

# POULTRY NEWS

by **LOHMANN**

01/2021

**FDM ONLINE**  
THE BRIDGE TO  
THE FUTURE

**PODCAST BY LOHMANN**  
LISTENING INSTEAD  
OF READING



**WATCH FDM 2021**

**LISTEN OUR SONG!**

**For every management  
the right hen  
– for every market the right egg**



**LOHMANN  
BREEDERS**



*It still takes a lot to crack  
a LOHMANN egg –  
now more than ever!*

**FOR EVERY MARKET  
THE RIGHT EGG**



[www.lohmann-breeders.com](http://www.lohmann-breeders.com)

BREEDING FOR SUCCESS... TOGETHER



**LOHMANN**  
BREEDERS

# LOHMANN

## THE BRIDGE TO THE FUTURE

This was the motto of this year's **LOHMANN Franchise Distributor Meeting**. Due to the ongoing Corona travel restrictions, which unfortunately continued into 2021, we had to postpone our **Franchise Distributor Meeting** which was originally scheduled to take place in Hamburg in June and to change concept.

Therefore, **FDM went ONLINE**. But especially this new form of a proven format showed again that **LOHMANN** is always ready to face new challenges. No matter in which field.

As you all probably know by now, it is now us, the new dual leadership at **LOHMANN**, who will face these challenges in the future: **Jörg Heier - Managing Director Operations** and **Christoffer Ernst - Managing Director Sales**. In our opinion, the motto chosen for the conference also symbolizes this generational change at the management level. With the combination of long years of experience in production as a basis and fresh new ideas in marketing and sales, we are embarking on a successful path towards the future together with you, our customers and business partners.

**Thus, the motto can already be extended: *The Bridge to the Future - The bridge to your success.***

Obviously, we have already set out on our journey as you can see in our cover story. The heart of **LOHMANN** is and remains genetics and the outstanding performance and high quality of our breeding lines.

We hope you enjoy reading our **Poultry News annual edition**. As always, you can expect a colourful mix of topics peppered with a few little surprises.


With best wishes,

Your new Management Team



  
Christoffer Ernst



  
Jörg Heier

**FDM goes**

 **ONLINE**





# CONTENTS

## 6

### NEW PERFORMANCE STANDARDS

#### GENETIC PROGRESS CONTINUES

The performance standards for all the LOHMANN Layer strains have been used now since more than 4 years without changes. However, in...



## 12

### NEW DUAL MANAGEMENT AT LOHMANN BREEDERS

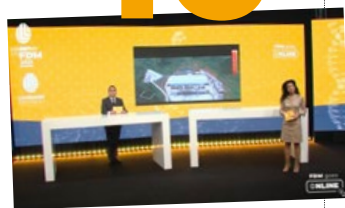
Latest since our this year's Franchise Distributor Meeting you know: LOHMANN BREEDERS has a new management.

From now on, the leadership of the company will be divided between...

### FDM WENT ONLINE

#### THE BRIDGE TO THE FUTURE

Due to the ongoing Corona travel restrictions, which unfortunately continued into 2021, we had to postpone our Franchise Distributor Meeting which was originally...



## 16



## 22

### LOHMANN SCHOOL GOES ONLINE

Due to the ongoing Corona situation, we had to cancel our LOHMANN SCHOOL in Cuxhaven this year and change the concept of...



### LPN CONGRESS & EXPO

#### RETURNS

After being postponed a couple of times due to the pandemic, the event finally took place from 13. - 15. October 2021.

The aim of the event is to bring together participants from all links in the production of eggs and broilers. LOHMANN played a special role in this event...

## 26







## LOHMANN BREEDERS AT WPVC BY HIPRA

### OVERCOMING THE CHALLENGES IN POULTRY HEALTH

Many visitors and interested people came to the virtual exhibition platform and visited our stand. Numerous lectures were offered during the event, which were equally well attended...

## SUMMARY WEBINARS

### TECHNICAL SERVICE ACTIVE WORLDWIDE!



32



Geflügelzucht ter Heerdt GmbH

34

## CUSTOMER DAYS OF GEFLÜGELZUCHT TER HEERDT

### A GREAT SUCCESS

Since January 2012, Geflügelzucht ter Heerdt has been a LOHMANN BREEDERS distributor in the Netherlands and Belgium. For several years Geflügelzucht ter Heerdt has also been successfully selling chicks and pullets in Germany.

A satisfied group of almost 100 companies...

## LOHMANN BREEDERS AND INTERNATIONAL EGG FOUNDATION

### HOLD GLOBAL EGG SCHOOL IN MOZAMBIQUE

Following LOHMANN's continuous education program commitment around the globe, this time a team of experts from LOHMANN BREEDERS discussed some important aspects of bird management, biosecurity and vaccination with egg producers from Mozambique...



# CONTENTS

CONTENTS



## 42

### SAKURA MEETING 2021

The Japanese cherry blossom is one of the most important symbols of Japanese culture. It stands for beauty, departure and transience. Cherry blossom time marks a high point in the Japanese calendar and the beginning of spring...

### 12<sup>TH</sup> SUMMIT FORUM OF CHINA LAYING HEN 320 INDUSTRY ALLIANCE

The 12<sup>th</sup> Summit Forum of China Laying Hen 320 Industry Alliance was held in Haikou from June 17 to 18, 2021.

With the theme of "Fuse, Ecology and Value", the summit discussed how to...

## 46



## 50

### OBITUARY MR. GERALDO JOSÉ DE SOUZA PINTO

We remember a good and long-time business partner and an extraordinary person.

Already in March 2021, Mr. Geraldo José de Souza Pinto, Sales and Service Manager of Planalto Postura in Brazil, passed away.

He had to fight a severe cancer 2 years ago. At the end of...

### NEW COLLEAGUES

In August 2021 Esra Evrenkaya joined our Global Technical Service Team as a nutritionist.

She lives in Turkey and is a certified Veterinary Specialist in Poultry and worked as a livestock manager in a big layer company in Turkey which has...

## 52



# 54



**PODCAST**  
by LOHMANN

**PODCAST BY  
LOHMANN**

**LISTENING  
INSTEAD OF  
READING**

*Everyone is talking about podcasts. And we don't want to ignore this trend either. We have had the idea of providing a podcast for our customers for a long time, but it was not until we redesigned our website that this project gained momentum...*

**LOHMANN  
INFORMATION**

**THANK YOU  
FOR YOUR  
PARTICIPATION!**

# 56



**LOHMANN  
CALENDAR 2022**



# 58



**TOOL  
BOX**  
by LOHMANN

# 60

**VISIT OUR  
TOOLBOX  
YOUR BOX  
FULL OF  
TECHNICAL  
TOOLS!**

*No ordinary box, but a box full of practical and relevant management tips for the modern layer market, regularly filled by our LOHMANN team of experts on the topics of management, nutrition, veterinary and incubation.*

*You will see, a regular visit is worth it - for you and for your business!*

**LOHMANN'S  
EGG WORLD**

**TIPS AND TRICKS  
AROUND THE  
EGGSHELL**

*It's hard to crack a LOHMANN egg, but when you've done it, don't throw the shell away! You can do a lot with it!*

*We present you 6 surprising tricks for daily life!*



# 62



# NEW PERFORMANCE STANDARDS **GENETIC PROGRESS CONTINUES**



The performance standards for all the LOHMANN Layer strains have been used now since more than 4 years without changes.

However, **in every generation the genetic potential is increasing through selection of the best individuals as parents of the next pureline generation.**

The genetic progress is delivered with every new grandparent- and parentstock generation to our customers and in this way realised on the commercial level.

Of course, with the usual “delay” due to the four levels of the multiplication pyramid (Pureline–Grandparent–Parent–Commercial). **We do not change the performance standards every generation with a small adjustment**, but rather we let the genetic progress accumulate for a few years and make then in one bigger step the adjustment cumulated for a few years.

*We do not change the performance standards every generation with a small adjustment, but rather we let the genetic progress accumulate for a few years and make then in one bigger step the adjustment cumulated for a few years.*

## Sometimes the question comes up: “When will this “new Generation” be available on the Market”?

To make it clear: this update on the breed standards is not a change to a “new Generation”. **This update is the result of 4-5 rounds of selection in the same pure lines** as before as a routine genetic progress and not a change of any line to another pureline.

The major changes of this update can be summarised for all standards:



**Due to improvement in persistency**, a higher increase in rate of lay at older ages, therefore longer productive life of the hens.

Extension of all cage standards from 95 to 100 weeks. Extension of the cage free standards from 85 weeks to 90 weeks for all brown breeds and from 85 to 100 weeks for all white and tinted breeds. So, for the white breeds, the cage and cage free standards go to the same age.



**Cage free standards start one week earlier than before**, start is now already in 19 weeks instead of 20 weeks with 10% rate of lay.



**More flat egg weight curve:** same egg weight before 40 weeks of age, less increase in egg weight at older age to achieve the best persistency and a good shell stability at older age.



**No change in body weight** (after the adjustment of body weight in 2018)

## Improvement of persistency

Especially after 60 weeks of age, **the laying performance of the hens has improved.** This is the consequence of the top-ranking selection target of laying persistency and late shell quality.



The increased number of saleable eggs from a longer production cycle of a flock gives an economic advantage to the egg producer. **The cost for the pullet is distributed to a higher number of eggs and therefore the pullet costs per egg are reduced.**



Under field conditions, **more and more flocks show a longer production period** and therefore the length of the cage free standards have been prolonged to 90 weeks for brown varieties and to 100 weeks for white varieties.

In alternative management for brown birds, it is still more difficult to keep the flocks as long as in cages but in white birds, there is nearly no more gap in the depopulation age between cage and cage free flocks.



