

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **GERTI XHIXHA**
Address **VIA ARGINONE, 195/C - 44122 - FERRARA, ITALY (IT)**
Telephone (ITA) **+39 (0)532 974350**
Mobile (ITA) **+39 (0)3296965933**
Mobile (ALB) **+355 (0)692177319**
E-mail **xhixha@fe.infn.it**
E-mail **gerti.xhixha@gmail.com**

Nationality **Albanian**
Date of birth **16 DECEMBER 1980**

WORK EXPERIENCE

- Dates (from – to) **MARCH 2012 – FEBRUARY 2016**
- Name and address of employer **NATIONAL INSTITUTE OF NUCLEAR PHYSICS, LEGNARO NATIONAL LABORATORY - VIA DELL'UNIVERSITÀ, 2 - 35020 LEGNARO, PADOVA - ITALY (IT)**
- Type of business or sector **AIRBORNE GAMMA-RAY SPECTROSCOPY TECHNIQUE APPLIED TO THE ENVIRONMENT (TECNICHE DI SPETTROSCOPIA GAMMA AIRBORNE CON APPLICAZIONI AMBIENTALI)**
- Occupation or position held **POST-DOC (ASSEGNO DI RICERCA)**
- Main activities and responsibilities
 - DESIGN, REALIZATION AND CALIBRATION OF AN AIRBORNE GAMMA-RAY SPECTROMETER FOR USING ULTRA-LIGHT AIRCRAFT;
 - APPLICATION OF AIRBORNE GAMMA-RAY SPECTROMETRY TECHNIQUE FOR ENVIRONMENTAL RADIOACTIVITY MONITORING OF THE TERRITORY OF VENETO REGION (ITALY).

- Dates (from – to) **DECEMBER 2012 – MAY 2014**
- Name and address of employer **UNIVERSITY OF FERRARA, DEPARTMENT OF PHYSICS AND EARTH SCIENCES - VIA SARAGAT, 1 - 44122 FERRARA - ITALY (IT)**
- Type of business or sector **STAGE FOR QUALIFIED EXPERT OF RADIATION PROTECTION OF 1ST AND 2ND GRADE ACCORDING TO THE D.LGS 230 '95 AMENDED.**
- Occupation or position held **STAGE (QUALIFIED EXPERT OF RADIATION PROTECTION)**
- Main activities and responsibilities
 - SEALED SOURCES OF ²⁴¹AM, ¹³³BA, ⁵⁷CO, ⁶⁰CO, ¹³⁷CS, ⁹⁰SR, ⁵⁵FE, ²²⁶RA;
 - OPEN SOURCED OF ¹⁴C, ⁵¹CR, ³H, ³²P, ⁹⁹TC, ^{99m}TC, ¹²⁵I, ³⁵S;
 - X-RAY TUBES;
 - ACCELERATORS.

- Dates (from – to) **JANUARY 2014**
- Name and address of employer **GEOEXPLORER IMPRESA SOCIALE S.R.L.**
- Type of business or sector **LIMITED LIABILITY COMPANY**
- Occupation or position held **COPARTNER AND OWNER OF RIGHTS ON UNITS AND SHARES**
- Main activities and responsibilities
 - NUCLEAR PHYSICS SPECIALIST.

- Dates (from – to) **NOVEMBER 2007 - NOVEMBER 2013**
- Name and address of employer **AGRICULTURAL UNIVERSITY OF TIRANA, FACULTY OF FORESTRY SCIENCES - RRUGA KODER KAMEZ - 1029 TIRANA - ALBANIA (AL)**

- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

- Dates (from – to)
- Name and address of employer

- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

EDUCATION AND TRAINING

EDUCATION

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

TRAINING AND FELLOWSHIP

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

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- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

PHYSICS AND METEOROLOGY SECTION

ACADEMIC RESEARCHER

- LECTURER OF PHYSICS AND METEOROLOGY BASIS.

NOVEMBER 2004 - NOVEMBER 2007

INSTITUTE OF NUCLEAR PHYSICS, DEPARTMENT OF HEALTH AND ENVIRONMENT RADIOPROTECTION - RRUGA QESARAKË - 1040 TIRANA - ALBANIA (AL)

GAMMA-RAY SPECTROMETRY SECTION

ACADEMIC RESEARCHER

- LABORATORY SPECIALIST FOR HPGe GAMMA-RAY SPECTROMETRY MEASUREMENTS APPLIED TO ENVIRONMENTAL STUDIES;

- RESPONSIBLE FOR HPGe GAMMA-RAY SPECTROMETRY MEASUREMENTS FOR RADIATION PROTECTION HEALTH STUDIES BASED ON NATIONAL REGULATIONS.

