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ISC 2025

XX INTERNATIONAL SILAGE CONFERENCE

JULY 21-24, 2025 | GAINESVILLE, FL USA

CONFERENCE PROGRAM BOOK






HOST ORGANIZATIONS

GLOBAL FOOD SYSTEMS INSTITUTE

ANIMAL SCIENCES

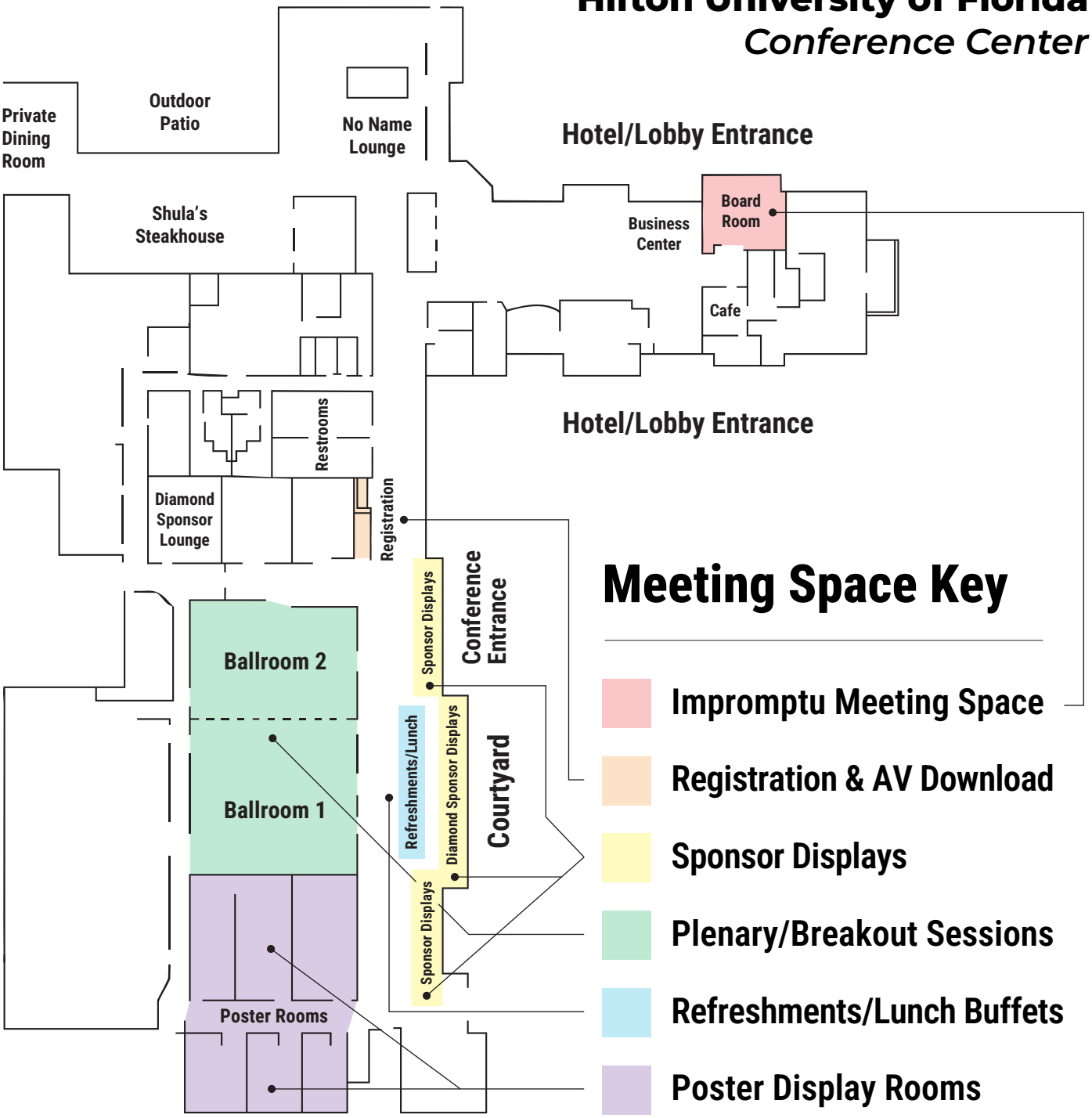
UF IFAS UNIVERSITY of FLORIDA

UF/IFAS AGRONOMY DEPARTMENT

FORAGE TEAM

MEETING SPACE LAYOUT

Hilton University of Florida
Conference Center



Meeting Space Key

- Impromptu Meeting Space
- Registration & AV Download
- Sponsor Displays
- Plenary/Breakout Sessions
- Refreshments/Lunch Buffets
- Poster Display Rooms