▼ **Table 1.** New performance standards for **alternative** housing systems

Strain	72 weeks			100/90 weeks		
	Eggnumber/ H.H.	Eggweight cum. (g)	Eggmass/ H.H. (kg)	Eggnumber/ H.H.	Eggweight cum. (g)	Eggmass /H.H. (kg)
LSL Classic	327,3	62,0	20,30	100 w :467,0	63,2	29,53
LSL Lite	331,2	60,4	20,02	100 w.: 474,0	61,4	29,10
LB Classic	321,1	63,3	20,32	90 w: 411,5	64,1	26,39
LB Lite	323,9	61,7	19,99	90w: 415,8	62,4	25,94



▼ **Table 2.** New performance standards for **cage** housing systems

Strain	72 weeks			100 weeks		
	Eggnumber/ H.H.	Eggweight cum. (g)	Eggmass/ H.H. (kg)	Eggnumber/ H.H.	Eggweight cum. (g)	Eggmass /H.H. (kg)
LSL Classic	329,3	62,4	20,54	471,1	63,6	29,95
LSL Lite	332,5	60,8	20,23	477,2	61,8	29,49
LB Classic	323,8	63,7	20,63	461,1	64,9	29,92
LB Lite	326,8	62,3	20,34	465,6	63,2	29,44



As an example, you can see from the next table the comparison of the old to the new standards for LB CLASSIC in cage housing.

**The egg number at 72 weeks has increased by 3.8 eggs and at 80 weeks increased by 6.0 eggs. This increase comes from a slightly higher peak but comes mainly from the improvement in the persistency, especially after 72 weeks.**



▼ **Table 3.** Example comparison of old and new standard for **LOHMANN BROWN CLASSIC** in cage housing systems at 72 and 80 weeks

LB Classic cage				
wk		New	Old	Diff.
72	EN/HH	323,8	320,0	+3,8
	Eggweight cum.	63,7	63,9	-0,2
80	EN/HH	366,8	360,8	+6,0
	Eggweight cum.	64,1	64,4	-0,3
100	EN/HH	461,1	-	-
	Eggweight cum.	64,9	-	-



## Comparison of egg weight curve

From the **comparison of the egg weight** in the previous table, it may look at the first glance like a **genetic reduction in the egg size. But this is not the full truth.**



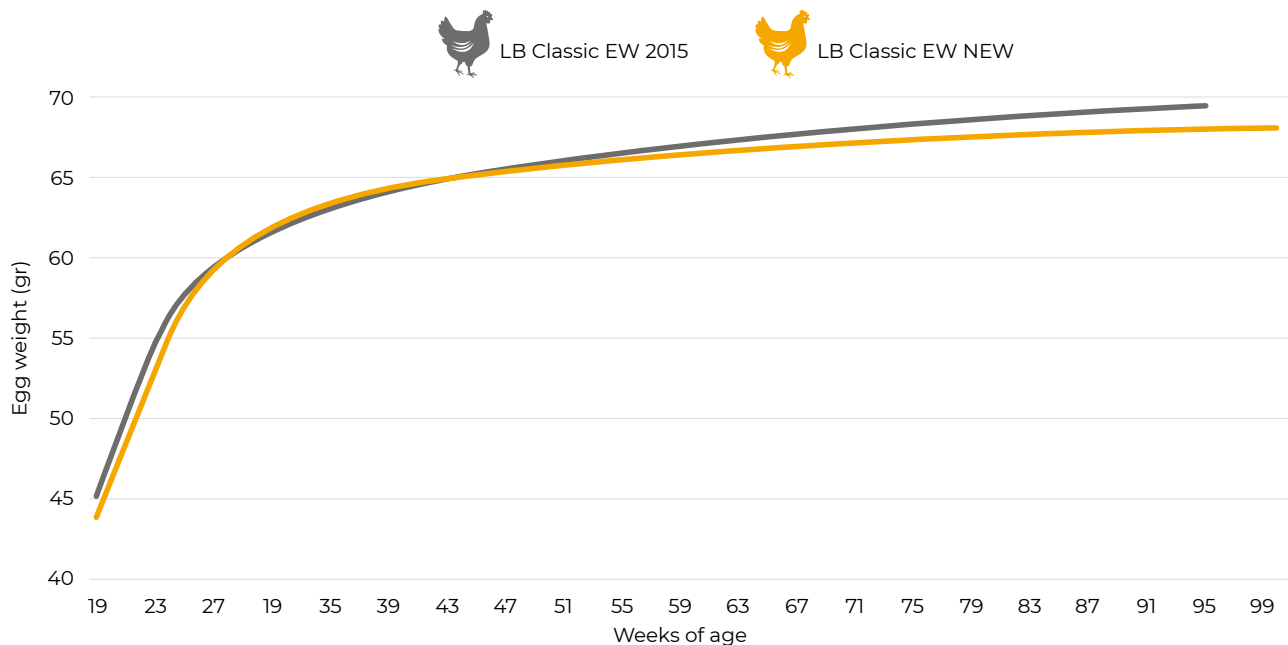
If we look at the old and new egg weight curve (see next figure) it is clearer that **the egg weight curve is nowadays flatter than in the old standard.**



From the **genetic pressure on persistency and improvement in the shell stability in older age**, it is necessary and helpful that the bird is able to avoid a strong increase in egg size after 50 weeks of age and have a flatter egg weight curve.



▼ **Figure 1.** Comparison of old and new egg weight curve  
(LOHMANN BROWN CLASSIC, cage production)



## How to read the performance standards

The LOHMANN BREEDERS breed standards for both cages and alternative housing systems are created in a way that the target values do not correspond to the maximum performance that can be reached.



The maximum performance will only be achieved if always perfect conditions for the birds are provided. This is not realistic under “real life” field conditions. Therefore, our standards are based on average field conditions and should be realistic and reachable under average management-, feed- and environmental conditions.

**The genetic potential of LOHMANN layers is much higher than the performance targets and is represented in the top performing flocks which can reach 20-30 eggs more than the standards.**



It is very clear, that under moderate climate conditions like in Europe, it is easier to achieve the targets than under hot climate conditions in which the birds are challenged by much higher disease pressure and more severe vaccination programs.

## Genetic progress will continue

**You can be sure, that the genetic work in LOHMANN BREEDERS will continue to create genetic progress.** With investments in new breeding farms (Canada, Spain and Scotland), **new technologies** (genomic selection) **new equipment** (transponder nest), **challenge tests under difficult conditions** (Challenge Sib test in Russia) and continued testing of crossbred birds under field conditions in Russia, Spain and Columbia, **the future of genetic progress is safeguarded and sustainable.**



**The progress is based not only on economic important traits like laying rate and feed conversion but also in improved shell quality and livability.** After many generations of intense selection, the genetic parameters (heritability) are still showing a clear potential for further improvement. **Due to a careful management of the level of inbreeding, there are no negative signs, like inbreeding depression or reduced variability.**

The biological limit of one egg per day is reached during laying peak in high performing flocks, but **longer laying sequences still give potential for improved persistency with improved shell quality.** The testing period on the pureline birds was extended to over 100 weeks in one cycle.

**A combination of captured data from the purelines in single cages and family groups are complemented with improved genomic selection will therefore continue to drive the genetic progress.**

*The biological limit of one egg per day is reached during laying peak in high performing flocks, but longer laying sequences still give potential for improved persistency with improved shell quality. The testing period on the pureline birds was extended to over 100 weeks in one cycle.*



# NEW DUAL MANAGEMENT AT **LOHMANN BREEDERS**



## **Building the Bridge to the Future – together!**

Latest since our this year's **Franchise Distributor Meeting** you know: **LOHMANN BREEDERS** has a new management.

**From now on, the leadership of the company will be divided between two managing directors who are responsible for different areas.**

---

## Continuity....

**Mr. Jörg Heier has taken over the position of Managing Director Operations with effect from July 1, 2021.** In this position, he is responsible for the overall operational management of the company, including administration and the entire production and supply chain.



Many of you know Jörg Heier (49) who has already joined LOHMANN in 2014 as Director of Global Production with full responsibility for all global production operations. **Mr. Heier holds a degree in civil engineering with focus on animal husbandry.**

He can rely on almost 25 years of experience in the layer industry, having started his career as production manager in one of the largest German commercial layer business.

*He can rely on almost 25 years of experience in the layer industry, having started his career as production manager in one of the largest German commercial layer business.*

## ...meets new sales spirit

**With effect of October 1, 2021, Mr. Christoffer Ernst accepted the position as Managing Director Sales.** He will assume responsibility for the overall commercial management of the company, including sales, technical service, marketing as well as all PR & communication related activities.



Christoffer Ernst (47) is a Danish citizen and holds a **degree in international marketing and management.** He brings more than 20 years of high-level commercial management experience in the global egg industry to LOHMANN.

Having lived in the US and Belgium **he relocated to China in 1998 where he played a key role in the successful strategic development of the Asian market** for leading players in the global egg handling and processing industry.

Since 2011 Mr. Ernst has held the position as Managing Director Asia for the Moba Group.

*Mr. Christoffer Ernst relocated to China in 1998 where he played a key role in the successful strategic development of the Asian market for leading players in the global egg handling and processing industry.*

## The bridge between past and future

This generational change at the management level is an important step for LOHMANN to meet the ever-changing market requirements and challenges also in the future.



**Two managing directors, each specialized in his field, bring in new innovative ideas and thus secure the two cornerstones of LOHMANN:** high-quality breeding stock that fully exploit their genetic performance potential in combination with a perfect production and supply chain as well as an exceptionally close customer relationship and excellent after-sales service.

