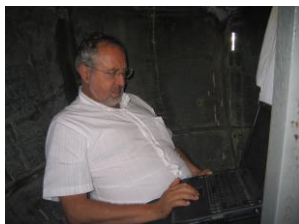




Curriculum Vitae



Personal information

Surname(s) / First name(s)

Gigante Giovanni Ettore

Address(es)

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Telephone(s)

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(remove if not relevant, see instructions)

E-mail

giovanni.gigante@uniroma1.it

Nationality

Italian

Date of birth

1 January 1948

Gender

Male

Desired employment / Occupational field

Full Professor of Applied Physics at Department Basic and Applied Sciences (SBAI) Sapienza University of Rome

Work experience

Dates

1972-76

Occupation or position held

fellow in the

Main activities and responsibilities

Teaching and Research

Name and address of employer

Faculty of Medicine of University of Rome "La Sapienza"

Type of business or sector

Applied Radiation Physics

Dates

1976-83

Occupation or position held

Assistant professor

Main activities and responsibilities

Teaching and Research

Name and address of employer

Faculty of Medicine of University of L'Aquila

Type of business or sector

Applied Radiation Physics

Dates

1983-86

Occupation or position held

Associate professor

Main activities and responsibilities

Teaching and Research

Name and address of employer

Faculty of Medicine of University of L'Aquila

Type of business or sector

Medical Physics and Archaeometry

Dates

1986-

Occupation or position held

Associate professor, full professor (2008)

Main activities and responsibilities

Teaching and Research

Name and address of employer

Department SBAI Sapienza University of Rome

Type of business or sector

Imaging and Archaeometry

Education and training

Dates	1971
Title of qualification awarded	Degree of Physics
Principal subjects/occupational skills covered	Basic and advanced Physics. Developing of research skills
Name and type of organisation providing education and training	Faculty of Science Sapienza University of Rome
Level in national or international classification	ISCED 5A

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English, French**

Self-assessment <i>European level (*)</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	A2	A2r	A2	A2	A2

(*) *Common European Framework of Reference for Languages*

Social skills and competences Attitude to the interdisciplinary research work. Good relational skills

Organisational skills and competences He has been the President of the Council of Educational Area of Technology for Restoration and Conservation of Cultural Heritage at the University of Rome "La Sapienza" and national coordinator of University courses for Conservation and Restoration. He is a founder member of Italian Archaeometry Society.
He is the Italian coordinator of Erasmus-Mundus Master in Archaeological Materials Science (ARCHMAT)
He had the responsibility of national and international research projects funded by Italian Government, EU and NATO.

Technical skills and competences He is an expert of ND techniques applied to the diagnostic procedures in the field of Medicine and Conservation. The main subjects of his activities are: Imaging with x ray, x ray spettrometry and development of related instrumentation.

Artistic skills and competences Author of books and articles on the relationship between sciences and humanities having also a dissemination aim.

Other skills and competences He was several times guest, also for long period, of foreign research institutions in Belgium, United Stated and Brazil. He is leader of some research projects and he his responsible for projects of cultural exchange with Mexico and Brazil.

Additional information His research interest has been focused on the development of ND techniques, applied nuclear physics, imaging and image processing, archaeometry and conservation. He is author of a large number of papers concerning the x ray physics and the development of techniques in journals of physics and applied physics and, more recently, on technique for image acquisition and processing. He is involved in some international collaboration and was invited speaker in national and international conferences in biomedical physics and archaeometry.

