



CURRICULUM VITAE

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BIRTHDATE : 23 JANUARY 1969
PLACE OF BIRTH: PORTICI (NAPLES) ITALY
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WORK PLACE/POSITION: **CHIEF EXECUTIVE OFFICER OF
PROMETE SRL - CNR SPIN OFF COMPANY AND REGIONAL
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ACADEMIC EDUCATION AND WORK EXPERIENCE

- since 1997 Chief Executive Officer of PROMETE Srl – CNR_INFM Spin off Company and Regional Research Centre for Experimental Research and Development in the Field of Physics
- 2021 Lecturer for **MASTER UNIVERSITY OF FIRST LEVEL "QUANTUM MEDICINE AND BIORESONANCE" UNITELMASAPIENZA University of Rome** The Master proposes to offer a systematic treatment of the possibilities of integrating conventional medicine with notions, procedures and instruments deriving from the modern **Quantum Physics**, in a holistic vision of the themes concerning health and wellness, lecturer of the Module: "**Water, this unknown**". The Master - the first of its kind to address this innovative topic - will be available in 7 languages, Italian, English, Russian, Chinese, Spanish, German, and Slovenian, in 90 countries around the world.
- 2021 Lecturer for **MASTER OF FIRST LEVEL "ECOLOGY APPLIED TO SALUTOGENESIS" UNIVERSITY OF MOLISE** Interrelation between the health of the environment and the salutogenesis of man, acquisition of new skills in the field of green economy and circular economy, lecturer of the Module: "**Elements of classical physics and quantum mechanics applied to cell biology and dynamics of the living in relation to the ment**". a.a. 2021/2022
- 2010 Lecturer for the **Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) Post Doc courses** regarding INNOVATION & TECHNOLOGY TRANSFER for high qualified researchers

in the area of *Management, programming, strategies and organization of industrial research projects*

- 2009 Lecturer for the **Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) Post Doc courses** regarding INNOVATION & TECHNOLOGY TRANSFER for high qualified researchers in the area of *Techniques and processes software for medical diagnostic-functional imaging*
- 2009 Founder of NOI Association – NAPOLI OPEN INNOVATION www.napoliopeninnovation.it
- 2009 Founder and advisor of the Italian national magazine “TRASFERIMENTO TECNOLOGICO” (Technology Transfer) www.trasferimentotecnologico.it
- 1998– 2000 Research contract with the National Institute for the Physics of Matter (INFM) Naples Research Unit, Physical Sciences Department, “Federico II” University of Naples, Italy: *“Production of magnetoelastic ribbons and their applications”*
- 1997 Research contract with the National Institute for the Physics of Matter (INFM) Naples Research Unit, Physical Sciences Department, “Federico II” University of Naples, Italy: *“Production of magnetoelastic sensors to measure displacements, vibrations and flows”*
- 1997 Founder of PROMETE, consultancy and research company for Innovation and Technology Transfer (in 1999 PROMETE has become one of the first Italian officially recognized Research Spin off and the first one in Campania Region) www.promete.it
- 1997 Founder of the cultural association ALTANUR - Le Connessioni Inattese (The Unexpected Connections) www.leconnessioniinattese.com
- 1996–1997 Research contract with the National Institute for the Physics of Matter (INFM) Naples Research Unit, Physical Sciences Department, “Federico II” University of Naples, Italy in the frame of the European BRITE-EURAM III Project MADAVIC (*Magnetostrictive Actuators for Damage Analysis and Vibration Control*)
- 1996 Research contract with the National Institute for the Physics of Matter (INFM) Naples Research Unit, Physical Sciences Department, “Federico II” University of Naples, Italy: *“Development of magnetoelastic sensors to be employed in scientific apparatuses for magnetostriction and magnetic field measurements”*
- 1995-1996 Research contract for a joined project between R&D Division of Alfa Romeo Avio SpA and Magnetism Group of the Physical Sciences Department, “Federico II” University of Naples, Italy for the development of an *Air Mass Flow Prototype Sensor based on Magnetoelastic Waves*.
- June 1995 **M. Sc. in Physics (Condensed Matter Physics)**, Faculty of Physics, “Federico II” University of Naples, Italy

RESEARCH GRANTS AND AWARDS

2004 – “*Roberto Marrama*” Prize for Young Innovative Entrepreneurs in Southern Italy.

1997 – Young Scientist Grant from the 8th *International Symposium on Non-Linear Electromagnetic Systems (ISEM)*, Braunschweig (Germany).

1995 – Research Grant from the National Group of Structure of Matter for the National School in S. Agnello di Sorrento (Italy): *New developments and applications of magnetism*.

1993 – Research Grant from the National Group of the Structure of Matter for the National School in Rimini (Italy): *Nanostructured Materials - properties and applications*.

STUDENTS SUPERVISION

M. Sc. Thesis Advisor

2006 - M. Sc. thesis in Mechanical Engineering, “Federico II” University of Naples
Domenico Cirillo

“Experimental realization and calorimetric characterization of an electrolytic confined plasma”

2004 - M. Sc. Thesis in Management Engineering, “Federico II” University of Naples
Claudio Miccoli

“Feasibility study for an Electromagnetic Field measurement service”

Stage Coordinator

2006 – 2007:

Physics M. Sc. Mariella Cozzolino

Physics M. Sc. Fabiana Tulino

Physics M. Sc. Paola Maria Frallicciardi

Formation stage for Manager of Innovation coordinated by Campania Regional Center of Competency for New Technologies for Productive Activities

2004 – 2005:

Physics Ph. D. Emiliano Di Gennaro

Formation stage for Manager of Innovation coordinated by Campania Regional Center of Competency for New Technologies for Productive Activities

MEMBERSHIPS

- Former Board of Experts of Technology Transfer of the Italian Ministry of the Economic Development
- Former Board of Experts of Campania Region for Research and Technology Transfer
- Former Advisor of the Italian magazine “Trasferimento Tecnologico” (Technology Transfer)
- Former Member of the International Society for Condensed Matter Nuclear Science – ISCMNS
- Former Member of the Board of Directors and of the Technical-Scientific Committee of the Italian Consortium for Earth Observations (CosOT, Consorzio Osservazioni Terra)
- Former Board of Directors of the Cultural Association “Campania Start-Up”
- Former Technical-Scientific Committee of “Napoli Open Innovation” Association

- Scientific Committee of ICMAS^T- International Conference for Materials and Applications for Sensors and Transducers
- Board of Directors of the Cultural Association ALTANUR – Le Connessioni Inattese
- President of the Cultural Association ALTANUR – Le Connessioni Inattese
- Board of Directors of the Cultural Association ALTERLAB
- Technical-Scientific Committee of “Diogene” Publisher for its Technology Transfer series.
- Scientific Committee of the AQUAPHOTOMICS International Symposium.
- Board of Directors of the MEDHYDRO Srl_“Vanvitelli” University Spin off.
- Scientific Committee of the Foundation “Luc Montagnier”.