**Continuity and progress - the basis for our and your success in the future.**



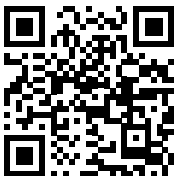


*A new journey...  
A new vision  
for India*

*Highest number  
of saleable eggs*

**LOHMANN LSL-ULTRA LITE**

**FOR EVERY MARKET  
THE RIGHT EGG**



**YOUR CONTACT IN INDIA**

**Dr. Manoranjan Sharma**

Key Account Manager

Ph No: 9831944090

Email: sharma@lohmann-breeders.com

[www.lohmann-breeders.com](http://www.lohmann-breeders.com)

BREEDING FOR SUCCESS... TOGETHER



**LOHMANN**  
**BREEDERS**  
INDIA

# FDM WENT ONLINE THE BRIDGE TO THE FUTURE

WATCH FDM 2021

FDM goes



ONLINE



Due to the ongoing Corona travel restrictions, which unfortunately continued into 2021, we had to postpone our Franchise Distributor Meeting which was originally scheduled to take place in Hamburg in June. However, **we didn't want to disappoint our customers and colleagues**, so we put our heads together to come up with a new concept and date.

**It didn't take long to come up with a solution.**

**New date** | 28 - 29.09.2021

**New concept** | Be together but stay healthy FDM goes ONLINE!

**The motto didn't cause us any problems either: The Bridge to the Future. Nothing fits LOHMANN better, especially this year.** We are already known for our innovation and forward thinking, while also staying committed to our proven quality and performance standards, our new vision for the internal structure within LOHMANN demonstrates this more than ever.



## LIVE LIVE LIVE

As our **Franchise Distributor Meeting** is always something special, we naturally wanted to stand out from the crowd of the usual online events and **offer our customers something completely new and exciting.**

So, we came up with:

**Two days, everything live: live debate - live discussions - live statements. And, of course, everything simultaneously translated - live.**

*We are already known for our innovation and forward thinking, while also staying committed to our proven quality and performance standards, our new vision for the internal structure within LOHMANN demonstrates this more than ever.*

DAY 1 | 28.09.2021

### Live Debate - The bridge to the future - opportunities in the layer market

A broad topic that we knew would spark interest from all our customers and prompt some excellent and valuable discussions. **We were able to attract 7 well-known and highly regarded participants** from within the poultry industry to our debate, each an expert in their own field.



**This enabled us to discuss pertinent topics related to our industry from different perspectives around the world. A great interactive day.**

DAY 2 | 29.09.2021

## LOHMANN DAY – The bridge to the future - Have a look behind the scenes!



Finally, the time had come for our own experts to have the floor. And of course, it was our new management structure that started it all! Introduced by our former **Managing Director Mr. Javier Ramírez**, the new LOHMANN dual leadership now had the opportunity to introduce themselves: **Jörg Heier, Managing Director Operations** and **Christoffer Ernst, Managing Director Sales**.

Afterwards, there was an update from the **Genetics, Production, Logistics, Technical Service and Sales departments**.



As it should be, the **marketing department** came up with something special and provided an engaging video to keep our participants well versed in the culinary world of eggs and local recipes, because as we know, **the culinary delights are an integral part of our FDM meetings**.

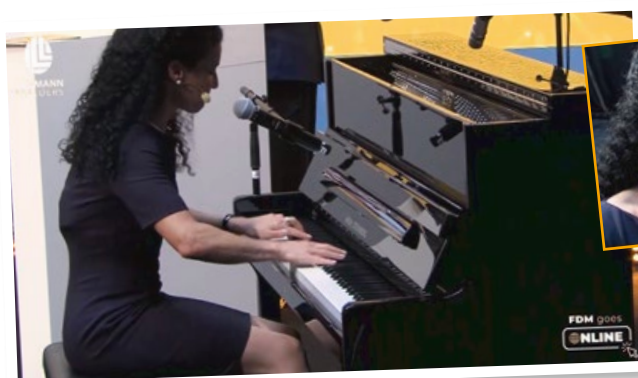
[VIEW RECIPE](#)



## A real LOHMANN chick

For two days, the program was led by **Ms. Annette Yashpon** who we were able to win over as our presenter for the conference. And she was tasked with presenting a special surprise as an introduction to open the conference, and she did not disappoint.

**We were all overjoyed to hear our new LOHMANN song composed especially for us: A real Lohmann Chick.**



**Ms. Annette Yashpon**  
MC/TV Presenter, Pianist & Singer  
and Voice artist

**PLAY VIDEO**

### "A REAL LOHMANN CHICK"

58th FDM Lohmann Breeders Song  
Text and music by Annette Yashpon

Long ago in Cuxhaven it all began  
Wise men got together, they had a plan  
Chicks were given really cool DNA  
This was indeed a very special day  
And I'm happy to say I was born to this team -  
As a Lohmann chick I'm held in great esteem  
So they gave me all I needed nice and quick  
And I became a Lohmann Super Chick!

*I'm a Lohmann Breeder  
a global leader  
a Lohmann Layer  
a global player  
Adapting to your needs and nothing less!  
I'm a Lohmann Breeder  
a global leader  
a Lohmann Layer  
a global player  
With DNA bred just for your success!*

*I'm easy to manage, not moody or rough  
I don't even eat much but lay more than enough  
I lay really good eggs, loads of them too  
Great mass, nice strong shell and they taste good, it's true!  
I'm so lucky to be the best I can be  
A Lohmann super chick with performance guarantee  
Whether an LSL, a silver, a brown or cream breed  
My siblings and I'll give you just what you need!*

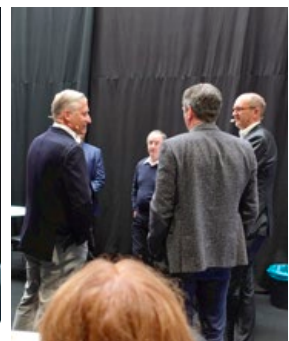
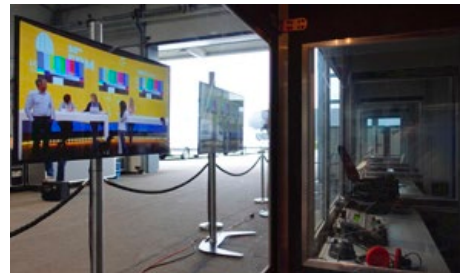
*I'm a Lohmann Breeder,  
a global leader  
a Lohmann Layer,  
a global player  
Adapting to your needs and nothing less!  
I'm a Lohmann Breeder,  
a global leader  
a Lohmann Layer,  
a global player  
With DNA bred just for your success  
(x2)*

*With Lohmann chicks bred just for your success!*

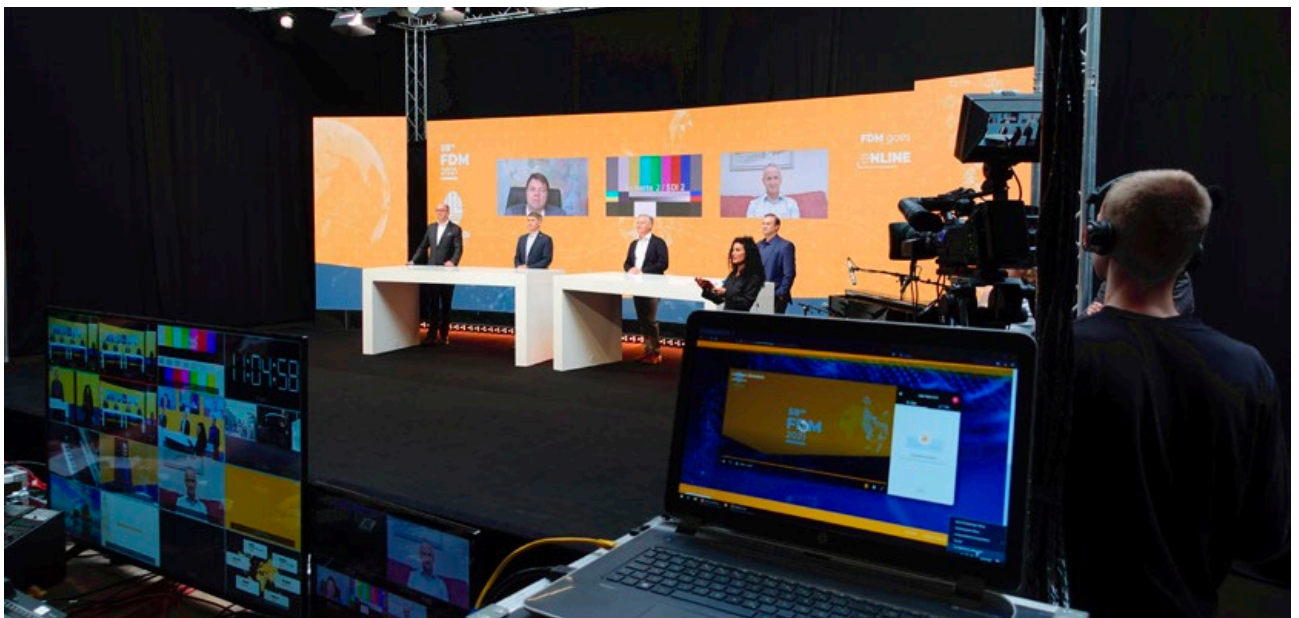
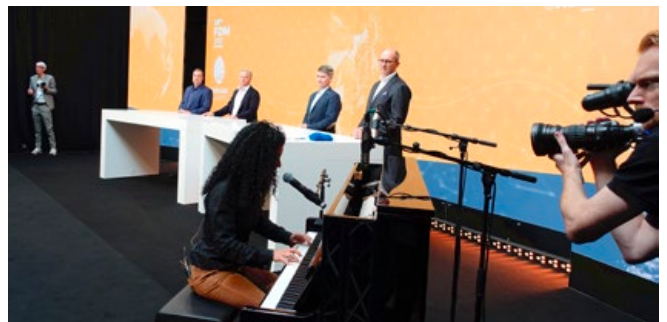
**We hope to sing it all together at our next Franchise Distributor Meeting in Hamburg. When hopefully it will no longer have to be called FDM goes ONLINE but can finally be named FDM goes to Hamburg! We will keep you informed in the near future.**



PLAY VIDEO







# LOHMANN SCHOOL GOES ONLINE



LOHMANN  
SCHOOL



## Our premiere was a complete success!

Due to the ongoing Corona situation, we had to cancel our **LOHMANN SCHOOL** in Cuxhaven this year and change the concept of the event. Therefore, the **LOHMANN SCHOOL**, well known to all customers, became the **LOHMANN SCHOOL goes ONLINE**.

