



USSEC
U.S. SOYBEAN EXPORT COUNCIL

Transferring Knowledge to U.S. Soy Customers

US SOY
LIVE WEBINAR

June 10th and 11th, 2020
09:00 AM to 03:00 PM
East Europe Time Zone
GMT / UTC + 3

For registration contact:
IChihai@ussec.org



**“APPLIED
FEED MANUFACTURING
AND ANIMAL NUTRITION”**

**ON LINE COURSE LECTURES AND
LIVE PRACTICAL TRAINING IN
COMPOUND FEED MANUFACTURING**

LIVE WEBINAR SPEAKERS



**Jan
van EYS**

USSEC
Greater Europe
Consultant
Paris, France



**Gunnar
LYNUM**

Senior Consultant
Ohio
Soybean Association
USA



**Dejan
MILADINOVIC**

Head of Centre
of
Feed Technology Center
Norwegian University
of Life Sciences,
Norway



**Birger
SVIHUS**

Professor of Poultry
Nutrition
Department of Animal
and Aquaculture
Sciences,
Norwegian University of
Life Sciences, Norway



LIVE WEBINAR SPEAKER'S and ORGANIZER'S LOCATIONS





E # 20160
“APPLIED FEED MANUFACTURING AND ANIMAL NUTRITION”
On Line Course Lectures and Live Practical Training in Compound Feed Manufacturing
-Transferring Knowledge to U.S. Soy Customers -



AGENDA
Tuesday, June 10th, 2020
Bucharest, Romania
East Europe Time Zone: GMT / UTC + 3



DAY ONE		
TIME	ACTIVITY	LEAD
09:15 – 09:30	Live Webinar Opening: Brief Remarks and Introduction of the Speakers	Dr. Iani CHIHAIA <i>Facilitator</i>
09:30 – 09:45	Introduction of U.S. Soy Supply Chain, Differentiating and Building a Preference for U.S. Soy Jim SUTTER, USSEC CEO	USSEC Video Ad
09:45 – 10:15	World and EU Feed Production: Past, Present and Future <ul style="list-style-type: none"> - <i>Introduction: EU28’s Livestock Production and Feed Market</i> - <i>Soy Usage and Critical Role of U.S. Sustainable Soy and Soy Products</i> - <i>Regulatory & FEFAC Policies & Priorities</i> 	Jan van EYS USSEC Paris, France
10:15– 10:45	Future Challenges in Supplying Sustainable Raw Materials for Animal Feed Manufacturing <ul style="list-style-type: none"> - <i>Criteria for Sustainable Animal Feed</i> - <i>Shaping Future Animal Feed</i> - <i>Feed Compass and Raw Material Challenge</i> 	Dejan DRAGAN MILADINOVIC FôrTek Oslo, Norway
10:45– 11:15	The Role of Feed Processing in Animal Production <ul style="list-style-type: none"> - <i>Principles Applied for Feed Processing</i> - <i>Chemical Alterations with Nutritional Consequences due to Processing Animal Feed</i> - <i>Impact of Processing on Feed Intake, Digestive Tract and Health</i> 	Birger SVIHUS NMBU Oslo, Norway
11:15 – 11:50	Weighing and Mixing - an Important Step in Feed Manufacturing <ul style="list-style-type: none"> - <i>Dosing Systems and Weighing in Feed Manufacturing</i> - <i>Continuous and Batch Mixing Systems</i> - <i>5-10 min video demonstration at the end of presentation</i> 	Dejan DRAGAN MILADINOVIC FôrTek Oslo, Norway
11:50 – 12:00	This is U.S. Soy	USSEC Video Ad
CONFERENCE BREAK		
12:30 – 13:20	Grinding - an Essential Part of Feed Processing <ul style="list-style-type: none"> - <i>Principles Applied in Grinding</i> - <i>Effect of Adjustments and Choice of Equipment</i> - <i>Influence of Grinding on Feed Quality</i> - <i>10 min video demonstration at the end of presentation</i> 	Birger SVIHUS NMBU Oslo, Norway
13:20 – 13:40	Steam as a Raw Material in Feed Manufacturing <ul style="list-style-type: none"> - <i>Defining Steam for the feed manufacturing</i> - <i>Steam Quality and its Effect on Processability</i> - <i>Effect of Heat-Treatment on Feed Nutrients</i> 	Dejan DRAGAN MILADINOVIC FôrTek Oslo, Norway
13:40 – 14:10	Steam Conditioning <ul style="list-style-type: none"> - <i>Steam Considerations (quality/pressure)</i> - <i>Steam Conditioning Equipment as the Upstream Process Prior Pelleting</i> - <i>10 min video demonstration at the end of presentations</i> 	Dejan DRAGAN MILADINOVIC FôrTek Oslo, Norway
14:10 – 14:40	U.S. Soybeans: Direct from the Farm to the International Market <ul style="list-style-type: none"> - <i>U.S. Soybean Quality, an update of 2019 and 2020 crops</i> - <i>U.S. Soy Transportation System</i> - <i>U.S. Soy Containerization Advantages</i> 	Gunnar LYNUM Ohio Soybean Association USA
14:40 – 14:55	Questions and Answers Session / Wrap Up	Dr. Iani CHIHAIA <i>Facilitator</i>
14:55 – 15:00	U.S. Soy Growers' Anthem	USSEC Video Ad
End of Day One		