LANGUAGE SKILLS

- ITALIAN – NATIVE
- ENGLISH – FLUENT
1995 Diploma of Advanced English from “New School of English”, Cambridge, UK
- FRENCH – BASIC
- ROMANIAN – BASIC
- ANCIENT LATIN – BASIC

SPARE TIME INTERESTS

- Organization of popular science events. In particular, I am the initiator and the main organizer of “The Unexpected Connections” www.leconnessioniinattese.com that is an annual Interdisciplinary Conference held in Naples at the Italian Institute for Philosophical Studies <http://www.iisf.it>, one of the most prestigious Italian and European cultural centre. It is an annual appointment that starts with a one day conference and continues for some weeks with art exhibitions, theatrical performances, literary and artistic contests, etc. The aim of this popular event is to underline unpredicted connections among different fields of knowledge, to throw a bridge among experts in different fields, to reduce the gap between “humanistic” and “scientific” knowledge, to promote an overall view of the world.
- Reading books and papers on philosophy and history of science, and ethics in science.

EXPERTISE IN

- AMORPHOUS FERROMAGNETIC ALLOYS, MAGNETO-ELASTICITY, AND APPLICATIONS
- LECS – LOW ENERGY COHERENT SYSTEMS (QUANTUM ELECTRO DYNAMICS AND ITS MACROSCOPIC EFFECTS)
- TECHNOLOGY-TRANSFER, RESEARCH PROJECT FUNDING AND MANAGEMENT
 - ✓ innovation and technology-transfer (TT) consulting activities for companies and public research institutions;
 - ✓ scientific and technical assistance to private companies and public institutions for the preparation of industry-academia joint research project proposals in the frame of European Research and Development (R&D) programs, governmental and regional funding programs, etc;
 - ✓ management and result valorisation of TT and R&D projects financed by national and international programmes;
 - ✓ research cooperation agreements between private companies and public research institutions;

- ✓ development of feasibility studies, market analysis and business plans for innovative start-ups;
- ✓ disseminate knowledge, technology-transfer information and promote innovation through public presentations, articles in various national and international publications, organization of public events and brainstorming meetings.

PEER-REVIEWED INTERNATIONAL RESEARCH PAPERS (H-INDEX = 15)

1. P. Madl, R. Germano, A. Tedeschi, H. Lettner, Effects of ultra-weak fractal electromagnetic signals on *Malassezia furfur*, *Int. J. Mol. Sci.*, 24, 4099 (2023) <https://doi.org/10.3390/ijms24044099>
2. V. Elia, E. Napoli, R. Oliva and R. Germano, Physical-chemical differences between homeopathic dilutions and bi-distilled water: validation of aggregates formation of water molecules, submitted to *WATER*
3. R. Germano, H. Eng, A. Cajora, R. Oliva, Coherent domains (phases) in an aerosol exposed to IR-A, IR-B and IR-C bands, and resulting EZ water (nanometer supramolecular aggregates) in volumes of water, submitted to *WATER*
4. V. Elia, E. Napoli, R. Germano, D. Naviglio, M. Ciaravolo, G. Dal Poggetto, D. Caputo, R. Oliva, T. A. Yinnon, New physicochemical properties of liquid water resulting from recurrent contact with hydrophilic polymers. Characteristics of the resulting supramolecular aggregates: the Xerosydrile, *WATER*, 12, 72-85 (2022) DOI: 10.14294/WATER.2021.2
5. G. Landi, V. Granata, R. Germano, S. Pagano and C. Barone, Low-Power and Eco-Friendly Temperature Sensor Based on Gelatin Nanocomposite, *Nanomaterials*, 12, (13), 2227 (2022) <https://doi.org/10.3390/nano12132227>
6. V. Elia, E. Napoli, R. Germano, D. Naviglio, M. Ciaravolo, G. Dal Poggetto, D. Caputo, R. Oliva, T. A. Yinnon, A study on the changes in physical properties of distilled water put in contact with porous hydrophilic materials: experimental evidences on Neapolitan Yellow Tuff, *WATER*, 12, 119-129 (2022) DOI:10.14294/WATER.2022.1
7. C. Dal Lin, R. Grasso, A. Scordino, A. Triglia, F. Tona, S. Iliceto, G. Vitiello, V. Elia, E. Napoli, R. Germano, F. Musumeci, Electric conductivity and delayed luminescence changes in human sera of subjects undergoing the Relaxation Response: a pilot study, *Organisms. Journal of Biological Sciences*, 4, (2), 17-29 (2021) DOI: 10.13133/2532-5876/16997
8. R. Campanile, E. Scardapane, A. Forente, C. Granata, R. Germano, R. Di Girolamo, A. Minopoli, R. Velotta, B. Della Ventura, V. Iannotti, Core-shell Magnetic Nanoparticles for highly sensitive Magnetoelastic Immunosensor, *Nanomaterials*, 10, 1526 (2020)
9. V. Elia, E. Napoli, R. Germano, V. Roviello, R. Oliva, M. Niccoli, A. Amoresano, M. Toscanesi, M. Trifuoggi, A. Fabozzi, T. A. Yinnon, Water perturbed by Cellophane: Comparison of its physicochemical properties with those of water perturbed with cotton wool or Nafion, *Journal of Thermal Analysis and Calorimetry*, <https://doi.org/10.1007/s10973-020-10185-0> (2020)
10. V. Elia, E. Napoli, R. Germano, R. Oliva, V. Roviello, M. Niccoli, A. Amoresano, D. Naviglio, M. Ciaravolo, M. Trifuoggi, T. A. Yinnon, New chemical-physical properties of water after iterative procedure using hydrophilic polymers: the case of paper filter, *Journal of Molecular Liquids*, 296, 111808 (2019)
11. P. Signanini, G. Vessia, V. Elia, E. Napoli, R. Germano, A study on the changes in physical properties of demineralized water put in contact with porous hydrophilic materials: experimental evidences on metabrick material, *Journal of Porous Media*, 22 (12), 1609-1625 (2019)