## Challenges and new opportunities

The new concept presented us new challenges but also opened up completely new possibilities. The number of participants was unlimited and so also clients of our customers could be considered and invited.

**Thus we reached the proud number of 1500 registrations and 600 to 1000 viewers per day!!! A really enormous result.**

Another great advantage was that we could offer the training in two different time zones and in three different languages, English, Spanish and Russian, at the same time. The translations of the lectures were done by our own experts. This gave us the security of a technically and linguistically absolutely correct translation.

*The new concept presented us new challenges but also opened up completely new possibilities. The number of participants was unlimited and so also clients of our customers could be considered and invited.*



## New concept with high-quality content

With the online presentation, most of our experts entered new territory, because they now had to speak in front of a camera instead of a live audience. But all of them mastered this with bravery. The content was of course well-founded and of high quality, just as our clients are used to from the training courses.





### 3 days full of information

The first day started of course with the origin of everything, the hatching egg. Our poultry experts **Mark Allen**, **Thomas Calil** and **Davide Assirelli** referred to the protection of the hatching egg as a “**perfect package**” and improving its condition for improving the chick quality. Then we went on with **Farhad Mozafar**... but watch out: “**ATTENTION! Baby chicks on board**”!

We started the second day with our core business genetics when **Dr. Matthias Schmutz** and **Björn Andersson** inform us about improvements and the current status.

Then we wanted to “**fuel the machine**” with **Juan Valle** who talked about nutrition. Afterwards, we went back to the basics of rearing management and nutrition with **Mohammed Chairi** and **Robert Pottgüter**.

At the end of the day, **Dr. Andreas Bublat** “**built up a protective shield**” with the right vaccination.

But the third day was also not to be missed covering basics like management and feeding of layers in production, two lectures given by our experts **Mohammed Chairi** and **Robert Pottgüter**. Then we moved from the basics to two current topics. **Dr. Matthias Voss** highlighted Poultry Health in the layer industry 2021.



And for some of you everyday life for others maybe a whole new field but worth and interesting to look at: **Cage free management**, an interesting and interactive talk by our specialists **Mark Allen** and **Juan Valle**.



## Leisure and social interaction is also possible online

All those who have already attended our **LOHMANN SCHOOL** know that this event is also characterized by social interaction in the group of attendees. We always offer a leisure program after the lecture days to create a family atmosphere among the participants, which also always has a positive effect on the discussion rounds during and after the lectures.

Of course, all this came up a bit short in an online format. But we as marketing department tried to remedy this a little and bring a piece of our beautiful, and weather-wise rather mixed, Cuxhaven into the world.



In addition, many spectators followed our call to take a selfie of themselves while participating in the event. So nobody felt completely alone in front of the screen.





# LPN CONGRESS & EXPO **RETURNS**



After being postponed a couple of times due to the pandemic, the event finally took place from **13. – 15. October 2021**.

The aim of the event is to bring together participants from all links in the production of eggs and broilers. **LOHMANN played a special role in this event.**

**We were the only layer breeding company that had an own stand at the fair and that actively participated in the congress.**



**The congress exceeded expectations with the participation of approximately 1.000 attendees, 45 speakers and 39 exhibition booths.**

**Our stand was simple, but with an excellent appearance.** The whole set-up allowed for pleasant customer conversations and at the same time the social distancing required nowadays.

**Our promotional material was well received. As most of the visitors to our stand were “insiders”, they were of course already looking for our updated management guides.**

## LPN Concept

On the first day, three workshops were held in parallel:

- **One on incubation**
- **A second on mycotoxin management**
- **And the third on layers**

On the following days, the presentations were divided into three sections on **egg production, broilers and nutrition**.

After the presentations, a discussion between various experts from the Latin American poultry industry took place in the centre of the exhibition area. **Topics here included animal welfare, alternative production systems and the use of antibiotics.**

*On the first day, three workshops were held in parallel, one on incubation, a second on mycotoxin management and the third on layers.*



## First Day - Workshop LOHMANN BREEDERS

We could win two external speakers for our workshop:



**Mrs Maritza Tamayo Salmoran and Mr Roberto Becerra Olmedo.** Our workshop was divided into three different parts.



The first part was presented by our colleague **Mr. Matheus Alves** under the title *"Critical points in the rearing and production of laying hens with a long laying period"*.

Secondly, **Roberto Becerra Olmedo** had the floor. This was about *"Trends in egg production and animal welfare"*.

**Mrs. Maritza Tamayo Salmoran** concluded with her presentation on *"How to strengthen and evaluate the immunity of laying hens in a long production cycle"*.

**After our workshop, which was by far the most attended with 128 participants, the three speakers found their way to our stand and were available for questions and discussions.**





## Second Day - technical presentations moderated by LOHMANN

Our colleagues from the Technical Service Team **Braulio Ruiz** and **Matheus Alves** both took over the moderation in the “Egg Production Room” and also later in the central debate.



They both represented LOHMANN excellently. There was extremely positive feedback from participants and the congress team.

## LOHMANN & LPN Congress - a perfect duo

Participating in the **LPN Congress** was absolutely the right decision. The event was very productive for us. **We were able to meet important representatives of our industry.**

On the one hand, the **LPN Congress** showed us our stability and reputation on the market and, on the other hand, we also had the opportunity to make new contacts.

**We are already looking forward to next year, when it will be LPN Congress in Miami again.**

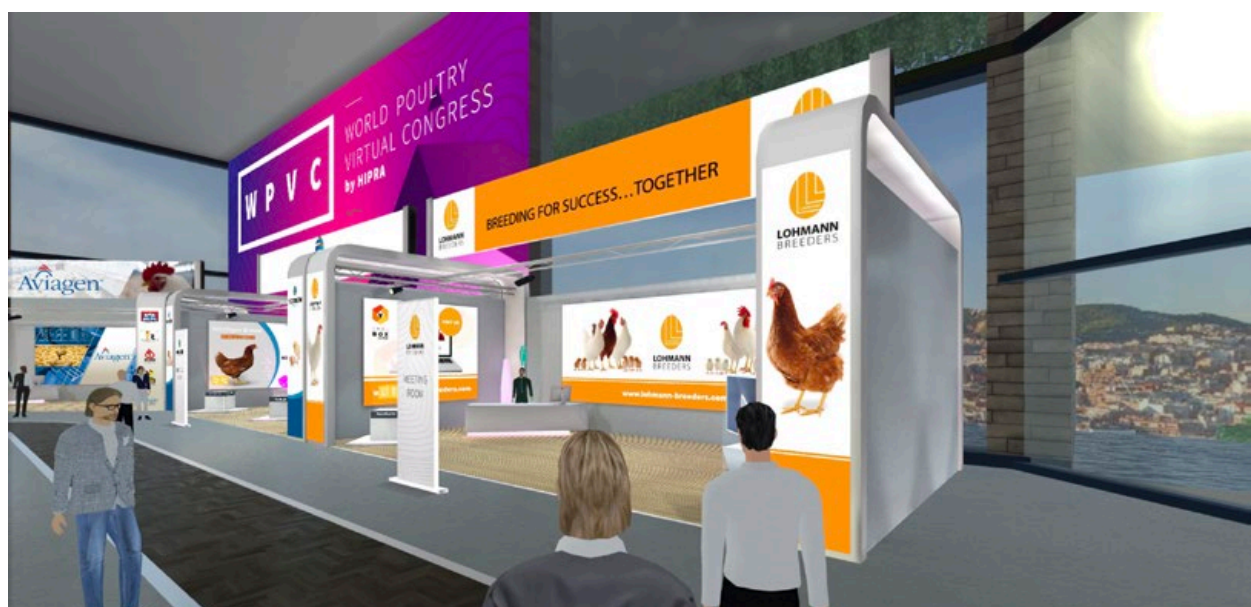




# LOHMANN BREEDERS AT WPVC BY HIPRA

## OVERCOMING THE CHALLENGES IN POULTRY HEALTH

Many visitors and interested people came to the virtual exhibition platform and visited our stand. Numerous lectures were offered during the event, which were equally well attended.



The presentations of our experts **Robert Pottgüter** “Feeding in production period - for overall efficiency” and **Dr. Matthias Voss** “Fowl Adenovirus - a pathogen with many faces” were well received and also the following question & answer sessions were gratefully accepted by the audience.

