

# CURRICULUM VITAE

## PERSONAL INFORMATION

First name / Surname	<b>Andrea Caneschi</b>
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E-mail	<b>andrea.caneschi@unifi.it</b>
Nationality	<b>Italian</b>
Fiscal Code	<b>CNSNDR58P25D612A</b>
Date of birth	<b>September 25<sup>th</sup>, 1958</b>
Gender	<b>MALE</b>

## EDUCATION AND TRAINING

- |  |   |
|--|---|
| • Dates  | 1986-1989   |
| • Title of qualification awarded                                 | PhD in Chemical Sciences  |
| • Principal subjects/occupational skills covered                 | "Verso i Magneti Molecolari: la Via Metallo Radicale" – "Towards the molecular magnets: the metal radical approach" |
| • Name and type of organisation providing education and training | Università degli Studi di Firenze   |
| • Level in national or international classification (if any)     |   |
| • Dates  | 1977 - 1983   |
| • Title of qualification awarded                                 | Laurea in Chimica   |
| • Principal subjects/occupational skills covered                 | Synthesis and chemical physical characterisation of inorganic compounds   |
| • Name and type of organisation providing education and training | Università degli Studi di Firenze   |
| • Level in national or international classification (if any)     | Pieni voti  |

## WORK EXPERIENCE

- |  |  |
|--|--|
| • Dates                                | 2008 -2010   |
| • Occupation or position held          | - Responsible of the project for the larger IP (60 partners) of the EC, VI FP, VIRTUALIS (Virtual Reality and Human Factors Applications for Improving Safety, contract nr. NMP2-CT-2005-515831)   |
| • Main activities and responsibilities | Preparation of the Documents of Work, Control of the partner activities, Budget allocation, Budget distribution, Reporting to EC, Organisation of Work-package activities                          |
| • Name and address of employer         | European Institute of Molecular Magnetism - Italy  |
| • Dates                                | 2005 -2009   |
| • Occupation or position held          | - Executive Manager of the Network of Excellence MAGMANet of the VI FP of the EC   |
| • Main activities and responsibilities | Preparation of the Documents of Work, Control of the partner activities, Budget allocation, Budget distribution, Reporting to EC, Organisation of Work-package activities                          |
| • Name and address of employer         | Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali - Italy   |
| • Dates                                | since 2004   |
| • Occupation or position held          | Associate professor of chemistry   |
| • Main activities and responsibilities | Leader of research activity. Training of undergraduate and graduate students and post-docs. Supervisors of undergraduate and graduate students and post-docs. Fund rising and management activity. |
| • Name and address of employer         | Università degli Studi di Firenze - Italy  |

- Dates
- Occupation or position held
- Main activities and responsibilities
- Name and address of employer

1991 - 2004

Associate researcher of chemistry

Research activity. Training of undergraduate and graduate students and post-docs. Supervisors of undergraduate and graduate students and post-docs. Fund raising and management activity.

Università degli Studi di Firenze - Italy

- Dates
- Occupation or position held
- Main activities and responsibilities
- Name and address of employer
- Type of business or sector

1989 - 1991

Aggregate professor of chemistry

Teaching chemistry to undergraduate students. Training of undergraduate and graduate students and post-docs.

Università degli Studi della Calabria - Italy

Research

## LANGUAGES

- Language
- Understanding
  - Writing
  - Speaking

### English

Good

Good

Good

- Language
- Understanding
  - Writing
  - Speaking

### French

Good

Basic

Good

## Other qualifications

## WORK EXPERIENCE

- Dates
- Occupation or position held
- Main activities and responsibilities
- Name and address of employer
- Type of business or sector

1993

Researcher

Research on metallo-organic clusters

- Dates
- Occupation or position held
- Main activities and responsibilities
- Name and address of employer
- Type of business or sector

1988

Researcher

Research for the national project Materiali Speciali per Tecnologie Avanzate of the Italian C.N.R.

