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Founding Member Algerian Academy of Sciences and Technologies (AAST)
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CURRICULUM VITAE

EDUCATION AND QUALIFICATIONS

06/95-08/95–**Visiting Professor**, Institute of Industrial Science (University of Tokyo) **Japan**.
 10/90-09/93-ImperialCollege (University of London, **UK**).
 DIC: Diploma of ImperialCollege
 Ph.D. degree in Engineering Seismology: **The Seismicity of Algeria and Adjacent Regions, during the Twentieth Century**.
 09/78-06/80 -Stanford University (USA) **Master of Science degree in Civil Engineering**
 (Earthquake Engineering) and Post-Master courses.

CITATIONS:

<https://scholar.google.com/citations?hl=fr&user=93HmStAAAAAJ>
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SCIENTIFIC PRODUCTION

PUBLICATIONS IN JOURNALS

01. Benmokhtar A., Benouar D., Rahmoune A., “**Modeling the propagation of the effects of a disturbance in a critical infrastructure system to increase its resilience**”, Urbanism. Arhitectură. Construcții, 11(2). 2020.ISSN: 2069-0509, https://uac.incd.ro/Rez/Art_UAC_349_final.htm
02. Benfarhat, B., Benouar, D., Cartier, S. “**Perception of seismic design by architects in Algeria**”, Jamba Journal of Disaster Risk Studies, Volum 12, No. 1, 2020. ISSN: 1996-1421, DOI: <https://doi.org/10.4102/jamba.v%25vi%25i.864>
03. Nassima Benkaci, El Hadi Oubaiche, Jean-Luc Chatelain, Rabah Bensalem, Djillali Benouar & Khadidja Abbes (2018) **Non-Stability and Non-Reproducibility of Ambient Vibration HVSR Peaks in Algiers (Algeria)**, Journal of Earthquake Engineering, (2018), DOI: [10.1080/13632469.2018.1537903](https://doi.org/10.1080/13632469.2018.1537903)
04. S. Dorbani, Badaoui, M. and Benouar, D. **Effect of the uncertainty on the formulated seismic behavior of RC buildings to a given earthquake**, Asian J Civ Eng (2018) 19: 309. <https://doi.org/10.1007/s42107-018-0029-0>
05. M. Chennit, Benouar, D. and, Bourzam, A. **Periods and vibration modes for common RC frame structures**, GRAĐEVINAR 70 (2018) 2, 1-10, DOI: <https://doi.org/10.14256/JCE.1774.2016>

06. B. Chikh et al., **Seismic structural demands and inelastic deformation ratios: a theoretical approach**, *Earthquakes and Structures*, Vol. 12, No. 4 (2017) 000-000 DOI: <https://doi.org/10.12989/eas.2017.12.4.000>
07. Remki, M., Kibboua, A., Benouar, D. et al. **Seismic Fragility Evaluation of Existing RC Frame and URM Buildings in Algeria**, *Int J CivEng* (2017). pp.1-12 doi:10.1007/s40999-017-0222-7
08. V. I. Novelli · D. D'Ayala · N. Makhloufi · D. Benouar · A. Zekagh, **A procedure for the identification of the seismic vulnerability at territorial scale. Application to the Casbah of Algiers**, *Bull Earthquake Eng* (2015) 13:177–202,
09. M. Remki and D. Benouar, **Damage Potential and Vulnerability Functions of Strategic buildings in the City of Algiers**, *KSCE journal of Civil Engineering* (2014) 18(6): 1726-1734. 10.1007/s12205-014-0184-0
10. A. Airouche et al., **Experimental Identification of the Six DOF C.G.S., Algeria Shaking Table System**, *Smart Structures and Systems*, Vol. 13, No.1 (2014) 137-154, [10.12989/sss.2014.13.1.137](https://doi.org/10.12989/sss.2014.13.1.137)
11. H. Aknouche et al., **Investigation on the performance of the six DOF C.G.S., Algeria, shaking table**, *Earthquakes and Structures*, Vol. 6, No. 5 (2014) 539-560
12. D. Benouar, **Algerian Experience in Education, Research and Practice**, *Procedia-Social and Behavioral Sciences* 102 (2013) 361-367
13. S. Dorbani, M. Badaoui and D. Benouar, **Structural Seismic response Versus Epicentral Distance and Natural Period: The Case Study of Boumerdes (Algeria) 2003 earthquake**, *Structural Engineering Mechanics*, Vol. 48, No. 3 (2013)
14. T. Mourabit, et al. **"Neo-Deterministic Seismic Hazard Assessment in North-Africa"** *Journal of Seismology (JOSE)*, April 2014, Volume 18, Issue 2, pp 301-318
15. A. Meslem, F. Yamazaki, Y. Maruyama, D. Benouar, A. Kibboua and Y. Mehani, **"The Effects of Building Characteristics and Site Conditions on the Damage Distribution in Boumerdes after the 2003 Algeria Earthquake"**, *Earthquake Spectra*, Feb. 2012, Volume 28, No. 1, 186-216.
16. Y. AitMeziane, E. Djakab, D. Benouar and I.I. Esat, **Vulnerability of Existing Buildings: Empirical Evaluation and Experimental Measurements**, *Natural Hazards* (2012) ,62:189-206, DOI 10.1007/s11069-011-9986-2
17. A. Kibboua, M. Naili, D. Benouar and F. Kehila, **Analytical Fragility Curves for Specific Algerian Reinforced Concrete Bridge Piers**, *Structural and Engineering Mechanics*, Vol. 39, No.3, 411-425, (2011).
18. B. El Kechebour and D. Benouar, **Urban Growth, Sewage Network and Flooding Risk; Flooding of November 10, 2001 in Algiers**. *World Academy of Science, Engineering and technology V58* (2011) 770-777
19. Y. Mehani, D. Benouar, H. Bechtoula and A. Kibboua, **Vulnerability evaluation of the strategic buildings in Algiers (Algeria): a methodology**, *Natural Hazards* (2011), Volume 59, Number 1, 529-551, DOI:10.1007/s11069-011-9774-z , 2011
20. JC Gaillard et al. **Alternatives for sustained disaster risk reduction**, *Human Geography*, Volume 3, No.1, 2010
21. A. Meslem, F. Yamazaki, Y. Maruyama, D. Benouar, N. Laouami and N. Benkaci, **"Site-Response Characteristics Evaluated from Strong Motion Records of the 2003 Boumerdes, Algeria Earthquake"**. *Earthquake Spectra*, Volume 26, No.3, pp. 803-823, August 2010
22. A. Abdessemed-Foufa and D Benouar, **Investigation of the 1716 Algiers (Algeria) Earthquake from Historical Sources: Effect, Damages, and Vulnerability**. *International Journal of Architectural Heritage*, Volume 4, No.3, pp. 270-293, April 2010.
23. A. Harbi et al., **Macro seismic Study of the Zemmouri Earthquake of 21 May 2003 (Mw 6.8, Algeria)**, *Earthquake Spectra Journal*, Volume 23, Issue 2, pp. 315-332, 2007
24. E.Djakab, D. Benouar and K. Hamidi, **Damping matrix and Modal Parameters Identification of Dynamic Structure by Sub-Structuring Technique**, *European Earthquake Engineering Journal*, Vol.2, pp. 14- 31, 2007
25. A. Abdessemed-Foufa and D. Benouar, **Damage survey of the old nuclei of the Casbah of Dellys (Algeria) and performance of preventive traditional measures in the wake of the Boumerdes 2003 earthquake**. *European Earthquake Engineering Journal*, Vol.3, pp. 10- 14, 2007