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ISC 2025

XX INTERNATIONAL SILAGE CONFERENCE

July 21-24, 2025

Gainesville, FL USA

Wi-Fi: Hilton Honors Meeting | Password: Welcome

TABLE OF CONTENTS

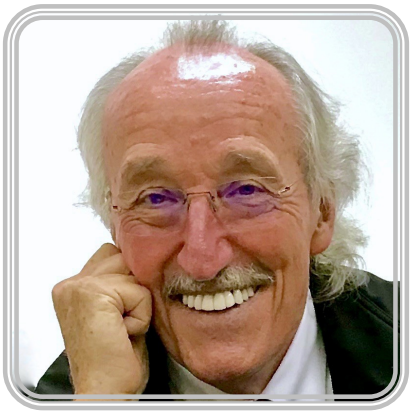
Name Badge

Your name badge is your entry pass to all networking events at ISC 2025, so please wear it throughout the conference. As a reminder, due to spacing constraints, *guests are not permitted.*

In honor of

DR. KEITH BOLSEN

"A Lifelong Legacy in Silage Science and Safety"



Dr. Keith Bolsen was a pioneering force in the field of silage production and management, dedicating his life to advancing forage science and ensuring the safety of those who work with silage. From his earliest academic endeavors to his final public outreach efforts, Dr. Bolsen's contributions left a profound and lasting impact on both the scientific community and agricultural producers around the world.

Dr. Bolsen began his academic journey with a B.S. in Agriculture from Kansas State University, followed by an M.S. and Ph.D. in Dairy Science from the University of Nebraska–Lincoln. His early research focused on the microbiology and preservation of silages, laying the foundation for a career that would span decades and redefine best practices in forage conservation.

In 1971, Dr. Bolsen joined the faculty at Kansas State University, where he built an internationally recognized silage research program. He authored or co-authored over 100 peer-reviewed articles and hundreds of extension and industry publications. His work helped revolutionize the way silage is harvested, stored, and fed, which promoted improved feed efficiency, livestock health, and farm profitability. Known as a gifted communicator, he trained and mentored countless students, extension agents, and industry professionals across five continents.

In the later years of his career and into retirement, Dr. Bolsen turned his attention toward an often-overlooked issue in agriculture: silage safety. He and his wife Ruth co-founded the Keith Bolsen Silage Safety Foundation, tirelessly advocating for awareness, training, and prevention strategies to reduce the number of fatal and life-altering accidents in silage operations. His message was simple but urgent: no farm duty is worth a life. His efforts in this area brought much-needed attention to the human cost of unsafe practices and sparked a global movement for safer silage management.

Dr. Keith Bolsen will be remembered not only for his scientific contributions, but for his compassion, integrity, and unwavering commitment to the people involved in the multiple aspects of silage making and mentoring professionals. His legacy endures in every silo made safer, in every farm worker better protected, and in every student or farmer inspired by his passion and generosity.

ISC 2025
XX INTERNATIONAL SILAGE CONFERENCE

WELCOME REMARKS FROM HOSTS

Dear Delegates and Attendees,

Welcome to the XX International Silage Conference here in Gainesville, in the heart of Florida and the land of the Gators! As your hosts, we are thrilled to welcome you to a gathering that celebrates innovation and collaboration in silage research and application across the world. Curiosity, collaboration, and a passion for agricultural innovation bring us together.

This conference is a fantastic opportunity to exchange cutting-edge knowledge, explore new technologies, and build networks that strengthen our field. We are honored by your presence and look forward to the insightful discussions and collaborations that will emerge from this gathering.

We are also excited to welcome you to our community at the University of Florida, a land-grant institution with a strong commitment to agricultural research and global impact. Gainesville offers a unique blend of natural beauty, academic excellence, and Southern hospitality—we hope you take some time to enjoy all it has to offer.

We would like to extend our sincere gratitude to our sponsors, whose generous support has made this event possible. Make sure to visit with our sponsors during the event, as a way to recognize their contribution. Another big thank you to the members of the organization and the scientific planning committees, whose dedication and expertise have shaped a rich and engaging program.

We encourage you to take full advantage of the sessions, poster presentations, field tours, and networking opportunities. Ask questions, share your insights, and connect with colleagues from around the world. Your participation is what makes this conference truly meaningful.

Here's to a fruitful and inspiring conference. Thank you for being a part of this event.