12. C. Verzeznassi, R. Germano, Magnetic effects on the polarization parameters of free electrons in quantum field theory, *WATER*, 11, 14-21 (2019)
13. V. Elia, R. Oliva, E. Napoli, R. Germano, G. Pinto, L. Lista, M. Niccoli, D. Toso, G. Vitiello, M. Trifuoggi, A. Giarra, T. A. Yinnon, Experimental study of physicochemical changes in water by iterative contact with hydrophilic polymers: A comparison between Cellulose and Nafion, *Journal of Molecular Liquids*, 268, 598-609 (2018)
14. C. Verzeznassi, R. Germano, P. Kurian, Quantum field theory treatment of magnetic effects on a system of free electrons, *Journal of Magnetism and Magnetic Materials*, 449, 482-484 (2018)
15. V. Elia, T.A. Yinnon, R. Oliva, E. Napoli, R. Germano, F. Bobba, A. Amoresano, DNA and the chiral water superstructure, *Journal of Molecular Liquids*, 248, 1028-1029 (2017)
16. P.M. Biava, F. Burigana, R. Germano, P. Kurian, C. Verzeznassi, G. Vitiello, Stem Cell Differentiation Stage Factors and Their Role in Triggering Symmetry Breaking Processes during Cancer Development: A Quantum Field Theory Model for Reprogramming Cancer Cells to Healthy Phenotypes, *Current Medicinal Chemistry*, 24, 42 (2017)
17. V. Elia, T.A. Yinnon, R. Oliva, E. Napoli, R. Germano, F. Bobba, A. Amoresano, Chiral micron-sized H₂O aggregates in water: Circular dichroism of supramolecular H₂O architectures created by perturbing pure water, *WATER*, 8, 1-29 (2017)
18. T.A. Yinnon, V. Elia, E. Napoli, R. Germano, Z-Q Liu, Water ordering induced by interfaces: an experimental and theoretical study, *WATER*, 7, 96-128 (2016)
19. R. Germano, Water's quantum structures and life, *Electromagnetic Biology and Medicine*, 34, 2, 133-137 (2015)
20. V. Elia, R. Germano, E. Napoli, Permanent Dissipative Structures in Water: The Matrix of Life? Experimental Evidences and their Quantum Origin, *Current Topics in Medicinal Chemistry*, 15, 6, 559-571 (2015)
21. A. Capolupo, E. Del Giudice, V. Elia, R. Germano, E. Napoli, M. Niccoli, A. Tedeschi, G. Vitiello, Self-similarity properties of nafionized and filtered water and deformed coherent states, *Int. J. Mod. Phys. B*, 28, 3 (2014)
22. V. Elia, G. Ausanio, A. De Ninno, F. Gentile, R. Germano, E. Napoli, M. Niccoli, Experimental Evidences of Stable Water Nanostructures At Standard Pressure And Temperature Obtained by Iterative Filtration, *WATER*, 5, 121-130 (2014)
23. V. Elia, G. Ausanio, F. Gentile, R. Germano, E. Napoli and M. Niccoli, Experimental evidence of Stable Water Nanostructures in Extremely Diluted Solutions, at Standard Pressure and Temperature, *Homeopathy*, 103, 1, 44-50 (2014)
24. V. Elia, G. Ausanio, A. De Ninno, F. Gentile, R. Germano, E. Napoli, M. Niccoli, Experimental evidence of stable aggregates of water at room temperature and normal pressure after iterative contact with Nafion polymer membrane, *WATER*, 5, 16-26 (2013)
25. E. Del Giudice, C. Hison, R. Germano, A. De Ninno, Hydrogen-Induced Amorphization of Intermetallics and QED Coherence, *Key Engineering Materials*, 543, 338-341 (2013).
26. R. Germano, E. Del Giudice, A. De Ninno, V. Elia, C. Hison, E. Napoli, V. Tontodonato, F. P. Tuccinardi, G. Vitiello, Oxhydroelectric Effect in bi-distilled water, *Key Engineering Materials*, 543, 455-459 (2013).
27. D. Cirillo, R. Germano, V. Tontodonato, A. Widom, Y.N. Srivastava, E. Del Giudice, G. Vitiello, Experimental Evidence of a Neutron Flux Generation in a Plasma Discharge Electrolytic Cell, *Key Engineering Materials*, 495, 104-107 (2012)
28. D. Cirillo, E. Del Giudice, R. Germano, S. Sivasubramanian, Y.N. Srivastava, V. Tontodonato, G. Vitiello, A. Widom, Water Plasma Modes and Nuclear Transmutations on the Metallic Cathode of a Plasma Discharge Electrolytic Cell, *Key Engineering Materials*, 495, 124-128 (2012)
29. R. Germano, V. Tontodonato, C. Hison, D. Cirillo, F.P. Tuccinardi, Oxhydroelectric Effect: Electricity from Water by Twin Electrodes, *Key Engineering Materials*, 495, 100-103 (2012)

30. C. Modonesi, L. Farina, I. Licata, R. Germano, J.P. Zbilut, and A. Giuliani, A contemporary pathology of science, *Ann. Ist. Super. Sanità* 44, 3, (2008) 211-213.
31. V. Elia, E. Napoli, and R. Germano, The 'Memory of water': an almost deciphered enigma. Dissipative structures in the extremely diluted aqueous solutions, *Homeopathy*, 96, 3, (2007) 163-169.
32. G. Ausanio, V. Iannotti, C. Hison, L. Lanotte, A. D'Agostino, and R. Germano, Novel elastic magnets as actuators core, *Applied Electromagnetics and Mechanics* 19 (2004) 395-398.
33. G. Ausanio, V. Iannotti, L. Lanotte, C. Luponio, R. Germano, A. D'Agostino, M. Inverno, and R. Sorrentino, Potential application of innovative magnetoelastic resonators for vibration detection, *Sensors and Actuators A: Physical* 91, 1-2 (2001) 123-125.
34. R. Germano, A. D'Agostino, V. Iannotti, and L. Lanotte, The use of a magnetoelastic sensor as an alternative to the resistive strain gauge, in *Proceedings of ISEM '99 Non-linear Electromagnetic Systems*, P. Di Barba, A. Savini (Eds.), IOS Press, Amsterdam 2000.
35. R. Germano, G. Ausanio, V. Iannotti, L. Lanotte, and C. Luponio, Direct magnetostriction and magnetoelastic wave amplitude to measure a linear displacement, *Sensors and Actuators A: Physical* 81, 1-3, (2000) 134-136.
36. R. Germano, L. Lanotte, and V. Iannotti, Magnetoelastic wave amplitude and Young modulus in amorphous and nanocrystalline $\text{Fe}_{73.5}\text{Cu}_1\text{Nb}_3\text{Si}_{15.5}\text{B}_7$, *J. Phys. IV France* 8 (1998) Pr2-171-Pr2-174.
37. A. D'Agostino, R. Germano, V. Iannotti, and L. Lanotte, Influence of local magnetization on Young modulus and correlation with magnetoelastic waves amplitude in ferromagnetic amorphous ribbons, in *Non-linear electromagnetic systems*, V. Kose, J. Sievert (Eds.), IOS Press, Amsterdam, 1998.
38. G. Ausanio, R. Germano, V. Iannotti, and L. Lanotte, Magnetic, magnetoelastic and structural properties of $\text{Co}_{82}\text{P}_{18}$, $\text{Fe}_{80}\text{B}_{13}\text{Si}_4\text{C}_3$ and $\text{Fe}_{73.5}\text{Cu}_1\text{Nb}_3\text{Si}_{15.5}\text{B}_7$ amorphous ribbons after consecutive heat cycles in vacuum, *Il Nuovo Cimento* 20 D, 1, (1998) 63-71.
39. L. Lanotte, R. Germano, V. Iannotti, A. Di Nocera, and S. Loreti, DSC evidence of compositional modulation and giant magnetoelastic wave amplitude in electrodeposited Co-P ribbons, *Materials Science and Technology* 14 (1998) 726-731.
40. L. Lanotte, and R. Germano, Application of magnetoelastic waves for sensors of displacement, *Sensors and Actuators A: Physical* 59 (1997) 337-341.
41. L. Lanotte, R. Germano, V. Iannotti, and C. Luponio, Application of Co-P nanostructured multilayers to detect local inhomogeneity of magnetic field, *Material Science Forum* 235-238 (1997) 837-842.
42. L. Lanotte, Z. Kaczkowski, M. Muller, and R. Germano, Dynamic stress sensitivity of $\text{Fe}_{73.5}\text{Cu}_1(\text{Ta or W})_3\text{Si}_{15.5}\text{B}_7$ ribbons after heat treatments in vacuum", *Il Nuovo Cimento* 18 D, 12, (1996) 1455-1461.
43. R. Germano, and A. Di Nocera, DSC evidence of non magnetic intercalary films and giant magnetoelastic wave amplitude in Co-P electrodeposited multilayers, in *Magnetic Properties of Matter: Proceedings of the National School of "New Developments and Magnetism's Applications"*, L. Lanotte, F. Lucari, L. Pareti (Eds.), World Scientific, Singapore 1996.

