Theme: Impact of Amino Acid Formulation on Performance and Nitrogen Efficiency in Dairy Cows

1:00 - 1:10 PM  Welcome and Introduction of Speakers
1:10 – 1:30 PM  Current Dairy Industry Economics – John Geuss
1:30 – 2:15 PM  Maximizing Milk Components and Metabolizable Protein Utilization through Amino Acid Formulation - Dr. Chuck Schwab
2:15 – 3:00 PM  Challenges of Predicting Metabolizable Lysine Content of Ingredients – Dr. Sarah Boucher
3:00 – 3:15 PM  Break
3:15 – 4:00 PM  The Role of Amino Acid Nutrition in Reproduction of Dairy Cows – Dr. Jose Santos
4:00 – 4:45 PM  Formulating for Amino Acids in CNCPS – Present and Future – Dr. Mike Van Amburgh
4:45 – 5:15 PM  Summary and Q&A Session – Dr. Brian Sloan
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tr>
<td>1939</td>
<td>Alimentation Equilibrée de Commentry (AEC) is founded.</td>
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<td>1945</td>
<td>Dry Methionine production.</td>
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<td>1971</td>
<td>AEC became the Animal Nutrition Division of the Rhone Poulenc group.</td>
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<td>1988</td>
<td>International development strategy – corporate headquarters transferred to Antony.</td>
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<td>Smartamine production launched.</td>
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<td>1994</td>
<td>Start up of a new liquid Methionine plant at Institute (West Virginia, USA).</td>
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<td>2000</td>
<td>Merger between Rhone Poulenc and Hoechst to create Aventis Animal Nutrition.</td>
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<td>2002</td>
<td>Creation of Adisseo in April 2002 by CVC Capital Partners and Management.</td>
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<td>2003</td>
<td>The CERN (Centre of Expertise and Research in Nutrition) was formed in Commentry.</td>
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<td>2004</td>
<td>Methionine production capacity was increased by 25%.</td>
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<td>2006</td>
<td>Adisseo was incorporated into the Bluestar International group.</td>
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<td>Creation of CINABio, a biotechnology R&amp;D centre in Toulouse.</td>
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Adisseo: an international sales organization

Market leader, supplying 2,500 customers in over 100 countries.
Adisseo: a benchmark partner for the industry

- A worldwide company:
  - 1,300 employees
  - 5 production sites
  - A worldwide distribution network covering more than 100 countries from 4 regional head offices

- A full range of nutritional solutions meeting our customers’ needs

- Production using advanced and patented technology

Sales for 2008 ~$1.4B

Source: Adisseo estimates
Adisseo: a major producer of methionine in all its forms

Five forms to meet all customers requirements:

- **Rhodimet® AT 88**, D,L-hydroxy-2-méthylthio-4 butanoic acid, a liquid and concentrated source of methionine which is especially suitable for feed mills.


- **Smartamine® M**, a coated form of Rhodimet® NP 99 which provides excellent protection from rumen degradation and complete release in the intestines.

- **MetaSmart®** is a liquid source of bio-available methionine for dairy cows. It is the isopropyl ester of the “hydroxylated” analogue of methionine, also referred to as HMBi for short. The Isopropyl group facilitates absorption across the rumen wall.

- **MetaSmart® Dry** is MetaSmart® absorbed onto a silicon dioxide carrier.
Adisseo: a major producer of ruminant methionine in two forms

Smartamine® MetaSmart®

With Smartamine® and MetaSmart®, Adisseo offers a one-of-a-kind range of methionine for dairy cows.

Smartamine® is an encapsulated form of DL-methionine which is rumen-protected in order to improve metabolizable methionine supply and enhance the protein content of milk.

MetaSmart® provides both metabolizable and rumen methionine for dairy cows, designed to increase Milk volume, Fat and Protein.
The People Make Adisseo

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Cornell Nutrition Conference 2009
Pre-Conference Symposium

Tuesday, October 20
1:00 PM EDT
Doubletree Hotel - Syracuse, NY
Grand Ballroom

Sponsored by: Adisseo

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