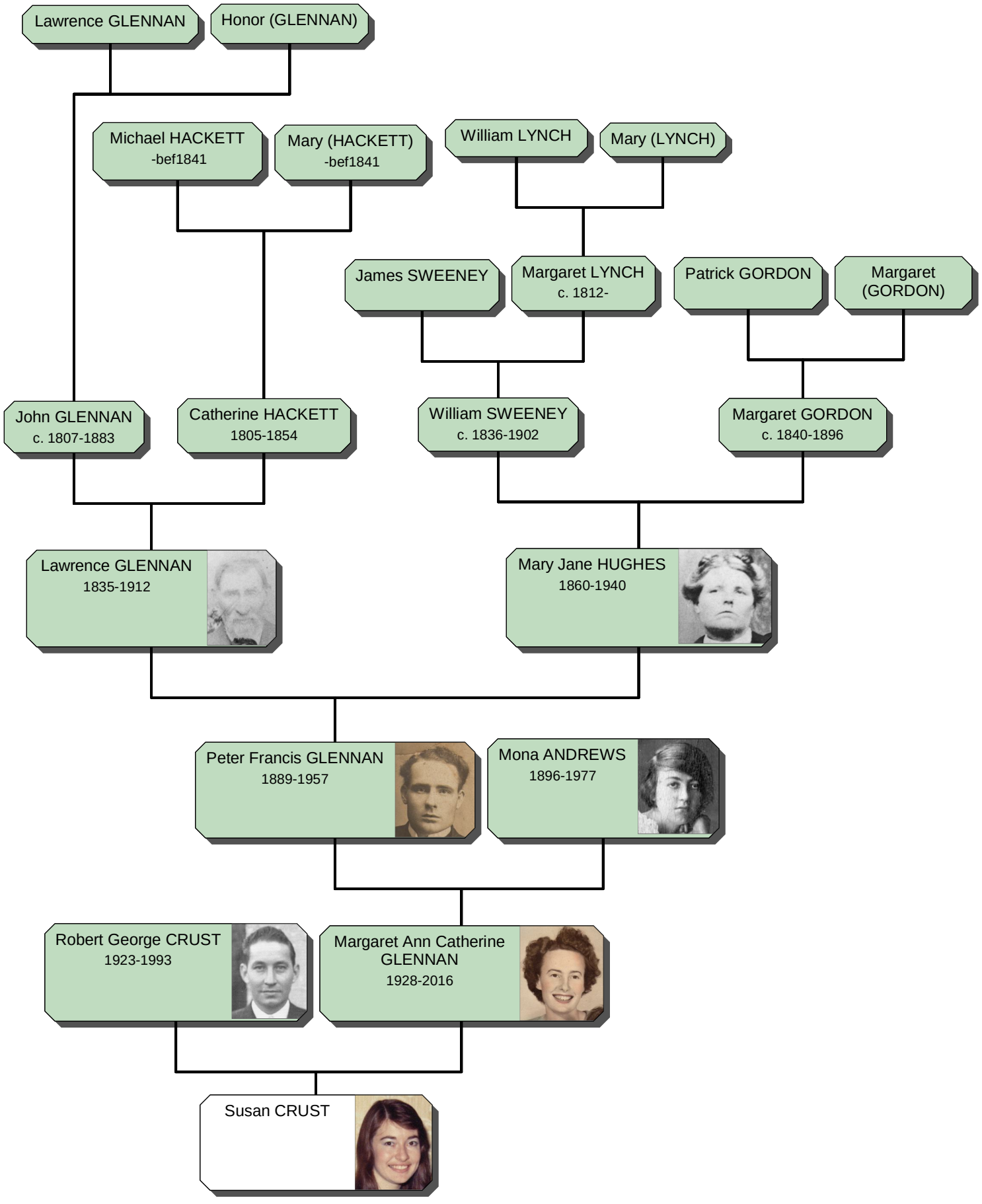Maternal Side : GLENNAN and HUGHES