NATIONAL PUBLICATIONS

BOOKS

1. R. Germano, "Spudorato invadente che della vita non sa", Kammer ed., 2020.
2. S. De Falco, and R. Germano, "Manuale tascabile del trasferimento tecnologico", Il Denaro, 2010.
3. S. De Falco, and R. Germano, "IL TRASFERIMENTO TECNOLOGICO. Scenari e strumenti per il reciproco scambio di competenze tra università, enti di ricerca e imprese", Franco Angeli, 2010.
4. R. Germano, "AQUA. L'acqua elettromagnetica e le sue mirabolanti avventure", Bibliopolis, Naples, 2007. Foreword by Emilio Del Giudice.

5. R. Germano, "FUSIONE FREDDA. Moderna storia d'Inquisizione e d'Alchimia", Bibliopolis, Naples 2000, 2003. Foreword by Giuliano Preparata. Afterword by Emilio Del Giudice.
6. R. Germano, "Scepsi Viscerale con complicità poetiche", Gruppo Culturale "Ippolito Rosellini", Pisa, 1993.

CHAPTER OF BOOKS

1. R. Germano, chapter of the book: "Scienze, Poteri e Democrazia", Ed. Riuniti (2006), 375-416.
2. R. Germano, chapter of the book: "Scienza e Democrazia", Liguori Ed. (2003), 259-275.

NATIONAL PAPERS

1. R. Germano, A. Tedeschi, G. Vitiello, Emilio Del Giudice (1940-2014) – uno scienziato al di là del suo tempo, *La Medicina Biologica* 3, Jul-Sep 2014, 33-37.
2. R. Germano, Emilio Del Giudice: un infinito Vuoto per la futura scienza, *Scienza & Conoscenza* 48, XIII (2014).
3. V. Elia, R. Germano, Un vitalissimo vuoto, *Il Medico Omeopata* 55, 16-18 (2014)
4. R. Germano, and S. De Falco, Non linearità del fenomeno "Trasferimento Tecnologico" e problematiche connesse, *Ingegneri Napoli*, II (2013)
5. R. Germano, L'organismo a cristalli liquidi dotato di coerenza quantistica, *Scienza & Conoscenza* 40, XI (2012).
6. R. Germano, L'acqua e gli organismi viventi, *Scienza & Conoscenza* 39, XI (2012).
7. R. Germano, Acqua informata supercoerente con il metodo WHITE, *Scienza & Conoscenza* 37, X (2011).
8. R. Germano, La luce del sangue. Gli studi biofisici di Vladimir Voeikov, *Scienza & Conoscenza* 35, X (2011).
9. R. Germano, LECS - Low Energy Coherent Systems: una rivoluzione tecnico-scientifica, *Trasferimento Tecnologico* 6, II (2011).
10. R. Germano, L'ecoenergia a basso costo, *TERRA* 179, VI (2011).
11. D. Cirillo, R. Germano, and V. Tontodonato, Il fuoco di Prometeo disgrega gli inquinanti, *Trasferimento Tecnologico* 5, II (2011).
12. R. Germano, and S. De Falco, Innovazione non è soltanto nuove tecnologie, *Trasferimento Tecnologico* 5, II (2011).
13. S. N. Kharlamov, S. Serafini, R. Germano, S. Silvestrov, V. Yu. Kim, "Mechanisms of laminarising high enthalpy swirled internal streams in industrial facilities", pages: 186-197 - in Russian, in Tomsk Publishing House, in Tomsk State University in the book "The experience of international cooperation in studying the dynamics of natural and man-made complex of Western Siberia, in the context of global climate change: landscape ecological and biomedical aspects: a collection of articles / Ed. SN Kirpotin. - Tomsk: Publishing house of Tbilisi State University, 2010. -244c.
14. R. Germano, L'“acqua attivata” di Giorgio Piccardi, *Scienza & Conoscenza* 34, IX (2010).
15. R. Germano, Giuliano Preparata (1942-2000): uno scienziato del XXI secolo, *La Medicina Biologica* 4, Oct-Dec 2010, 3-11.
16. R. Germano, A Napoli il Gotha della biochimica, *Il Denaro-Futura*, Nov. 11 (2010).
17. R. Germano, La Ricerca diventa globale, *Il Denaro-Futura*, May 20 (2010).
18. R. Germano, and S. De Falco, Nanotecnologie, grandi risultati, *Il Denaro-Futura*, May 13 (2010).
19. R. Germano, and S. De Falco, Sismi, limitare i danni si può, *Il Denaro-Futura*, Jan. 7 (2010).
20. R. Germano, S. De Falco, Approccio ingegneristico al “trasferimento tecnologico”: un fenomeno non lineare, *Ingegneri Napoli* 3, Aug-Oct (2010).
21. R. Germano, and S. De Falco, Incomunicabilità tra ambiti disciplinari e Trasferimento Tecnologico dal passato?, *Trasferimento Tecnologico* 4, II (2010).
22. R. Germano, and S. De Falco, Mancato dialogo tra ricerca e impresa, *Trasferimento Tecnologico* 3, I (2010).
23. R. Germano, and S. De Falco, Sicurezza, tutelare i consumatori, *Il Denaro-Futura*, Apr. 9 (2009).

24. R. Germano, and S. De Falco, Eletticità e difesa dei consumatori, *Il Denaro-Futura*, Jan. 8 (2009).
25. R. Germano, and S. De Falco, L'importanza di comunicare l'innovazione, *Trasferimento Tecnologico* 2, I (2009).
26. R. Germano, and S. De Falco, Un ponte virtuoso tra imprese e ricerca, *Il Denaro-Futura*, Dec. 11 (2008).
27. R. Germano, and S. De Falco, Gestire l'ICT, problema ontologico, *Il Denaro-Futura*, Nov. 13 (2008).
28. R. Germano, and S. De Falco, Industrie, come evitare gli errori, *Il Denaro-Futura*, Oct. 18 (2008).
29. R. Germano, and S. De Falco, Il grande mercato dell'energia, *Il Denaro*, Oct. 4 (2008).
30. R. Germano, and S. De Falco, Sviluppo, la svolta delle tecnologie, *Il Denaro*, Sep. 27 (2008).
31. S. De Falco, N. Pasquino, and R. Germano, Normative e strumenti per la misura del campo elettromagnetico, *Impiantistica Italiana*, Jan-Feb 2007.
32. R. Germano, and S. De Falco, Così l'azienda si riorganizza, *Il Denaro*, Aug. 9 (2008).
33. R. Germano, and S. De Falco, Dalla lezione della Silicon Valley ai Parchi scientifici, *Il Denaro*, Jul. 12 (2008).
34. R. Germano, and S. De Falco, Ormai la strada maestra è quella dello "spin off", *Il Denaro*, May 31 (2008).
35. R. Germano, and S. De Falco, Valido supporto per le PMI e gli Atenei, *Il Denaro*, Apr. 26 (2008).
36. G. Asti, J. B. Bastos-Filho, M. Cini, A. De Ninno, E. Del Giudice, A. Drago, V. Elia, L. Farina, E. Gagliasso, R. Germano, A. Giuliani, A. Krishnan, J.M. Levy Leblond, I. Licata, C. Modonesi, P.A. Rossi, K. Selvarajoo, V. Silvestrini, G. Tamino, M. Tomita, M. Tsuchiya, C. Verma, G. Vitiello, C.L. Webber, and J.P. Zbilut, La Science a-t-elle un avenir?, *Alliage* 61 (2007) 41-46.
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38. S. De Falco, R. Germano, C. De Capua, and R. Morello, Una metodologia innovativa basata sulla diagnostica attraverso immagini per la manutenzione del patrimonio immobiliare, *Proceedings of the XXVI National Conference on Electrical and Electronic Measurements*, 16-19 September 2009, Salerno, Italy.
39. S. De Falco, R. Germano, and N. Pasquino, Caratterizzazione elettromagnetica di un prototipo schermante, *Elettificazione*, Dec. 2007.