C.N.R., Roma, Italy

Research

- Dates
- Occupation or position held
- Main activities and responsibilities
- Name and address of employer
- Type of business or sector

1984

Researcher

Research on magnetic materials

Centre d'Etudes Nucleaires, Grenoble, France

Research

## **SOCIAL SKILLS AND COMPETENCES**

- Extremely organized person
- Good abilities for synthetic and global views over concrete situations
- End-oriented work capacity
- Problem-solving attitude
- Responsibility, self-respect and self-reliance
- Strong referential values of fairness, equity and dignity
- Ability to establish and maintain good working relations with people of different national and cultural backgrounds
- Ability to live and/or serve in hardship locations
- Experience in working in an international environment
- International social networking experience
- Experience with project team work

## **ORGANISATIONAL SKILLS AND COMPETENCES**

- Director since May 2012 of the Consorzio Interuniversitario Nazionale di Scienza e Tecnologia dei Materiali, INSTM. In charge also of the coordination of scientific activities of the Consorzio INSTM, that is grouping 2000 researchers of all the Italian regions of the Mediterranean area. INSTM has among its main goals the development of research on materials for alternative energies and environment.
- Executive Director of the European Institute of Molecular Magnetism, EIMM s.c.a.r.l., headquarters Firenze, Italy.
- Since 02-2014 Executive Director of the European Institute of Molecular Magnetism, EIMM a.s.b.l., headquarters Brussels, Belgium.
- Vice-director of the e-CAMM, European Structured Research Area on Catalysis and Magnetic Nanomaterials.
- President of the Scientific Board of the Society GRINT (Gruppo Ricerca Innovazione Nanotecnologie Toscana).
- Member of the Patent Committee of Consorzio Interuniversitario Nazionale di Scienza e Tecnologia dei Materiali, INSTM.
- Member of the Scientific Committee of the cooperation agreement between Italian Institute of nanotechnology, IIT, and Consorzio INSTM.
- Member of the Direction Committee of the Centro Recupero e Liquefazione Gas Elio, CRElio.
- Member of the Steering Committee of the LSF STAR-Lab at the Università della Calabria.
- Director of the Technical and Scientific committee of the NanoxM, Polo delle Nanotecnologie of the Tuscany Region.
- In 2016 he was proposed by the MIUR as Italian representative for the Task Force "Characterisation" of the European Materials Characterisation Council of the EC.
- Associate of the ICCOM Institute of Italian CNR, since 2015.
- Former member of the Technical-scientific committee of Rete Ventures, the technological-transfer and industrial development company operating in the field of innovative materials and advanced technologies founded by the three larger bodies of connected Italian universities and by CNR.
- External Expert in Nanotechnology application in the Nano4M, *Nanotechnology for Market* project of the INTERREG IVC program of the EC, for ASEV, representing Toscana Region.

## **COMPUTER SKILLS AND COMPETENCES**

- Operative systems: Windows, Linux, Dos.  
Software packages: Microsoft Office (Excel, Word, Access, Powerpoint), Adobe (Writer, Reader, Photoshop), Origine Lab, WinGX (resolution and refinement of

## OTHER SKILLS AND COMPETENCES

crystal structures).

- During the national selection of 2012 and 2013 he received habilitation for the Full Professor position in two different area, SSD 03/B1 *Fundamental knowledge in chemical sciences and inorganic systems* and SSD 03/B2 *Fundamental knowledge of the chemical technologies*.
- He's co-author of more than 380 articles in English, published on the best international journals. Some of his Publications have been classified *Hot paper* e *VIP paper* by prestigious journals and others, also being Published recently, have already a high number of citations, confirming the quality of his work and the interest of international scientific community for his research. This is testified also by his *h-index* of absolute international relevance (74) and by about 21,000 citations obtained from his papers.
- Participant or Main Investigator or Coordinator in National Research Project, PRIN (Research Project of National Interest), FISR (Special Funds for Incentive in Research), FIRB (Incentive Funds for Basic Research) and C.N.R. funds (PROMO and Commesse). Participant to the Research Training Network, RTN, of EC in the IIFP, IVFP "3MD", VFP "Molnanomag" and VIFP "Quemolna", supervisor of the Training Site Marie Curie "MOLMAG" of the V and VI FP of the EC, Operational Manager of the Executive Management Committee and scientific participant of the Network of Excellence of the VI FP, "MAGMANet". Participant to STREP, SSCP, IAPP and LSCP projects of the VIFP. Unit Leader of the NANOMAGMA, SSCP, of the 7FP.

Scientist in charge of several projects funded by Tuscany or Lombardy Regions and by private foundations like Fondazione Cariplo, Ente CRF.

He also got some industrial contracts with medium or large enterprises.

