

**65<sup>th</sup> North Central Avian Disease Conference**  
**March 17-18, 2014**  
**St. Paul Rivercentre, St. Paul, MN**

**Monday, March 17, 2014**

**7:30 – 8:30 AM**      **Registration & Continental Breakfast**  
**8:30 – 8:35**        **Welcome and Introduction** – Program NCADC Chair  
**8:35 – 8:50**        **Welcome** – Mr. Steve Olson, Executive Director of:  
Midwest Poultry Federation  
Minnesota Turkey Growers Association  
Chicken & Egg Association of Minnesota

**Scientific Presentations**

***Moderator: Ching Ching Wu***

**8:50 – 9:10**      **Yuko Sato\***  
Necrotizing and hemorrhagic enteritis and hepatitis in commercial layers in Indiana

**9:10 – 9:30**      **Mahmoud Ibrahim**  
Toward the development of broadly reactive influenza vaccine for the control of highly pathogenic avian influenza H5N1 in Egypt

**9:30 – 9:50**      **Jacqueline Nolting**  
Challenges with the detection and characterization of avian-origin influenza A viruses from wild-waterfowl

**9:50 – 10:10**    **Sunil Mor**  
Molecular characterization of newly isolated turkey arthritis reoviruses

**10:10 – 10:30**   **Tamer Sharafeldin\***  
Long term pathogenicity of turkey arthritis reovirus (TARV) in turkeys

**10:30 – 10:50**   **Break**

**10:50 – 11:10**   **Oluwakemi Osunderu\***  
The socio-economic impact of vaccine failure on poultry farms in Nigeria

**11:10 – 11:30**   **Sandra Aehle**  
Early vaccination for protection against salmonella infections of poultry

**11:30 – 11:50**   **Hector Cervantes**  
Salmonella control programs in the USA

**11:50 – 12:00**   **Question and Answer Session for Speakers**

**12:00 – 1:00 PM**    **Lunch**                      **Generously sponsored by Alltech**

***Moderator: Patricia Wakenell***

**1:00 – 1:20**      **Alexander Weaver**  
Mycotoxins: Effect on immunity and performance and developing an effective program to manage them

\*Paper eligible for B. S. Pomeroy Award

<b>1:20 – 1:40</b>	<b>Robert Owen</b>	The effectiveness of a <i>Bacillus licheniformis</i> probiotic on the reduction in <i>Salmonella heidelberg</i> shedding and colonization in broiler chickens
<b>1:40 – 2:00</b>	<b>R. Mick Fulton</b>	Why biosecurity is important in the duck industry
<b>2:00 – 2:20</b>	<b>Mia Kim-Torchetti</b>	2013 review of avian influenza viruses detected in the United States
<b>2:20 – 2:40</b>	<b>Hayet Abbassi</b>	<b>TBD</b>
<b>2:40 – 3:00</b>	<b>Break</b>	<b>Moderator: Chang-Won Lee</b>
<b>3:00 – 3:20</b>	<b>Patricia Wakenell</b>	The impact of urban and backyard poultry on commercial operations
<b>3:20 – 3:40</b>	<b>Dale Lauer</b>	Lessons learned on avian Influenza table top planning in Minnesota
<b>3:40 – 4:00</b>	<b>Daniel Karunakaran</b>	Control coccidiosis in turkeys - new approaches
<b>4:00 – 5:00</b>	<b>Disease Round Table</b>	
<b>5:00 – 5:40</b>	<b>NCADC Business Meeting</b>	
<b>6:00 – 8:00</b>	<b>Awards Banquet</b>	<b>Generously sponsored by Alltech and Maple Leaf Farms</b>

**Tuesday, March 18, 2014**

### **Poultry Management Symposium**

**Moderator: R. Mick Fulton**

<b>8:00 – 8:45</b>	<b>Brian Wilcox</b>	How to make chicks happy (lighting)
<b>8:45 – 9:30</b>	<b>Ken Lamm</b>	Managing ventilation in layer houses
<b>9:30 – 10:15</b>	<b>Brian Fairchild</b>	Optimizing poultry house ventilation in hot weather
<b>10:15 – 10:30</b>	<b>Break</b>	
<b>10:30 – 11:15</b>	<b>Anthony Quant</b>	Feed issues
<b>11:15 – 12:00</b>	<b>Jim Arends</b>	Insect management challenges - now and in the near future
<b>12:00 – 12:15</b>	<b>Panel</b>	Questions and Answers

**NCADC & MPF Joint Symposium on "Poultry Nutrition and Health" (1:30 – 5:00)**

**Dr. Sheila Purdum, University of Nebraska, Chairperson**

<b>1:30 – 2:15</b>	<b>Thomas Elam</b>	Commodities for poultry
<b>2:15 – 3:00</b>	<b>Bob Loar</b>	Metabolizable energy evaluation of ingredients in the poultry ration and performance criteria
<b>3:00 – 3:15</b>	<b>Break</b>	
<b>3:15 – 4:00</b>	<b>Nelson Ward</b>	Enzymes – beyond phytase
<b>4:00 – 4:45</b>	<b>Louis Romero</b>	Advances in the use of enzymes and direct-fed microbials in poultry nutrition