26. D. Benouar and A. Meslem, **Seismic Risk in School Buildings in Algeria**, UNCRD Journal, RDD, Vol. 28, No.2, Autumn 2007.
27. A. Harbi et al., **Seismicity, seismic input and site effects in the Sahel – Algiers region (North Algeria)**, Structural Dynamics and Earthquake Engineering journal (SDEE), Vol. 27, 427-447, 2007
28. M.N. Farsi , P.Y. Bard and D. Benouar, **Dynamic characteristics of common buildings under strong shaking: a statistical study through system identification from c.s.m.i.p. data**, European Journal of earthquake Engineering, Vol. 3, 22 – 35, 2006
29. A. Zerzour, M. Chemrouk, M. Chabaat and D. Benouar, **Soil-Structure and Filling-Structure Interaction affects on the Non-Linear Dynamic behavior of Reinforced Concrete Structures: A New Method**, Vol XIX, No.1, 15-22: 2005
30. A. Harbi et al., **Seismicity and tectonic structures in the site of Algiers and its surroundings: A step towards macrozonation**.Pageoph (pure and applied geophysics), 161, pp. 949-967, 2004
31. Y. AitMeziane, M. Farsi and D. Benouar, **Seismic vulnerability estimation of a representative building in Bab El Oued district (Algiers, Algeria)**, European Earthquake Engineering journal, Vol.xviii, n°.1, pp.27-36, 2004
32. D. Benouar, **Materials for the investigation of historical seismicity in Algeria from the records of past earthquakes**, Annals of Geophysics (annali di geofisica), Vol. 47, No.2/3, 2004
33. A. Ayadi et al.,**Strong Algerian Earthquake Strikes near Capital City**, EOS, pp. 561-568, 2004.
34. A. Harbi, D. Benouar and H. Benhallou, **Re-appraisal and seismotectonics in the north-eastern Algeria, Part I: Review of historical seismicity**, Journal of Seismology, 7, pp: 115-136, 2003
35. G. Panza et al., **Realistic modelling of seismic input for megacities and large urban areas**, the UNESCO-OUGS-IGCP project 414, Episodes, Vol. 25, No.3, 160-184, 2002
36. M. Naili and D. Benouar, **Influence of strong motion attenuation models on seismic hazard evaluation at the site of Algiers**, European Earthquake Engineering journal Vol. xiv, n.2, 40-47, 2000
37. E. Djakab and D. Benouar, **Identification of the damping matrix coefficients of linear systems with proportional damping**, European Earthquake Engineering journal, Vol.xiv, n°.3, pp.49-58, 2000
38. D. Benouar, **A methodology for there-evaluation of the seismicity in the Maghreb countries – Algeria, Morocco, Tunisia-**, European Earthquake Engineering Journal, Vol. XIII, No..3, pp. 62- 73, 1999
39. S. Maouche et al.,**The Algiers (Algeria) earthquake of 4 September 1996**, European Earthquake Engineering Journal, Vol. XII, No.1, pp. 51-55, 1998
40. D. Benouar, **Earthquake hazard mapping in the Maghreb countries -Algeria, Morocco, Tunisia-** Earthquake Engineering & Structural Dynamics Journal, Vol. 25, Number 10, pp. 1151 - 1164, 1996.
41. D. Benouar, **Seismic hazard evaluation at Alger using Benouar's Catalogue**, Natural Hazards Journal, Vol. 13, No.2, pp.119-131,1996.
42. D. Benouar and N. Laradi, **A reappraisal of the seismicity of the Maghreb Countries –Algeria-Morocco, Tunisia**, Natural Hazards Journal, Vol. 13, No.3, pp. 275-296, 1996.
43. D. Benouar et al., **The 18 August 1994 Mascara (Algeria) earthquake- A quick-look report**, Terra Nova, Journal, Vol.6, pp.634-637, 1994.
44. D. Benouar, **Magnitude-Intensity and Intensity-Attenuation Relationships in the Atlas zone and Algerian Earthquakes**, Earthquake Engineering and Structural Dynamics Journal Volume 23, Number 7, pp. 717-727, 1994.
45. D. Benouar, **The Melouza (Algeria) earthquake of 21 February 1960**, Bollettino Di Geofisica Teorica Ed Applicata, Vol. 35, No. 140, 427-435, 1993.
46. D. Benouar, **The BouMedfaa (Algeria) earthquake of 7 November 1959**, Soil Dynamics and Earthquake Engineering Journal, Volume 12, Number 8, pp 451-456, 1993.
47. D. Benouar, **The Guelma (Algeria) earthquake of 10 February 1937**, European Earthquake Engineering Journal, Vol. VII, Number 3, pp: 24-32, 1993.

SCIENTIFIC BOOKS

D. Benouar, **Materials for the investigation of the seismicity of Algeria and adjacent regions during the twentieth century**, EditriceCompository, Annali di Geofisica, Vol. 37, no.4, July 1994

Zelloum, H, El Hadj, F and D. Benouar, “Revisiter Ghardaia (Algérie) à travers l’inondation du 1 Octobre 2008”, 2016.