JANUARY 2009 - MARCH 2012

UNIVERSITY OF FERRARA, PHYSICS DEPARTMENT - VIA SARAGAT, 1 - 44122 FERRARA - ITALY (IT)

ADVANCED GAMMA-RAY SPECTROMETRY FOR ENVIRONMENTAL RADIOACTIVITY MONITORING

PHD DEGREE IN PHYSICS

OCTOBER 1999 - JULY 2004

UNIVERSITY OF TIRANA, PHYSICS DEPARTMENT - RRUGA DESHMORET E KOMBIT - 1001 TIRANA - ALBANIA (AL)

A UNIFIED METHOD FOR STUDYING THE NON-HOLONOMIC DYNAMICAL SYSTEMS

MASTER DEGREE IN PHYSICS

05 - 31 OCTOBER 2007

RISOE NATIONAL LABORATORY, TECHNICAL UNIVERSITY OF DENMARK - FREDERIKSBORGVEJ, 399 - 4000 ROSKILDE - DENMARK (DK)

METHODS FOR ANALYSES OF RADIOACTIVITY IN DRINKING AND SURFACE WATER

TRAINING

24 SEPTEMBER - 05 OCTOBER 2007

INTERNATIONAL SCIENTIFIC CRUISE TO ADRIATIC AND IONIAN SEAS, SPLIT, CROATIA (HR)

MARINE ENVIRONMENTAL ASSESSMENT OF THE MEDITERRANEAN REGION

TRAINING

02 - 12 MAY 2006

RUDER BOSKOVIC INSTITUTE, ROVINJ AQUARIUM - STR. G. PALIAGA, 5 - 52210 ROVIGNO - CROATIA (HR)

"REGIONAL ADVANCED TRAINING COURSE ON THE SAMPLING, SAMPLE PREPARATION AND ANALYSIS FOR THE MEASUREMENT OF RADIONUCLIDES IN THE MARINE ENVIRONMENT" ORGANIZED BY THE INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)

TRAINING

Gerti Xhixha

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

10 - 14 APRIL 2006

GREEK ATOMIC ENERGY COMMISSION (GAEC) - STR. AG. PARASKEVI 153 10 - P.O.BOX 60092
 ATHENS - GREECE (GR)
 "REGIONAL TRAINING COURSE ON GAMMA SPECTROMETRY FOR MONITORING OF RADIONUCLIDES IN AIR"
 ORGANIZED BY THE INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)
 TRAINING

- Dates (from – to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

17 MAY - 19 NOVEMBER 2005

UNIVERSITY OF TEXAS AT AUSTIN, NUCLEAR ENGINEERING TEACHING LABORATORY - PICKLE
 RESEARCH CAMPUS R-900 - 78712 AUSTIN - TEXAS (USA)
 SAFE PREDISPOSAL AND DISPOSAL OF RADIOACTIVE WASTE
 IAEA FELLOWSHIP

REVIEW/REFEREE FOR JOURNAL

- JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY
- JOURNAL OF ENVIRONMENTAL RADIOACTIVITY
- THE EUROPEAN PHYSICAL JOURNAL - PLUS
- JOURNAL OF RADIOLOGICAL PROTECTION
- PHYSICA SCRIPTA
- ELECTRONIC JOURNAL OF BIOLOGY

INTERCOMPARISON PROFICIENCY TEST

- IAEA TEL 2013
- IAEA TEL 2014

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ALBANIAN

OTHER LANGUAGES

- Reading skills excellent
- Writing skills excellent
- Verbal skills excellent

ENGLISH
 excellent
 excellent
 excellent

- Reading skills excellent
- Writing skills excellent
- Verbal skills excellent

ITALIAN
 excellent
 excellent
 excellent

SOCIAL SKILLS AND COMPETENCES

I HAVE AN ACADEMIC EXPERIENCE GATHERED IN 10 YEARS OF NATIONAL AND INTERNATIONAL SCIENTIFIC COLLABORATIONS. THE PRIORITY IN MY PROFESSIONAL GROWTH IS TO CONSTRUCT A STRONG SCIENTIFIC AND HUMAN COLLABORATION NETWORK WHICH BELIEVES IN THE VALUE OF SERIOUS, CONSTANT AND HONEST JOB. I'M A FUN OF FREE SHARING OF INFORMATION.

ORGANIZATIONAL SKILLS AND COMPETENCES

I PERSONALLY BELIEVE THAT THE COLLABORATIONS WITH PERSONS WITH DIFFERENT SCIENTIFIC BACKGROUND ARE THE KEY FACTOR FOR REACHING EXCELLENT SCIENTIFIC RESULTS. IN MY PREVIOUS EXPERIENCES IN DIFFERENT SCIENTIFIC PROJECTS I HAVE HAD THE POSSIBILITY TO MANAGE DIFFERENT SCIENTIFIC WORKPACKAGES IN STRONG CONTACT WITH GEOPHYSICISTS, GEOLOGISTS, GEOCHEMISTS,

CHEMISTS AND ELECTRONICS. I HAVE EXPERIENCE IN THE PROJECT MANAGEMENT AND IN PARTICULAR I TOOK CARE OF MANY SCIENTIFIC, ADMINISTRATIVE AND ECONOMICAL REPORTINGS.

TECHNICAL SKILLS
AND COMPETENCES

- MAIN OS: WINDOWS, LINUX ED ANDROID;
- SOFTWARE: MICROSOFT OFFICE PACKAGE - DREAMWEAVER - COREL PHOTOPAINT - COREL DRAW - ADOBE PHOTO SHOP - MATHLAB - MATHEMATICA - DERIVE - ESRI ARCMAP 9.2 - SURFER - ORIGINLAB – STATISTICA – AUTOCAD;
- PROGRAMMING LANGUAGES: BASIC - FORTRAN - JAVA - HTML - C - PHP - ASP.

ARTISTIC SKILLS
AND COMPETENCES

I HAVE GOOD SKILL FOR TECHNICAL DESIGN.

DRIVING LICENCE(S)

CATEGORY B

ANNEX A

PLEASE SEE IN ATTACHMENT THE LIST OF PUBLICATIONS.

