

Carlo MARIANI (born 1956)

Employment and Education

2001-now: Full Professor of Physics of Matter at the University of Roma "La Sapienza"
1998-2001: Associate Professor of General Physics at the University of Modena and Reggio Emilia
1989: invited ass. prof. at the Univ. P. et M. Curie, Paris
1984-1998: permanent staff researcher at the Dept. of Physics, Univ. of Modena
1983: CNR researcher at Frascati synchrotron radiation facility Adone
1980-1982: post-doc researcher at the Fritz-Haber-Institut der Max-Planck-Gesellschaft in Berlin
1979: Graduated in Physics "cum laude" at the University of Rome

Appointments

2011-now: chair-person of the International Proposal Review Committee of the Elettra synchrotron radiation facility
2011-now: member elected of the executive committee of the European Synchrotron Users Organization (ESUO)
2011-now: member of the User Selection Panel (USP) of the Transnational Access for the research Infrastructure at the Frascati National Laboratories, INFN
2010-now: reviewer of the European Synchrotron Radiation Facility (ESRF)
2010-now: reviewer of the Canadian Light Source
2010-now: member of the Nanotechnology laboratory at Speinza University of Rome (CNIS)
2009-now: member elected in the council of the European Light Sources Activities (ELISA)
2008-now: member of the teaching staff of the PhD in Material Science, within the PhD school Volterra, at Roma "La Sapienza" University
2008-2011: president elected of the Italian Society for Synchrotron Radiation (SILS); 2012-now: past-President
2004-2010: responsible of the surface science committee of the international proposal review panel of the Elettra synchrotron radiation facility at Trieste
2008: co-chair of the General Conference of the Condensed Matter Division of the European Physical Society
2004-2007: member of the teaching staff of the PhD school on Nanoscience and Nanotechnology at Modena University
2001-2003: member of the executive committee for synchrotron radiation of the national institute for the physics of matter (INFN)
2000-2004: member of the teaching staff of the PhD in Physics at Modena University
1997-2001: EU ECTS, EMSPS, TEMPUS, EUPEN, and Socrates/Erasmus coordinator at Modena
1995-1998: member elected in the council of the Phys. Dept. at Modena University
1995-1999: member elected in the Council of Italian Society for Synchrotron Radiation (SILS)
1987-2011: Member of the Scientific Committee for National and International Conferences (AIV, Advances in surface and interface physics, SILS),
Referee of the several major international journals
Referee of research projects within the Framework Programmes of the EU
Referee of research projects for the Italian Ministry of Research
Member (Referent) of PhD commissions (RWTH Aachen, Germany, Brescia, Cosenza, Milano, Roma1, Roma2, Roma3, etc.), and member of several examining bodies for staff researchers and full and assistant professors

Teaching

2001-now: advanced courses on the physics and technology of nanostructures in PhD Schools (Modena, Rome)
1999 and 2003: director of the INFN doctorate school on Surface Science
1988-now: tutor of several tens of Bachelor and Master students, of eight PhD students

1988-now: teaching Physics Laboratory courses, basic Physics, basic Electromagnetism, Physics of Condensed Matter, Physics of Low-Dimensional Systems and Nanostructures, in master degree courses of the Sciences and Engineering Faculties.

Research activity

Main focus on the experimental study of low-dimensional systems and nanostructures (electronic, vibrational, and structural properties), using a variety of experimental approaches, mainly high-resolution angular resolved UV valence band and core-level photoelectron spectroscopy (on-campus and at synchrotron radiation facilities), absorption (NEXAFS) and grazing-incidence x-ray diffraction (GIXD) at synchrotron radiation facilities. Research experience on low-dimensional (2D, 1D) surface and interface systems (low-temperature rare gas adsorption on metal surfaces, temperature-dependent metal-to-insulator transition at clean semiconductor surfaces, ordered inorganic-to-organic systems, biological oligomers on surfaces).

Research grants from INFN, University, CNR, EU, MIUR

1994-now: about thirty invited talks, tens of contributed talks and seminars

Author of more than 140 papers on intern. refereed journals, 2 books, 48 proc. etc., and hundreds of contributions to conferences.

<http://server2.phys.uniroma1.it/gr/lotus/index.htm>