

# EuroTier

## Not just for cattle, pigs and poultry



As an "aqua person", chances are that EuroTier is not at the top of your list of shows to visit - but that might well change. Organized by the Frankfurt-based German Agricultural Society (DLG), the long established EuroTier is a massive animal production event. The 2014 edition, which took place November 11-14, saw 156,000 trade professionals descend on the Hanover Fairgrounds - 30,000 of whom came from outside Germany. What drew them is the breadth of animal husbandry solutions to be found: 2,360 exhibitors from 49 countries - as well as technical programs

addressing health and nutrition and species specific issues. And alongside was EnergyDecentral 2014, presenting solutions for the entire value chain of decentralized energy supply.

And now EuroTier has taken the step of incorporating aquaculture. At EuroTier 2014, DLG introduced "Growth in Water" with the concept of growing biomass in water, rather than from the land. The showcase focused on the diversity, innovation and potential of water as a production medium. This development was driven by what the organizers described as the huge

international interest in aquaculture, water conditioning and water treatment experienced at previous exhibitions. They even had live fish: Göttingen University displayed African cichlids from their applied research, known as "Tilapia Augusta,".

There was also an Aquaculture Forum (with presentations in German or English), which included 12 sessions and three panel discussions with more than 50 national and international experts, practitioners and researchers. In addition to the companies who took part in the "Growth in Water" section, EuroTier had numerous exhibitors with products for aquafeed but who were there to target the terrestrial animal feed market.

### Temperature Adapted Feeds

The interest in aquaculture was borne out by at least one dedicated aquaculture feed manufacturer: Aller Aqua chose EuroTier to launch their Temperature Adapted Feeds™ concept. Dr. Hanno Slawski, Research & Development Manager at Aller Aqua, introduced their new line during a presentation in the Aquaculture Forum.

Environmental temperature affects both speed and efficiency of fish metabolism. Thus, feed intake of fish and nutrient digestibility vary with temperature. Adapting feeds to seasonal temperature differences on a fish farm creates a great potential for growth and vitality of fish and has become a core principle in our feed formulation.

Aller Aqua's Temperature Adapted Feeds concept, ensures a higher feed intake and nutrient digestibility throughout all seasons.

Temperature Adapted Feeds for different species and seasons are developed in collaboration with international research institutes, fish farms and Aller Aqua Research.

The subject was well received and prompted interested parties to start exchanging experiences and ideas of seasonal feeding requirements for various types of fish.



Aller Aqua supplies feed to the world's first ASC-certified trout farm, Christiansminde Dambrug, which was certified in July 2014. ASC-certification requires strict documentation of the entire production chain, including feed, and has generated an increased awareness and control of the production process. Aller Aqua's experience with the label in Denmark – both advantages and disadvantages were discussed with the audience, and the subject covered in depth by Dr. Maike Oehme, Quality & Technology Coordinator, Aller Aqua, during the Forum.

More information on Temperature Adapted Feeds: [Website](#) | [email](#) | [Brochure](#) (pdf)

### Marine algae

For years, Olmix has extracted essential elements from algae and turns them into different products for improvement of hygiene in animal production, binding mycotoxins in feed, enhancement of digestive and immune systems of animals. Based mainly on 'Ulvans', sulfated polysaccharides found in green algae of the genus *Ulva*, they

are unique elements that are not found in terrestrial plants and therefore more efficient in improving health and growth performance of the animals. Utilization of algae is also sustainable because they can be harvested sustainably from natural populations which grow without the need of fresh water, fertilizer and pesticides. At EuroTier, Olmix introduced its new product 'MFeed+', a unique association of clay particles and different seaweed extracts (See page 7 in this issue for details) and presented the topics covered by their Breizh Algae Tour 2014, which took place in France a few weeks before EuroTier and was attended by over 500 participants from over 43 countries.

"Algae offer an exceptional untapped potential. Molecules extracted from algae represent a new source of innovation for biotechnology," said Hervé Balusson, Olmix' CEO.

We now know that algae extracts can have a favorable influence on the digestive ecosystem, act on the microbiota, stimulate both the enteric nervous system and the myriad of receptors of the immune system lining the intestinal wall. "This new knowledge opens up very encouraging prospects which make algae a new avenue for approaching health through nutrition,"

said Pr. Bernard Kloareg, Director of research CNRS 8227 and Director of the Biologic Station of Roscoff UPMC, Roscoff, France.

The rise in aquaculture production - particularly in Asia is creating challenges that algae can tackle. In particular the sourcing of raw materials. Algae can be a solution in substitution of fish meal to a more sustainable vegetable meal as a protein source in aquafeed. One of the other challenges of aquaculture production is health. Dr Loc Tran, one of the scientists who discovered the pathogen responsible for Early Mortality Syndrome, said algae can be a part of the solution.

Fascinating facts that emerged from talks by experts on the tour, included:

~ Our digestive system contains ten times more bacteria than the total number of our cells

~ The gut is a second brain that contains 200 million independent neurons: our small intestine is a concentrate of intelligence, the equivalent of that of a small pet. A significant part of our neuronal activity occurs in the gut.

~ Nutrition helps to regulate the balance of the enteric nervous system and even the central nervous system. Therefore, we can influence the nervous system by what we eat, by



The gut: our original brain

changing our enteric ecosystem in direct connection with our brain.

~Algae extracts can have a favorable influence on the digestive ecosystem, act on the microbiota, and stimulate both the enteric nervous system and the myriad of receptors of the immune system lining the intestinal wall.