ANNEX B

PLEASE SEE IN ATTACHMENT THE SCIENTIFIC AND RESEARCH PROJECTS.

ANNEX C

PLEASE SEE IN ATTACHMENT THE ACADEMIC ACTIVITY.



PATENTS

1. T. Colonna, F. Mantovani, C. Rossi Alvarez, G. Xhixha. *Dispositivo attivo MCA stand-alone per la digitalizzazione di segnali di spettroscopia gamma outdoor*. Patent Application IT RM20120180 A1. October 27, 2013.

PEER-REVIEWED SCIENTIFIC PUBLICATIONS

1. M. Kaçeli Xhixha, M. Alberi, M. Baldoncini, G.P. Bezzon, G.P. Buso, I. Callegari, L. Casini, S. Cuccuru, G. Fiorentini, E. Guastaldi, F. Mantovani, L. Mou, G. Oggiano, A. Puccini, C. Rossi Alvarez, V. Strati, G. Xhixha, A. Zanon. Map of the uranium distribution in the Variscan Basement of Northeastern Sardinia. (*In preparation*)
2. G. Xhixha, M. Alberi, M. Baldoncini, K. Bode, E. Bylyku, F. Cfarku, I. Callegari, F. Hasani, S. Landsberger, F. Mantovani, E. Rodriguez, F. Shala, V. Strati, M. Xhixha Kaçeli. Evaluation of the practicability of certified reference materials for HPGe efficiency calibration for the determination of radioactivity in environmental samples. (*In preparation*)
3. G. Xhixha, M. Baldoncini, I. Callegari, T. Colonna, F. Hasani, F. Mantovani, F. Shala, V. Strati, M. Xhixha Kaçeli. A century of oil and gas exploration in Albania: assessment of Naturally Occurring Radioactive Materials (NORMs). *Chemosphere* (2015) 139C:30-39. Doi: <http://dx.doi.org/10.1016/j.chemosphere.2015.05.018>
4. M. Baldoncini, I. Callegari, G. Fiorentini, F. Mantovani, B. Ricci, V. Strati, G. Xhixha. A reference worldwide model for antineutrinos from reactors. *Physical Review D* (2015) 91:065002. Doi: <http://dx.doi.org/10.1103/PhysRevD.91.065002>
5. V. Strati, M. Baldoncini, I. Callegari, F. Mantovani, W. F. McDonough, B. Ricci, G. Xhixha. Expected geoneutrino signal at JUNO. *Progress in Earth and Planetary Science* (2015) 2:5. Doi: <http://dx.doi.org/10.1186/s40645-015-0037-6>
6. K. Tushe Bode, E. Bylyku, G. Xhixha, B. Daci, K. Fishka. ^{210}Po in mussels (*Mytilus galloprovincialis*) from Butrinti Lagoon, Albanian Ionian coast. *Journal of Radioanalytical and Nuclear Chemistry* (2015) 304:1353-1358. Doi: <http://dx.doi.org/10.1007/s10967-015-4005-9>
7. F. Hasani, F. Shala, G. Xhixha, M.K. Xhixha, G. Hodolli, S. Kadiri, E. Bylyku, F. Cfarku. Naturally occurring radioactive materials (NORMs) generated from lignite-fired power plants in Kosovo. *Journal of Environmental Radioactivity* (2014) 138:156-161. Doi: <http://dx.doi.org/10.1016/j.jenvrad.2014.08.015>
8. F. Cfarku, G. Xhixha, E. Bylyku, P. Zdruli, F. Mantovani, F. Përpunja, I. Callegari, E. Guastaldi, M. Xhixha Kaçeli, H. Thoma. A preliminary study of gross alpha/beta activity concentrations in drinking waters from Albania. *Journal of Radioanalytical and Nuclear Chemistry* (2014) 301(2):435-442. Doi: <http://dx.doi.org/10.1007/s10967-014-3142-x>
9. V. Strati, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, L. Carmignani, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, R. Menegazzo, L. Mou, C. Rossi Alvarez, G. Xhixha, A. Zanon. Total natural radioactivity map of Veneto (Italy). *Journal of Maps* (2014). Doi: <http://dx.doi.org/10.1080/17445647.2014.923348>
10. A. Puccini, G. Xhixha, S. Cuccuru, G. Oggiano, M. Kaçeli Xhixha, F. Mantovani, C. Rossi Alvarez, L. Casini. Radiological characterization of granitoid outcrops and dimension stones of the Variscan Corsica-Sardinia Batholith. *Environmental Earth Sciences* (2014) 71(1):393-405. Doi: <http://dx.doi.org/10.1007/s12665-013-2442-8>
11. G. Bellini et al., (Borexino Collaboration). Lifetime measurements of ^{214}Po and ^{212}Po with the CTF liquid scintillator detector at LNGS. *The European Physical Journal A* (2013) 49:92. Doi: <http://dx.doi.org/10.1140/epja/i2013-13092-9>
12. E. Guastaldi, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, L. Carmignani, I. Callegari, T. Colonna, K. Dule, G. Fiorentini, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, V. Strati, G. Xhixha, A. Zanon. A multivariate spatial interpolation of airborne γ -ray data using the geological constraints. *Remote Sensing of Environment* (2013) 137:1-11. Doi: <http://dx.doi.org/10.1016/j.rse.2013.05.027>
13. I. Callegari, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, L. Carmignani, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, A. Pirro, C. Rossi Alvarez, V. Strati, G. Xhixha, A. Zanon. Total natural radioactivity map of Tuscany (Italy). *Journal of Maps* (2013) 9(3):438-443. Doi: <http://dx.doi.org/10.1080/17445647.2013.802999>