PARTICIPATIONS TO INTERNATIONAL CONFERENCES

- 21-23 November 2022, Moscow (Russia) 5th Conference: "Physics of Aqueous Solutions" (invited)
- 13-16 October 2022, Bad Soden (Germany): 15th Annual Conference on the Physics, Chemistry & Biology of Water (invited)
- 24-27 October 2019, Bad Soden (Germany): 14th Annual Conference on the Physics, Chemistry & Biology of Water (invited)
- 18-21 October 2018, Sofia (Bulgaria): 13th Annual Conference on the Physics, Chemistry & Biology of Water.
- 6-9 October 2016 – Sofia (Bulgaria): 11th Annual Conference on the Physics, Chemistry & Biology of Water (speaker).
- 1-4 October 2015 – Varna (Bulgaria): 10th Annual Conference on the Physics, Chemistry & Biology of Water.
- 9-12 October 2014 – Pamporovo (Bulgaria): 9th Annual Conference on the Physics, Chemistry & Biology of Water (invited).
- 24-28 May 2012 – Budapest (Hungary): ICMAS 2012 - International Conference for Materials and Applications for Sensors and Transducers (Scientific Committee Member, Chairman and Organizer of the Session: LECS_Low Energy Coherent Systems) (speaker)
- 20-23 October 2011 - Mount Snow, Vermont (USA): 6th Annual Conference on the Physics, Chemistry & Biology of Water.
- 13-17 May 2011 - Kos (Greece): ICMAS 2011 - International Conference for Materials and Applications for Sensors and Transducers (Scientific Committee Member, Chairman and Organizer of the Session: LECS_Low Energy Coherent Systems, and Invited).

14-15 May 2010 - Milano (Italy): XXV Conference A.I.O.T. of Biological Medicine: “New Horizons in Medicine” (invited), at the Milan University.

15-17 May 2008 - Naples (Italy): Science and Democracy 4 (invited) at the Italian Institute for Philosophical Studies.

20-22 October 2006 - Naples (Italy): Science and Democracy 3 (invited) at the Italian Institute for Philosophical Studies.

22-25 February 2006 – Benevento (Italy): 5th ICEMS International workshop, Precautionary EMF Approach: rationale, legislation and implementation.

29 September 2004 - Roma (Italy): Forum Invest Economic Summit in Rome - The Italian-Romanian Partnership Contributing to Europe.

11-12 March 2004 - Brussels (Belgium): 3rd European Business Summit: «Research and innovation: A European strategy for more growth and jobs».

27 July – 1 August 2003 - Roma (Italy): 16th International Conference on Magnetism (ICM).

12-14 June 2003 - Naples (Italy): Science and Democracy 2 (invited) at the Italian Institute for Philosophical Studies.

20-21 April 2001 - Naples (Italy): Science and Democracy (invited) at the Italian Institute for Philosophical Studies.

19-21 July 2000 - Dresden (Germany): 3rd European Conference on Magnetic Sensors and Actuators (EMSA).

10-12 May 1999 - Pavia (Italy): 9th International Symposium on Non-Linear Electromagnetic Systems (ISEM).

13-15 July 1998 - Sheffield (UK): 2nd European Magnetic Sensors and Actuators Conference (EMSA).

19-21 January 1998 - Saarbruecken (Germany): 4th PCC Meeting of MADAVIC Project (at D*ASS mbH Laboratory for Process Automation and Saarlandes University).

12-14 May 1997 - Braunschweig (Germany): 8th International Symposium on Non-Linear Electromagnetic Systems (ISEM).

12-13 December 1996 - Grenoble (France): 2nd PCC Meeting of MADAVIC Project (at LEG: Lab. Eléctrotec. Grenoble).

22-24 July 1996 - Iasi (Romania): 1st European Magnetic Sensors and Actuators Conference (EMSA).

20-24 May 1996 - Roma (Italy): International Symposium on Metastable Mechanically Alloyed and Nanocrystalline Materials (ISMANAM).

PATENTS

1. R. Germano, F. M. Sacerdoti, Identification system for textiles items based on magnetostrictive tags (Italian Patent pending: NA 2009 A 000046).
2. R. Germano, F. M. Sacerdoti, Identification system based on multiple magnetostrictive tags (Italian Patent pending: NA 2009 A 000045).
3. L. Lanotte, G. Ausanio, R. Germano, A. D’Agostino, V. Iannotti, C. Luponio, Elastomagnetic composite material, fabrication process and devices based on this material (Italian Patent nr. ITRM20020158).
4. L. Lanotte, R. Germano, A. D’Agostino, V. Iannotti, G. Ausanio, A sensor and a method for measuring static and dynamic micro-deformations (International patent nr. WO/2003/016891).
5. R. Germano, V. Elia, Method and device for the extraction of electric energy from water (Italian Patent nr. 1411927)
6. R. Germano, V. Elia, E. Napoli, F. P. Tuccinardi, Process and apparatus for the capture and storage of the carbon of CO₂ in the structure of the Xerosydryle (Italian Patent pending: 102022000020472)

PROMETE SRL

In 1997 I founded PROMETE Srl (www.promete.it) - acronym of PROMotion of the Evolution of the TEchnology, obviously referring to the first “know-how transferrer” of Mankind: the mythical Titan Prometheus, “the foreseer”.

In 1999 PROMETE was officially recognized as **Spin off Company of the Italian National Institute for the Physics of Matter - INFN** that is now incorporated in the Italian National Research Council - CNR.

PROMETE is one of the first Italian Research Spin off and the first one in Campania Region.

PROMETE Srl is Regional Research Centre for Experimental Research and Development in the Field of Physics, and it is a Quality Assured Firm - ISO 9001 for Research and Development in the field of Experimental Physics.

PROMETE office and laboratories were located for 5 years at the Physics Department of “Federico II” University of Naples, and then, for 8 years they were placed at the BIC-Business Innovation Center of “Città della Scienza” in Naples www.cittadellascienza.it, maintaining also the former location at the Physics Department.

