TANDEM FRAGMENTATION/OLEFINATION REACTION AND APPLICATION IN NATURAL PRODUCT SYNTHESES. Tung T. Hoang, Gregory B. Dudley, Department of Chemistry and Biochemistry, Florida State University, 95 Chieftan Way, Tallahassee FL 32306.

Abstract: 1,6-Enynes are important intermediates in organic synthesis and they are not easy to make, especially those connected with a neopentylchain. Herein we describe a simple, general method to make 1,6-enynes in three steps from commercially available materials. The sequence includes a tandem fragmentation/olefination of vinylogous alcohol triflate **1** . The utility of this new tandem reaction was demonstrated by setting it as a divergent starting point to synthesize alcyopterosinA, hirsutene, and illudol, with applications to other sesquiterpenes planned.