

RESEARCH LINE: REFRIGERATION

Description: Evaluation of the heat and mass transfer mechanisms in the product and its effect on cooling, freezing, and food storage. Energy recovery and conservation in heat pumps and thermal accumulation.

REFRIGERATION AND AUTOMATION IN THE FOOD INDUSTRY.

Professor VIVALDO SILVEIRA JÚNIOR

Laboratory of the Food Process Automation and Control– LACPA

Participant Professor: Douglas Fernandes Barbin

Laboratory of Refrigeration– LR

Description: Studies on cooling or freezing processes of food products and shelf life during refrigerated storage. Energy recovery and conservation in heat pumps and thermal storage. Assembly and instrumentation of processes (interfaces, sensors, and actuators) with implementation of conventional (PID) and non-conventional (fuzzy and adaptive) logics. Assessment of system controllability.