207 (1986)
- A. Amendola, U Bersini, PC Cacciabue and G Mancini: *Modeling operators in accident conditions: advances and perspectives on a cognitive model*. **Int. J. Man-Machine Studies** (1987) 27,599-612
- A. Amendola: *Accident Sequence Dynamic Simulation vs. Event Trees*. **Reliability Engineering and System Safety**, 22(1988) 3-25. (Published also in the book: *Accident Sequence Modeling*, Eds. G.Apostolakis, P. Kafka and G. Mancini, Elsevier Applied Science, 1988)
- A. Amendola et al.: *Application of DYLAM to the safety analysis of chemical plants*. **International Journal of Quality and Reliability Management** 5, 2, 48-59 (1988)
- A. Amendola: *The Dylam Approach to Systems Safety Analysis in Systems Reliability Assessment*. Eds. A.G. Colombo and A. Saiz de Bustamante. Kluwer Academic Publishers. 1990

### **Selected conference papers and reports**

- A. Amendola and G. Reina: *A new probabilistic approach to LMFBR core accident sequence evaluation*. Int. Meet. on Fast Reactor Safety Technology, Seattle, Wash, USA, August 19-23 (1979)
- A. Amendola and G. Reina: *A new probabilistic approach to LMFBR core accident sequence evaluation*. Seminar at UCLA - Los Angeles, August 22, 1979
- A. Amendola and G. Reina: *ESCS (Event Sequence and Consequence Spectrum), a general technique suitable for on line incident diagnostic*. 2nd Workshop "Assistance to Operators in Emergency Situations", Ispra, May 28-30, 1980
- A. Amendola and G. Reina: *Event Sequences and Consequence Spectrum: A new approach to Dynamic System Safety*. ANS/ENS/KTG Advances in Mathematical Methods for the Solution of Nuclear Engineering Problems, München (D) April 27-29, 1981
- A. Amendola and G. Reina: *Event Sequences and Consequence Spectrum: A new approach to Dynamic System Safety*. Seminar at GRS/Garching (D) April 30, 1981

- G. Reina and A. Amendola: *DYLAM: a Computer Code for Event Sequences and Consequence Spectrum Analysis*. ANS/ENS Topical Meeting on PRA, Port Chester N.Y. (Sept. 20-24 1981)
- A. Amendola and G. Reina: *Human Operator Dynamic Modelling by the ESCS Analysis Technique*. ANS/ENS International Meeting on Thermal Reactor Safety, Chicago (USA) August 29 - September 2, 1982
- A. Ancarani, G. Van Reijen, A. Amendola, S. and G. Mancini: *Human Factors in Nuclear Power Reactors Safe Operation; Survey of Researches Carried Out Through the Commission of the European Communities*. IAEA -CN-42/309; International Conference on Nuclear Power Experience, Vienna, 13-17 September 1982
- A. Amendola, G. Mancini, G. Reina and A. Poucet: *Dynamic and Static Models for Nuclear Reactor Operators: Needs and Application Examples*. IFAC/IFIP/IFORS/IEA Conference on Analysis, Design and Evaluation of Man-Machine Systems, Baden-Baden, D, September 27 - 29, 1982 , Proceedings by Pergamon Press A.
- Amendola and G. Reina: *DYLAM-1: A Software Package for Event Sequence and Consequence Spectrum Methodology*. EUR 9224 EN (1984)
- PC Cacciabue, A. Amendola and G Mancini: *Accident Simulator Development for Probabilistic Safety Analysis*,. ANS/ENS Topical Meeting on Probabilistic Safety Methods & Applications, San Francisco, CA, USA. (24-28 February 1985)
- A. Amendola, G Reina, and F Ciceri et al. *Dynamic Simulation of Man-Machine Interaction in Incident Control*. 2nd IFAC/IFIP/IFORS/IEA Conf. "Analysis, Design and Evaluation of Man-Machine Systems, Varese, Italy 10-12 September 1985 Proceedings by Pergamon Press
- A. Amendola, U Bersini, PC Cacciabue and G Mancini: *Modeling of the operators in accident simulation: JRC advances and perspectives*. Post NATO - ASI Conference on Intelligent Decision Support in Process Environments, Ispra 11-14 November 1986
- A. Amendola: *The DYLAM approach to Systems Safety and Reliability Assessment*, EUR 11361 EN 1987
- A. Amendola: *Accident Sequence Dynamic Simulation vs. Event Trees*. Post-SMiRT Seminar on Accident Sequence Modelling, München 24-25/ 8/ 87 A Amendola: Accident sequence identification - lessons from the reliability benchmark exercise. IAEA - URSS project workshop, Hotel MIR, Moscow, May 1988