Publications

1. Gianni L., Gigante G. E., Cavallini M. e Adriaens A. "Corrosion of Bronzes by Extended Wetting with Single *versus* Mixed Acidic Pollutants", *Materials* 2014, 7(5), 3353-3370; doi:10.3390/ma7053353
2. Schiavon N., De Caro T., Kiros A., Parisi I.E., Riccucci C., Gigante G.E., "A multi-analytical approach to investigate stone biodeterioration at a UNESCO world heritage site: the volcanic rock-hewn churches of Lalibela, Northern Ethiopia", *Applied Physics A: Materials science & Processing*, (2013) 113, 843–854 DOI 10.1007/s00339-013-7757-5.
3. Ingo G.M., et al. "Gold coated copper artifacts from the Royal Tombs of Sipán (Huaca Rajada, Perú): manufacturing techniques and corrosion phenomena", *Applied Physics A: Materials science & Processing*, (2013) 113, 877–887, DOI 10.1007/s00339-013-7711-6.
4. Bustamante A., et al "Multilayered artifacts in the pre-Columbian metallurgy from the North of Peru" *Applied Physics A: Materials science & Processing*, (2013) 113, 889–903, DOI 10.1007/s00339-013-7738-8
5. Rao D.V., M. Bhaskaraiah, Cesareo R., Brunetti A., Akatsuka T., Yuasa T, Zhong Z. Takeda T. e Gigante G. E. "Synchrotron-based non-destructive diffraction-enhanced imaging systems to image walnut at 20 keV *Journal of Food Measurement and Characterization*, *Journal of Food Measurement and Characterization*, 7(1), 13-21, DOI 10.1007/s11694-012-9134-z, 2013
6. Kiros A., Lazic V., Gigante G. E, Gholap A.V. "Analysis of Rock Samples Collected from Rock Hewn Churches of Lalibela, Ethiopia Using Laser-Induced Breakdown Spectroscopy" *Journal of Archaeological Sciences* 40(5), 2570-2578 2013 doi.org/10.1016/j.jas.2013.01.028.
7. Gigante G.E. and Ridolfi S. "X ray techniques and X ray fluorescence with portable systems", in 'Conservation Science – An Application of Instrumental Analysis in the Preservation of Cultural Heritage', in series *Lecture Notes in Chemistry*, ed. E. Varella, Springer Verlag, 2012.
8. Rao D.V., Swapna M., Cesareo R., Brunetti A., Akatsuka T., Yuasa T, Takeda T., Tromba G., Gigante G. E., "Synchrotron-induced X-ray fluorescence applied to invertebrates to investigate the role of essential trace elements in biological process. *Physica Scripta*, 85(2012) doi:10. 1088/0031-8949/84/06/065802
9. Rao D.V., Swapna M., Cesareo R., Brunetti A., Akatsuka T., Yuasa T, Takeda T., Tromba G., Gigante G. E., "Synchrotron-based small angle X-ray scattering from biogenic materials. *Physica Scripta*, 84 (6), pp.6, (2011) 065802. DOI: 10.1088/0031-8949/84/06/065802
10. Gigante G.E., Ridolfi S., Ferro D., "Diagnostic investigations and statistical validation of EDXRF mapping of the burial monument of Pope Sixtus IV by Antonio Pollaiolo (1493) in the Vatican", *Journal of Cultural Heritage* (2011), doi:10.1016/j.culher.2011.11.003.
11. Cesareo R., Bustamante A., Fabian J., Alva W., Chero L., Espinoza C., Rodriguez R, Seclen M., Gutierrez V, Lévano E.B., Gonzales A.J., Rizzutto M.A., Poli E, Calza C, dos Anjos M, Lopes R.T., Gigante G.E., Ingo G.M., Riccucci C., Elera C., Shimada I., Curay V., Castillo M., Lopes F., "Evolution of Pre-Columbian Metallurgy from the North of Peru' Studied with a Portable Non-Invasive Equipment Using Energy-Dispersive X-Ray Fluorescence", *Journal of Materials Science and Engineering B* 1 176, 48-81, (2011)
12. Rao D. V., Swapna M. Cesareo R., Brunetti A., Zhong Z., Akatsuka T., Takeda T., Gigante G. E, "Use of synchrotron-based diffraction-enhanced imaging for visualization of soft tissues in invertebrates", *Applied Radiation and Isotopes* 2010, 68(9),1687-1693.
13. Rao D. V., Swapna M. Cesareo R., Brunetti A., Zhong Z., Akatsuka T, Yuasa T, Takeda T, Gigante GE. Cork embedded internal features and contrast mechanisms with DEI using 18,20,30,36 and 40 keV synchrotron X-rays", *Research in Non-destructive Evaluation* July 2010, 21(3): 171 - 183
14. Visco, G., Ridolfi, S., Plattner, S. H.; Gigante, G. E "Razors, Horse Bits or Axes; Search of the Different Composition in Common Use Bronze Villanovan Objects (VIII-VII Century B.C., Italy) by Multivariate Analysis", *Current Analytical Chemistry*, 2010, 6 (1), 11-18.
15. Corbellini, S., Parvis, M., Grassini S., Piantanida, M., Consalvi, F., Gigante, G.E., Meddi, F., "Electrical Tomography for the Monitoring of Water Moisture in Painted Walls and Ceilings", *Proceedings IEEE International Instrumentation And Measurement Technology Conference I2MTC Austin, TX Maggio 03-06, 2010*
16. Rao D.V., Swapna M., Cesareo R., Brunetti A., Akatsuka T. Yuasa T, Takeda T., Tromba G. e Gigante G. E., "Synchrotron-based X-ray fluorescence, imaging and elemental mapping from biological samples" *Pramana Journal of Physics*, 76(2), 1-9 (2011).
17. Guida G., Artioli D., Ridolfi S. Gigante G. E., "Study by Mobile Non Destructive Testing of The Bronze Statue of The "Sairo" of Marsala., *Science for Cultural Heritage' Technological Innovation and Case Studies in Marine and Land Archaeology in the Adriatic Region and Inland*, 23-30, 2010, World Scientific Publishing Co.,Singapore ISBN-13 978-981-4307-06-2 o 978-981-4307-07-9 (eBook)
18. Cesareo R., Ridolfi S., Marabelli M., Castellano A., Buccolieri G., Donativi M., Gigante G. E., Brunetti A. e Rosales Medina M. A., "Portable Systems for Energy-Dispersive X-Ray Fluorescence Analysis of Works of Art " in *Portable X-Ray Fluorescence Spectrometry: Capabilities for in Situ Analysis* di Philip J. Potts, Margaret West, The Royal Society of Chemistry, 2008 ISBN-13: 9780854045525, 206-243.
19. Gigante G.E., Artioli D., Ferro D., Gabrielli N., Guida G., Guido S., Guiso M., Mantella G, Ridolfi S., "Restoration of the Funeral Monument of Pope Sixtus IV By Antonio Pollaiolo (1493) in the Vatican Basilica, Non Invasive and Microdestructive Analysis. An Operation Protocol", *proceedings of ART '08 NDT.net Issue 2008-09 ISSN 1435-4934* <http://www.ndt.net/article/art2008/papers/154GiganteRidolfi.pdf>.
20. Cesareo R., Gigante G. E, Castellano A., Iwanckyk J.S., "Portable Systems for Energy Dispersive X-Ray Fluorescence Analysis", *Encyclopedia of analytical Chemistry*, curata da R. A. Meyers, ed. John Wiley & sons, 1-17, 2009.

Rome, February 8 2015