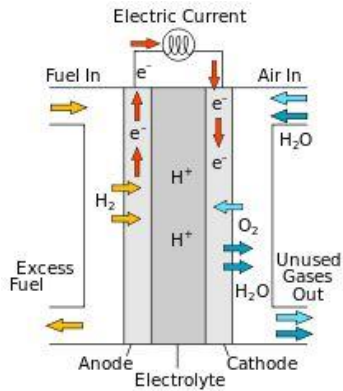


# Fuel Cell Reliability



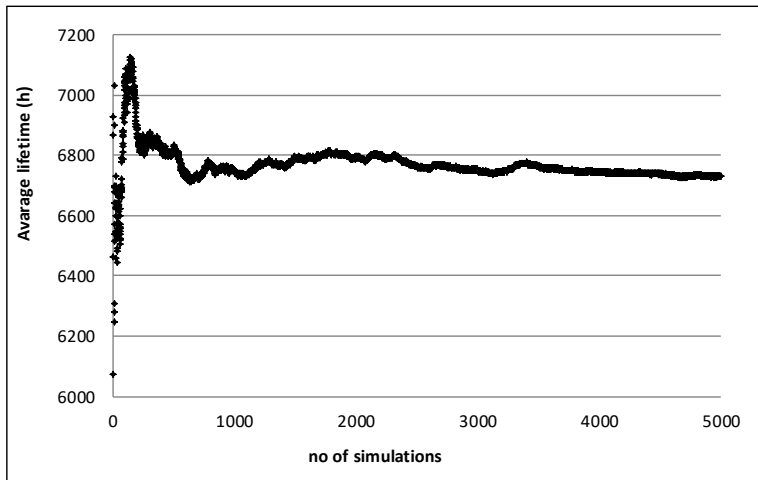
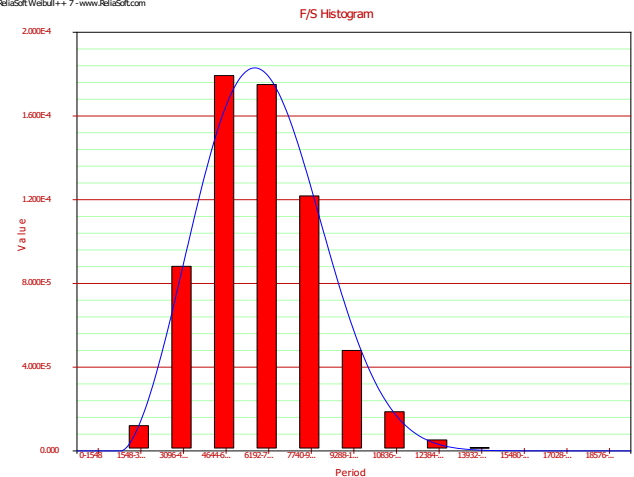
## Background

Fuel Cells represent a new technology for zero-emission energy conversion and power generation. One of the factors which provide a barrier to widespread adaptation is their poor reliability



Voltage threshold	Average lifetime	Variance	Weibull parameters
3.8	6723	2048	$\beta = 2.7984; \eta = 5752; \gamma = 1605$
3.6	9227	2403	$\beta = 2.8846; \eta = 6998; \gamma = 2986$
3.4	11178	2610	$\beta = 3.4574; \eta = 8781; \gamma = 3281$
3.2	12800	2886	$\beta = 2.936; \eta = 8650; \gamma = 5089$
3.0	14246	3012	$\beta = 3.5257; \eta = 102256; \gamma = 5037$

ReliaSoft Weibull++ 7 - www.ReliaSoft.com



## Objectives

To develop a modelling approach for the reliability performance analysis and lifetime prediction of fuel cell systems including the stack and the supporting balance of plant

