

CURRICULUM VITAE Jean-Marc TRISCONE

Personal:

Born January, 11, 1959.
Swiss citizen.
Married, two children.

Professional Address:

University of Geneva, Section de Physique, Department of Quantum Matter Physics,
24 Quai E.-Ansermet, 1211 Geneva 4, Switzerland.

Education:

University of Geneva 1982, diploma in Physics.
University of Geneva 1987, graduated with Ph.D. in physics, thesis advisor:
Professor Øystein Fischer.

Thesis Title:

"Croissance et Propriétés Supraconductrices de Superréseaux Métalliques Périodiques et Quasipériodiques".

Professional experience:

1982 - 1987, Research assistant, University of Geneva.
1987 - 1990, "Maître assistant", University of Geneva.
1990 - 1991, Visiting Scientist, Dept. of Applied Physics, Stanford University, with
T.H. Geballe, M.R. Beasley, and A. Kapitulnik.
1991 - 1994 "Maître assistant", University of Geneva.
February 1995 - May 1995, Visiting Scientist, Stanford University.
1996 - Full Professor of Physics, University of Geneva.
2000 - 2007 Director of the Condensed Matter Physics Department.
2001- 2007 Deputy Director of the Swiss National Center of Competence in
Research MaNEP.
2004 - 2007 Vice-dean of the Faculty of sciences.
2007 – July 2014 Dean of the Faculty of sciences.
July 2015 – Vice-rector University of Geneva.

Research Activities and Interests:

Solid State physics. Low and high temperature superconductivity. Ferroelectricity. Thin films. Advanced vapor deposition techniques, epitaxial growth of metals and oxides. Artificially structured materials, epitaxial growth of metallic and oxide superlattices. Effect of reduced dimensionality, periodicity, quasi- or aperiodicity, disorder, and strain, on physical systems. Tunneling. Vortex dynamics. Search for new materials using advanced deposition techniques. Current activities are focused mainly on oxide heterostructures and oxide interface physics and engineering based on superconductors, dielectric, ferroelectric and ferromagnetic materials.

Publications:

Over 220 publications in refereed journals, (6 Science, 7 Nature, 3 Nature Materials, 5 Nature Communications, 2 Nature Nanotechnology, 1 Nature Photonics, 2 Nature Physics, 20 Physical Review Letters), over 12'000 citations, h-index 48 (source ISI Web of knowledge 2018-02-01).

Presentations:

Over 120 invited oral presentations at international conferences.

Awards and Honors

2006 - Fellow of the American Physical Society "*For his pioneering contributions in artificially layered superconducting thin film superlattices, ferroelectric field effect, and nanoscale ferroelectric writing*".

2007 - Discovery of superconductivity at the LaAlO₃/SrTiO₃ interface classified by Science Magazine as one of the 10 breakthroughs of the year 2007.

2008 - Ikeda prize "*For his contribution to the progress in physics of ferroelectric materials at nanoscale*".

2008 - "La Recherche" prize "*Communications and information technology*".

2013 - Awarded, with Andrea Cavalleri, Antoine Georges and Dieter Jaksch, an ERC synergy grant "*Frontiers in quantum materials control*".

2014 - Awarded, with Harold Hwang and Jochen Mannhart, the 2014 European Physical Society Condensed Matter Division Europhysics Prize "*For the discovery and investigation of electron liquids at oxide interfaces*".

2018 – Awarded a Doctor Honoris Causa from the Norwegian University of Science and Technology (NTNU), Trondheim, Norway.

Membership in Professional Associations and other activities:

Member, Swiss Physical Society.

Member, American Physical Society.

Member, Materials Research Society.

Since 2007, President of the Ernst and Lucie Schmidheiny Foundation.

Since 2009, President of the AGFA, Association de Genève des Fondations Académiques.

Since 2016, member of the Swiss Science and Innovation Council.

Organization – partial list:

With Profs. D.H. Blank (Twente) and J. Mannhart (MPI Stuttgart), co-leader of the EU- ESF-THIOX network.

Main organizer of the "7th International Workshop on Oxide Electronics", 11-13 October 2000, Les Diablerets, Switzerland.

Co-organizer of the "10th International Workshop on Oxide Electronics", 11-13 September, 2003, Augsburg, Germany.

Co-organizer of several Summer and Winter schools.

With Øystein Fischer, main organizer of the "Swiss Workshop on Superconductivity and Novel Metals", 1999, 2001, 2003, 2005.

Co-organizer of the "16th International Workshop on Oxide Electronics", 5-7 October, 2009, Tarragona, Spain.

Organizer of several meetings and symposia (International workshop on oxide electronics, Materials Research Society Spring and Fall meetings, American Physical Society meetings, Swiss Physical Society meetings).

Main organizer with M. Gabay, M. Bibes, and S. Gariglio of the "22nd International Workshop on Oxide Electronics", 7-9 October 2015, Paris, France.

Website for Triscone group :

<http://dqmp.unige.ch/triscone/>