A graph-pair of order $t$ is two non-isomorphic graphs $G$ and $H$ on $t$ non-isolated vertices for which $G \cup H \cong K_t$ for some integer $t \geq 4$. Given a graph-pair $(G, H)$, we say $(G, H)$ divides some graph $K$ if the edges of $K$ can be partitioned into copies of $G$ and $H$ with at least one copy of $G$ and at least one copy of $H$. We will refer to this partition as a $(G, H)$-multidecomposition of $K$. In this talk, we consider the existence of multidecompositions of the complete graph into graph-pairs of order 4 and 5 with various leaves. (Received August 30, 2005)