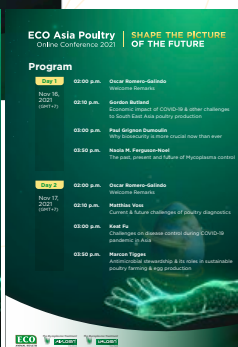
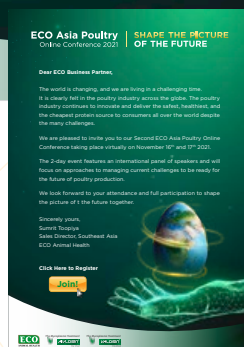


**Participating in HIPRA's World Poultry Virtual Congress (WPVC) was a great opportunity for us to welcome industry professionals, hatchery and technical specialists as well as business newcomers.**



# SUMMARY WEBINARS

## TECHNICAL SERVICE ACTIVE WORLDWIDE!



## Online Seminar Layer Short Course Episode III

วันพุธที่ 14 กันยายน 2564  
เวลา 14:00-16:30 น.

zoetis

**โดย Keynote Speakers**

- Key Management for Cage-free Egg Production:**  
Dr. Mark Allen (Lohmann Breeders GmbH)  
\*ประธานและผู้จัดการฝ่ายเทคนิค\*
- Nutrition Management for Cage-free Production:**  
Dr. Juan Valle Diaz (Lohmann Breeders GmbH)  
\*ประธานและผู้จัดการฝ่ายเทคนิค\*
- Key Nutrition Factors of Laying Period:**  
Dr. Matthias Voss (Lohmann Breeders GmbH)  
\*ประธานและผู้จัดการฝ่ายเทคนิค\*

Zoom ID: 947 6424 5431

### BRONZE SPONSORS



LOHMANN BREEDERS

### NPC Nordic Poultry Conference

**TUESDAY 9th NOVEMBER**

**WEDNESDAY 10th NOVEMBER**

**COFFEE BREAK & LUNCH IN THE EXHIBITION AREA**

**COFFEE BREAK & LUNCH IN THE EXHIBITION AREA**

**COFFEE BREAK & LUNCH IN THE EXHIBITION AREA**



**Mark Allen.**  
Global technical Service  
Flock Management

### BioChek SMART VETERINARY DIAGNOSTICS

Inscription à la réunion

**Tema:** BioChek 2021 Asia Technical Talk-Layer Breeder Flock Health Management and Monitoring

**Description:** Webinar time 网络研讨会时间  
Date: 28th October 2021 (日) 2021年10月28日  
Time: 09:00  
4:00 PM Seoul, Tokyo, Manila, Kuala Lumpur, Singapore, Beijing, Hong Kong, Shanghai  
5:00 PM Bangkok, Hanoi, Jakarta, Medan, Palembang, Surabaya  
6:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
7:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
8:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
9:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
10:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
11:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
12:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi

**Speakers 演讲者:**  
Dr. Matthias Voss, Veterinary Scientific Director, LOHMANN BREEDERS GmbH  
Matthias Voss, 洛曼罗素集团技术总监

**When we confirm 注册确认:**  
\*注册费: 0元, 现场

**Place:** 9.4th, 2021, 02:00



**Dr. Matthias Voss.**  
Veterinary Scientific Director

### BioChek SMART VETERINARY DIAGNOSTICS

Inscription à la réunion

**Tema:** BioChek 2021 Asia Technical Talk-Layer Breeder BioSecurity

**Description:** Webinar time 网络研讨会时间  
Date: 28th October 2021 (日) 2021年10月28日  
Time: 09:00  
4:00 PM Seoul, Tokyo, Manila, Kuala Lumpur, Singapore, Beijing, Hong Kong, Shanghai  
5:00 PM Bangkok, Hanoi, Jakarta, Medan, Palembang, Surabaya  
6:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
7:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
8:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
9:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
10:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
11:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi  
12:00 PM Dhaka, Colombo, Delhi, Hyderabad, Kolkata, Lucknow, Mumbai, New Delhi, Pune, Ranchi, Varanasi

**Speakers 演讲者:**  
Dr. Andreas Bublat, Global Technical Service, LOHMANN BREEDERS GmbH  
Andreas Bublat, 洛曼罗素集团技术总监

**When we confirm 注册确认:**  
\*注册费: 0元, 现场

**Place:** 28.10.2021, 02:00 p.m., on Google



**Dr. Andreas Bublat.**  
Key Account Manager

# CUSTOMER DAYS OF GEFLÜGELZUCHT TER HEERDT **A GREAT SUCCESS**



**Geflügelzucht  
ter Heerd GmbH**

Since January 2012, **Geflügelzucht ter Heerd** has been a **LOHMANN BREEDERS** distributor in the Netherlands and Belgium. For several years **Geflügelzucht ter Heerd** has also been successfully selling chicks and pullets in Germany.

**A satisfied group of almost 100 companies** has been built up over the years. In addition to excellent genetics, customers particularly appreciate the **competence, transparency and reliability of Geflügelzucht ter Heerd**.

---

## Tradition that counts

On 11 and 18 November Geflügelzucht ter Heerdt organised the traditional customer days for its customers in Germany, this time in Haselünne and Twist.

**Both events were very well attended, with more than 100 participants in total! A reception with coffee and cake was followed by several presentations on current topics in the layer business.**

*Both events were very well attended, with more than 100 participants in total! A reception with coffee and cake was followed by several presentations on current topics in the layer business.*

## Topics of interest



**Julian Tieben**, Sales Consultant, explained the development of Geflügelzucht ter Heerdt on the German market.



Afterwards, **Jos Eringfeld**, Managing Director at Geflügelzucht ter Heerdt, explained how to successfully implement the “no chick killing” issue. He believes Geflügelzucht ter Heerdt is very well positioned with the Plantegg process for sex determination in the early developmental stage of the embryo in the egg and is therefore looking to the future with confidence.



**Wim Lettink**, technical director, illustrated the challenges in the planning of pullets and clarified how complicated the chick and pullet business is under the constantly changing conditions..

The **Korf-Pohlmeier family** then gave the audience an insight into pullet rearing, which led to lively discussions, but that's how it should be at a customer conference after all.



## LOHMANN LSL Lite - positive response

The adjustment of the LSL Lite hen's performance profile, which was announced from the beginning of 2021, **is already showing positive results**. Several participants reported good performance. They particularly appreciate the hen's calm, robust behaviour.

## A successful closing



Finally, Sales Manager **Alwin Janssen** and his team congratulated the numerous jubilarians who have been buying their pullets from Geflügelzucht ter Heerdt for 10 years and more.

**Culinary delights were not neglected. After a delicious buffet, all participants went home satisfied. An informative and successful event came to an end.**

**LOHMANN BREEDERS is proud to have a competent partner in Geflügelzucht ter Heerdt and we look forward to the next customer event!**







430  
Eggs/Hen Housed  
to 95 Weeks  
of Age

*Highest Number  
of Saleable Eggs*

**LOHMANN BROWN-CLASSIC**

**FOR EVERY MARKET  
THE RIGHT EGG**



[www.lohmann-breeders.com](http://www.lohmann-breeders.com)

BREEDING FOR SUCCESS... TOGETHER



**LOHMANN  
BREEDERS**

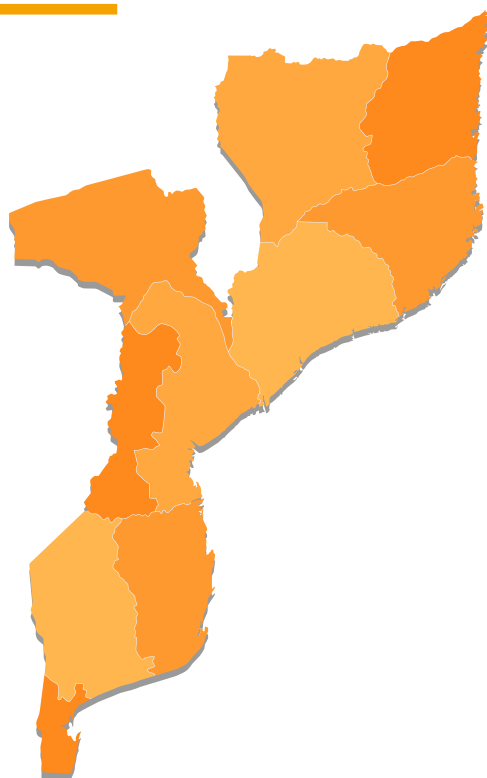




# LOHMANN BREEDERS AND INTERNATIONAL EGG FOUNDATION

## HOLD GLOBAL EGG SCHOOL IN MOZAMBIQUE

Following LOHMANN's continuous education program commitment around the globe, this time a team of experts from LOHMANN BREEDERS discussed some important aspects of bird management, biosecurity and vaccination with egg producers from Mozambique.