14. G. Xhixha, A. Ahmeti, G.P. Bezzon, M. Bitri, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, F. Cfarku, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, D. Prifti, C. Rossi Alvarez, Dh. Sadiraj Kuqi, M. Shyti, L. Tushe, M. Xhixha Kaçeli, A. Zyfi. *First Characterization Of Natural Radioactivity In Building Materials Manufactured In Albania. Radiation Protection Dosimetry (2013)* 155(2):217–223. Doi: <http://dx.doi.org/10.1093/rpd/ncs334>
15. G. Xhixha, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, S. De Bianchi, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, A. Pasquini, C. Rossi Alvarez, M. Shyti, M. Kaçeli Xhixha. *The worldwide NORM production and a fully automated gamma-ray spectrometer for their characterization. Journal of Radioanalytical and Nuclear Chemistry (2013)* 295:445–457. Doi: <http://dx.doi.org/10.1007/s10967-012-1791-1>
16. A. Caciolli, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, G. Xhixha, A. Zanon. *A new FSA approach for in situ γ -ray spectroscopy. Science of the Total Environment (2012)* 414:639–645. Doi: <http://dx.doi.org/10.1016/j.scitotenv.2011.10.071>
17. F. Cfarku, E. Bylyku, G. Xhixha, M. Shyti, E. Bakiu. *Radioactivity Monitoring in Drinking Water of Albania. Journal of Environmental Protection and Ecology (2011)* 12(3):1116-1120. ISSN: 1311-5065

NOT PEER-REVIEWED SCIENTIFIC PUBLICATIONS

1. V. Strati, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, L. Carmignani, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, R. Menegazzo, L. Mou, C. Rossi Alvarez, G. Xhixha, A. Zanon. *Total natural radioactivity map of Veneto (Italy). INFN-LNL Rep. 240 (2014)*, 145-146. ISSN: 1828-8561. http://www.lnl.infn.it/~annrep/read_ar/2013/index_contrib.htm
2. G.P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, M. Kaçeli Xhixha, G. Xhixha, A. Zanon. *First flight test on Elba Island for the Airborne gamma-ray Survey System developed at LNL. INFN-LNL Rep. 239 (2013)*, 148-149. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2012/index_contrib.htm
3. G.P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, M. Kaçeli Xhixha, G. Xhixha, A. Zanon. *Soil isotopic abundances reconstructed by using simulated spectra. INFN-LNL Rep. 239 (2013)*, 194-195. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2012/index_contrib.htm
4. G.P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, M. Kaçeli Xhixha, G. Xhixha, A. Zanon. *Monte Carlo simulation to describe airborne survey effects. INFN-LNL Rep. 239 (2013)*, 196-197. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2012/index_contrib.htm
5. G. Xhixha, G.P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, I. Callegari, T. Colonna, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, G. Fiorentini, M. Kaçeli Xhixha, A. Zanon. *Airborne gamma-ray Survey System Developed at LNL. INFN-LNL Rep. 238 (2012)*, 133-134. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2011/index_intro.htm
6. A. Caciolli, G. P. Bezzon, G.P. Buso, C. Broggin, I. Callegari, T. Colonna, G. Fiorentini, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, G. Xhixha, E. Guastaldi, M. K. Xhixha, A. Zanon. *The Non Negative Least Square Applied to the Full Spectrum Analysis. INFN-LNL Rep. 238 (2012)*, 129-130. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2011/index_intro.htm
7. L. Mou, G. P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, I. Callegari, T. Colonna, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, C. Rossi Alvarez, M. Shyti, G. Xhixha, G. Fiorentini, M. Kaçeli Xhixha, A. Zanon. *Mapping of Natural Radioelements Using γ -ray Spectrometry: Veneto Region case of study. INFN-LNL Rep. 238 (2012)*, 131-132. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2011/index_intro.htm
8. G.P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, I. Callegari, T. Colonna, E. Guastaldi, F. Mantovani, S. Mariani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, G. Xhixha. *Mapping of natural radioelements using gamma-ray spectrometry: Tuscany Region case of study. INFN-LNL Rep. 234 (2011)*, 161-162. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2010/index_intro.htm

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9. G.P. Bezzon, G.P. Buso, C. Broggin, A. Caciolli, F. Mantovani, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, G. Xhixha, A. Zanon. *A γ -Spectroscopy System for Atmospheric Radon Detection*. *INFN-LNL Rep. 234 (2011)*, 141-142. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2010/index_intro.htm
10. G.P. Bezzon, G.P. Buso, I. Callegari, T. Colonna, E. Guastaldi, F. Mantovani, S. Mariani, G. Massa, C. Rossi Alvarez, M. Shyti, G. Xhixha. *Preliminary results for the characterization of the radiological levels of rocks in Tuscany Region*. *INFN-LNL Rep. 230 (2010)*, 105-106. ISSN: 1828-8545. http://www.lnl.infn.it/~annrep/read_ar/2009/index_intro.htm
11. F. Cfarku, E. Bylyku, G. Xhixha, M. Shyti, F. Përpunja. *Përcaktimi i radioaktivitetit alfa - beta total në ujë me metodën e npg (numërues propocional gazor)*. *Buletini i Shkencave Natyrore (2009)* 7:83-88.