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DAY TWO		
TIME	ACTIVITY	LEAD
09:15 – 09:30	Live Webinar Opening: Brief Remarks and Introduction of the Speakers	Dr. Iani CHIIAIA <i>Facilitator</i>
09:30 – 09:45	What Defines the U.S. Soy Advantage - Quality, Consistency and Security Brent BABB, USSEC Regional Director EU & MENA	USSEC Video Ad
09:45 – 10:15	Conventional Soy Ingredients in Animal Diets: with Focus on U.S. Soy Quality Attributes <ul style="list-style-type: none"> - <i>Non Dehulled SBM, Dehulled Soybean Meal and Soy Hulls</i> - <i>Full Fat Soybeans and Extruded-expelled SBM</i> - <i>U.S. Soy and SBM Quality</i> 	Jan van EYS USSEC Paris, France
10:15 – 11:10	Pelleting: Principles, Equipment, Influence on Feed Quality <ul style="list-style-type: none"> - <i>Principles Applied in Feed Pelleting</i> - <i>Effect of Adjustments and Choice of Equipment</i> - <i>Influence of Pelleting on Feed Quality</i> - <i>10 min video demonstration at the end of the presentation</i> 	Birger SVIHUS NMBU Oslo, Norway
11:10 – 11:50	Cooling and Pellet Quality <ul style="list-style-type: none"> - <i>Cooling essentials</i> - <i>Methods for assessing pellet quality</i> - <i>Factors affecting pellet quality</i> - <i>10 min video demonstration at the end of presentation</i> 	Dejan DRAGAN MILADINOVIC FôrTek Oslo, Norway
11:50 – 12:00	U.S. Soy: Going to Work	USSEC Video Ad
CONFERENCE BREAK		
12:30 – 13:00	Chemical Changes with Nutritional Consequences due to Conditioning and Pelleting Processes: <ul style="list-style-type: none"> - <i>Heat and Moisture Effect on Starch, Proteins and Fiber</i> - <i>Chemical changes to proteins and vitamins with effect on nutritional value</i> 	Birger SVIHUS NMBU Oslo, Norway
13:00 – 13:30	Practical Effects of Particle Size and Feed Form on Growth, Performance and Intestinal Health in Non-Ruminant Animals <ul style="list-style-type: none"> - <i>Feed Form: Mash, Crumbles or Pellets - Advantages and Disadvantages</i> - <i>Mash Feed Quality – Optimum Size and Uniformity of its Particles</i> - <i>Bacteriological Quality, Ingestion, Growth and FCR</i> 	Birger SVIHUS NMBU Oslo, Norway
13:30 – 14:00	Novelties in Value Added Soy Ingredients for Poultry, Pigs and Aqua Species <ul style="list-style-type: none"> - <i>Enzyme Treated SBM</i> - <i>Fermented SBM</i> - <i>Soy Protein Concentrates and Soy Protein Isolates</i> 	Jan van EYS USSEC Paris, France
14:00 – 14:30	Effect of level of SBM inclusion Rates on Pellet Quality and Pellet Mill Production Rate (Round Table Discussion, involving speakers and conference participants) <ul style="list-style-type: none"> - <i>Effect of SBM particle size</i> - <i>Effect of oil level</i> - <i>Full-fat soybean meal and effect of processing degree</i> 	Birger SVIHUS & Dejan DRAGAN MILADINOVIC
14:30 – 14:55	Questions and Answers Session / Wrap Up	Dr. Iani CHIIAIA <i>Facilitator</i>
14:55 – 15:00	U.S. Soy: Smart Farming	USSEC Video Ad
End of Day Two		





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Dr. Jan Van EYS	
USSEC Greater Europe Consultant	

Jan van EYS has been active in various capacities in international animal nutrition for more than 35 years; much of this time in the international feed business. Following his undergraduate studies in Agronomy in the Netherlands he completed a M.Sc. in Rangeland Nutrition at the New Mexico State University and a Ph.D. in Ruminant Nutrition from West Virginia University (USA). Between his BSc and graduate work, he worked five years in Bolivia and Somalia on Government and FAO development projects. After completion of his graduate studies he worked as an Assistant Professor in Ruminant Nutrition for North Carolina State University.

In this capacity he collaborated with USAID on international ruminant research projects in Indonesia, Morocco and Brazil. He joined Ralston Purina International in 1986 holding research and technical positions in Portugal and France. Within this company he held the position of European Research Director and upon the creation of Agribands International he became Vice President for Research and Development based in St. Louis, MO. He left the company in 2001 to establish GANS Inc. an independent consulting company in Animal Nutrition concentrating on research and technical support to the international feed industry.