~ Additives, pesticides and antibiotics can be replaced by natural elements extracted from algae along the entire food chain.

More information on Olmix products: [Website](#) | [email](#)

### Farm management

Based on 60 years of expertise, InVivo Animal Nutrition and Health has strengthened its investment in aquaculture in terms of nutrition, R&D, health and feed quality, to meet all aspects of the aquaculture value chain. The company now holds a leading position in hatchery feed with the acquisition of BernAqua.

With a presence in major global aquaculture growth



areas such as Mexico, Brazil and Asia, InVivo NSA offers a range of global and innovative services.

Bringing together its network of experts, InVivo NSA has developed *InMyFarm*, an innovative solution supported by decision-making tablet software. Created for working in real time alongside farmers on their farms, *InMyFarm* deploys a multi-disciplinary and holistic approach to optimizing aquaculture farm management. This solution supports customers to better reach their results, uncovering the keys to progress and success.

Recognizing the historical growth rate of aquaculture, InVivo NSA sees aquaculture as having fantastic potential for its growth in the following decade. *InMyFarm* is now being deployed gradually worldwide by technical experts from InVivo NSA.

More information on InVivo's offerings: [Website](#) | [email](#)



### Fish protein concentrates

Sopropêche is an international group that has specialized in innovative nutrients for over 45 years. It offers two soluble fish protein concentrates (CPSP®). CPSP® "90" (84 % proteins) and CPSP® "G" (72 % proteins), obtained by a unique process of enzymatic hydrolysis, are considered as one of the best marine protein sources. The presence



of highly digestible proteins improves growth and FCR. Bio-active Peptides

strengthen the immune system and contribute to the synthesis of neurotransmitters; they also proved to have strong anti-stress effects. Their content of free amino-acids makes them specially attractant and confers excellent palatability to aquaculture feeds.

Incorporation of 3-5% CPSP® "90" or "G" of low molecular weight and high PUFA content in starter diets ensures growth, well-being and support of vital metabolic functions.

More information about CPSP:  
[Website](#) | [email](#)



PERFORMANCE MINERALS®

### Zinpro Performance Minerals® for Aquaculture

Trace minerals play a vital role in overall nutrition for fish and shellfish. Improved trace mineral nutrition is one path to improve production, efficiency and profitability. Fish, shrimp and other aquatic species require trace minerals such as zinc, manganese, copper, iron and selenium for numerous basic metabolic functions, such as growth and development; immunity and reproduction.



## SPHS 168F EXTRUDER

CAPACITY (T/H): 4-8

It is an ideal machine that designed for processing extruded floating aquatic feed and pet feed.

It is suitable for producing floating aquatic feed, sinking aquatic feed, slow sinking aquatic feed and other aquatic feed. Floating aquatic feed: Tilapia feed, Crucian feed, Ranidae feed, Weever feed etc. and sinking aquatic feed: Siganus Guttatus feed, etc.



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The Availa®Mins line of Zinpro Performance Minerals® include Availa®Zn, Availa®Mn, Availa®Cu, Availa®Fe, Availa®Se and Availa®Cr. Research shows that optimal trace minerals nutrition can consistently provide better weight gain, feed conversion, survivability and profit for aquaculture production.

For more than 40 years Zinpro Corporation has focused solely in trace mineral nutrition, and it is the leader in its field thanks to an emphasis on extensive animal research to prove animal performance.

More information about Zinpro Performance Minerals contact [Dr. Supunee Jiarakhun, Area Manager South East Asia](#) | [Website](#)

### Microbial solutions

Lallemand Animal Nutrition shared its range of solutions and services aimed at helping animal producers express the full potential of their animals in a natural way. The management of microbial communities with-

in aquaculture systems is one of the most promising areas of progress. It is now understood that the fine balance of bacteria found within the digestive tract or surrounding environment have a huge effect on the immune system, nutrition and physiology. Lallemand has developed a range of microbial-based nutritional solutions to safeguard health and performance of aquatic farmed species in a natural way.

More information about Lallemand's aquaculture offerings: [Website](#) | [email](#)



### Aquaculture product range from BIOMIN

BIOMIN has been serving the aquaculture sector for more than a decade and established expertise in a wide range of disciplines.

Mycotoxin control is becoming increasingly important as the industry moves to ever higher inclusion levels of plant materials. BIOMIN offers its Mycofix® product line of specially developed feed additives that protect animal health by deactivating mycotoxins found in contaminated feed.

BIOMIN has a long history of probiotic

### Jules Tournut Award 2014

The European Probiotic Association (EPA) awarded the Jules Tournut Probiotics Prize 2014 to Dr Steven Frese during EuroTier, for his innovative research project on the evolution of the host-microflora interaction.

On this occasion, industry members and Scientific Committee of the EPA, FEFANA, and journalists discussed the potential of probiotics for sustainable animal production, with benefits beyond zootechnical performance, in animal health and welfare.

[Read more at Aquafeed.com.](#)

research focused on aquaculture. These projects have shown that different strains within the same species can be very important when searching for the most suitable strains for aquaculture. This underlines the importance of a multi-strain product to take advantage of the strengths of each strain. Other products in its aquaculture range include selected blends of organic and inorganic acids and their salts, immune modulators and pond management and bioremediation products.

More information about Biomin's aquaculture offerings, please contact [Dr. Pedro Encarnação](#) | [Website](#)

The next EuroTier will take place from November 15 to 18, 2016 in Hanover, Germany.