CONFERENCE PROCEEDINGS

1. E. Tufarolo, M. Baldoncini, G.P. Bezzon, F.N. A. Brogna, G.P. Buso, I. Callegari, L. Carmigani, T. Colonna, G. Fiorentini, E. Guastaldi, M.K. Xhixha, F. Mantovani, L. Mou, C. Pagotto, E. Realini, M. Reguzzoni, C.R. Alvarez, R. Salvini, D. Sampietro, V. Strati, G. Xhixha, A. Zanon. *Il Radgyro: un autogiro dedicato ad acquisizioni airborne multiparametriche*. **18° Conferenza Nazionale Federazione delle Associazioni Scientifiche per le Informazioni Territoriali e Ambientali (ASITA 2014)**, Firenze, Italy. <http://www.asita.it/>
2. P. Garosi, M. Baldoncini, A. Iovene, F. Mantovani, L. Mou, S. Petrucci, C. Rossi Alvarez, V. Strati, C. Tintori, G. Xhixha. *A segmented detector for airborne gamma-ray spectroscopy*. **14th International Conference on Nuclear Microprobe Technology and Applications (ICNMTA 2014)**, Padova, Italy.
3. E. Guastaldi, M. Baldoncini, A. Barbagli, G.P. Bezzon, G.P. Buso, I. Callegari, T. Colonna, G. Fiorentini, M. Kaçeli Xhixha, F. Mantovani, G. Massa, L. Mou, C. Rossi Alvarez, V. Strati, G. Xhixha. *Field sampling and analytical measurements for validation of geostatistical interpolation of airborne gamma-ray data*. **10th Conference on Geostatistics for Environmental Applications (geoENV) 2014** Paris, France.
4. P. Garosi, M. Baldoncini, A. Iovene, F. Mantovani, L. Mou, S. Petrucci, C. Rossi Alvarez, V. Strati, C. Tintori, G. Xhixha. *A segmented detector for airborne gamma-ray spectroscopy*. **Symposium on Radiation Measurements and Applications (SORMA XV 2014)**, Michigan, USA.
5. G. Xhixha, M. Baldoncini, G.P. Bezzon, G.P. Buso, L. Carmignani, I. Callegari, T. Colonna, E. Guastaldi, G. Fiorentini, F. Mantovani, L. Mou, C. Robustini, C. Rossi Alvarez, V. Strati, M. Kaçeli Xhixha, A. Zanon. *Performances of a lightweight collimated γ -ray spectrometer for in-situ surveys*. **EU-NORM 2 Symposium (2014)**, Prague, Czech Republic.
6. G. Xhixha, M. Baldoncini, G.P. Bezzon, G.P. Buso, I. Callegari, T. Colonna, G. Fiorentini, G. Gjeta, M. Goga, E. Guastaldi, F. Hasani, F. Mantovani, L. Mou, C. Rossi Alvarez, V. Strati, M. Xhixha Kaçeli, A. Zanon. *Assessment of Naturally Occurring Radioactive Materials (NORMs) in soils from the Kuçova oilfield, Albania*. **7th International Conference on ENVIRONMENTAL and GEOLOGICAL SCIENCE and ENGINEERING (EG 2014)**, Salerno, Italy. Latest Trends in Energy, Environment and Development, 154-160. ISBN: 978-960-474-375-9. <http://www.wseas.us/e-library/conferences/2014/Salerno/ENED/ENED-20.pdf>
7. M. Baldoncini, J. Esposito, L. Ludhova, F. Mantovani, B. Ricci, G. Xhixha, S. Zavatarelli. *Geo-neutrinos and reactor anti-neutrinos expected in Daya Bay II and in LENA*. **Japan Geoscience Union Meeting (JpGU 2014)** Pacifico Yokohama, Kanagawa, Japan. <https://confit.atlas.jp/guide/event-img/jpgu2014/U02-P05/pdf/subject>
8. L. Miramonti et al. (Borexino Collaboration). *Lifetime measurements of ^{214}Po and ^{212}Po with the CTF liquid scintillator detector at LNGS*. *Journal of Environmental Radioactivity (Special Issue) (2014) - 2nd International Conference on Po and Radioactive Pb Isotopes (INCO-PoPb 2013)* Mangalagangothri, India. Doi: <http://dx.doi.org/10.1016/j.jenvrad.2014.02.025>
9. A. Ahmeti, G. Xhixha, G. P. Bezzon, M. Bitri, C. Broggin, G. P. Buso, A. Caciolli, I. Callegari, F. Cfarku, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, D. Prifti, C. Rossi Alvarez, Dh. Sadiraj Kuqi, M. Shyti, L. Tushe, M. Xhixha Kaçeli, A. Zyfi. *Natural radioactivity in clay bricks and cements used in Albania*. *Natura Montegrina (Special Issue) (2013) - 5th International Symposium of the Ecologists of the Republic of Montenegro (ISEM5 2013)*, Tivat, Montenegro, 12(3-4):1003-1012.
10. G. Xhixha, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, V. Strati. *Automated gamma-ray spectrometer for monitoring wastes made by non-nuclear industries*. *Mineralogical Magazine (2013) - Goldschmidt Abstracts 2013*, Florence, Italy, 77(5):2519-2533. Doi: <http://dx.doi.org/10.1180/minmag.2013.077.5.24>

