



# SEC's Feed Milling Training Program – MENA



**SEC's 6<sup>th</sup> Feed Milling Training Program**  
**Thursday, July 24<sup>th</sup>, 2025**  
**1:00 PM to 7:00 PM Cairo Time**



**SEC's Sixth Feed Milling Training Course - MENA**  
**INTERNATIONAL GRAINS PROGRAM INSTITUTE**  
**Department of Grain Science and Industry, Kansas State University**

<b>Time</b>	<b>Session</b>	<b>Speakers</b>
<b>1:00 PM</b>	<b><i>Opening Welcome</i></b>	
	<b><i>Mousa Wakileh, Center Lead, Soy Excellence Center - Regional Consultant, USSEC</i></b>	
	<b><i>Carlos A. Campabadal Ph.D., Outreach Specialist in Feed Manufacturing &amp; Grain Storage &amp; Management International Grains Program, Department of Grain Science and Industry, Kansas State University</i></b>	
	<b><i>Wilmer Pacheco, Ph.D., Extension Specialist and Associate Professor, Department of Poultry Science, Auburn University</i></b>	
<b>1:15 PM</b>	<b>Grain Storage for Middle East and North Africa Weather Conditions</b>	<b><i>Carlos A. Campabadal Ph.D.</i></b>
<b>2:00 PM</b>	<b>Pest Control &amp; Fumigation in Feed Mills</b>	<b><i>Carlos A. Campabadal Ph.D.</i></b>
<b>2:45 PM</b>	<b>Key Considerations to Prevent and Control Mycotoxins</b>	<b><i>Carlos A. Campabadal Ph.D.</i></b>
<b>3:15 PM</b>	<b>Enhancing Feed Quality with Post-Pellet Liquid Application Technologies</b>	<b><i>Wilmer Pacheco, Ph.D.</i></b>
<b>4:00 PM</b>	<b>From Mill to Farm: Streamlining Load-Out and Feed Delivery Operations</b>	<b><i>Wilmer Pacheco, Ph.D.</i></b>
<b>4:45 PM</b>	<b>The Power of Communication: Enhancing Feed Quality and Poultry Performance</b>	<b><i>Wilmer Pacheco, Ph.D.</i></b>
<b>5:15 PM</b>	<b>Open Discussion, Q&amp;A</b>	<b><i>All Participants</i></b>
<b>6:45 PM</b>	<b>Closing Remarks</b>	<b><i>Carlos A. Campabadal Ph.D. Wilmer Pacheco, Ph.D. Mousa Wakileh</i></b>



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**Thursday, July 24th, 2025:**

1:15 PM – Grain Storage for Middle East and North Africa Weather Conditions

2:00 PM – Pest Control & Fumigation in Feed Mills

2:45 PM – Key Considerations to Prevent and Control Mycotoxins

**Carlos A. Campabadal, PhD,**

*Outreach Specialist in Feed Manufacturing & Grain Storage & Management*

*International Grains Program, Department of Grain Science and Industry, Kansas State University*

Expertise Grain quality, storage and processing and feed manufacturing engineer. Professional Organizations and Affiliations Grain Elevator and Processing Society (GEAPS) American Society of Agricultural and Biological Engineers (ASABE) Carlos is a faculty member of the Department of Grain Science and Industry that works at the International Grains Program Institute (IGP) as an extension specialist focusing on outreach in the areas of grain storage, quality and processing, U.S. grain grading and export systems, and feed manufacturing. He also leads the Stored Product Protection Research group and is part of the Feed Technology group of the Department of Grain Science and Industry where he is also serves as the State Extension Leader. He is very active in international development with several projects with USAID and USDA in Central America and in Africa. He was born and raised in Costa Rica, Central America. Carlos obtained his doctoral degree in Agricultural and Biological Engineering at Purdue University. His research topic was focused on non-chemical alternatives for stored product protection. At Purdue University, he was part of the Post-Harvest Education and Research Center (PHERC) where he participated in several post-harvest and grain drying projects. He obtained his master's degree in Agricultural Engineering at the University of Illinois. His research topic was focused on the recovery of corn proteins through a foaming process. Before, his graduate studies, he worked in his family feed mill company for 3 ½ years as a process and maintenance engineering. Also, he had previous experience in animal farm management in beef cattle and swine farms. Carlos has traveled throughout Latin America, Africa, Asia, and Europe as a technical consultant, translator, and speaker in several short courses and seminars in the areas of grain storage and feed manufacturing for U.S. Grains Council, U.S. Soybean Export Council, U.S. Wheat Associates, USDA, WISHH, and private companies. He has also presented his research at several scientific and professional conferences and has several publications in scientific journals. He is still involved in his family feed manufacturing and farm operation business.



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## Thursday, July 24<sup>th</sup>, 2025:

3:15 PM – Enhancing Feed Quality with Post-Pellet Liquid Application Technologies

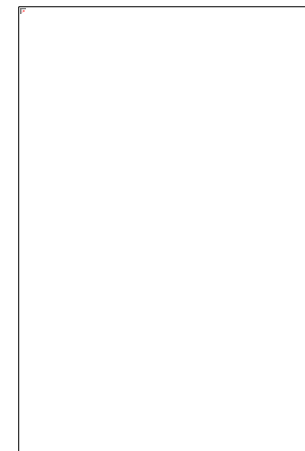
4:00 PM – From Mill to Farm: Streamlining Load-Out and Feed Delivery Operations

4:45 PM – The Power of Communication: Enhancing Feed Quality and Poultry Performance

## Dr. Wilmer Pacheco,

*Extension Specialist and Associate Professor in the Department of Poultry Science at Auburn University*

Wilmer Pacheco is an Extension Specialist and Associate Professor in the Department of Poultry Science at Auburn University. He received a BS in Food Science from Zamorano in Honduras in 2005, MS in poultry science and Ph.D. in nutrition and physiology from North Carolina State University. Before starting graduate school, Dr. Pacheco worked with Smithfield Foods and was responsible to oversee the production of around 10,000 tons of pelleted feed each week. Throughout his tenure at Auburn University his research has been focused on understanding the interrelationships between feed processing, nutrition, and physiology on broiler performance, nutrient digestibility, microbiome modulation, and processing yield. His team has utilized *Enterococcus faecium* as surrogate to measure *Salmonella* stability during conditioning and pelleting, which has helped the poultry industry to control *Salmonella* spp. without damaging heat labile nutrients. He has published 18 peer-reviewed papers, 6 proceedings and symposium papers, 62 abstracts and has been invited speaker to more than 12 countries. Dr. Pacheco provides technical support in nutrition and feed processing to small and large companies in the United States and around the globe. He has written 67 technical bulletins particularly in *Feedstuffs Magazine*, which is the leading source of news for animal agriculture in the United States. Dr. Pacheco is a lead instructor for the Animal Food Rule of the Food Safety Modernization Act, has trained and certified over 100 preventive control qualified individuals, has served in 22 graduate students committees, and has mentored 19 visiting scholars from 11 countries. farms.







# SEC's Feed Milling Training Program – MENA



## Open Discussion, Q&A



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# THANK YOU