## E. Major Accident Risk Assessment and Related Uncertainties

### Papers in journals or books

- A. Amendola et al.: *Uncertainties in chemical risk assessment: Results of a European benchmark exercise*. **The Journal of Hazardous Materials**. 29 (1992) 347-363
- D. Egidi, FP Foraboschi, G Spadoni, A Amendola: *The ARIPAR Project: Analysis of the Major Accident Risks Connected with Industrial and Transportation Activities in the Ravenna Area*, **Reliability Engineering and System Safety** 49 (1995) 75-79
- V. Cozzani, A. Amendola, and S. Zanelli: *The Formation of Hazardous Substances as a Consequence of Accidental Events in the Chemical Industry*. **La Chimica and L' Industria**. Dicembre 1997. 79 pp 1357-1362
- A Amendola and S Contini: *A methodology for risk analysis of industrial areas - The Aripar case study* in C Kirchsteiger, M Crhistou and G Papadakis **Risk Assessment and Management in the Context of the Seveso II Directive**. 1998. Elsevier

### Selected conference papers and reports

- A. Amendola: *Uncertainty in risk estimates*. Conference on ENVIRONMETRICS, Como, September 1990
- S. Contini, A. Amendola and I. Ziomas: *Benchmark exercise on Major Hazard Analysis: Vol. 1. Description of the project, comparison of the results and conclusions*. EUR 13386 EN (1991)
- G. Drogaris, A. Amendola et al.: *Benchmark exercise on Major Hazard Analysis: Vol. 3. Seismic Analysis*. EUR13898EN (1991)
- A. Amendola, S. Contini, and I Ziomas: *Procedures and uncertainties in chemical risk assessment: results of a European Benchmark Exercise*, Taormina, 7th Loss Prevention Symposium, 4-8 May 1992
- S. Contini, A. Amendola and I Ziomas: *Hazard Identification and Accident Frequency Assessment Procedures: Insights gained from a European Benchmark Exercise*, Copenhagen, ESREL June 1992
- D. Egidi, F.P. Foraboschi, G. Spadoni, A. Amendola: *The ARIPAR Project: Analysis of the Industrial and Transportation Risk Connected with the Ravenna Area*. PSAM II conference, San Diego, CA (USA) March 20-25, 1994
- V Cozzani, A Amendola, S Zanelli: *Hazardous substances formed as a consequence of industrial fires*. Proceedings of the workshop "Industrial Fires III" Risø, DK, 17-18 September 1996. EUR 17477 EN
- V Cozzani, A Amendola, S Zanelli: *The application of lumping methods to the identification of hazardous substances that may be formed in industrial accidents*. The first European Congress on Chemical Engineering. Florence, Italy May 4-7, 1997
- Cozzani, V.; Zanelli, S.; Amendola, A.; Smeder, M. *Euclide Database For The Study Of Chemical Reaction Hazards*. New Risk Frontiers: Conference for the 10th Anniversary of the Society for Risk Analysis - Europe, Stockholm June, 15-17 (1997)