CHAPTER BOOKS

1. School Seismic Safety and Risk Mitigation, **Encyclopedia of Earthquake Engineering** (2015)
2. School Seismic Safety: Case Studies, **Encyclopedia of Earthquake Engineering** (2015)
3. Governmental Measures to Mitigate Earthquake Impacts in Algeria, **Land-based and marine Hazards**, Vol.7, 1996, 229-237
4. **GAR 2009**: Chapter 4: The heart of the matter: the underlying risk drivers
5. **Disaster Risk Reduction**: Chapter 9: Disaster Risk Reduction in Algiers, Algeria
6. **Disaster Risk Reduction**: Chapter 10: Towards a Safer Urban Future: Conclusions and Recommendations

CONFERENCES

- 2019: The sixth Session of the Global Platform for Disaster Risk Reduction (GP2017), organized by UNDRR **Geneva (Switzerland)**, 13-17 May, 2019
- 2019: 1st meeting of the Africa Science & Technology Advisory Group (Af-STAG), organized by the African Union Commission (AUC) and UNDRR, **Nairobi (Kenya)**, 8-9 May, 2019
- 2019: 3rd Meeting of the Expert Group of the Global Risk Assessment Framework (GRAF), organized by the UNISDR, **Geneva (Switzerland)**, 3-4 April, 2019,
- 2019: European Conference on Risk Perception Behaviour, Management and Response, **Forensic Investigations of Disasters: Researching Root Causes in Disasters: A Multidisciplinary Approach to Learn Lessons from Disasters**, organized by LabexDynamite, Paris, France & University of Cergy-Pontoise, **Paris (France)**, 13-15 March, 2019.
- 2019: The international symposium “Frontiers in Heritage Science”: Traditionnal Earthquake Risk Reduction Construction Techniques and Building Materials in The Casbah of Algiers (Algeria), organized by Académie des Sciences de France, Grand Auditorium, Institut de France, **Paris (France)**, February, 13th-16th, 2019.
- 2018: 2nd Meeting of the Expert Group of the Global Risk Assessment Framework (GRAF), organized by the UNISDR, **Geneva (Switzerland)**, 8-9 November, 2018
- 2018: Africa-Arab Regional Platform for DRR, organized by UNISDR, the Government of Tunisia, the Arab League of States and the African Union, **Tunis (Tunisia)**, 9-13 October 2018.
- 2018: 1st Meeting of the Expert Group of the Global Risk Assessment Framework (GRAF), organized by the UNISDR, **Geneva (Switzerland)**, 13-14 June, 2018
- 2018: NewShape Forum, organized by the Global Challenge Foundation, **Stockholm (Sweden)**, May 28-29, 2018
- 2018: The Arab Partnership Meeting for Disaster Risk Reduction, organized by the UNISDR **Cairo (Egypt)**, 22-23 April 2018
- 2018: The Arab Coordination Mechanism for Disaster Risk Reduction, organized by the UNISDR **Tunis (Tunisia)**, 23-24 January 2018
- 2017: Expert Group Meeting on Coordinating Responses to Climate Change and Disaster Risk Reduction in the Arab Region, organized by the **ESCWA**, UN-House, **Beirut (Lebanon)**, 19-20 December 2017
- 2017: Thirty-seventh meeting of the Reduction of Earthquake Losses in the Extended Mediterranean Region (RELEMR), Organized by UNESCO, **Madrid (Spain)**, 4-7 December 2017
- 2017: IRDR, 18th Scientific Committee Meeting, **Tokyo (Japan)**, 20-21 November 2017
- 2017: Risk Knowledge-Action Network Scoping Workshop, **Tokyo (Japan)**, 22 November 2017
- 2017: Resilience Forum, **Tokyo (Japan)**, 23-25 November 2017

- 2017: The Fifth Session of the Global Platform for Disaster Risk Reduction (GP2017), organized by UNISDR **Cancun (Mexico)**, 24-26 May, 2017
- 2015: 3rd UN World Conference on Disaster Risk Reduction (3UNWCDRR), **Sendai (Japan)**, 14-18 March 2015,
https://www.youtube.com/watch?v=TWG5kYCWFH8&list=PLBDwPnveHho_fXUfFQaVkJUGb1v4EcAcyO&index=3 and
https://www.youtube.com/watch?v=wHf6nDyQneQ&index=23&list=PLBDwPnveHho_fXUfFQaVkJUGb1v4EcAcyO
- 2015: **Community-Based School Construction: Technical Consultation**, organized by Save the Children and RiskRed, **Bangkok (Thailand)**, 17-18 February, 2015
- 2015: F. Boulaghne, D. Benouar and S. Amara « **Stratégie de gestion et plan de prevention contre les risqué d'incendies de forêts au Nord de l'Algérie** », 1^{er} Workshop International Risque « Feu » 2015, **Chlef (Algeria)** 7-8 April, 2015
- 2014 : Society for Risk Analysis (SRA), « **Researching causes in 2003 Algiers (Algeria) earthquake disaster : A new multidisciplinary approach to learn lessons from disasters (Forensic Investigations of Disasters- FORIN)** », **Denver, CO (USA)**, 7-11 December 2014.
- 2014: Workshop “**Protective Actions to take during earthquakes**”, organized by Geohazards International (GHI) in **Istanbul (Turkey)**, August 30 and 31, 2014.
- 2014: 2015 Global Assessment Report (GAR 2015) on Disaster Risk Reduction: Meeting Series On “**Future Challenges of Disaster Risk Management**”, “**Transformative disaster risk management and development practice**”, Expert meeting hosted by the University of Ghana in collaboration with Periperi U, **Accra (Ghana)**, 14-15 April 2014.
- 2014: Periperi U Consultative meeting, **Accra (Ghana)**, 16-17 April, 2014.
- 2014: 5th Africa Regional Platform For Disaster Risk Reduction: *Prevent Risk: Build Resilience: Abuja (Nigeria)*, 13-16 May, 2014.
- 2014: 3rd International Conference on Forensic Research and Technology « **Researching causes in 2003 Algiers (Algeria) earthquake disaster: A new multidisciplinary approach to learn lessons from disasters (Forensic Investigations of Disasters- FORIN)** », **San Antonio, TX (USA)**, 06-08 October 2014.
- 2014: **Expert Meeting on Strengthening Leadership in Disaster Resilience in MENA**, Organized by Tulane University's Disaster Resilience Leadership Academy in partnership with The World Bank, **Dubai (United Arab Emirates)**, 19-20 May, 2014
- 2014: IRDR Science Committee meeting, 6, 10 and 11 June 2014, **Beijing (China)**, 10-11 June, 2014
- 2014: 2nd Integrated Research on Disaster Risk (IRDR 2014) Conference, **Beijing (China)**, 7-9 June, 2014
- 2013: **Society for Risk Analysis (SRA)** 2013 Annual Meeting, Baltimore, MD (USA), 8-11 December 2013
- 2013: 2nd International Conference on Forensic Research and Technology “**Forensic Disaster Investigations (FORIN) a new approach to learn lessons from disasters: a case study of the 2001 Algiers (Algeria) flood and debris flow**”, **Las Vegas (USA)**, 07-09 October 2013.
- 2013: Consortium Workshop, Finalize research proposals, organized by ICSU regional Office for Africa, **Pretoria (South Africa)**, 19-20 September, 2013
- 2013: Dealing with Disasters International Conference (DwD 2013) together with the 4th Conference of the International Society for Integrated Risk Management (IDRiM 2013), **Newcastle-upon-Tyne (UK)**, 4-6 September, 2013
- 2013: Fourth Global Platform for Disaster Risk Reduction, organized by the UNISDR, **Geneva (Switzerland)**, 19-24 May 2013.
- 2013: First Arab Conference on Disaster Risk Reduction Aqaba (Jordan) organized by UNISDR (Cairo Office), **Aqaba (Jordan)** 19-21 March 2013
- 2012: Meeting of experts of the Arab Network for disaster risk reduction, organized by the ALECSO (League of Arab States), **Tunis (Tunisia)**, 18-20 December 2012
- 2012: First IUGG GRC Conference on Extreme Natural Hazards and Their Impacts, A preliminary forin study of the 2001 Algiers (Algeria) flood and debris flow” **Chapman University (California, USA)**, 8-12 December 2012
- 2012: Invitation to Networking Events for the African NCPs, **Stockholm (Sweden)** (17-19 October and in **Bonn (Germany)** (19-21 November 2012)

