

## Alexander J. Wagner

Chemistry<sup>1</sup> and Biochemistry<sup>2</sup>,  
<sup>1</sup>Institute of Technology and <sup>2</sup>College  
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*Mentor:* Professor Thomas R. Hoye,  
Gregory H. Hanson, Ph.D.  
Department of Chemistry

*Revisiting the flash vacuum pyrolysis  
of spiro[5.6]dodeca-1,4,9-trien-3-one*

Over twenty years ago, Jones and coworkers reported<sup>3</sup> a flash vacuum pyrolysis study of spiro[5.6]dodeca-1,4,9-trien-3-one, a reaction that yielded three structurally isomeric products. We have had occasion to revisit the structural assignment of two of those compounds. We will present the results of our studies, which include a modified and improved synthesis of the substrate spiro[5.6]dodeca-1,4,9-trien-3-one, an extensive spectroscopic analysis of the products from Jones' pyrolysis, and a new proposed mechanism for the formation of those products.

<sup>3</sup>Murray, D. F.; Baum, M. W.; Jones, Jr., M. *J. Org. Chem.* **1986**, *51*, 1-7.



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