

# 16<sup>th</sup> IUFoST

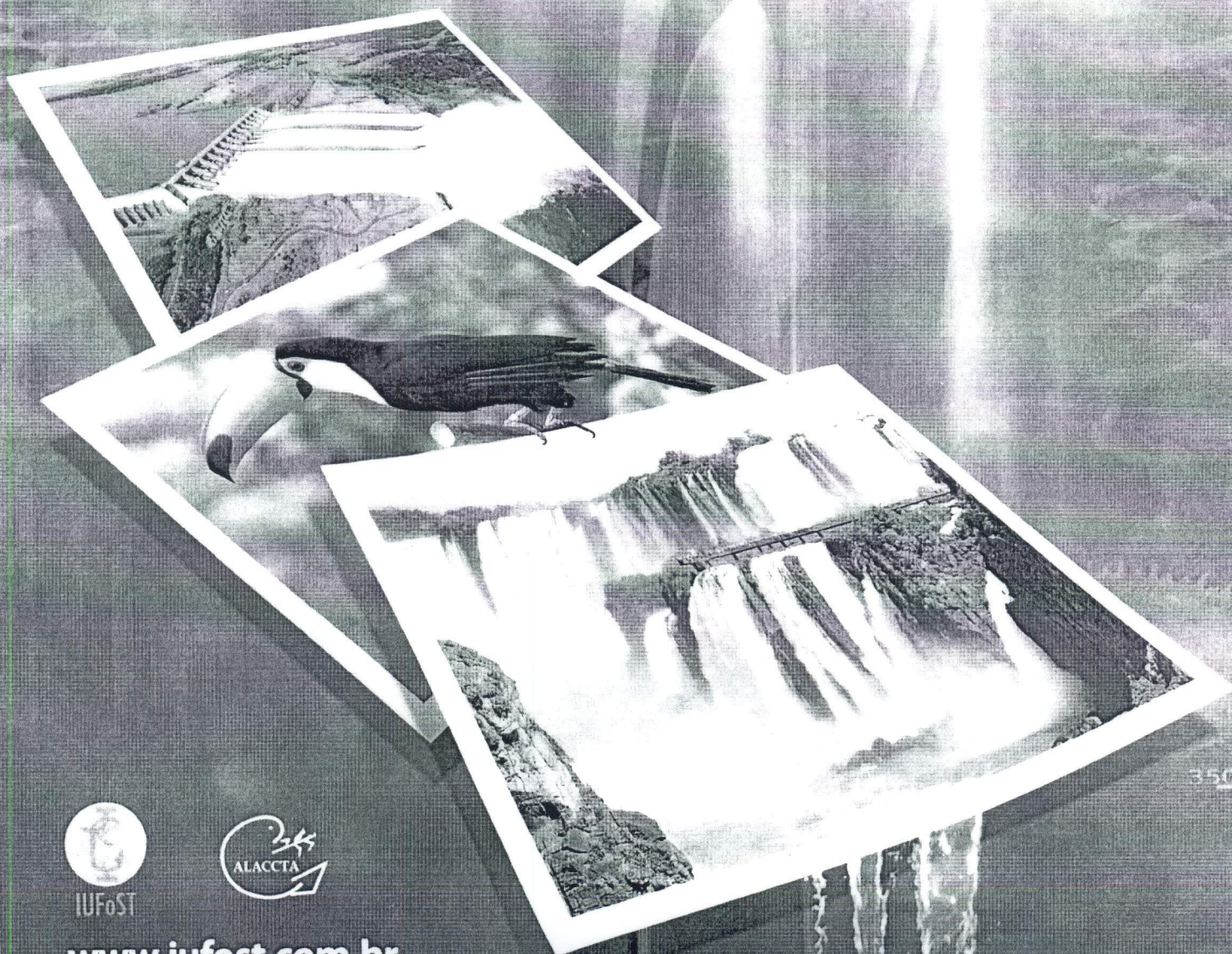
**World Congress of Food Science and Technology**  
Addressing Global Food Security and Wellness through Food Science and Technology

XVII Latin American Congress

## General Information

August 30 - September 5, 2015

Foz de Iguaçu, Paraguay



350



IUFoST



[www.iufost.com.br](http://www.iufost.com.br)



## ACCEPTANCE AND PURCHASE INTENT OF APPLES COATED WITH EDIBLE COATINGS OF ZEIN IN DIFFERENT FORMULATION

Jéssica Adriana de Jesus<sup>1</sup>, Carolina Ibelli Bianco<sup>1</sup>, Odílio Benedito Garrido de Assis<sup>2</sup>, Douglas Britto<sup>2</sup>, Marta Helena Fillet Spoto<sup>3</sup>, Marta Regina Verruma-Bernardi<sup>4</sup>

<sup>1</sup>Course of Bachelor's degree in Biotechnology - Federal University of São Carlos - UFSCar, Rodovia Anhanguera, Km 174 – SP 330, 13600-970, Araras, São Paulo, Brazil; <sup>2</sup>Embrapa Agricultural Instrumentation - São Carlos, São Paulo, Brazil; <sup>3</sup>Department of Agribusiness, Food and Nutrition - ESALQ/USP, Piracicaba, São Paulo, Brazil; <sup>4</sup>Department of Agro-industrial Technology and Socio-economics Rural - Federal University of São Carlos – UFSCar, Araras, São Paulo, Brazil; E-mail: jessica.dolly@hotmail.com

In order to prolong the shelf life of fruits and reduce the damage caused by the breathing process, edible coatings have been used. The objective of this study was to evaluate the acceptance for appearance, odor and visual texture, and purchase intent of "Fuji" apples coated with edible coatings of zein (corn proteins). Formulations were evaluated in 4% (by weight) of proteins 1 and 2% oleic acid (OA) under refrigerated temperature (5°C) for a period of five weeks. Fifty judges performed three analyzes for each test, every twelve days. It was used in acceptance testing, nine-point hedonic scale (1-dislike extremely to 9-like extremely) and purchase intent test, five-point scale (1-certainly would not buy and 5-certainly would buy), with results submitted to ANOVA. The fruit coated with 1 and 2% OA received lower average of purchase intent in the application of this test, with a final average of 3,62 and 3,25 respectively, but differ statistically ( $p \leq 0,05$ ) from control fruits with 4,25 intention. When it comes to acceptability, there wasn't any significant difference between the fruits with coverage for odor and texture attributes. For general appearance only in the third week the fruits did not differ at 1% of the without coverage. Although fruits without coverage had presented the highest averages for purchase intent among the fruits with coverage, those fruits to 1%OA had more potential in extending the life of "Fuji" apples, as the nearest to their average fruit without coverage.