- 2012: 15th World Conference on Earthquake Engineering (*15WCEE*), Effects of topographic reliefs on building damage distribution in Boumerdes city during the 2003 Algeria earthquake”, **Lisbon (Portugal)**, September 24-28, 2012.
- 2012: Regional Implementation Workshop on Hazards and Disasters, organized by ICSU Paris, **Dakar (Senegal)**, 26-27 September 2012.
- 2012: 3rd. Conference (IDRiM2011) of the International Society for Integrated Disaster Risk Management (IDRiM Society) hosted at the Beijing Normal University (BNU), **Beijing (China)**, 07-09 September 2012,
- 2012: 4th International Disaster and Risk Conference IDRC **Davos (Switzerland)**, 26 - 30 August 2012
- 2012: 15th Annual Emergency Management Higher Education Conference, **Emmitsburg (MD, USA)**, 4-7 June 2012.
- 2011: IAEM-USA 59th Annual Conference & EMEX 2011, **Las Vegas (USA)**, 11-17 November 2011.
- 2011: Integrated Research on Disaster Risk Conference (IRDR2011), Disaster Risk: Integrating Science and Practice, FORIN or Far out? Exploring multiple drivers of disaster risks in Africa” **Beijing (China)**, 31 October – 2 November 2011,
- 2011: Integrated Research on Disaster Risk Conference (IRDR2011), Disaster Risk: Integrating Science and Practice, “Seismic risk in Algeria” **Beijing (China)**, 31 October – 2 November 2011,
- 2011: 2nd Conference (IDRiM2011) of the International Society for Integrated Disaster Risk Management (IDRiM Society) hosted at the University of Southern California (USC), **Los Angeles (USA)**, 14-16 July 2011,
- 2011: Meeting of Experts to establish an Arab network for Disaster Risk Reduction, organized by ALECSO (League of Arab States), **Tunis (Tunisia)**, June 28-30, 2011.
- 2011: Third Global Platform for Disaster Risk Reduction, organized by the UNISDR, **Geneva (Switzerland)**, 8-13 May 2011.
- 2011: 5th Meeting of the ICSU Integrated Research on Disaster Risk Scientific Committee, **Paris (France)**, 27-29 April 2011.
- 2011: 10th anniversary of Gujarat earthquake International Conference, **Ahmadabad (India)**, 14-16 April 2011
- 2011: Peripari U Consultative Meeting, Ardhi University, **Dar Es Salaam (Tanzania)**, 12-14 April 2011.
- 2011: IUGG 2011 General Assembly, Earth on the Edge: Science for a sustainable Planet, A collaborative programme in capacity development in disaster risk reduction –Through African Universities, **Melbourne (Australia)**, June 28 – July 7, 2011
- 2011: ENHANS International Workshop on Extreme Natural Hazard and Disaster Risk in Africa (ENHANS), 17-20 January 2011, **Pretoria (South Africa)**.
- 2011: 23rd Colloquium for African Geology (CAG23), organized by the University of Johannesburg, 8-14 January 2011, **Johannesburg (South Africa)**.
- 2010: 7th International Conference on Structural Analysis of Historic Constructions (SAHC 2010), October 6-8, 2010, **Shanghai (China)**.
- 2010: 1st Annual Conference of the International Society for Integrated Disaster Risk Management - IDRiM 2010, “Natural hazards threats to critical infrastructures in Algeria” **Vienna (Austria)**, 1-4 September 2010
- 2010: 1st Annual Conference of the International Society for Integrated Disaster Risk Management - IDRiM 2010, “Natural integrated disaster management of the Algiers-Boumerdes (Algeria) earthquake of 21 May 2003” **Vienna (Austria)**, 1-4 September 2010
- 2010: 14ECEE, 14th European Conference on Earthquake Engineering, PERPETUATE Project: the proposal of a performance-based approach to earthquake protection of cultural heritage, **Ohrid (Republic of Macedonia)**, August 30 – September 3, 2010
- 2010: Shanghai Forum on Disaster Risk Reduction, 28-31 July 2010 – **Shanghai (China)**
- 2010: 3rd International Disaster Risk Reduction Conference IDRC 2010 Davos, 30 May – 2 June 2010, **Davos (Switzerland)**
- 2010: Forum on Education, Capacity Building and Climate Change: A Strategy for Collective Action in Africa, organized by The Pan-African Secretariat, Dar Es Salaam (Tanzania), June 27 – July 1st, 2010