- Recently he received a large grant (1.5 MEuro from the board of a private bank) to build up a recovery and liquefier system for Helium from the instruments of 6 scientific departments of the Scientific Pole of the University of Florence.
- Member of the board of the PhD course in Chemical Sciences, of the PhD course of Science and Technology of the Materials, of the PhD course in Science and Engineering of the Materials and of the PhD course in Processes, Materials and Constructions in Civil and Environmental Engineering and for the Protection of the Historic-Monumental Heritage. He supervises, also as tutor, candidates for a doctor's degree of these courses.
- Supervisor of many doctoral degree thesis in Chemistry and Material Science; he follows assiduously final-year university students in Chemistry and Physics, as well as candidates for a doctor's degree in Chemistry Sciences and in Sciences of the Materials.
- He supervised as coordinator, the research activities and specialization of the foreigner and Italians post-docs, Erasmus students and European graduate students of the Marie Curie Training Center (V and VI FP of the EC) of the Prof. Dante Gatteschi's laboratory, of almost fifty persons. He was directly in charge for the scientific activity of more then thirty post-docs and Italian Assegni di Ricerca.
- He supervised first cycle thesis of students coming from University of Switzerland, France, Germany, Spain, Turkey under Socrates/Erasmus Projects' agreement, as well as in ambit of reciprocal agreements between Universities.
- He participated several times to the jury committees of the thesis of PhD course in Spain, France, Poland and Romania.
- He participated several times to the jury committees for the selection of permanent researcher positions at Italian universities and Italian C.N.R.
- He collaborated or leaded the preparation of more then 40 projects at national (Italian FIRB, PRIN, FISR) and international level, included RTN, IP, SSCP, LSCP, STREP, NoE, MCTS, IAP and other of the EC.
- He acts as Referee for:

**Projects by the following Institutions:** ERC – European Research Council; EC – FP7 Marie Curie Actions PISCOPIA Fellowship Programme; National Science Foundation degli Stati Uniti; Israel Science Foundation; CNRS (Francia); CNR; progetti PRISMA del Consorzio INSTM; Regione Piemonte; Regione Lazio; Regione Lombardia; Università di Padova; “The Academy of Sciences for the Developing World”, TWAS; International Center for Frontier Research in Chemistry, (Francia); Agence Nationale de la Recherche, ANR (Francia); Regione Bretagne (Francia); MIUR per progetti PRIN e FIRB, MISE.

He has been selected as member of the GEV 03 for the Italian VQR (quality evaluation of the university research) for the period 2011-2014.

**Journals:** Journal of the American Chemical Society, Inorganic Chemistry, Chemistry of Materials, Journal of Material Chemistry, Inorganica Chimica Acta, Chemistry European Journal, New Journal of Chemistry, Journal of Magnetism and Magnetic Materials, ChemPhysChem, Europhysics Letters, Physical Review B, Physical Review Letters, Materials Research Bulletin, Journal Applied Physics, Materials Chemistry and Physics, Angewandte Chemie, Journal Chemical Society – Dalton, Chemistry an European Journal, Inorganic Chemistry Communications, Inorganic Chemistry, European Journal of Inorganic Chemistry, Coordination Chemistry Review, Nanoscale, Chemical Communications, Synthetic Metals, J. Solid State Chemistry, Advanced Functional Materials, CrystEngComm, PCCP - Physical Chemistry Chemical Physics, Chemical Science, Crystal Growth & Design, Chemical Science, Chemical Society Review, Advanced Materials, Zeitschrift für Anorganische und Allgemeine Chemie, Journal of Industrial and Engineering Chemistry, ChemPlusChem, RSC Advances, Journal Material Chemistry C, Journal of Nanomaterials, Materials & Design, Arabian Journal of Chemistry.

- He has been member of the direction board of the larger junior rugby team of Florence
- He has been member of the direction board of the first division professional rugby team of Florence

#### ADDITIONAL INFORMATION

#### References:

Prof. Dante Gatteschi – Dipartimento di Chimica “Ugo Schiff”- Via della Lastruccia 3 - Sesto F.no 50019 - Italy  
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phone: +39 0552338711

I, the undersigned, authorize the treatment of the personal data transmitted with this application for the needs related to the selection procedure, according to D. Lgs. 196/2003.

Firenze, 20/07/2016

Signature

