

*Donahaye, E.J., Navarro, S., Bell, C., Jayas, D., Noyes, R., Phillips, T.W. [Eds.] (2007) Proc. Int. Conf. Controlled Atmosphere and Fumigation in Stored Products, Gold-Coast Australia. 8-13th August 2004. FTIC Ltd. Publishing, Israel. p. 501*

## **A MODERN FUMIGATION ODYSSEY**

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### **ABSTRACT**

The post harvest fumigation market has experienced incredible changes. A revolution in phosphine fumigants, phosphine application procedures, development of sulfuryl fluoride and movement toward reducing fumigation need have all contributed to intense market volatility.

#### **Modern Phosphine**

We have adapted this once viewed specialty [cylinderized phosphine] product to mainstream phosphine applications. Through new application methods we are able to maximize product efficiencies, safety enhancements and flexibility. Most skeptics have been won over and better fumigations are a result.

#### **Modern Sulfuryl Fluoride**

A fumigant tool recently made available to post harvest fumigation sector. Sulfuryl fluoride's unique application methodology and extreme versatility will make this product the most important fumigant currently available. Sulfuryl fluoride's inorganic nature, molecular dynamics, cylinderized package and relatively non-corrosive behavior will bring it to the forefront of our infestation control programs.

#### **Surviving the hostility...**

The timeliness of these new post harvest fumigants in the shadow of the elimination of most methyl bromide uses have ensured effective and even improved control measures for agricultural resources.

This paper will review our experiences with mainstreaming these new products. We will provide the practical successes, failures and projection to future commercial fumigation frontiers.