- 2010: International Forum on Telling Live Lessons from Disasters, organized by the Implementation Committee of the 'International Forum on Telling Live Lessons from Disasters', **Kobe (Japan)**, 20-22 March 2010.
- 2010: Séminaire Euro-méditerranéen sur l'éducation au risque sismique, organisé par le Centre Méditerranéen de l'Environnement (CME) en partenariat avec le Conseil Régional PACA, **La Bastidonne – Vaucluse- (France)**, 22- 23 Février 2010
- 2010: Workshop on Risk Science Scholarship and Sustainable Development: Building Educator-Practitioner Networks in Africa, Organized by the University of Arizona (USA) and US-funded National Science Foundation workshop, **Bahar Dar (Ethiopia)**, 11-15 January 2010.
- 2009: Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region, in the framework of the RELEMR project, organized by UNESCO and USGS and hosted by the Luso-American Foundation, **Lisbon (Portugal)**, 26-29 October 2009.
- 2009: Natural hazards threat on critical infrastructure in Algeria. The 9th IIASA–DPRI Conference on Integrated Disaster Risk Management Scientific Challenges in Implementing Integrated Disaster Risk Management in a Changing World, **Kyoto (Japan)**, 12-16 October 2009.
- 2009: International Disaster and Risk Conference (IDRC), held in **Chengdu (China)**, 11-15 July 2009.
- 2009: UN-ISDR Global Platform for Disaster Risk Reduction, Second Session, **Geneva (Switzerland)**, 16-19 June 2009.
- 2009: World Conference on Education and Sustainable Development, Organized by the United Nations, **Bonn (Germany)**, 31 March- 2 April 2009,
- 2009: Workshop Overview for Structural and Non-Structural Safety of Health Facilities in Emergencies WHO Mediterranean Center, **Hammamet (Tunisia)**, 17-19 February 2009
- 2009: Thematic Workshop on “Environment, including Climate Change and Risks ” for the identification of research topics of mutual interest, to be considered under FP7 forthcoming work programs organized by the European Commission in the framework of MIRA project, **Cairo (Egypt)**, 26-27 January 2009
- 2009: International Association of Seismology and Physics of the Earth Interior (IASPEI) General Assembly held in **Cape Town (South Africa)**, 10-16 January, 2009
- 2009: 3rd Annual Workshop on Disaster Risk Hyperbase (DRH), organized by the EDM-NIED, **Tokyo (Japan)**, 8-9 January, 2009
- 2008: The Great Southern California Shakeout, organized by USGS, **Los Angeles (USA)**, 12-15 November 2008
2008. 4th World Urban Forum (4WUF) organized by UN-Habitat, **Nanjing (China)**, 3-6 November 2008.
- 2008: 14th World Conference on Earthquake Engineering (14WCEE), “Investigation of the 1716 Algiers earthquake and the traditional seismic preventive measures from historical documents sources” organized by the International Association of Earthquake Engineering (IAEE) and China earthquake Administration, **Beijing (China)**, 12-17 October 2008.
- 2008: 14th World Conference on Earthquake Engineering (14WCEE), “Integrated disaster management of the Algiers-Boumerdes (Algeria) earthquake of 21 May 2003” organized by the International Association of Earthquake Engineering (IAEE) and China earthquake Administration, **Beijing (China)**, 12-17 October 2008.
2008. International Disaster and Risk Conference (IDRC) on “Public-private partnership – key for integral risk management and climate change adaptation. “, **Davos (Switzerland)**, 25-29 August, 2008.
- 2008: Regional Inter-Agency Workshop on Disaster Risk Assessment, organized by UN/ISDR/WANA and the Arab Academy for Science and Technology, **Cairo (Egypt)** , 11-12 March 2008
- 2008: Second Annual Workshop on Disaster Reduction Hyperbase - Asian Application. Organized by Beijing Normal University and DRH – Asia Project, Beijing Normal University, **Beijing (China)**, 21-23 February 2008
- 2007: Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region, RELEMR, organized by UNESCO, USGS and the Council of Europe, hosted by the Spanish National Research Council (CSIC) at the “Museo Nacional de Ciencias Naturales” **Madrid (Spain)** 26-29 November 2007
- 2007: Euro-Mediterranean workshop “Disaster Reduction at School - Building safer school communities”, organized by the Council of Europe, **Paphos (Cyprus)**, 29 - 30 October 2007.

- 2007: Potential For Very Large Earthquake Disasters In The European-Mediterranean Region Workshop, organized by the Working Group 6, Sub-Commission-F of the European Seismological Commission (ESC), **Marrakech (Morocco)**, 22-23 October 2007.
- 2007: International Disaster Reduction Conference (IDRC), organized by China Association for Science & Technology CAST and others, **Harbin (China)**, 21-25 August 2007
- 2007 : 7eme Colloque National AFPS 2007. « Identification du taux de dommage sur les bâtiments suite au séisme de Zemmouri-Boumerdes » Ecole Centrale Paris. **ChâtenayMalabry (France)** 4 - 6 juillet 2007.
- 2007: First Africa Platform for Disaster Risk Reduction Consultative Meeting, organized by the UN/ISDR and the World Bank, **Nairobi (Kenya)**, 26-27 April 2007
- 2007: Expert Group Meeting on Environmental Ethics, organized by ALECSO, ISESCO and UNESCO, **Tripoli, (Libya)**, 19-21 June 2007
- 2007: Global Platform for Disaster Risk Reduction, First Session, organized by UN/ISDR, **Geneva (Switzerland)**, 5-7 June 2007
- 2007: Fifth International Conference on earthquake Engineering and Seismology (SEE5), organized by the IIEES, **Tehran (Iran)**, 14-16 May 2007
- 2007: Middle East and North Africa Regional Workshop on: “Building Partnerships for Disaster Risk Reduction and Natural Hazard Risk Management” **Cairo (Egypt)**, 18-21 April 2007
- 2007: Fourth Gulf Seismic Forum, organized by the Kuwait Institute for Scientific Research (KISR), **Kuwait City (Kuwait)**, 24-27 March 2007
- 2007: International Disaster Risk Hyperbase (DRH) Contents Meeting, 12-13 March 2007, and the 1st Annual DRH Workshop, **Kobe (Japan)**, 14-15 March 2007.
- 2007: ProVention Consortium Forum, organized by ProVention and the World Bank, **Dar es Salaam (Tanzania)**, 13-15 February 2007
- 2007: International Conference on School Safety, organized by GSDMA and Seeds India, **Ahmadabad (India)**, 18-20 January, 2007
- 2006: Global Partnership with Universities, Academic Institutions, Research Organizations under GFDRR/ISDR, organized by the World Bank and ISDR, **Geneva (Switzerland)**, 13 December 2006
- 2006: Building the future in the euro-Mediterranean area workshop on the Use of the Eurocodes in the Mediterranean Countries, **Varese (Italy)**, 27 – 29 November 2006
- 2006: Réunion du comité des correspondants permanents et 11ème session ministérielle de l'accord européen et méditerranéen sur les risques majeurs (EUR-OPA), **Marrakech (Maroc)**, 30-31 Octobre 2006
- 2006: PHREE way (Partnership for Humanitarian and Risk Education Expansion) Consultative Meeting, **Cape Town (South Africa)**, 20 -21 September 2006.
- 2006: First European Conference on Earthquake Engineering and Seismology (ECEES), A joint event of the 13th European Association on Earthquake Engineering (EAEE) and the 30th General Assembly of the European Seismological Commission (ESC), **Geneva (Switzerland)**, 03 – 08 September 2006.
- 2006: International Disaster Reduction Conference (IDRC Davos 2006), A joint conference organized by GADR (Global Alliance for Disaster Reduction), GDIN (Global Disaster Information Network) and DRM World Institute for Disaster Risk Management, **Davos (Switzerland)**, 27 August – 1 September, 2006
- 2006: Sixth DPRI-IIASA Forum on Integrated Disaster Risk Management, co-organized by the Disaster Management Coordination Center (AKOM) of the Istanbul Metropolitan Municipality (**IBB**), the World Bank Institute (**WBI**), the Disaster Prevention Research Institute (**DPRI**) of the Kyoto University, and the International Institute for Applied Systems Analysis (**IIASA**), **Istanbul (Turkey)**, 13-17 August 2006
- 2006: XVI ISA World Congress of Sociology, Session Disaster Sociology, Organized by the International Sociological Association (ISA), **Durban (South Africa)**, 23-29 July 2006.
- 2006: ProVention Consortium Applied Grants Workshop: Africa Region, **Johannesburg (South Africa)**, 10 July, 2006