## 4 hours packed with expert knowledge

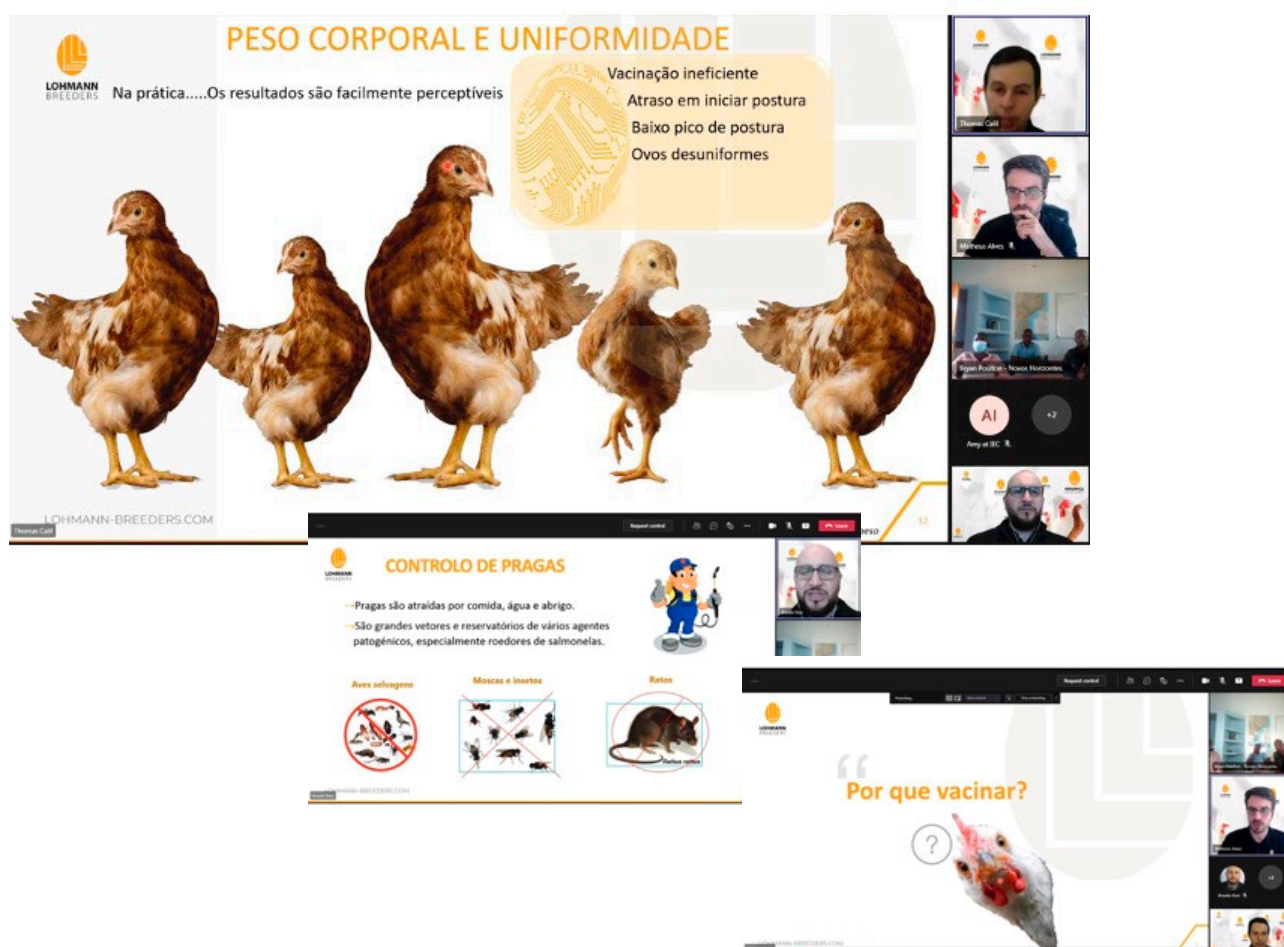
With the help from International Egg Foundation a 4 hours training was given on July 7<sup>th</sup>.

The Global Egg School was tailored specifically to the individual needs of the chosen area and participants.

## Topics

**Thomas Calil** presented the basic management points of rearing layer chickens, whereas **Braulio Ruiz** presented paramount aspects of farm biosecurity and bird health.

**Matheus Alves** finalized it covering important vaccines principles and practical advice for vaccine handling, vaccination methods and procedures.





## Q&A

Participants could then bring up their questions focused on their local circumstances and the groups had a fruitful Q&A session.



**We would like to thank IEF for making this possible to interact with Mozambiqueans attendees. We look forward to being able to make real visits again soon in order to expand our contribution network in Mozambique which has started in 2019.**





Shell Breaking  
Strength  
>40 Newton

*It Still Takes a lot to Crack  
a LOHMANN Egg -  
Now More Than Ever!*

**FOR EVERY MARKET  
THE RIGHT EGG**



[www.lohmann-breeders.com](http://www.lohmann-breeders.com)

BREEDING FOR SUCCESS... TOGETHER



**LOHMANN  
BREEDERS**





# SAKURA MEETING 2021

The Japanese cherry blossom is one of the most important symbols of Japanese culture. It stands for beauty, departure and transience.

Cherry blossom time marks a high point in the Japanese calendar and the beginning of spring, which bathes Japan in a pink-white sea of cherry blossoms (almost half of all deciduous trees in Japanese cities are cherry trees).

That is why the time of the cherry blossom is also a favourite holiday and travel season in Japan, unfortunately our LOHMANN experts could not travel to Japan this year.

## The well-established Sakura Meeting of our sister company Ghen Corporation

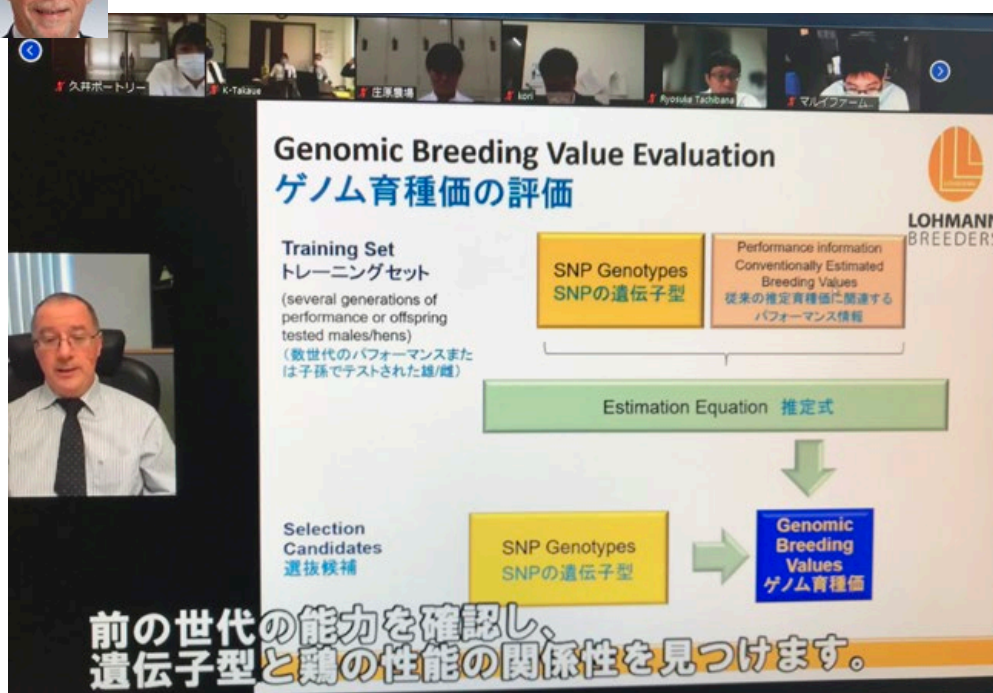
Just like the annual cherry blossom, the well-established Sakura Meeting of our sister company **Ghen Corporation**, which distributes more than one million layer parent stock chicks, is also an integral part of this time.

**Every year, 20 associated hatcheries participate in the Sakura Meeting, which highlights various aspects related to layers and parent stock.**

Although Japan's cherry blossom was completely unaffected by Corona, Ghen Corporation had to come to terms with the ongoing pandemic situation. Therefore, the traditional Sakura Meeting was held as a virtual version this year. But even in this format, the LOHMANN poultry experts did not miss the opportunity to participate.

**Dr. Matthias Schmutz**, chief geneticist at LOHMANN gave a genetics update tailored to our LSL. **Dr Andreas Bublat**, veterinary specialist, and **Dr Matthias Voss**, veterinary scientific director, illustrated the great importance of sound biosecurity procedures.

*Although Japan's cherry blossom was completely unaffected by Corona, Ghen Corporation had to come to terms with the ongoing pandemic situation. Therefore, the traditional Sakura Meeting was held as a virtual version this year.*



Of course, the online version of the Sakura Meeting did not lack the traditional question & answer sequence. The experts from **Ghen Corporation** discussed all open points and questions around the presentations raised by the audience.

Even though the virtual Sakura Meeting was in no way inferior to an on-site event in terms of quality and standard, we and our poultry experts hope to be able to experience the time of the cherry blossom directly in Japan again next year.







*It Still Takes a lot to Crack  
a LOHMANN Egg –  
Now More Than Ever!*

**FOR EVERY MARKET  
THE RIGHT EGG**



[www.lohmann-breeders.com](http://www.lohmann-breeders.com)

BREEDING FOR SUCCESS... TOGETHER



**LOHMANN  
BREEDERS**



# 12<sup>TH</sup> SUMMIT FORUM

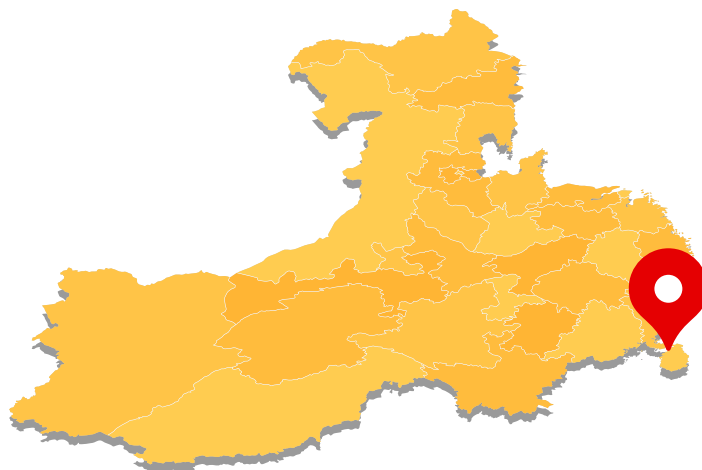
## OF CHINA LAYING HEN 320 INDUSTRY ALLIANCE

### FUSE, ECOLOGY AND VALUE

The 12<sup>th</sup> Summit Forum of China Laying Hen 320 Industry Alliance was held in Haikou from June 17 to 18, 2021.

With the theme of “Fuse, Ecology and Value”, the summit discussed how to optimize the upstream and downstream costs of egg production under the background of new consumption and explore the value chain of egg processing.





## Who attended?

Many professors and experts from the poultry sector were invited to the summit, e. g. from Sichuan Agricultural University, Huazhong Agricultural University, Sichuan University, LOHMANN BREEDERS, International Layer Distribution.