A formal Agreement between the Italian National Institute for the Physics of Matter (I.N.F.M.) – now CNR – and PROMETE provides the use of the Institute laboratories to PROMETE for specific activities of R&D for industrial research and prototype development. PROMETE has also a formal agreement of preferential partnership with the Romanian National Institute of Research and Development for Technical Physics (Iasi, Romania) since November 2003 and a Partnership Agreement for Technology Transfer activities with Iasi County Council since May 2004.

PROMETE Srl main activities are:

Innovation and Technology Transfer, Research and Development Project Financing and Management, Commercialization and Dissemination of Innovation, Technical and Market Research Expertise on Recent Available Innovations and Technologies Dedicated to Meeting the Complex, Specific Needs of Innovation and Development of the Industry Clients, Development of Industry-Academia Partnerships at National and International Level Creating Links Between Research and Industry, Image/Data Analysis Systems.

PROMETE has significant expertise and know-how in: Materials (e.g. Soft Magnetic and Magnetoelastic Materials, Magnetic Amorphous Materials, Magnetic Metallic Alloys, Composite Materials), Sensors (e.g. Deformation and Magnetic Field Sensors), Specific Measurements and Analysis (e.g. LabView (NI) and TREK (telescience resource kit), Image/Data Analysis, Statistic Data Analysis, Experiments Control and Automation, Atomic and Magnetic Force Microscopy, Vibrating Sample Magnetometry, SQUID (Superconducting Quantum Interference Device) Magnetometry, Crack Propagation Analysis System for Fatigue Tests in Metallic Alloys, Differential Scanning Calorimetry).

SOME PROMETE CLIENTS:

INDUSTRIE POLITECNICHE MERIDIONALI (IPM) SpA; NEATEC SPA; NOVAETECH SRL; STRAGO RICERCHE SRL; STRAGO SPA; CAT SRL; EDILGEN SRL; DITRON SRL; DIP. DI SCIENZE FISICHE – UNIVERSITÀ “FEDERICO II” DI NAPOLI; SAES GETTERS SPA; E-VOLUZIONE SRL; FONDAZIONE CAMPANIA DEI FESTIVAL; CHRYSALLIS SRL; EUROPEA MICROFUSIONI AEROSPAZIALI SPA (EMA)-ROLLS ROYCE GROUP; JIOLAHY SRL; ISTITUTO NAZIONALE PER LA FISICA DELLA MATERIA – INFN; CONSIGLIO NAZIONALE DELLE RICERCHE – CNR; ISTITUTO MATERIALI COMPOSITI E BIOMEDICI (CNR); ISTITUTO RICERCHE SULLA COMBUSTIONE (CNR); OFFICINA ELETTRONICA SPA SRL; SOPRINTENDENZA PER I BENI ARCHITETTONICI E PER IL PAESAGGIO E PER IL PATRIMONIO STORICO ARTISTICO ED ETNOANTROPOLOGICO DI NAPOLI E PROVINCIA; INGEGNERIA & AMBIENTE SRL; CONSORZIO NAZIONALE INTERUNIVERSITARIO SCIENZE FISICHE DELLA MATERIA (CNISM); PAPA FOND SRL; CEMON SRL; CENTRO MANZONI SRL; CLEANSUD INDUSTRIALE SRL; IMA PRECOMPRESSI SRL; AMBIENTE 2000 SRL; TECHNO SYSTEM DEVELOPMENTS SRL; D&D AUTOMAZIONI SRL; EDILDEPUR SRL; INCHEM SRL; ADVANCED TECHNOLOGIES BIOMAGNETICS SRL; SIMITECNO SRL; BATTILORO

FORNITURE ELETTRICHE GENERALI SRL; SOCIETÀ CONSORTILE "PARCO SCIENTIFICO E TECNOLOGICO DI SALERNO E DELLE AREE INTERNE DELLA CAMPANIA" P.A; DIP. MEDICINA SPERIMENTALE - SECONDA UNIVERSITÀ DI NAPOLI; C.R.C. SRL; DIP. SCIENZE DELLA TERRA - UNIVERSITÀ "FEDERICO II" NAPOLI; ISTITUTO DI CIBERNETICA "E. CAIANIELLO" (CNR); ENTE NAZIONALE ENERGIA E AMBIENTE (ENEA); DIP. DI INGEGNERIA CHIMICA - UNIVERSITÀ "FEDERICO II" NAPOLI; ASSOCIAZIONE ITALIANA DI ACUSTICA – AIA; DIP. DI ENERGETICA E TERMOFLUIDODINAMICA - UNIVERSITÀ "FEDERICO II" NAPOLI; CANTINE GROTTA DEL SOLE SRL; ARCHIMEDIA SRL; ILAG SRL; FARMACEUTICI DAMOR SPA; FONDAZIONE SALVATORE MAUGERI; INDUSTRIA GAS TECNICI (IGAT) SPA; PIM PISCINE SRL; DERMOFARMA ITALIA SRL; TERME DI AGNANO SPA; IAPITER SRL; PROGETTI TERRITORIALI INTEGRATI (PTI) SPA; EUROFITTINGS SRL; CONSORZIO METEA; ARCHITETTURA E TERRITORIO SAS; EDITEM SRL; BLUEBERRY SRL; AIDA SAS (EX FONDERIA CHIURAZZI); DIP. ING. DEI MATERIALI E DELLA PRODUZIONE - UNIVERSITÀ "FEDERICO II" NAPOLI; COREDIL SRL; CLEANSUD INDUSTRIALE SRL; CENTRO DI RICERCA INTERDIPARTIMENTALE SUI BIOMATERIALI - UNIVERSITÀ "FEDERICO II" NAPOLI; ADVANCED SPACE EQUIPMENT SRL; METROCONTROL SRL; TECNOIMPIANTI SRL; FAMAC SRL; ELISYS SRL; F.LLI ALFANO SRL; MICROLAB ENGINEERING SRL; FAPA SRL; PEGASUS INFORMATICA SRL; CONSORZIO TECHNOBIOSEI – TBS; MONDO SOMMERSO SRL; IAPITER SRL; TD PRODUCTION SRL; ISTITUTO PONTANO; FACOLTÀ DI INGEGNERIA – UNIVERSITÀ DI REGGIO CALABRIA; MARE ENGINEERING SRL; CONSORZIO DECUMANUS; CIMMINO CALCE SRL; SOCIETÀ AERONAUTICA ITALIANA (SAI) SRL; LA BUONA STAMPA SPA; COOPERATIVA LEOPARDI; LIVENET SRL; MUSIC OFF SRL; EDILTEST SRL; ARISTON SRL; DIP. DI CHIMICA - UNIVERSITÀ "FEDERICO II" NAPOLI; PANAREC SAS; AT&ACME SRL; MEGARIS SRL; DIP DI ING. DELL'INFORMAZIONE - SECONDA UNIVERSITÀ DI NAPOLI; COPROMA SUD CND SRL; POLYEUR SRL; CONSORZIO DI RICERCA SU SISTEMI DI TELESensori AVANZATI (CORISTA); CONSORZIO DI RICERCA PER L'ENERGIA E LE APPLICAZIONI TECNOLOGICHE DELL'ELETTROMAGNETISMO (CREATE); IGEA SNC; MICROLAB BIOMEDICAL SRL; ANSALDO ENERGIA SPA; IRIS INNOVAZIONE SRL; CE.DI DEI MILLE SAS; FORM & ATP SRL; SPF IMPIANTI SPECIALI SRL; LA DOLCE IRPINIA SRL; CIS SPA; TWITEK SRL; CA.MO. SRL; TECHNOBIOCHIP SCARL; RETAM SUD SPA; METRONAPOLI SPA; ALPI TELEMATICA; CONSORZIO TECHNAPOLI; TELESPIAZIO SPA, NEXT GEOSOLUTIONS SpA, etc.