- 2006: Colloque international intitulé: « Avancées et propositions en matière d'éducation pour le développement durable » organized by the Comité français de la Décennie des Nations Unies de l'Éducation pour le Développement durable and UNESCO, Paris (UNESCO), **Paris (France)**, 14 - 16 June 2006
- 2006: Workshop on The Conduct of Seismic Hazard Analyses for Critical Facilities, organized by ICTP, UNESCO and IAEA, **Trieste (ICTP) Italy**, 15 May - 19 May 2006
- 2006: Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region, organized by UNESCO, USGS and U. Malta, **St. Julian's (Malta)**, 27-27 April 2006
- 2006: Séminaire sur la Prévention des Risques Majeurs pour les Ouvrages d'Art et Infrastructures, organisé par ICHU et U. Boumerdes pour M.T.P, **Boumerdes (Algeria)**, 5-6 Avril 2006
- 2006: Third Early Warning Conference (EWC III), organized by the UN, **Bonn (Germany)**, 27-29 March 2006
- 2006: Meeting on Earthquake Risk Assessment, organized by UN/ISDR Africa, **Nairobi (Kenya)**, 21 – 22 March 2006
- 2006: Second Africa Advisory Group Meeting (AAG) organized by UN/ISDR Africa, **Nairobi (Kenya)**, 18 – 19 March 2006.
- 2006: Second consultative meeting on National Platforms for Disaster Risk Reduction in Africa, co-organized by UN/ISDR Africa and IFRC (Nairobi Regional Delegation) "Mainstreaming Disaster Risk Reduction into School Curricula", **Nairobi (Kenya)**, 16-17 March, 2006
- 2006: Workshop on Mainstreaming Disaster Risk Reduction in the Management of Urban Planning and Governance in Africa, organized by UNDP and ProVention Consortium, **Cape Town (South Africa)**, March 7 – 9, 2006
- 2006: Workshop on International Framework for Development of Disaster Reduction Technology List on Implementation Strategy, organized by MEXT-NIED , **Tsukuba (Japan)**, 27-28 February 2006
- 2006: Conference on “Rethinking Capacity Development for Disaster Risk Reduction: Action 2005-2015” organized by UNDP/BCPR, **Geneva (Switzerland)**, 13-15 February 2006
- 2006: Second Public Symposium on Post Disaster Recovery- Lessons on recovery learned from recent major disasters -TeLL-Net Kick-Off Assembly, **Kobe (Japan)**, 19-20 January, 2006
- 2005: African Union Ministerial Conference on Disaster Risk Reduction (DRR) in Africa, organized by the AU and UN/ISDR, **Addis Ababa (Ethiopia)**, 5-7 December 2005
- 2005: International Workshop on Risk Assessment and Disaster management, organized by ENIT and British Gas Tunisia, **Tunis (Tunisia)**, 28-29 November 2005
- 2005: International Association of Seismology and the Physics of Earth's Interior -IASPEI GENERAL ASSEMBLY 2005- **Santiago, (Chile)**, 2-8 October 2005
- 2005: Fifth Annual IIASA-DPRI Forum on Integrated Disaster Risk Management “Innovations in Science and Policy”, Beijing Normal University, **Beijing, (China)**, 14-18 September 2005.
- 2005: Seismicity and Earthquake Engineering in the Extended Mediterranean Region organized by UNESCO, RELEMR and Laboratory of Geophysics & Seismology, Technological Educational Institute of Crete (GSL-TEIC) , **Chania, Crete (Greece)**, 11 – 17 September 2005
- 2005: International Framework for Development of Disaster Reduction Technology List on Implementation Strategies, following the UN World Conference on Disaster Reduction (Kobe, Japan, 2005), Core Member Meeting 1, Palais des Nations, **Geneva (Switzerland)**, 16-17 August 2005
- 2005: Expert meeting for the Development of the Strategy for Disaster Management in the Arab Countries, organized by ALECSO (Arab League of States), UNEP and UNESCO Cairo Office, **Tripoli (Libya)**, 5-6 June 2005.
- 2005: International Seminar on Recovery; In support to the development of the International Recovery Platform (IRP) organized by UNDP, UN/ISDR, UN/OCHA, World Bank, ILO, Cabinet Office of Japan, Hyogo Prefecture Government, JICA, ADRC. **Kobe (Japan)**, 11-13 May 2005
- 2005: 2nd Workshop on Earthquake Engineering for Nuclear Facilities, Uncertainties in Seismic Hazard Assessment, organized by IAEA, UNESCO and ICTP, **Trieste (Italy)**, 14-25 February 2005.
- 2005: Seismicity and Seismic Hazard Assessment in the Mediterranean Region, organized by UNESCO, RELEMR and University of Ankara (METU), **Ankara (Turkey)**, 26 – 29 January 2005
- 2005: World Conference on Disaster Reduction (WCDR), Organized by UN/ISDR, **Kobe (Japan)**, 18-22 January 2005