- V. Cozzani, A. Amendola, S. Zanelli: "Formation and release of hazardous substances as a consequence of out of control conditions". Proc. 9th International Symposium on Loss prevention and Safety Promotion in the Process Industries, Editorial Signo: Barcelona, 1998; p.1276-128
- M. Christou and A Amendola, How lessons learned from Benchmark Exercises can improve the quality of risks studies. in Probabilistic Safety Assessment and Management PSAM 4, A. Mosleh and R.A.Bari (eds.), Proc. of the Int'l PSAM 4 Conference, held in New York City, USA, September 13-18, 1998, Springer, Vol 2, pp. 840-845.
- A Amendola: *Benchmarking risk assessment procedures* Seminar of the Danish safety analysis society, 11 May 2000
- A Amendola: *Differences in assessment of risks of chemical accidents* EU-USA workshop on Harmonization of technical aspects of risk informed decision making. Stresa, Italy 21-24 June 2000
- M. Christou, K. Lauridsen, A. Amendola, F. Markert, I. Kozine *ASSURANCE: Assessment of Uncertainties in Risk Analysis of Chemical Establishments* In: Proceedings. Vol. 1. 5. International conference on probabilistic safety assessment and management (PSAM 5), Osaka (JP), 27 Nov - 1 Dec 2000. Kondo, S.; Furuta, K. (eds.), (Universal Academy press, Tokyo, 2000) (Frontiers Science Series) p. 369-374
- F. Markert, I. Kozine, K. Lauridsen, A. Amendola, M. Christou *Sources and magnitudes of uncertainties in risk analysis of chemical establishments. First insights from a European benchmark study.* In: Loss Prevention and Safety Promotion in the Process Industries. Proceedings of the 10th International Symposium, 19-20 June 2001, Stockholm, Sweden. H.J. Pasman et al. (eds.), (Elsevier, 2001) p. 371-384.
- Lauridsen, K.; Kozine, I.O.; Amendola, A.; Fiori, M., EU advances in identifying sources of uncertainty in risk analyses. In: Modelling and analysis of safety, risk and quality in complex systems. International scientific school, Saint-Petersburg (RU), 18-22 Jun 2001. (Institute of Problems of Mechanical Engineering of Russian Academy of Sciences (IMPE RAS), St. Petersburg, 2001) p. 159-163
- Kurt Lauridsen, Michalis Christou, Aniello Amendola, Frank Markert, Igor Kozine *Assessing the uncertainties in the process of risk analysis of chemical establishments Part I.* ESREL, Torino, 16-20 September 2001
- Kurt Lauridsen\*, Michalis Christou, Aniello Amendola, Frank Markert\*, Igor Kozine\* *Assessing the uncertainties in the process of risk analysis of chemical establishments Part II.* ESREL, Torino, 16-20 September 2001
- M. Christou, Z. Nivolianitou, K. Lauridsen, A. Amendola, F. Markert, P. Crossthwaite, D. Carter, D. Hourtolou, M. Molag, G. Spadoni, J. Tiihonen, I. Kozine, A. Aneziris, S. Gadd, I.A Papazoglou: *Implications Of The Uncertainties Present In Risk Assessment Of Chemical Installations To Risk-Informed Decision Making: The Case Of Land-Use Planning.* ESREL, Torino, 16-20 September 2001
- Lauridsen, K.; Amendola, A.; Christou, M.; Markert, F.; Kozine, I., Uncertainties in risk analysis of chemical establishments - the ASSURANCE project. In: Progress in European research on major accident hazards. Seminar, Antwerp (BE), 10 Oct 2001. (Federal Ministry of Employment and Labour, Antwerp, 2001)
- A Amendola. *On the nature of uncertainties and risk assessment.* International Conference on Vitae Systems. Kyoto University, December 1-2, 2007

- A Amendola..*Operational Uncertainties in Risk Assessment*, IFIP/IIASA/GAMM Workshop on Coping with Uncertainty, IIASA, 12-16, December, 2004
- Kurt Lauridsen, Igor Kozine, Frank Markert, Aniello Amendola, Michalis Christou and Monica Fiori, **Assessment of Uncertainties in Risk Analysis of Chemical Establishments**, The ASSURANCE project. Final Summary Report – May 2002 - Risø-R-1344(EN)