PROMETE HOLDS THE FOLLOWING SHARES:

- 42.00% - MEDHYDRO Srl (Spin off Second University of Napoli)
- 2.99% - HUB SpA (Innovative Start-up)
- 5.00% - ARTEMA Srl (Spin off Second University of Napoli)
- PROMETE joins “RITAM” Enterprises’ Network (Rete di Imprese)_ Rete di Imprese e Partner Scientifici per la Ricerca e Applicazione di Tecnologie Avanzate per Materiali per Motori_ (EUROPEA MICROFUSIONI AEROSPAZIALI S.p.A., Rolls Royce Group, C.M.D. COSTRUZIONI MOTORI DIESEL S.p.A., CRDC NUOVE TECNOLOGIE PER LE ATTIVITÀ PRODUTTIVE Scarl, MOSAICO MONITORAGGIO INTEGRATO S.r.l, PROMETE S.r.l, TECNOLOGICA S.r.l., C.I.R.A. (CENTRO ITALIANO RICERCHE AEROSPAZIALI) - S.c.p.a., UNIV. DEGLI STUDI FEDERICO II DI NAPOLI, UNIV. DEGLI STUDI DEL SANNIO, UNIV. DEGLI STUDI DI SALERNO)
- PROMETE is a founding member of the Cooperative Credit Bank of Napoli - (BCC Napoli)

SOME PROMETE RESEARCH ACTIVITIES FOR CLIENTS

“Testing of a prototype of magnetoelastic sensor for the analysis of static deformations in concrete structures”

Client: National Institute for the Physics of Matter

“Technical activities for LIDAR (Light Detection And Ranging) measurements”

Client: National Institute for the Physics of Matter

“Production of a magnetoelastic resonator”

Client: National Institute for the Physics of Matter

“Preliminary study for the characterization of carbon nano-structures derived from combustion processes”

Client: Department of Chemical Engineering, University of Naples “Federico II”

“Realization, testing and optimization of contactless magnetoelastic wave sensors of vibrations”

Client: National Institute for the Physics of Matter

“AFM (Atomic Force Microscopy) study of morphological characteristics of nanometric organic structures derived from combustion processes”

Client: Department of Chemical Engineering, University of Naples “Federico II”

“Non Destructive Analysis by SQUID (Superconducting Quantum Interference Device) sensors on stainless steel profiles welded by electron-beam”

Client: Consortium CREATE (Consortium for Research in the field of Energy and Technological Applications of Magnetism)

“Realization and test of a portable LIDAR (LIght Detection And Ranging) system to detect atmosphere particulate”

Client: Consortium CO.RI.STA (Consortium for Research on Systems of Advanced Telesensors)

“Design of an interferometric optical system to measure magnetostrictive films deformations”

Client: National Institute for the Physics of Matter

“Analysis of the morphological characteristics of surface defects in composite materials by Atomic Force Microscopy (AFM)”

Client: National Institute for the Physics of Matter

“Implementation of a Vibrating Sample Magnetometer (VSM) - (OXFORD Instruments) and of a Atomic Force Microscope (AFM) - (Lot Oriel)”

Client: National Institute for the Physics of Matter

“Feasibility study of a demonstrative prototype of an automation system in the field of visual inspection for NDA by penetrating liquids”

Client: Europea Microfusioni Aerospaziali SpA (ROLLS ROYCE)

“Automation of a system measuring magnetomechanical anomalies of metallic surfaces by SQUID sensors”

Client: National Institute for the Physics of Matter

“Firmware for wireless distributed instrumentation”

Client: STRAGO Srl

“Synchronization software for devices to exchange quantum cryptography keys”

Client: ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development

“New system for quantitative video analysis of crack propagation”

Client: SIMITECNO Srl for ALENIA Aeronautica SpA

“Development of two different classes of getter systems: 1) Nanocomposites materials in polymeric matrix; 2) Functionalized Room Temperature Ionic Liquids (RTIL)”

Client: SAES GETTER SpA

“Experimental set-up and test for amorphous ferromagnetic tags”

Client: E-VOLUZIONE Srl

“System for atmospheric particulate sampling, by Quartz Crystal Microbalance”

Client: Europea Microfusioni Aerospaziali SpA (ROLLS ROYCE)

“Structural analytic and SW analysis for the viscoelastic structure of the pre-qualification model of Globe”

Client: TELESPIAZIO SpA

PROMETE INTERNATIONAL RESEARCH PAPERS¹

(PROMETE AUTHORS ARE UNDERLINED)

1. A. Di Nardo, M. Di Natale, G. F. Santonastaso, D. Musmarra, F.P. Tuccinardi, G. Zacccone, SWANP 2.0: advanced tool for Smart WAter Network Partitioning and Protection, Conference: Water Ideas 2014, at Bologna (Italy)
2. A. Di Nardo, M. Di Natale, G. F. Santonastaso, F.P. Tuccinardi, G. Zacccone, SWANP: software for automatic Smart WAter Network Partitioning, Conference: International Environmental Modelling and Software Society (iEMSs) 7th International Congress on Environmental Modelling and Software, at San Diego (California, USA, 2014), D.P. Ames, N. Quinn (eds.)
3. G. Ausanio, C. L. Hison, V. Iannotti, L. Lanotte Jr., L. Lanotte, “Magneto-piezoresistance in elastomagnetic composites”, *J. Appl. Phys.* (2011)
4. A. De Candia, M. Mauro, A. Coniglio, “Dynamical behavior of a lattice glass model on a random graph: comparison with Mode Coupling Theory”, *EPL - Europhysics Letters* (2009)

¹Germano's publications are not accounted, because already reported before.