In addition, about 200 people from Sun Daily Farm, Beijing Kangmu Biotechnology, Big Dutchman, Qingdao Yebio, Tianjin Ringpu, Shanghai Menon and other Alliance Council Units and some more representatives of layer breeding companies from all over the country participated.

## LOHMANN BREEDERS' expertise counts

**Dr. Matthias Voss, Veterinary Scientific Director of LOHMANN BREEDERS, did his presentation "POULTRY HEALTH IN THE LAYER INDUSTRY 2021" in recording video, he discussed the global topic of Covid 2019 specifically in animals together with Avian Infectious Bronchitis, shared his knowledge in other layer housing challenges like MG, MS, AI, their related prevention ways and the importance of biosecurity.**

*Dr. Matthias Voss shared his knowledge in other layer housing challenges like MG, MS, AI, their related prevention ways and the importance of biosecurity.*



*Dr Antonio Paraguassu analyzed the similarities and differences between China and the development process of the layer industry in developed countries and judged the Chinese egg market to be strong and promising*

## The Chinese egg market

**Dr Antonio Paraguassu, Managing Director of ILD**, gave a presentation on “The current status of the Chinese layer industry and the development trend in the next 20 years from the perspective of breeding enterprises”.

He analyzed the similarities and differences between China and the development process of the layer industry in developed countries and judged the Chinese egg market to be strong and promising.





## Future with LOHMANN



**LOHMANN is one of the world's leading companies in laying hen breeding providing high quality, high performance birds to China with its balanced breeding system and new breeding techniques. LOHMANN BREEDERS will continue to improve the performance of laying hens in the future.**





# MR. GERALDO JOSÉ DE SOUZA PINTO **PLANALTO POSTURA**

**We remember a good and long-time business partner and an extraordinary person.**

Already in March 2021, **Mr. Geraldo José de Souza Pinto**, Sales and Service Manager of **Planalto Postura** in Brazil, passed away.

He had to fight a severe cancer 2 years ago. At the end of last year, he even won the fight against Covid, unlike his wife who unfortunately did not make it. But early in 2021, the cancer came back stronger than ever and took his life within a few days.



We have had a successful business relationship with **Planalto Postura** for many years, dating back more than 20 years and continuing to this day. With him, **Planalto** has achieved important milestones such as the consolidation of **Lohmann** success in Brazil, being a longstanding leading layer breed in such a large market.

During this long time we had the opportunity to meet **Mr. de Souza Pinto** several times and to get to know him from his private side as well. It was always a pleasure to meet him and especially the professional exchange was always enriching for both sides.

We will always remember **Mr. de Souza Pinto** as an exemplary and committed expert in his field. A special person whom we greatly admired for his friendly and sympathetic nature, his extensive knowledge and his commitment.

**Our sympathy is with his family even after this prolonged period of mourning.**

*Mr Geraldo José de Souza Pinto, more than just an example of professionalism and dedication, has left us.*

*A special human being who we all admired for his fellowship, wisdom, and commitment.*

*Planalto Postura team is grateful for having shared his experience along more than 20 years next to us.*

*Rest in peace.*

# NEW COLLEAGUES

## Esra Evrenkaya

In August 2021 **Esra Evrenkaya** joined our **Global Technical Service Team as a nutritionist.**



She lives in Turkey and is a **certified Veterinary Specialist in Poultry** and worked as a livestock manager in a big layer company in Turkey which has one and half million layers in production.

**During this period, she decided to learn more about chicken (layer/poultry), especially in the feeding sector, as this is a major cost factor in poultry farming.**

Esra started her PhD education at Ankara University at the faculty of agriculture department of animal nutrition. **With this development her new title becomes a nutritionist.**

**At the same time, she built a R&D department and she had studies about probiotics, amino acids, NIR calibrations.**



## Eduardo Bernardi

**Eduardo** joined LOHMANN in August 2021 as the **Business Development Manager for Asia Pacific**.



Although new to LOHMANN BREEDERS, **he is not a new face to Cuxhaven, where he has lived and worked at LAH, and neither to the LOHMANN family, where his wife has previously been part of the laboratory team.** They now live in Queensland, Australia, not too far from their twin boys.

With a veterinary degree, **Eduardo's poultry experience comes from different stages of his life**, with poultry breeding, feeds, vaccines, and equipment, in positions based in Brazil, Canada, Germany, Malaysia and New Zealand.



## Xinye Yang

**Xinye Yang** also joined LOHMANN and the **marketing department** in August 2021.



**She has a bachelor's degree in Arts and Business Administration and a master's studies in Sociology.**

In the past 5 years, she worked as an **Executive Manager in a manufacture.** Responsible for marketing development and export-business support.

**Along the years, Xinye has organized trade fairs, events and developed different marketing projects.**





# PODCAST BY **LOHMANN**

## **LISTENING INSTEAD OF READING**



## **PODCAST** by **LOHMANN**

**Everyone is talking about podcasts. And we don't want to ignore this trend either.** We have had the idea of providing a podcast for our customers for a long time, but it was not until we redesigned our website that this project gained momentum.

With the various subject areas that we now make available to you on our website, **we saw an opportunity to also put the articles published there to music.**

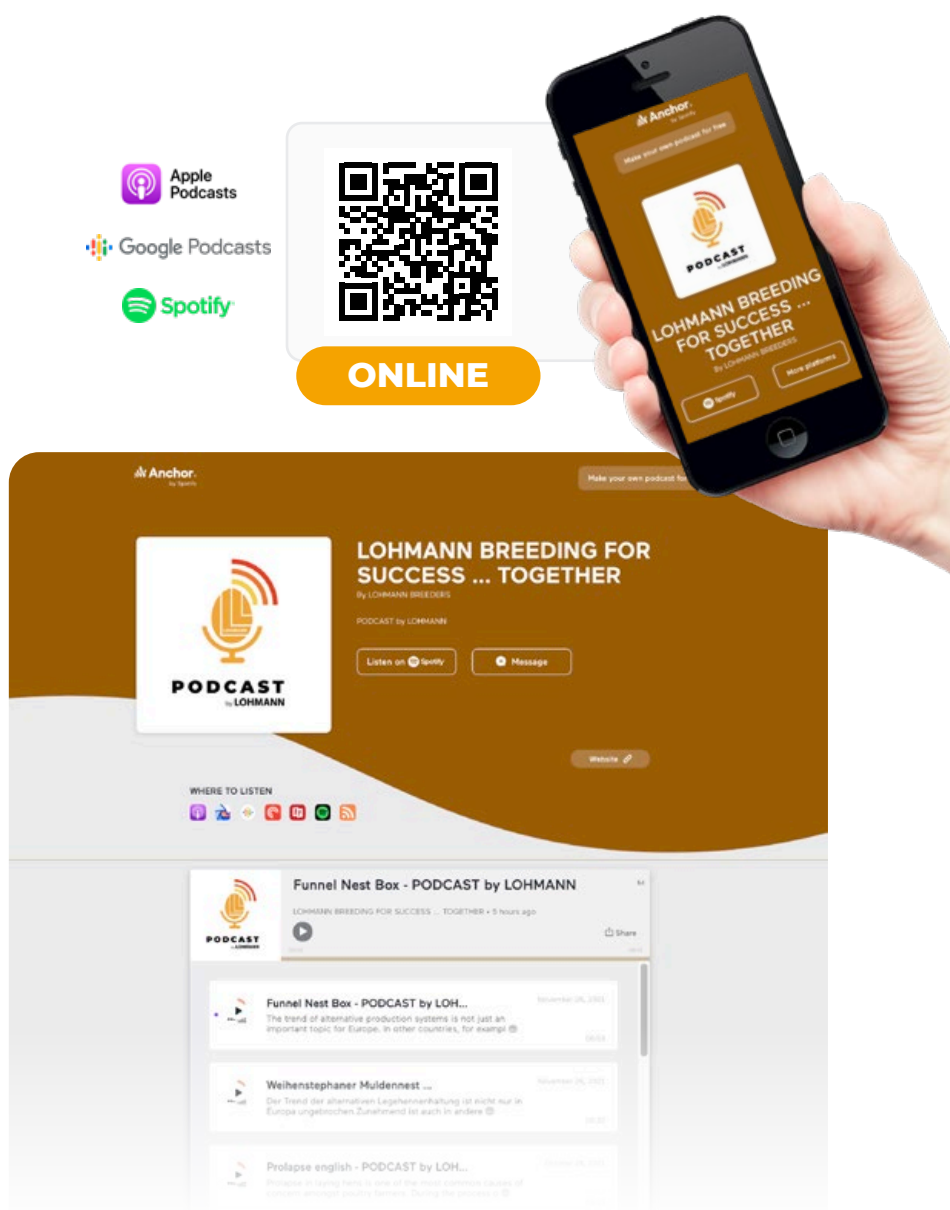
**Now you have the opportunity to consume the content there without having to read it. You can listen to our PODCAST by LOHMANN while driving to work or during a flight to a customer.**

Right now, we offer it in German and English but other languages will certainly follow in the near future.

We are constantly working on this exciting new format. For the next year we already have planned some episodes which you can look forward to. So, stay tuned for what's to come and subscribe to our **PODCAST by LOHMANN**.

