

Massimo Placidi

2, via A. Bonci, Bologna 40137

Cell: +39 329 982 9293

Email: massimoplacidi@icloud.com

Education

Laurea in Physics at “La Sapienza”, Rome University

Research & Work Experience

10/17 – Present Affiliated LBNL, Berkeley, California, USA.

Guest at DIFA / Bologna University (Proff. G Turchetti, A. Bazzani).

Proposal for a Compact X-ray Source for an Advanced Diagnostic and Radiological Imaging Facility in the Bologna Metropolitan Area.

9/09 – 11/16 ***Scientific Consultant*** at Lawrence Berkeley National Laboratory (LBNL).

Conception and design of compact multi-beamlines spreader systems and of associated special magnets for XFEL Applications.

Participation in the UXO Project (Individuate Unexploded Ordnance).

Participation in the LIGTT Initiative - Cost-effective, energy-efficient methods for desalinating water in underdeveloped countries.

2/04 – 8/09 ***Engineering Physicist***, Lyncean Technologies, Inc.

Acceptance tests for e-ring magnets, lattice optics files and configuration management, e-ring commissioning and development.

Responsible for facility operation during experiments on protein crystallography and soft X-ray imaging.

2/03 – 2/04 ***Research Physicist***, Lawrence Berkeley National Laboratory (LBNL).

MARS code simulations for beam test experiments for the CERN Large Hadron Collider (LHC) luminosity monitor at the Radiation Damage Facility (RDF) of the Fermilab National Accelerator Laboratory (FNAL); beam tests of the detector prototype at LBNL/Advanced Light Source (ALS). Feasibility evaluation of CERN specifications for beam diagnostics; beam tests of detector prototype at LBNL/ALS for the LHC longitudinal bunch density monitor.

6/74 – 2/03 ***Research Physicist***, European Organization for Nuclear Research (CERN)

Liaison Physicist for LARP (US/LHC Accelerator Research Project): LHC Luminosity Measurement program and prototype detector tests at CERN, data taking, analysis.

Liaison for LARP (LBNL Accelerator Research Program) .

LHC Longitudinal Beam Profile Monitoring.

Accelerator Studies and Beam Instrumentation for the Large Electron-Positron Collider (LEP).

Project leader for tune measurement.

LEP Injection tests.

Team leader for the LEP Polarization project.

Design, commissioning and operation of the LEP Compton Polarimeter.

Beam polarization studies.

Team leader for the application of controlled depolarization for precise beam energy calibration; study of effects on LEP beam energy from terrestrial tides, ground motion; project leader for the LEP spectrometer program.

LEP Beam Diagnostics requirements.

Instrumentation for the CERN Super Proton Synchrotron (SPS) Experimental Areas (Cerenkov gas counters).

Accelerator Studies and Commissioning outside CERN:

- Collaboration with DESY (Deutsche Electron Synchrotron / Hamburg) for the PETRA storage ring,
- Collaboration with SLAC (Stanford Linear Accelerator Center) for the SLC (SLAC Linear Collider) and PEP II (Positron Electron Project) commissioning.

11/61 – 6/74 **Research Physicist**, Frascati National Laboratory (LNF)

Head of Operation for the Italian Electron-Positron Storage Ring ADONE; liaison with Experimental Groups.

Commissioning of the accelerator complex.

Acceptance tests for production magnets at Rade Koncar, Zagreb, Yugoslavia.

Project Leader for Instrumentation for and Execution of the Magnetic Measurement Program.

Magnet Design and Specifications; construction supervision.

List of publications available upon request.