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2. EDUCATION

- Master (Laurea) in Physics, cum laude, University of Milan, Italy, 1988
- Ph.D., Physics, EPFL, Switzerland, 1993

3. WORK EXPERIENCE

- Research Scientist, JET Joint Undertaking, Oxford, UK, 1993-1997
- Tenure-track Assistant Professor of Physics, MIT, US, 1998-2001
- Visiting Professor at MIT Physics Dept. and Plasma Science and Fusion Center, 2001-2008
- Tenure-track Assistant Professor of Physics, Basic Science Faculty, EPFL, 2001-2005
- Head of CRPP TCV Tokamak Group and of the Basic Plasma Physics Group, 2001-2014
- Associate Professor of Physics, Basic Science Faculty, EPFL, 2005-2006
- Deputy Director, Center for Research in Plasma Physics, EPFL, 2006-2014
- Professor of Physics, Basic Science Faculty, EPFL, 2007-present
- Executive Director, Center for Research in Plasma Physics, EPFL, 2007-2014
- Head of Physics Strategic Committee, EPFL, 2010-2014
- Member of Directorate of Basic Science Faculty, EPFL, 2010-2014
- Director, Center for Research in Plasma Physics, EPFL, 2014-2015
- Director, Swiss Plasma Center, EPFL, 2015-present
- Editor-in-Chief, Nuclear Fusion journal, IAEA, 2014-present

4. INSTITUTIONAL RESPONSIBILITIES

- Chair of the Promotion Committee of Basic Science Faculty
- Member of the Executive Committee of the EPFL Physics Institute
- Director, Swiss Plasma Center, EPFL

5. FUNDED PROPOSALS

- *Advanced plasma physics for fusion* SNSF 200020-165722, 2016-2019
- *Confinement, stabilization and heating of ionized gases at high temperature* SNSF 200020-153237, 2014-2016
- *Confinement, stabilization and heating of ionized gases at high temperature* SNSF 200020-140408, 2012-2014
- *Confinement, stabilization and heating of ionized gases at high temperature* SNSF 200020-130374, 2010-2012
- *Confinement, stabilization and heating of ionized gases at high temperature* SNSF 200020-119807, 2008-2010
- *Basic plasma physics for fusion energy research* SNSF 200020-140446, 2012-2014
- *Basic plasma physics for fusion energy research* SNSF 200020-130415, 2010-2012
- *Basic plasma physics for fusion energy research* SNSF 200020-119806, 2008-2010
- *Basic plasma physics for fusion energy research* SNSF 200021-112312, 2006-2007
- *Basic plasma physics for fusion energy research* SNSF Professeur Boursier 620-062924, 2001-2005

6. SUPERVISION OF Ph.D. STUDENTS

- Supervised completion of 14 Ph.D. theses at MIT, Princeton University and EPFL
- Ongoing theses
 - *Synchrotron radiation and electron cloud characterization of technical surfaces with the Large Hadron Collider Vacuum pilot sector*, E.Buratin, EPFL-CERN
 - *Turbulence studies in TCV using the Correlation ECE diagnostic*, M.Fontana, EPFL
 - *Fast ion transport due to MHD instabilities and turbulence on TCV*, L.Stipani, EPFL
 - *Prototype HTS cable resistant to fatigue for high field EU-DEMO Central Solenoid*, O.Dicuonzo, EPFL
 - *Intergrade Joints for high magnetic field Nb3Sn magnets*, V.d'Auria, EPFL
 - *Microwave diagnostics for core turbulence investigations on TCV*, A.Tema, EPFL

7. TEACHING ACTIVITIES

- Freshmen Physics lecturing at MIT (1998-2001)
- Plasma Physics, graduate level at MIT (1998-2001)
- Supervised several Master Theses and laboratory projects in Plasma Physics at MIT and EPFL
- *General Physics II* for Life Sciences and Technologies students, 2005-present, EPFL
- *Plasma Physics II* for Physics students 2005-2010, EPFL
- *Plasma Physics III* for Physics students 2013-present, EPFL

- *Energy – Global Issues* for first year EPFL students, 2013-present
- *Nuclear Fusion and Plasma Physics*, EPFL-ETHZ Master in Nuclear Engineering, 2008-present
- *Magnetic Confinement*, EPFL Doctoral Program in Physics, 2012-present
- *Fusion and Industrial Plasma Technologies*, EPFL Doctoral Program in Physics, 2012-present
- *Massive Open Online Courses on Plasma Physics and Applications – EdX (enrolment >12'000)*, 2014-present
- Courses on plasma physics and fusion in other institutions, including at York University in the frame of European Fusion Education, CERN Academic Training Program, UN International Center for Theoretical Physics, Trieste
- Participation to many PhD exam committees in numerous universities in Europe and in the US

8. PANELS, COMMISSIONS AND SCIENTIFIC EXPERT

- Chair of FUSENET Academic Council
- Chair of the International Advisory Panel for the Laboratory of Excellence Plas@Par in the Sorbonne Universities
- Chair of the Steering Committee of the ITER EC Upper Launcher Consortium
- European representative in the International Tokamak Physics Activities Coordinating Committee
- Swiss representative at
 - Fusion for Energy Governing Board
 - IEA Fusion Power Coordinating Committee
 - Euratom Fusion Program Committee
 - EUROfusion General Assembly
- Member of EUROfusion Bureau
- Member of several Project Boards for EUROfusion projects in fusion science and technology
- EU representative in International Tokamak Physics Activities group for Energetic Particles
- Scientific Coordinator for JET experiments in the area of fast particle physics at European level
- Spokesperson for experiments in the frame of International Tokamak Physics Activities
- Project Leader for the JET Enhancement project “TAE antennas”
- Member of several committees and panels, including
 - EU Delegation for Cooperation between Euratom and India in Fusion Energy Research
 - Scientific Board of the Helmutz Virtual Institute on Advanced Microwave Diagnostics
 - Max Planck Asdex-U tokamak program
 - EU Transport Task Force
 - APS thesis award (2010 chair)
 - EFDA Transport Topical Group
 - Several EFDA Ad Hoc groups
 - French National Research Agency
 - Italian National Research Council competition (president of Jury)
 - Evaluation Committee of US Department of Energy SciDac initiative
 - Euratom Science and Technology Advisory Committee (acted as chair in several *ad-hoc* groups, in particular on JET activities)
- Chair of EUROfusion Consortium (starting January 2019)

9. ACTIVITY AS ACTIVE MEMBER OF SCIENTIFIC SOCIETIES

- Member of the Editorial Board of the Journal of Plasma Physics
- French National Research Agency
- Italian National Research Council competition (president of Jury)
- Scientific Board of the Helmutz Virtual Institute on Advanced Microwave Diagnostics
- Max Planck Asdex-U tokamak program

10. CONFERENCE ORGANIZATION

- APS DPP annual meeting
- European Fusion Physics Workshop
- EU-US TTF workshop
- EPS DPP annual meeting (chair of International Program Committee in 2012)
- IAEA Meeting on Energetic Particles

11. AWARDS

- 2014 EPFL Best Teacher’s award *Polysphère*
- 2008 Fellow of American Physical Society
- 2008 EPFL Best Teacher’s award *Polysphère*
- 2001: Swiss National Science Foundation Professeur Boursier
- 2000: US Department of Energy - Plasma Physics Junior Faculty Award
- 1999: MIT Charles Reed Faculty Award
- 1993: EPFL best thesis Award