You can find it at the following providers:

*“Knowledge at the touch of a button”*



# THANK YOU FOR YOUR PARTICIPATION IN OUR CAMPAIGN!



**For every management the right hen for every market the right egg**, our motto should also be yours! Because it still applies:



We have designed our advertisement with your logo -  
**here again a small overview!**



**You missed our action? No problem, of course,  
 you can still participate. How? Read here:**





# LOHMANN CALENDAR 2022 **FROM OUR CUSTOMERS - FOR OUR CUSTOMERS**

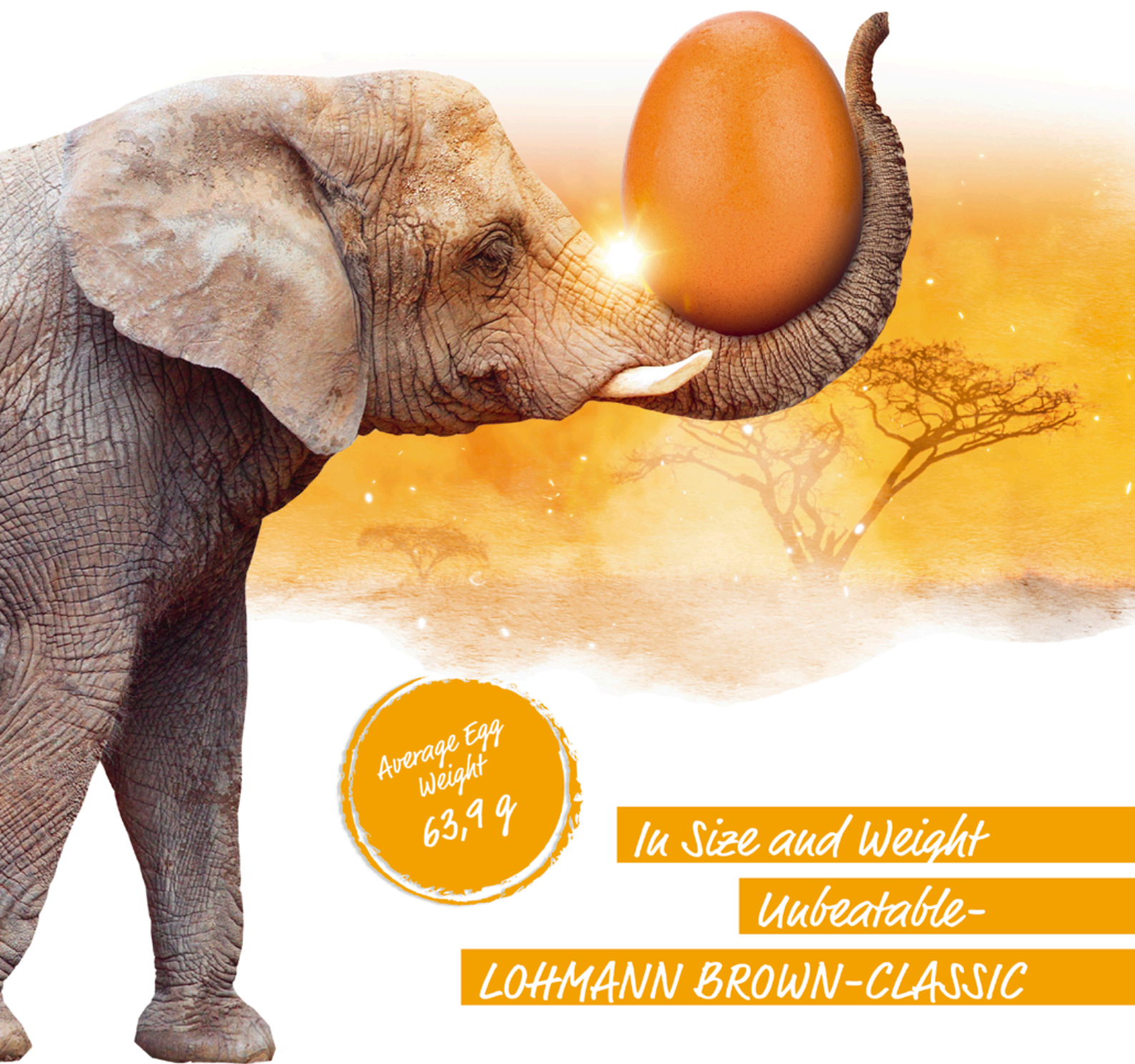


Now the time has finally come:  
our **LOHMANN calendar 2022**  
**From our customers – for our**  
**customers is ready!**

Your ideas were needed this  
time and we received numerous  
design suggestions from you.  
**Thank you for your support.**  
**You will be able to see the**  
**result soon, be curious!**

*Special thanks to:*





Average Egg  
Weight  
63,9 g

*In Size and Weight  
Unbeatable-*

**LOHMANN BROWN-CLASSIC**

**FOR EVERY MARKET  
THE RIGHT EGG**



[www.lohmann-breeders.com](http://www.lohmann-breeders.com)

BREEDING FOR SUCCESS... TOGETHER



**LOHMANN  
BREEDERS**

# VISIT OUR TOOLBOX

## Your box full of technical tools!

No ordinary box, but a **box full of practical and relevant management tips** for the modern layer market, regularly filled by our **LOHMANN team of experts** on the topics of **management, nutrition, veterinary** and **incubation**.

You will see, a regular visit is worth it – for you and for your business!

---



T O O L  
**BOX**  
by **LOHMANN**

What happened so far:



Prolapse  
in layers



Vision of  
Poultry



Egg weight  
loss



Single stage  
and multi stage  
incubation systems



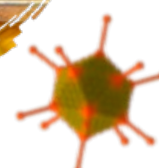
Salmonella, a widespread  
problem in poultry  
farming worldwide



Avian  
Influenza



Fowl Adenovirus  
Infections



Grit



Feed  
presentation



Gut Health in  
pullets and  
laying hens

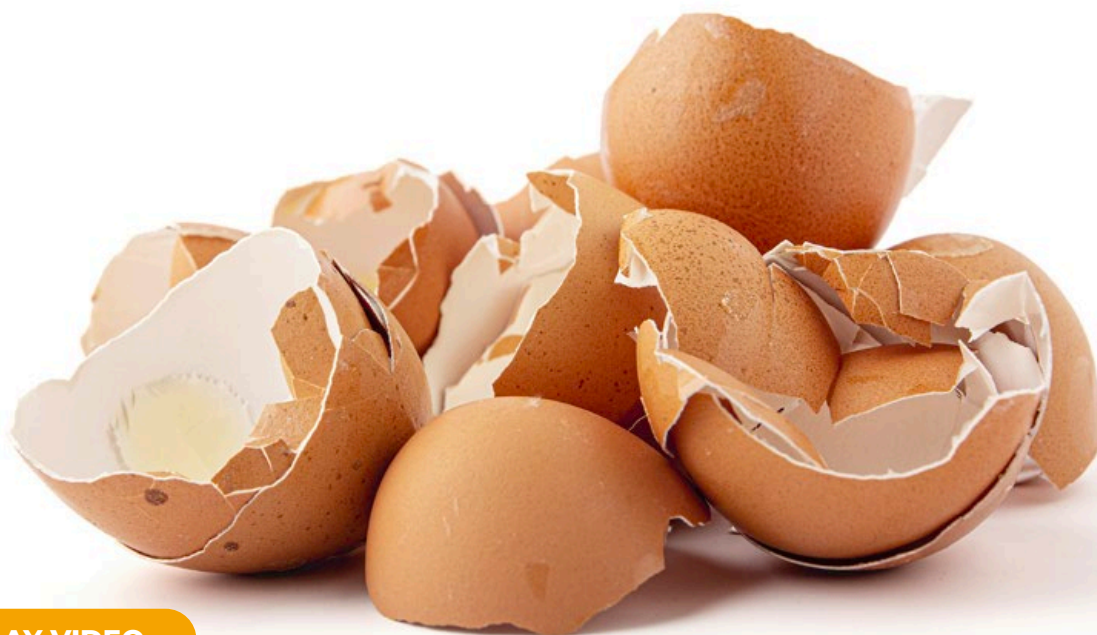


Feed Intake  
in cage free  
production





# LOHMANN'S EGG WORLD **TIPS AND TRICKS AROUND THE EGGSHELL**



PLAY VIDEO



It's hard to crack a **LOHMANN egg**, but when you've done it, don't throw the shell away! You can do a lot with it!

**We present you 6 surprising tricks for daily life!**

---

## Filter Coffee

If the filter coffee tastes too bitter, it helps to add a piece of clean eggshell to the coffee filter. **This makes it milder.**



## Beauty Tip

Crushing eggshells in a mortar and then mixing them with an egg white makes a **refreshing face mask** for firm healthy skin.

**However, the eggshells should be washed thoroughly beforehand and disinfected in the oven at 100 degrees for 10 minutes.**



## Knives



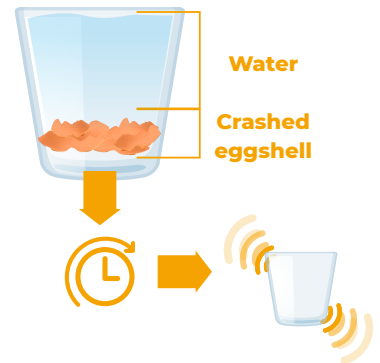
Crumbled eggshells **can be frozen together with water** to make a lime block on which you can then sharpen knives perfectly.



## Dirt rims

**Egg shells remove dirt rims in glass vases.**

Put in **one third of crushed eggshell** and **two thirds of water** and leave overnight - shake and ready for use!



## Plant protection

**Eggshells also help against snail plagues.**

Against snail plague in the garden it helps to scatter crumbled eggshells around the plants. **The snails do not crawl over them with their soft bodies and thus stay away from the plants.**



## New life

**An eggshell is an excellent and decorative planter for seedlings.**









# LOHMANN BREEDERS

## Imprint

Editor

**LOHMANN BREEDERS GmbH**

Am Seedeich 9-11

27472 Cuxhaven, Germany

Phone: + 49 (0) 47 21 505-0

Fax: + 49 (0) 47 21 505-222

**[www.lohmann-breeders.com](http://www.lohmann-breeders.com)**

E-mail: [info@lohmann-breeders.com](mailto:info@lohmann-breeders.com)