- 2004:Madrid Working-Meeting: Vulnerability Assessment / Reducing Urban Risk, organized by UN Habitat, US/ISDR, **Madrid(Spain)**, 7-9 September 2004
- 2004: Earthquakes and Related Geohazards in Africa: Expert Workshop in preparation for the World Conference on Disaster Reduction, **Nairobi (Kenya)**, 18-19 June 2004.
- 2004: African Regional Consultation on Disaster Reduction (DR): A Preparation for the World Conference on Disaster Reduction (WCDR), **Johannesburg (South Africa)**, 2-3 June 2004,
- 2004: Experts' Workshop to Review a Disaster Risk Reduction (DRR) Strategy for Africa **Johannesburg (South Africa)**, 31 May-1 June 2004
- 2004: Strategies for Disaster Avoidance in Urban Areas of Africa Workshop, **Lusaka (Zambia)**, 5 – 7 May 2004,
- 2004: UNESCO-RELEMR (Reducing Earthquake Losses in the Extended Mediterranean Region) Workshop on Site Effects and Building Response, **Aqaba (Jordan)**, 18-28 January 2004.
- 2004: Integrated disaster management of the Algiers 21 May 2003 earthquake, International Conference on Earthquake Hazard Preparedness, Rescue and Recovery, **Taipei (Taiwan)**, 5-9 January 2004
- 2003: EMI-MEDSAFE 03, Behavior of the population and Government during the 21st May Algiers Earthquake, International Workshop on Mediterranean Cities Exposed to Seismic Risk, **Naples (Italy)**, 19-20 December 2003
- 2003: Seminar, Living with risk: Seismic hazards, insurance and sustainability in the Mediterranean Region, “**Evaluation of Seismic Hazard in Algiers using different Attenuation Models**”, **Cairo (Egypt)**, 6-8 December 2003
- 2003: Workshop on Earthquake Reconstruction Experience, **Algerian Recovery Experience from the 21st May 2003 Algiers Earthquake**, , **Gujarat (India)**, 28-30 September 2003.
- 2003: UNESCO-RELEMR workshop on Seismic Hazard Analysis and Data Exchange in the Mediterranean Region, **Nicosia (Cyprus)**, 10-13 September 2003.
- 2003: 4th International Conference on Seismology and Earthquake Engineering“**A methodology for the revision of the earthquake data in western Mediterranean countries**”, **Tehran(Iran)**, May 12-14, 2003
- 2003: 3rd International Workshop on Seismic Risk in North Africa, “**UNESCO-IUGS-IGCP Project 457: Seismic Hazard Assessment in North African Countries**”,**Mansoura (Egypt)**, May 20-22, 2003
- 2002; Réunion des experts euro-méditerranéens sur la prévention des désastres, organisée par EUR-OPA et UNISDR, **Bandol (France)** 1er Octobre 2002
- 2002: Seismic Risk Reduction: Learning to design seismic codes, Organized by UNESCO Cairo Office, **Cairo (Egypt)**, 10-13 August, 2002
- 2002: Workshop Investigating the records of past earthquakes, A revised earthquake data bank in western Mediterranean countries –Algeria, Morocco, Tunisia – From the records sources of past seismic events”, **Erice (Italy)**, 1-7 July 2002
- 2002: Sustainable City Conference,“**Reducing the seismic risk to cultural heritage in the Maghreb countries**”, **Segovia (Spain)**, 3 – 5 July 2002.
- 2002: PILAR (Program for increasing technical capacity on natural disaster reduction in the Mediterranean region), organized by UNESCO and CSIC (ICTJA-CSIC), **Paris (France)**, 24-25 June 2002
- 2002: D. Benouar, **Algiers (Algeria) Floods and DebrisFlows of 10 November 2001**, 4^{ème} Symposium International de l'eau, Palais des Festivals de Cannes, **Nice (France)**, 3-7 Juin 2002.
- 2002: **The need for an integrated disaster management strategy for cities of geo-techno-environmental risks in north Africa : A case study of Algiers (Algeria)**, the Integrated Disaster Risk Management 2002 : Megacity Vulnerability and Resilience, **Laxenburg (Austria)**, 29-31 Juillet 2002.
- 2002: Urban Development for Poverty Reduction Symposium: Towards a Research Agenda“**The Need For An Integrated Disaster Management Strategy In North Africa Towards Poverty Reduction**”, organized by the World Bank, **Washington, D.C., (USA)**, December 9-11, 2002,
- 2002 -Seismic **Analysis** and Earthquake Hazard Assessment in the Mediterranean Region (**RELEMR**) organized by UNESCO and USGS, 11-14 December 2002, **Antakya (Turkey)**
- 2002 - International Workshop on Earthquakes and Megacities - 31 October, 1 – 2 November 2002, and EMI Cluster Cities Project Coordination Meeting – 3 Nov. 2002, **Shanghai, (China)**
- 2002: Global Disaster Information Network (GDIN 2002)**, organized by the Italian National Institute of Health, **Rome (Italy)**, 17-21 June 2002