11. E. Guastaldi, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, V. Strati, **G. Xhixha**. *Mapping the natural radioactivity of Elba Island by means of geostatistical interpolation of airborne γ -ray data*. *Mineralogical Magazine* (2013) - *Goldschmidt Abstracts 2013*, Florence, Italy, 77(5):1125-1238. Doi: <http://dx.doi.org/10.1180/minmag.2013.077.5.7>
12. A.Puccini, **G. Xhixha**, S. Cuccuru, G. Oggiano, M. Kaçeli Xhixha, F. Mantovani, C. Rossi Alvarez, L. Casini. *Radiogenic heat potential of the northern Sardinia Variscan crust*. *Mineralogical Magazine* (2013) - *Goldschmidt Abstracts 2013*, Florence, Italy, 77(5):1910-2009. Doi: <http://dx.doi.org/10.1180/minmag.2013.077.5.16>
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14. **G. Xhixha**, A. Ahmeti, G.P. Bezzon, M. Bitri, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, F. Cfarku, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, Dh. Sadiraj Kuqi, M. Shyti, V. Strati, M. Xhixha Kaçeli, P. Zdruli, A. Zyfi. *Natural radioactivity in chemical fertilizers used in Albania investigated with a fully automated gamma-ray spectrometer*. *3rd International Conference of Ecosystems – (ICE 2013)* Tirana, Albania, 2:791-796. ISBN: 978-9928-4068-7-3 <https://sites.google.com/a/ubt.edu.al/eko-eto-bioklim/3rd-international-conference-of-ecosystems-ice-2013/proceeding-book-ice2013>
15. G. Fiorentini, G.L. Fogli, E. Lisi, F. Mantovani, A.M. Rotunno, **G. Xhixha**. *The Earth's mantle and geoneutrinos*. *Nuclear Physics B (Proc. Suppl.)* (2013) - *Neutrino Oscillation Workshop (NOW 2012)* Lecce, Italy, 237-238:82-84. Doi: <http://dx.doi.org/10.1016/j.nuclphysbps.2013.04.062>
16. G. Fiorentini, G.L. Fogli, E. Lisi, F. Mantovani, A.M. Rotunno, **G. Xhixha**. *Exploring the Earth's mantle with geoneutrinos*. *Nuovo Cimento C* (2013) - *Incontri di Fisica delle Alte Energie (IFAE 2012)* Ferrara, Italy, 36C(1):239-242. Doi: <http://dx.doi.org/10.1393/ncc/i2013-11446-1>
17. V. Strati, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, **G. Xhixha**. *Studio del contenuto di radioattività delle principali formazioni rocciose delle aree alpine, prealpine e collinari della Regione Veneto*. *Workshop in geofisica 2012* Museo Civico Rovereto, Italy, 123-140. ISBN: 978-88-7498-200-4. http://www.museocivico.rovereto.tn.it/atti_geofisica_2012
18. **G. Xhixha**, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, V. Strati. *A fully automated gamma-ray spectrometer for NORM characterization*. *5th EAN^{NORM} workshop 2012* on "Measurement strategies in NORM" and Topical day "NORM in oil- and gas industry", IAF-Radioökologie GmbH, Dresden, Germany. http://www.ean-norm.net/lenya/ean_norm/images/pdf/workshop_5/presentationen/Xhixha.pdf
19. **G. Xhixha**, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, M. Kaçeli Xhixha, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, M. Shyti, A. Zanon. *Advanced Full Spectrum Analysis applied to in-situ gamma-ray spectroscopy*. *1st International workshop on recent LHC results and related topics 2012* Tirana, Albania.
20. E. Guastaldi, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, F. Mantovani, G. Massa, R. Menegazzo, L. Mou, C. Rossi Alvarez, **G. Xhixha**, and A. Zanon. *Integrating of airborne gamma-ray survey and geological data for environmental radioactivity map construction*. *9th Conference on Geostatistics for Environmental Applications (geoENV) 2012* Valencia, Spain, 137-144. ISBN: 978-84-8363-924-5. <http://geoenv2012.upv.es/>
21. L. Mou, M. Baldoncini, G.P. Bezzon, C. Broggin, G.P. Buso, A. Caciolli, I. Callegari, T. Colonna, G. Fiorentini, E. Guastaldi, F. Mantovani, G. Massa, R. Menegazzo, C. Rossi Alvarez, M. Shyti, **G. Xhixha**, M. Xhixha. *Nuovo spettrometro gamma per il monitoraggio della radioattività in situ*. *Atti del Workshop in geofisica (2010)* Rovereto, Trento (2011), 59-72. ISBN: 978-88-7498-160-1. http://www.museocivico.rovereto.tn.it/atti_geofisica_2010

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22. A. Puccini, S. Cuccuru, G. Oggiano, F. Mantovani, G. Xhixha, L. Mou, C. Rossi Alvarez. *Measurements of natural radioactivity with a portable gamma-ray spectrometer in Sardinian granite dimension stones. 6th International Conference of Applied Geophysics for Environmental and Territorial System Engineering (2011)* Sardinia, Italy.
23. A. Puccini, S. Cuccuru, D. Sechi, G. Oggiano, F. Mantovani, G. Xhixha, S. Mariani. *Employment of portable gamma-ray spectrometer in survey and mapping of intrusive complexes: a case study from the Buddusò pluton (Sardinia). Atti 85° Congresso Società Geologica Italiana (2010)* 11:297-298.
24. G.P. Bezzon, G. Buso, I. Callegari, T. Colonna, E. Guastaldi, F. Mantovani, S. Mariani, G. Massa, C. Rossi Alvarez, M. Shyti, G. Xhixha. *Preliminary results for the characterization of the adiological levels of rocks in Tuscany Region. Atti 85° Congresso Società Geologica Italiana (2010)* 11:513-514.
25. A. Puccini, S. Cuccuru, D. Sechi, G. Oggiano, F. Mantovani, G. Xhixha, S. Mariani. *Natural radioactivity in Sardinian granite dimension stones. Atti 85° Congresso Società Geologica Italiana (2010)* 11:552-553.



