The synthesis of various LMR(OH) compounds (M= Al, Ga, Ge, Zr) are in preparation. These systems are ideal precursor for the preparation of compounds containing the heterobimetallic units such as Al(Et)-O-RE (RE= lanthanides). An example of a germylene derivative is shown in the Figure.

The application of the oxygen bridged heterobimetallic compounds in ethylene and ring opening polymerization is under investigation.