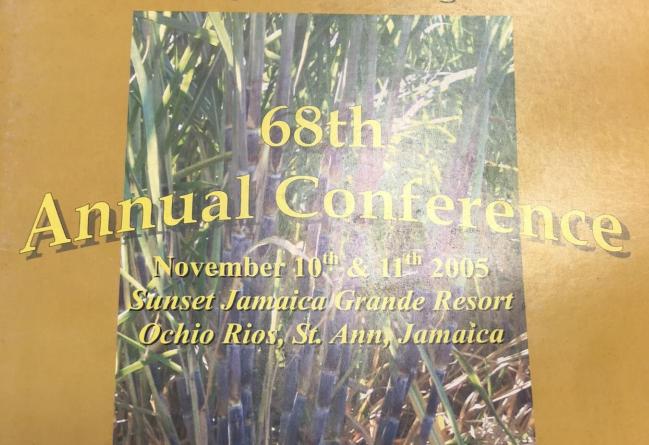
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The Jamaica Association of Sugar Technologists



"A Sugar Cane Industry for Janaica"









# The Jamaica Association of Sugar Technologists



## 68th Annual Cont

November 10<sup>th</sup> & 11<sup>th</sup>, 2005 **Sunset Jamaica Grande Resort**Ochio Rios

St. Ann, Jamaica



### THE JAMAICA ASSOCIATION OF SUGAR TECHNOLOGISTS

68th Annual Conference Sunset Jamaica Grande Resort Ocho Rios, St. Ann

#### PROGRAMME OF EVENTS

#### Friday, November 11, 2005

#### Joint Agricultural and Factory Sectional Meeting

8:00 am – 8:30 am	Registration Session Chairman	Dr. Earle Roberts
8:30 am – 9:00 am	An Environmental Code of Practice for Jamaica's Sugar Cane Industry	Wars. Elaine Manning - SIRI
9:00 am – 9:40 am	Report on the XXV International Society Of Sugar Cane Technologist Conference and Enhance Sugar Recoveries at Application	Mr. T. Falloon - SIRI Mr. N. Grimes - Appleton
9:40 am - 10:10 am	Impact of the EU's Proposed Price Reduction on Cane Profitability	Mr. C. F. Woolery - SIRI
10:10 am – 10:45 am	COFFEE BREAK Session Chairman	Vir. R. Karl James
10:30 am – 12:00 am	69th Annual General Meeting of Annual	of the Association
Agricultural Sectional Management Agricultural M		
12:00 pm -12:30 pm	Soil Test Assessment for Local Sugar Cane Soils: Standard Adequacies Employed at Sugar Industry Research Institute	
12:30 pm - 2:00 pm	LUNCHEON BREAK	
	Session Chairman	Mr. Ian Maxwell
2:00 pm - 2:30 pm	Tillage Practice to Reduce Fuel Consumption	Mr. K. Chandon Mr. L. Agra - SIRI
2:30 pm - 3:00 pm	Reflections on Different Aspects of Sugar Cane Variety Development in Jamaica	Mr. M. Bennett-Eusy
:00 pm - 3:30 pm	Biological Control of the Sugar Cane Stalk Borer Diatraea saccharalis Fabricius (Lepid:Pyralidae) in the Caribbean	Mr. T. Falloon - State

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Awards Banquet 6:30pm

ByM. Bennett-Easy Sugar Industry Research Institute

#### Abstract

Cane yields have fluctuated in some sections of the industry, at a critical time when various approaches contemplated to widen the range of by-products that can economically be exploited to a including ethanol production are predicated. Cane yields have to widen the range of by-products that can economically be exploited from sugarcane.

Sugar Cane yields have to widen the range of by-products that can economically be exploited from sugarcane.

However, despite marked improvement to the industry increasing sugarcane. sugar contemplates contemplated are production are predicated on the industry increasing sugar cane production are predicated on the industry increasing sugar cane production are sent levels. However, despite marked improvements in the inventory of page are sent levels. these initiatives literatures. However, despite marked improvements in the inventory of new commercial varieties and shove present levels. However, despite marked improvements in the inventory of new commercial varieties and shove present levels. these present levels.

The production of a high-technology overhead irrigation infrastructure in sections of the commercial varieties and introduction plains, productivity continues to fluctuate. Productivity indices: tc/ha and tc/ha because in the inventory of new commercial varieties and introduction plains, productivity continues to fluctuate. Clarendon plants, Pe-Vale area during period 1995-2004, but in the Wet West, Wet East and Irrigated areas vields have shown wide various, and present trends are pointing to yield deal. in the St. Thomas in the St. T

given pride of place.

at

This paper examines and discusses optimizing crop yields by using produced varieties to meet the industry's production

Key words: Sugar cane varieties, pro

In order to achieve high and sustainable levels of production and productivity an integrated approach involving order to action of varieties to optimize yields, improve cultivation and management techniques should be better utilization of place.

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ee aspects of variety development programme and suggest ways of on data as a guide to adjust variety policies and exploit the potential of

netivity, production, crop yield, production goals

Biological control of the agar cane stalk borer Diatraea saccharalis Fabricius (Lead: Pyralidae) in the Caribbean

> By Trevor Falloon Sugar Industry Research Institute

#### Abstract

Some 18 species of Diatraea, the stalk boring pyralid moth, formerly subsisting on corn and other grasses, shifted to attacking sugar cane following its introduction to the Caribbean region by Spanish explorers towards the end of the 15th Century. Other stalk borer species, such as Castniomera licus and Eoreumea loftini add to the complex that attack sugar cane in varying numbers and intensities but D. saccharalis is generally regarded as the most important pest of the region. The biological approach to control began in 1915 when Lixophaga diatraeae was taken from Cuba to Louisiana. Since then stalk borer control in the Caribbean has been almost exclusively by biological methods. Initial approaches placed heavy emphasis on egg parasitoids of the Trichogramma spp. This later gave way to the larval parasitoids, such as L. diatraeae, Lidella minense and Paratheresia claripalpis, endemic to different zones within the region, and exchanged between industries. In due course biological control grew to become big industry with countries such as Cuba establishing scores of laboratories for generating natural enemies. The braconid, ('otesia flavipes, imported from India in the 1960's has since become the most successful parasitoid and is established in most of the industries. There are signs of negative interaction between C. flavipes and native tachinid parasitoids. Most industries record noteworthy declines in the control of the industries record noteworthy declines in levels of internode damage, with several such as Barbados, Venezuela Guyana and St Kitts now reporting levels below the economic damage threshold of 5%.

Keywords: Biological control, Lixophaga diatraeae, Cotesia flavipes, antagonism