## **F. Risk Management, Regulation and Governance**

### **Papers in journals or books**

- A Amendola: *The Major Accidents Reporting System* in **Reliability Data Bases**. Reidel Publisher (Eds.: A Amendola and A. Z. Keller) 1987
- H. Otway and A. Amendola: *Major Hazard Information Policy in the European Community: Implication for Risk Analysis*. **Risk Analysis**, Vo9, No4, 505-512 (1989)
- A. Amendola: *The EEC Directives on Environmental Hazards*. In **Environmental Impact Assessment** (ed. A. G. Colombo). Kluwer Ac. Publ. (1992)
- A. Amendola and B. De Marchi: *Communication in Chemical Emergencies*. **Journal of Contingencies and Crisis Management**, Vol.4 - 1, (March 1996) 45-50
- A. Amendola: *Approaches to risk analysis in the European Union*. In C Kirchsteiger, M Christou and G Papadakis **Risk Assessment and Management in the Context of the Seveso II Directive**. 1998. Elsevier
- G. Papadakis and A. Amendola (Eds.) **Guidance on the Preparation of a Safety Report to meet the Requirements of Council Directive 96/82/EC (Seveso II)** EUR 17690 EN, 1998
- A. Amendola. *Viewpoint: Performance measurement in managing for safety – a challenging issue*. **International Journal of Quality and Reliability Management**. Vol. 15 No1, 1998, pp. 10-12
- Michalis D. Christou, A. Amendola and Maria Smeder: *The Control Of Major Accident Hazards: The Land-Use Planning Issue*. **Journal of Hazardous Materials** 65 (1999) 151-178
- A. Amendola (Takabumi Fukuda transl.): *The control of Major Chemical Hazards: a EU perspective. in Japanese*. **Journal of Japan Society for Safety Engineering**. Vol. 38:5, 307-311 October 1999
- Amendola A.. *Risk assessment within the control process of Major Accident Hazards*. in R.R. McGuire and J.C. Compton (eds.) **Environmental Aspects of Converting CW Facilities to Peaceful Purposes, 223-240**, Kluwer Academic Publishers, NL, 2002
- A Amendola and DW Wilkinson: *Risk assessment and environmental policy making - Preface* in: 2000 A special issue (coeditor D Wilkinson) of the **Journal of Hazardous Materials** on "**RISK ASSESSMENT AND ENVIRONMENTAL DECISION MAKING**" Vol. 78 – NOS 1-3, 3 November 2000
- Amendola A.. *Recent paradigms for risk informed decision-making*. **Safety Science**. Vol 40/1-4, pp 17-30, 2001
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### **Selected conference papers and reports**

- A. Amendola: *The Reporting of Major Accidents within the European Community*. Seminario EUREDATA/Tema/3ASI, Milano, 9 October 1985

- A. Amendola: *The EEC approach to risk management*. IIASA seminar: Technological Risk in Modern Society. Laxenburg, A ( March 18-20,1987)
- A. Amendola and P Haastrup: *Risk Identification and Management: an integrated approach*. ISS, WHO, IPCS World conference on Chemical Accidents, Rome, 7-10 July 1987
- A Amendola, S Contini and P Nichele: *MARS: the Major Accident Reporting System*, Conference "Preventing Major Chemical & Related Process Accidents", 10-12 May 1988, London
- A. Amendola et al.: *MARS: the Major Accident Reporting System- Lessons learnt from accidents notified*. Seminar of the Seveso CA Authorities, Rethymnon, Crete, 6-7 October 1988
- H Otway and A Amendola: *Major Hazard Information Policy in the EC: Requirements, Status and Trends*. Euro-SRA Conference on "The Utility of Risk Analysis in Decision Making", IIASA, Laxenburg November 10-11, 1988
- A Amendola, H Otway and P Testori: *The European Community Policy to Control Major Hazards*. Workshop on "Policy Responses to Large Accidents", IIASA, Laxenburg, January 16-17, 1989
- A Amendola: *A comparison of National Approaches to Safety Report*. Fiabilitat i seguretat dels processos quimics, Tarragona, 4-6 Octubre 1989
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