- 2002: 4^{ème} Symposium International de l'Eau, organisé par le réseau UNITWIN-Chaires UNESCO, **Cannes (France)**, 3-7 juin 2002
- 2002 : Premier Forum sur la variabilité Climatique et prévisions saisonnières en Afrique du Nord (PRESA-NOR 01), **Alger (Algeria)**, 14-18 Avril 2002
- 2001 : International meeting on Urban Safety and Sustainable Development in the Mediterranean, **Naples (Italy)**, 18-20 December 2001
- 2001-Pre-World Congress Workshop on Disaster Reduction, organized by ASCE, 18-22 August 2001, **Reston (USA)**,
- 2001: 2nd Workshop on Seismic Risk in North Africa, organized by NASG, TWAS and Abdelmalek Essaadi University, **Tetouan (Morocco)**, 14-16 May, 2001
- 2001-Workshop on Reduction of Earthquake Losses for Eastern Mediterranean Region (**RELEMR**) organised by UNESCO and USGS, **Barcelona (Spain)**, 11- 18 May 2001.
- 2001: Enseignement et Pratique de l'Architecture, Quelles perspectives ?, « Architects and the earthquake risk reduction philosophy for sustainable architecture in the third milenium », Epau, **Alger (Algeria)**, 23-26 Avril 2001
- 2000: 2^{ème} Colloque national de Génie Parasismique, « Résistance aux séismes des constructions traditionnelles en Algérie » organisé par l'Association Algérienne de Génie Parasismique (AGS), **Alger (Algeria)**, 8-10 Octobre 2000
- 2000: 3rd Cairo earthquake Engineering Symposium on Earthquake Preparedness and Response, "Earthquake Hazard Mapping in Algeria" organized by Egyptian Society for earthquake Engineering, EERL and Cairo University, **Cairo (Egypt)** 18-20 November 2000
- 2000: 2^{ème} Congrès National du Collège National des Experts Architectes Algériens (CNEA), **L'Architecte et la philosophie du Génie Parasismique, Alger (Algeria)**, 29 Juin 2000
- 2000: 2^{ème} Congrès National du Cllège National des Experts Architectes Algériens (CNEA), **Proposition d'une agence de recherche et de gestion des catastrophes naturelles, Alger (Algeria)**, 29 Juin 2000
- 2000 : Archéosismicité et Sismicité historique : Contribution à la connaissance et à la définition du risque, « Reducing the natural and environmental disasters on historical and archaéological monuments and sites » organisé par le Groupe APS, **Montpellier (France)**, 6-8 Avril 2000
- 2000 : Archéosismicité et Sismicité historique : Contribution à la connaissance et à la définition du risque, « Reducing seismic risk to cultural heritage (Medinas and Casbah) in the Maghreb Countries » organisé par le Groupe APS, **Montpellier (France)**, 6-8 Avril 2000
- 2000: 12th World Conference on Earthquake Engineering, "Influence of attenuation models on seismic hazard mapping in North Africa, **Auckland (New Zealand)**, 30 January – 4 February 2000
- 1999: Séminaire International sur les Systèmes d'Informations Géographiques AL-SIG'99, Application du SIG dans la gestion des catastrophes naturelles : développement d'une banque de données sismiques en Algérie », organisé par le Conseil Supérieur de l'Information Géographique, **Alger (Algeria)**, 15-18 novembre 1999
- 1999: 2^{ème} Rencontre en Génie Parasismique des Pays Méditerranéens, « Proposition de création d'une agence nationale de recherche et de gestion des catastrophes naturelles, », Organisé par la Société Portugaise de Génie Parasismique, **Faro (Portugal)**, 28 - 30 Octobre 1999
- 1999 : Vème Colloque AFPS, « Cartes d'aléa sismique en Afrique du Nord', organisé par AFPS, **Paris (France)**, 19- 21 Octobre 1999
- 1999 : 5th international Emergency Planning Conference, « Governmental measures to mitigate earthquake impacts in Algeria », **The Hague (Netherland)**, 12-14 October 1999

B. CONSULTANT TO

African Union Commission (AUC) UNESCO, ALECSO, UNISDR, UNDP, IIEED, UNICEF/MENARO and World Bank

C. PARTICIPATION IN THE NATIONAL RESEARCH EFFORT

- **Head of University research Projects (CNEPRU): 4**
- **Coordinator for Algeria for International projects: 5**

D. PARTICIPATION IN TRAINING THROUGH RESEARCH AND FOR RESEARCH

- **Magister Theses: 15**
- **Doctorate Theses: 07**
- **Teaching: 37 years**
- **Organization of Conference: 03**
- **Member of Editorial Board: 05**

E. SCIENTIFIC AND EDUCATIONAL RESPONSIBILITIES

- **President of scientific committee: 03 terms**
- **Director of Research laboratory: 03 terms**
- **Member of expert national research committee: 05**

F. INTERNATIONAL AWARDS

Thomson Reuters: 01

UNESCO-GADR: 01

6. INTERNATIONAL RESEARCH PROJECTS:

2007 - Present: **Periperi U** 'Partners Enhancing Resilience to People Exposed to Risks' – with a special focus on advancing university action on risk and vulnerability reduction in Africa, funded by USAID. (**Project leader Algeria**)

2010-2012: **Perpetuate** 'PERformance-based aPproach to Earthquake proTection for cUITurAlheriTage in European and Mediterranean countries –PERPETUATE-'funded by the European Commission (FP7). (**Project leader Algeria**). www.perpetuate.eu

2011-2014: **CMEP-Tassili**: Approches Intégrées pour l'Evaluation du Risque et de la Vulnérabilité Sismique. Projet de Coopération Algéro-française. (**Project leader Algeria**)

2011 – 2016: **UNESCO-IUGS-IGCP 601 Project**: Seismotectonics and seismic Hazards in Africa. (**Project leader Algeria**)

2001 – 2005: **UNESCO-IUGS-IGCP457 Project**: Seismic Hazards in the Maghreb countries. (**Project leader Algeria**)

LANGUES

-**Arab**: mother tongue/ working language

-**English**: Fluent/ working language

-**French**: Fluent/working language

EXPERIENCE IN SIMILAR PROJECTS:

BI-ANNUAL REPORT ON PROGRAMME OF ACTION FOR IMPLEMENTATION OF SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION IN AFRICA, (UMA), African Union Commission 2019

BI-ANNUAL REPORT ON PROGRAMME OF ACTION FOR IMPLEMENTATION OF SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION IN AFRICA, (ECCAS) African Union Commission, 2019

Arab Cities Resilience Report: Seismic and Geophysical Risk Analysis to Cities, Towns and Municipal Areas in Arab States UNDP Amman Jordan 2015

Country Hazards Analysis Situation UNDP Comoros 2014

DRR progress in Algeria UNICEF 2011

Business Continuity Plan, UNDP, Algiers, 2012

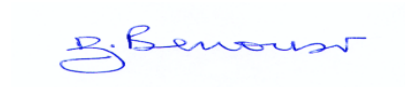
REFERENCES:

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Dr. Walter Hays (Former USGS); Email: walter_hays@msn.com

Dr. Ailsa Holloway, Professor and Director, Research Alliance for Disaster and Risk Reduction (RADAR) Stellenbosch University, South Africa, Email: ailsaholloway@sun.ac.za

I certify that all the information given in my CV above are accurate to the best of my knowledge.

A handwritten signature in blue ink, appearing to read "D. Benouar". The signature is written in a cursive style with a large initial "D".

Prof. Djillali Benouar