ANNEX B SCIENTIFIC AND RESEARCH PROJECTS

September 2013 – September 2017

Member of Management Committee & Working Groups in Action TU1301 "NORM for Building materials (NORM4BUILDING)" financed by European Cooperation in Science and Technology (COST) under Transport and Urban Development (TUD) Program.

"The depletion of energy resources and raw materials has a huge impact on the building market. In the development of new synthetic building materials the reuse of various (waste) residue streams becomes a necessity. This COST initiative stimulates the collaboration of scientists, industries and regulators to gather knowledge, experiences and technologies, to stimulate research on the reuse of residues containing enhanced concentrations of natural radionuclides (NORM) like fly-ash, phosphogypsum, bauxite red-mud etc., in tailor-made building materials in the construction sector while considering the impact on both external gamma exposure of building occupants and indoor air quality. By improving radiological impact assessment models for the reuse of NORM residues in building materials we hope to further stimulate justified uses of NORM residues in different types of newly developed building materials. Based on these models, we aim at investigating realistic legislative scenarios so that the authorities concerned can allow reuse pathways for NORM that can be accepted from a radioprotection point of view in concordance with the Lead Marked Initiative (LMI) and sustainable construction."

January 2012 – December 2017

Member of Working Groups in National Project "Italian Radioactivity Project (ITALRAD)" financed by Ministry of Instruction University and Research (MIUR) under Reward Projects Program.

"The recommendation of the European Commission on 8 June 2000, Article 36 of Council Directive 96/29/EURATOM of 13 May 1996, concerning of the monitoring of environmental levels of radioactivity in order to control the exposure level of the population require the baseline information from each member states. This project aims the realization of the first map of the distribution of concentration of natural radionuclides (^{40}K , ^{238}U and ^{232}Th) in Italy by using gamma ray spectrometry measurements. A further attention will be to the top soil distribution of artificial radionuclide of ^{137}Cs , in order to strengthen the state of knowledge for the national emergency response program in accordance to National Research Program 2011/2013 of Ministry of Instruction University and Research (MIUR). In particular a set of portable detectors will be developed at Legnaro National Laboratory (LNL), from which the first operational instrument in Italy for airborne measurement of radioactivity (Airborne Gamma Ray Spectrometry, AGRS). By improving the state of knowledge for natural radiation background Italy will be aligned to many industrialized countries (USA, Switzerland, Austria, Australia, Canada etc.)."

September 2010 – September 2013

Member of Management Committee & Working Groups in Excellence Project "The distribution of natural radioelements across the Veneto Region by using airborne gamma-ray spectrometry (RADMONITOR) financed by Foundation Cassa di Risparmio di Padova e Rovigo (CARIPARO) under Project of Excellence 2009/2010 Program.

"This project aims to study the distribution of natural radionuclides (^{40}K , ^{238}U and ^{232}Th) across the Veneto Region by using gamma-ray spectroscopy: in particular a set of portable detectors will be developed at Legnaro National Laboratory (LNL), from which the first operational instrument in Italy for airborne measurement of radioactivity (Airborne Gamma Ray Spectrometry, AGRS). From the technological innovation point of view, as a goal of this research project it is the development of the first Italian detector consisting of 32 L of NaI(Tl) and designed for Airborne Gamma-Ray Spectrometry surveys. This instrument will be realized conform the IAEA guidelines and in the future it can be used in collaboration with INFN from other public institutions for the monitoring of natural and artificial radioactivity. These results will be the starting point versus for future environmental monitoring program and regional emergency response capacities."



January 2008 – December 2010

Member of Working Groups in Regional Project "Misure della radioattività naturale e realizzazione di una cartografia tematica del potenziale contenuto di radioattività naturale del territorio della Regione Toscana (RADNAT)" financed by Tuscany Region under Comitato Interministeriale per la Programmazione Economica (CIPE) Program.

"This project aims to simulate the development of new technologies on the field of nuclear physics applied to the environment with particular objective of the study on regional scale of the distribution of natural radionuclides (^{40}K , ^{238}U and ^{232}Th). By approaching an interdisciplinary collaboration with geoscience fields will be developed a dedicated monitoring program with the aim of characterizing the radionuclide concentrations in the main geological formations of the Tuscany Region. For this purpose a set of portable detectors will be developed at Legnaro National Laboratory (LNL) for in-situ radioactivity measurements. Furthermore, a fully automated high resolution gamma-ray spectrometer will be developed at Department of Physics and Earth Sciences, University of Ferrara for the measurement of collected samples. The baseline geochemical map will be the starting point versus for future environmental monitoring program with particular emphasis on geogenic radon monitoring."



