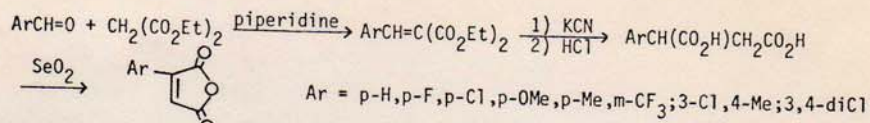


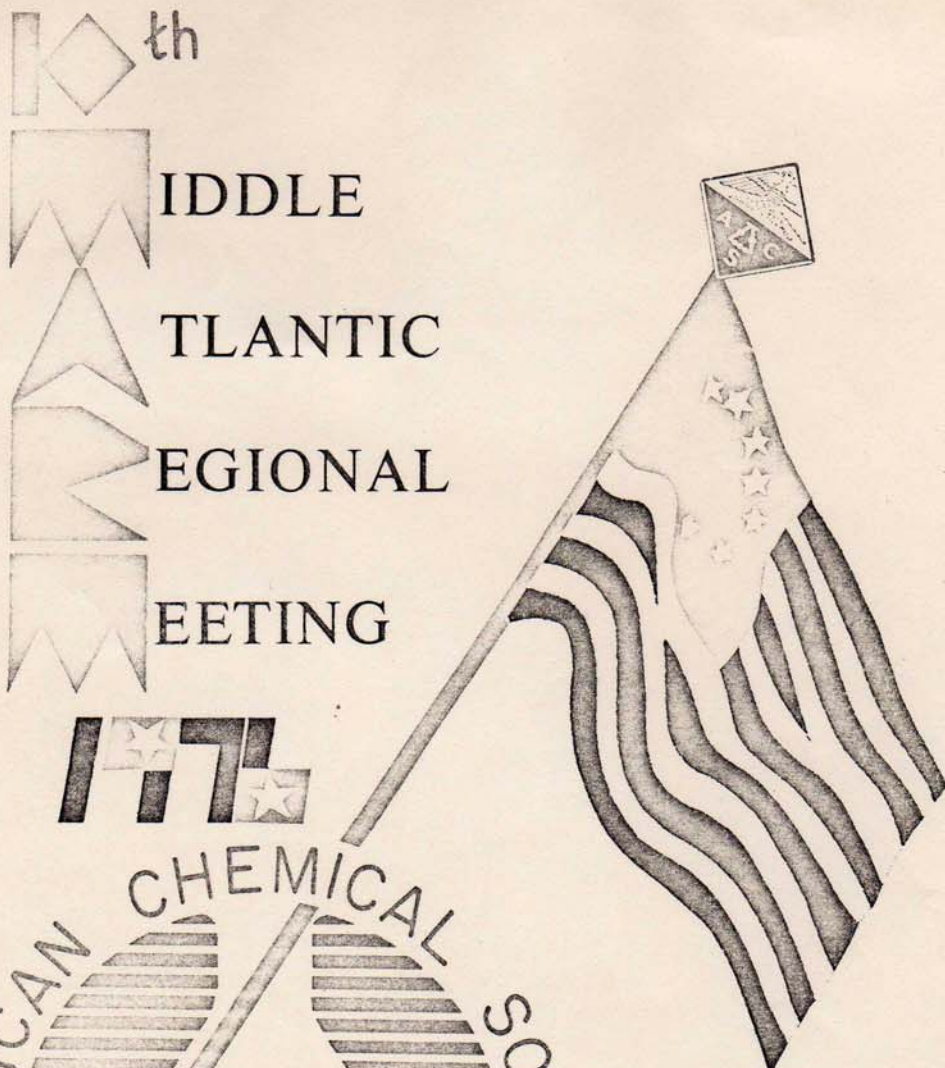
10 SYNTHESIS AND REACTIONS OF ARYLMALEIC ANHYDRIDES.
 Mark Lenhart, Alice Maragliano, John H. MacMillan, and Stephen Washburne, Department
 of Chemistry, Temple University, Philadelphia, PA 19122.

By a sequence involving Knoevenagel condensation, Michael addition of cyanide, hydrolysis, and selenium dioxide oxidation, a series of eight aryl maleic anhydrides were prepared in excellent overall yield.



The regioselectivity of reaction of these anhydrides with various nucleophilic species, e.g. Me₃SiN₃, NH₃, and PhNH₂ was investigated. Except for a few cases, the nucleophile attacks the more hindered carbonyl, in a reaction controlled by electronic rather than steric factors.

S. WASHBURN



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