

**Entry No. IRRC-0454**

Category	: International Rice Research Conference
Select Theme	: Sustainable and equitable farming systems
Endorsement email	:
Keyword 1	: Weed management
Keyword 2	: Pest management
Keyword 3	: Sustainable management practices
Title of Entry	: The Arylpicolinates, a new Generation of Auxinic Herbicides bringing solutions for Effective and Sustainable Weed Management in Rice and other Cropping Systems
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: Effective weed management in cropping systems around the world is a key factor to ensure the production of healthy crops and expected yields. Food supply, the most basic human need, today and in the future, strongly depends on a comprehensive integrated pest management, and weeds are an increasing problem, enhanced by labor and water scarcity and growing herbicide resistance issues. The discovery and development of the first synthetic auxin herbicides in the early 1940's represented the start of the use of synthetic herbicides in agriculture that have since become the dominant part of weed management in crops. 2,4-D, a

phenoxy-carboxylic acid, was the first synthetic auxin herbicide to be widely used in grass crops and was the first in a series of different classes of synthetic auxinic herbicides, including the benzoic acids, the pyridine-carboxylic acids, the pyridyloxy-carboxylic acids, the quinolone-carboxylic acids, the pyrimidine-carboxylic acids and most recently, the arylpicolinate discovered in the late 1990's. Corteva Agriscience™, Agricultural Division of DowDupont™, discovered and developed two novel arylpicolinate synthetic auxin herbicides, Arylex™ active (halauxyfen-methyl) and Rinskor™ active (florpyrauxyfen-benzyl), products with desirable attributes in terms of high activity in a broad and differentiated spectrum of weeds in several cropping systems. The products are applied at low use rates and rapidly degrade in the environment, with favorable toxicology, ecotoxicology and environmental fate profiles. Today Rinskor is a new tool for weed management in Rice, controlling Echinochloa spp. and many important broadleaf and sedge weeds, with differentiated characteristics and attributes that will help rice producers globally to improve rice yields and maximize food production for the growing world population. ™ Trademark of The Dow Chemical Company (“Dow”) or E. I. du Pont de Nemours and Company (“DuPont”) or affiliated companies of Dow or DuPont.

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