ANNEX C ACADEMIC ACTIVITY

UNIVERSITY TEXT BOOKS

1. Dhurata Kuqi, Lulëzime Aliko, Gerti Xhixha. *Fizikë e Përgjithshme (Lëkundjet, Valët, Optika) (2010)*. SHBLU – ISBN 978-99927-0-542-1
2. E. Gjikondi, E. Topçiu, E. Angjeli, G. Xhixha, B. Tabaku, T. Mulaj, Z. Mulaj, V. Muda, I. Vulkaj, P. Malkaj, Dh. Kuqi, M. Kuqali, P. Berberi. *Kurs i Fizikës 2 (Elektriciteti, Elektromagnetizmi, Optika) (2009)*. ALSA – ISBN 978-99956-817-4-6

UNIVERSITY TEACHING

A.A. 2014-2015

- Tutor teacher – Course of Physics II (Bachelor's Degree in Geological Sciences – University of Ferrara)

A.A. 2013-2014

- Lecturer – Course of *Environmental Physics and Chemistry* (PhD Degree in Engineering Physics – Polytechnic University of Tirana)

A.A. 2013-2014

- Tutor teacher – Course of Physics II (Bachelor's Degree in Geological Sciences – University of Ferrara)

A.A. 2011-2012

- Teacher – Short Course (Master's Degree – Centro di GeoTecnologie, University of Siena)

A.A. 2010-2011

- Tutor teacher - Course of Physics I (Bachelor's Degree in Information Engineering - University of Ferrara)
- Teacher - Course of General Physics (Bachelor's Degree in Forestry Sciences - Agricultural University of Tirana)

A.A. 2009-2010

- Teacher - Course of General Physics (Bachelor's Degree in Forestry Sciences - Agricultural University of Tirana)

A.A. 2008-2009

- Teacher - Course of General Physics (Bachelor's Degree in Forestry Sciences - Agricultural University of Tirana)
- Teacher - Course of Physics I (Bachelor's Degree in Electrical Engineering - Polytechnic University of Tirana)

A.A. 2007-2008

- Teacher - Course of General Physics (Bachelor's Degree in Forestry Sciences - Agricultural University of Tirana)
- Teacher - Course of Physics I (Bachelor's Degree in Electronic Engineering - Polytechnic University of Tirana)
- Teacher - Course of Physics I (Bachelor's Degree in Electrical Engineering - Polytechnic University of Tirana)

A.A. 2006-2007

- Teacher - Course of Physics I (Bachelor's Degree in Electronic Engineering - Polytechnic University of Tirana)
- Teacher - Course of Physics I (Bachelor's Degree in Electrical Engineering - Polytechnic University of Tirana)

A.A. 2005-2006

- Teacher - Course of Physics I (Bachelor's Degree in Electronic Engineering - Polytechnic University of Tirana)
- Teacher - Course of Physics I (Bachelor's Degree in Electrical Engineering - Polytechnic University of Tirana)

A.A. 2004-2005

- Teacher - Course of Physics I (Bachelor's Degree in Mathematical Engineering - University of Tirana)

SUMMER SCHOOL TEACHING

June 16-27, 2014 – Stage at Legnaro National Laboratory (LNL, INFN) – Seminar on “Introductory lectures on Nuclear Physics and Applications”.

June 17-28, 2013 – Stage at Legnaro National Laboratory (LNL, INFN) – Seminar on “Introductory lectures on Nuclear Physics and Applications”.



June 18-29, 2012 – Stage at Legnaro National Laboratory (LNL, INFN) – Seminar on “Introductory lectures on Nuclear Physics and Applications”.

June 14-28, 2011 – Stage at Legnaro National Laboratory (LNL, INFN) – Seminar on “Introductory lectures on Nuclear Physics and Applications”.

THESIS SUPERVISOR/CO-SUPERVISOR

A.A. 2013-2014 – Master's Degree in Physical Engineering (Polytechnic University of Tirana)

Title: “*Vlerësimi i radioaktivitetit natyror në tokë në fushat kryesore naftë-nxjerrëse në Shqipëri*”, in Albanian.

Student: Mariola Goga

Supervisor: Gerti Xhixha

A.A. 2013-2014 – Master's Degree in Physical Engineering (Polytechnic University of Tirana)

Title: “*Kalibrimi dhe vlerësimi i efikasitetit të një spektrometri gamma me rezolucion të lartë (HPGe)*”, in Albanian.

Student: Gazmira Gjeta

Supervisor: Gerti Xhixha

A.A. 2012-2013 – Master's Degree in Physics (University of Ferrara)

Title: “*Performance validation of a lightweight collimated gamma-ray spectrometer for in-situ survey*”, in English.

Student: Carolina Robustini

Supervisor: Fabio Mantovani

co-Supervisor: Gerti Xhixha

A.A. 2012-2013 – Master's Degree in Physics (University of Ferrara)

Title: “*Validation of a Monte Carlo method for the calibration of an airborne gamma-ray detector*”, in English.

Student: Marica Baldoncini

Supervisor: Fabio Mantovani

co-Supervisor: Gerti Xhixha

A.A. 2011-2012 – Bachelor's Degree in Physics (University of Ferrara)

Title: “*Studio della distribuzione del fallout di ^{137}Cs in alcuni suoli delle Prealpi Venete*”, in Italian.

Student: Aurora Clerici

Supervisor: Fabio Mantovani

co-Supervisor: Gerti Xhixha

A.A. 2011-2012 – Master's Degree in Physical Engineering (Polytechnic University of Tirana)

Title: “*Karakterizimi i përqëndrimit të radioaktivitetit në materialet e ndërtimit të prodhuara në Shqipëri*”, in Albanian.

Student: Ledio Tushe

Supervisor: Gerti Xhixha

