BRIDGED-RING N-HETEROCYCLES VIA OXIME -> NITRONE CYCLOADITION CASCADES

H. Ali Dondas\textsuperscript{a} and Ronald Grigg\textsuperscript{b}

\textsuperscript{a}. Mersin University, Science and Arts, Faculty, Chemistry Department, Mersin-TURKEY
\textsuperscript{b}. School of Chemistry, The University of Leeds, LS2 9JT, Leeds-ENGLAND.

Introduction
As part of an ongoing research program developing new cascade reaction\textsuperscript{1-3} we now report our work with bridged-ring forming cyclisations creating bicyclo ring systems occur in good to excellent yield.

Discussion
Bridged ring N-heterocycles were prepared from oximes via phenylselenyl bromide induced and 1,3-dipolar cycloaddition reaction using NMM as dipolarophile (Scheme 1). The stereochemistry of the cycloadduct were determined by n.O.e and 2D-COSY studies.

Conclusion
Electrophile induced bridged-ring forming cyclisations creating bicyclo-[3.3.1]- and bicyclo-[3.2.1]-ring systems occur stereo-, regio- and facially specifically in good to excellent yield.

References