He currently works with a wide range of companies covering all aspects of the feed and livestock industry. During his career, Dr. van Eys has served on an important number of scientific commissions and study groups in the EU as well as the USA. His publications include 30 senior-authored and more than 40 co-authored manuscripts alongside material in the form of industry proceedings and industry press articles. Dr. van Eys has been invited to numerous international and national presentations.

	Gunnar LYNUM
	Ohio Soybean Association Consultant

Gunnar LYNUM born and educated in Norway and United States with degrees in Food Science and Management. Recruited by Swift & Company, Chicago in 1996, at the time, the major soybean crusher and soy food processors in the United States, with involvement in space food research and development. Over the last fifty years, Gunnar Lynum have held various positions in the soy industry in United States and Japan.




This includes National Sales Manager for Swift & Company, Commercial Manager for Bunge Corporation, Director of Market Development USDA in Japan, and Staff Vice President for American Soybean Association. In 1990, Mr. Lynum established Strategic Marketing Development (SMD), focusing on Market Development and Consulting. He succeeded to introduce and develop a market for Soy Ink in the USA with all major ink companies. Another achievement is the development of the market for containerized Ohio food grade soybeans in Asia and Japan.

Dejan MILADINOVIC	
Head of Centre for Feed Technology Norwegian University of Life Sciences	

Dejan MILADINOVIC is a head of Centre for Feed Technology, Norwegian University of Life Sciences (NMBU). He has been working at NMBU since 2005. Dejan teaches courses related to feed technology at both, M.Sc. and Ph.D. level. Dejan held various job positions at NMBU with overall topic related to feed technology, innovation and new products development, novel raw materials, rheological and tribological aspects of novel ingredients.

Dejan has obtained M.Sc. in Feed Manufacturing Technology from the NMBU in 2005 as well as M.Sc. in Innovation and Entrepreneurship from the University of Oslo in 2009. Currently he is a PhD cand. at Department for Mathematical Sciences and Technology (Realfag) at NMBU.

With dozens of scientific articles published and presented at various conferences, Dejan has considerably contributed the feed science and technology. Currently Dejan does the research related to characterization of single-cell-protein ingredients (microalgae and yeasts) and integration of enzymatic nano-components in the feed matrix. Dejan lives in Ås, Norway.

	Dr. Birger SVIHUS
	Professor of Poultry Nutrition Department of Animal and Aquaculture Sciences, Norwegian University of Life Sciences, Norway


Birger SVIHUS graduated from the Agricultural University of Norway in 1991 with a degree in Animal Science, and completed his Ph.D. in Poultry Nutrition at the same University in 1997. He is currently a Professor with the Department of Animal and Aquaculture Sciences, Norwegian University of Life Sciences, Norway. He is the author or co-author of around 65 peer-reviewed scientific papers and is the author of or contributor to several books.

His scientific work in poultry nutrition has mainly been within the area of cereal fiber and starch, feed technology, digestive tract function and feeding systems. He had a leading role in the organization of the 14th European Symposium on Poultry Nutrition and the 14th European Poultry Conference, organized under the auspices of World's Poultry Science Association (WPSA). He was the president of the Norwegian branch of WPSA from 1996 to 2009 and is currently the president of the European Federation of WPSA. Since 2015, he has been Editor-in-Chief in British Poultry Science.

ABOUT OUR PROFESSIONAL ORGANIZATION:

	<p>U.S. SOYBEAN EXPORT COUNCIL</p>
	<p>Greater Saint Louis Area, USA http://ussec.org/</p>

A **dynamic partnership of key stakeholders** representing soybean producers, commodity shippers, merchandisers, allied agribusinesses and agricultural organizations. **USSEC’s mission is to maximize the use of U.S. soy internationally** by meeting the needs of our stakeholders and global customers. Through a global network of international offices and strong support in the U.S., we **help build a preference for U.S. soybeans and soybean products**, advocate for the use of soy in feed, aquaculture and human consumption, **promote the benefits of soy use through education and connect industry leaders** through a robust membership program.

<p>FôrTek Center for Feed Technology</p>	
<p>Norwegian University of Life Sciences</p>	

Center for Feed Technology – FôrTek is an international centre for feed technology owned by the Norwegian University of Life Sciences (NMBU).

FôrTek’s strength is bridging principle to practice. From the client’s seminal concept to FôrTek’s deliverable product, experienced professionals analyze each step with surgical precision. State-of-the-art equipment supplements rather than supplants know-how in feed technology.

FôrTek integrates research in Department of Animal and Aquaculture Sciences with production in the Animal Production Experimental Centre. This enables researchers to monitor the complete feed chain, from the technical characteristics of ingredient processing to the well-beings of tested animals. The end result: interdisciplinary expertise analyzes the cause-effect of new feeds on nutrition, health, welfare of various animals – worldwide. This makes Fôrtek a global host for comprehensive R&D.