5. M. Neagu, M. Lozovan, M. Dobromir, L. Velicu, C. Hison, S. Stratulat "Permalloy thin films obtained by pulsed laser deposition: magnetic and galvanomagnetic behaviour", *Journal of Optoelectronics and Advanced Materials* 10 (3) (2008) 632-634
6. M. Dobromir, M. Neagu, G. Popa, H. Chiriac, V. Pohoată, C. Hison "Surface and bulk magnetic behavior of Fe-Si-B amorphous thin films", *J. Magn. Magn. Mater.* 316 (2) (2007) e904-e907
7. C. Nappi, E. Sarnelli, M. Adamo, M. A. Navacerrada, "Fiske steps in Josephson junctions with alternating critical current density, *Journal of Physics: Conference Series* 43, 1131-1134 (2006)
8. E. Sarnelli, C. Nappi, M. Adamo, M. Ejrnaes, M. A. Navacerrada, "Fiske resonances in mesoscopic "0-p" grain boundary junctions", *Physica C* 437-438, 274-277 (2006)
9. M. Neagu, M. Dobromir, G. Popa, H. Chiriac, Gh. Singurel, C. Hison, N. Apetroaiei "Optical and magneto-optical studies of Fe-Cu-Nb-Si-B amorphous thin films deposited by pulsed laser ablation", *Journal of Optoelectronics and Advanced Materials* 8 (5) (2006) 1755-1757
10. E. Sarnelli, G. Testa, D. Crimaldi, A. Monaco, M. Adamo, M. A. Navacerrada, "Properties of [100] tilt Y-Ba-Cu-O bicrystal grain boundary junctions", *IEEE Trans. on Appl. Supercond.* 15, 245 (2005)
11. M. Neagu, H. Chiriac, M. Dobromir, I. Petrou, M. Lozovan, C. Hison, "Magnetic and magnetoresistive properties of Fe-based amorphous thin films", *Technical Digest of the Soft Magnetic Materials Conference (SMMM 17)*, September 7-9, 2005, Bratislava, Slovakia
12. M. Dobromir, Maria Neagu, G. Popa, H. Chiriac, Gh. Singurel, C. Hison, "Surface magnetic characterisation of FeSiB amorphous ribbons" *Digests of the IEEE International Magnetism Conference (INTERMAG ASIA Nagoya, Japan, April 2005)*, 147
13. G. Ausanio, C. Hison, V. Iannotti, C. Luponio, L. Lanotte, "Mechanical vibrations sensor based on elastomagnetic composite", *Sensors and Actuators A* 129 (2006) 25-28
14. M. Dobromir, M. Neagu, G. Popa, H. Chiriac, Gh. Singurel, C. Hison, "The surface magnetism investigation of FeSiB amorphous thin films obtained by evaporation technique", *Sensors and Actuators A* 129 (2006) 172-175
15. C. Hison, H. Chiriac, N. Lupu, M. Neagu, "Nanocrystalline $\text{Fe}_{87}\text{Zr}_7\text{Al}_2\text{B}_3\text{Cu}_1$ ribbons", *Sensors and Actuators A* 129 (2006) 45-49
16. G. Ausanio, A. C. Barone, C. Hison, E. Pepe, L. Lanotte, "Magnetoelastic sensor for real-time monitoring of elastic deformation and fractures alarm", *Sensors and Actuators A* 125 (2005) 10-14
17. G. Ausanio, C. Hison, V. Iannotti, A. C. Barone, G. Mannara, L. Lanotte, "Magnetoelastic sensor application in civil buildings monitoring", *Sensors and Actuators A* 123-124 (2005) 290-295
18. G. Pica, F. Castaldo, M. R. Santovito, R. Fusco, S. Mattei, N. Spinelli, "New prototype of very compact LIDAR for atmospheric particulate monitoring", *Proceedings of 23rd Symposium EARSeL (European Association of Remote Sensing Laboratories)*, Gent (Belgium) June 2nd -5th, 2003
19. M. Salluzzo, C. Aruta, G. Ausanio, A. D'Agostino, U. Scotti di Uccio, "Effect of strain on the structure and critical temperature in superconducting Nd-doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ " *Physical Review B* 66 (2002) 184518
20. M. Salluzzo, G. Ausanio, M. G. Maglione, C. Aruta, S. Bals, A. D'Agostino, "Role of Nd/Ba substitution on the growth mode and on the structural properties of Nd-rich $\text{Re}_1(\text{Nd}_x\text{Ba}_{2-x})\text{Cu}_3\text{O}_{7-\delta}$ (Re = Nd, Y) thin films", *Physica C* 372-376 (2002) 675-678
21. F. Castaldo, M. Armenante, A. Boselli, X. Wang, "Simultaneous air quality monitoring by Lidar and Ground Based Network in Naples urban area", *INFMeeting 2002 – Bari (Italy)*

Chapter in Encyclopedia of Sensors

G. Ausanio, C. Hison, V. Iannotti, C. Luponio, L. Lanotte

"Magnetoelastic Stress and Strain Sensors"

Encyclopedia of Sensors, Craig A. Grimes, Elizabeth C. Dickey, Michael V. Pishko (Eds.), American Scientific Publishers, Stevenson Ranch, California, vol 5 (2006) 489-528

IN 2008 PROMETE SRL ACQUIRED 50% OF NOVAETECH SRL - THE FIRST SPIN-OFF OF THE ITALIAN NATIONAL INSTITUTE OF ASTROPHYSICS (INAF), AND IN 2015 PROMETE SOLD THE SHARE.

Founded in 2005, Novaetech Srl collects the experience and highly specialized knowledge of its founders, scientists expert in aerospace engineering, physics and astronomy, with many years of research experience at

INAF (Astronomical Observatory of Capodimonte, Naples) and partners of ASI - Italian Space Agency and ESA - European Space Agency in many scientific projects.

The company core business is the development of innovative instruments, based on high resolution and sensitivity sensors. Novaetech offers a wide range of advanced technological products and services such as: sensors and electronic devices, quartz crystal microbalances, technical-scientific services, and information technology services. Novaetech specialists have a consolidated know-how in Quartz Crystal Microbalance.

They developed the AE-QCM that is a very high precision mass measuring sensor featuring excellent performances in the recovery of the beat oscillation frequency coming from two coupled working quartz crystal.

The sensor has an integrated electronic control and it can be used standalone by interfacing to any frequency meter, oscilloscope or any kind of acquisition frequency system.

AE-QCM has different applications such as: real time monitoring of air particulate matter (PM) concentration, real time measurement of thin film deposition mass, monitoring of surface corrosion, thermogravimetric analysis, etc...

NOVAETECH INTERNATIONAL RESEARCH PAPERS

1. Sandford S. A. et al., "Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft", *Science* 314, 1720, 2006.
2. Esposito F. et al., "The Medusa (Martian Environmental Dust Systematic Analyzer) experiment for the monitoring of dust and water vapor in the lower atmosphere of Mars", Proceeding of 2nd workshop on Mars atmosphere modeling and observations, February 27 - March 3, 2006 Granada, Spain. Edited by F. Forget, M. A. Lopez-Valverde, M. C. Desjean, J. P. Huot, F. Lefevre, S. Lebonnois, S. R. Lewis, E. Millour, P. L. Read and R. J. Wilson. Publisher: LMD, IAA, AOPP, CNES, ESA, 2006, p.722
3. Rotundi A. et al., "Combined Micro-IR and Micro-Raman Analyses of Comet 81P/Wild 2 Particles Collected by Stardust", *Meteoritics & Planetary Science* 43 (1-2), 367, 2008.
4. Brownlee D. et al., "Comet 81P/Wild 2 Under a Microscope", *Science* 314, 1711, 2006.
5. Keller L. P. et al., "Infrared Spectroscopy of Comet81P/Wild 2 Samples Returned by Stardust" *Science* 314, 1728, 2006.
6. Battaglia R. et al., "Experimental evidence of a buoyant mass difference between bovine spermatozoa bearing X- and Y-chromosomes using a micromechanical resonator", *Analyst* 139, 1148-1154, 2014.

03/02/2023

