

Graduates of Accelerator Division's Education Program

Ph. D.

- Nick Sereno (1994). *Experimental Studies of Multipass Beam Breakup and Energy Recovery Using the CEBAF Injector Linac*. U. Illinois, Urbana-Champaign.
- Zenghai Li (1995). *Beam Dynamics in the CEBAF Superconducting Cavities*. College of William and Mary.
- Mahesh Chowdhary (1996). *Online System Identification for Control System Applications in Particle Accelerators*. Old Dominion University.
- David Engwall (1998). *High-Brightness Electron Beams from a DC, High-Voltage GaAs Photoemission Gun*. U. Illinois, Urbana-Champaign.
- Philippe Piot (1999). *High Brightness Electron Beam Diagnostics and their Applications to Beam Dynamics in a Superconducting Energy-Recovering Free-Electron Laser*. Université Joseph Fourier Grenoble I, France.
- Joseph Grames (2000). *Measurement of a Weak Polarization Sensitivity to the Beam Orbit of the CEBAF Accelerator*. U. Illinois, Urbana-Champaign
- Raphael Akogyaram (2002). *Basis Function Repetitive and Feedback Control with Application to a Particle Accelerator*. Columbia University.
- Genfa Wu (2002). *Energetic Deposition of Niobium Thin Film in Vacuum*. Virginia Tech.
- Tong Wang (2002). *Enhanced Field Emission Studies on Niobium Surfaces Relevant to High Field Superconducting Radio-Frequency Devices*. Virginia Tech.
- Changkun Dong (2003). *Field Emission Based Sensors using Carbon Nanotubes*, Old Dominion University.

- Gianluigi Ciovati (2005). *Investigation of the superconducting properties of niobium radio-frequency cavities*. Old Dominion University.
- Christopher Tennant (2006). *Studies of Energy Recovery Linac: Jefferson Laboratory*. College of William and Mary.
- Adam Phillips (2007). *Absorption Studies in Nanoscale Materials through Surface Acoustic Wave Based Techniques*, University of Virginia.
- Hui Tian (2008). *Surface Studies on Niobium for Superconducting Radio Frequency (SRF) Accelerator*, College of William and Mary.
- Guimei Wang (2008). *Beam line design and beam physics study of Energy Recovery Linac Free Electron Laser at Peking University*, Peking University.
- Fay Hannon (2008). *A High Average-Current Electron Source for the Jefferson Laboratory Free Electron Laser*, University of Lancaster

M.S.

- Joe D. Wilson, Jr (2003). *Determination of the Optimal Operating Parameters for Jefferson Laboratory's Cryogenic Cold Compressor System*, Christopher Newport University
- David Smith (2004). *Surface Analysis of acid treated SRF niobium cavities using SIMS and other surface analysis instruments*. Virginia Commonwealth University.
- Deepesh Kumar Koppunuru (2007). *PARMELA-based simulations of Jefferson Lab 10 KW upgrade IR FEL Injector*, Old Dominion University
- Peter Knudsen (2008). *Process Study for Small Scale 2K Refrigeration Systems*, Old Dominion University.

- Nicolas Ruiz (2008). Determination of the influence of machining defects on the magnetic field as a part of the design of new electromagnetic components for the energy-duplicating upgrade of the CEBAF accelerator, University: Escuela Técnica Superior De Ingenieros Industriales De La Universidad Politécnica De Valencia

Undergraduate Theses

- Rachel Sparks (2007). Commissioning of Field Emission Viewer, Old Dominion University
- Wade Brock (2007). Polarization and Attenuation of Terahertz Radiation, Old Dominion University
- Frederick Wilson (2008). Investigation of Terahertz Light Source by Implementation of Michelson Interferometry, Old Dominion University