Warm regards,

Diwakar Vyas

Conference Co-chair

UF/IFAS Department of Animal Sciences, Gainesville, FL

Marcelo Wallau

Conference Co-chair

UF/IFAS Department of Agronomy, Gainesville, FL

Dear Friends,

We are looking forward to offering a very warm sunny Florida welcome to each of you as you join us for the XX International Silage Conference here in Gator Country, aka Gainesville. Be sure to plan for very hot and humid days while you are here and we often have heavy but usually brief afternoon rain showers. Also, please note that almost all buildings are air conditioned and the temperature is kept quite low, so you may want to bring a jumper/sweater.

It has been an exhilarating journey planning this conference and we are excited at the prospect of hosting our friends from all over the world in our home town.

Over the decades, the silage community has been a great source of inspiration and motivation and a bedrock of strength and support through hard times to me. It has been a thrilling ride for me to visit and learn so much from many of you in your home countries over the years. From my early days as a student at Reading University learning from the greats like Roger Wilkins, Mike Wilkinson, Emyr Owens, Ian Givens, David Beever, Richard Phipps, and John Sutton, etc. to working with some of you at Reading, Aberystwyth, and Stratford-on-Avon on whole crop wheat and other silages, to visiting, attending conferences with and learning from you in Delaware, Madison, Kansas, Cornell, Israel, France, Germany, Netherlands, Denmark, Brazil, China, Beijing, Peru, El Salvador, Mexico, Argentina, etc., it has been a tremendous blessing, a wonderful privilege and a great experience. So it is with great joy that I look forward to seeing and welcoming you to Gainesville.

The importance of silage has dawned on me more than ever in the last few years as my research focus has shifted from the Global North to the Global South. In most countries in the latter, silage consumption by livestock is still very low, and this is one of the reasons why meat and milk consumption is still so low and greenhouse gas emissions intensity is high in such regions. For instance, I was told that only 2.5% of children in Rwanda consume milk two weeks ago in Kigali. In fact about 30% of African and South/Southeast Asian students and 3% of U.S. children are cognitively and physically stunted because of inadequate availability, affordability and consumption of animal-source foods among other factors, and this condemns them to a lifetime of underachievement. Therefore, on the one hand, the work we do is vital, but on the other, we have a lot still to do to promote silage feeding, particularly across the Global South. In the Global North, we have tremendous opportunities to leverage artificial intelligence to improve the efficiency, profitability, environmental friendliness of silage making, storing and feeding. We look forward to telling you more about how UF is leading American Universities in artificial intelligence with Hyper-Gator, the fastest supercomputer in higher education in the US, a gift from our alumnus who is a founder of NVIDIA, and our 100 new artificial intelligence professors.

I would like to acknowledge the phenomenal and pivotal role that the Silage Mafia (aka the Continuation Group) (Roger Wilkins, Marketta Rinne, Luiz Nussio, Karl-Heinz Sudekum, Xusheng Guo, Fuyu Yang, Richard Muck) have played over the decades in ensuring the continuity of these international conferences. To their credit, they are already working on ideas for the next ISC. Special thanks to them, we will launch the International Science Society at the conference in a few weeks. This is a really exciting development for all of us and I look forward to how this will propel our work and impacts to a higher level.

Special thanks to the Scientific Organizing Committee for all the technical guidance and support, to the Executive Planning Committee for all the logistical and organizational support and to our generous sponsors for their kind donations. Without each of these groups, the conference would not take place.

Looking forward to seeing y'all here!

Warm regards,

Gbola Adesogan

Conference Convener

UF/IFAS Global Food Systems Institute, Gainesville, FL

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XX INTERNATIONAL SILAGE CONFERENCE

All conference documents are available electronically on the 2025 ISC website: **www.isc2025.us**

Scan these QR codes for quick access:

Agenda (PDF)

Posters (PDF)

Abstracts (PDF)

Program Book (PDF)

ABOUT ISC

On behalf of the organizing committee and the University of Florida, we welcome you to the XX International Silage Conference (ISC), hosted by the University of Florida, in Gainesville, Florida.

The ISC is a global platform for sharing and exchanging breakthrough research in areas of silage production, conservation and feeding. Since its inception, it has emphasized the pivotal role of silage in small ruminant, beef, and dairy cow rations, provided unique insights on a wide range of complementary topics including forage agronomy, optimal conservation strategies, silage feeding and nutrition, silage safety, etc.

Over the years, the ISC has inspired new generations of silage researchers and provided an unrivaled forum for networking among silage researchers from different countries. This XX ISC in Florida builds on this rich heritage including the first ISC hosted in the USA in Madison, Wisconsin in 2009. ISC 2025 features the latest science and technology in silage making from the U.S. and other countries around the world and give attendees first-hand experience of the challenges, benefits and intricacies of tropical/subtropical silage making.

History of the International Silage Conferences

The first International Silage Conference was held in Edinburgh, Scotland, in 1970 with 35 participants, all from the United Kingdom. The meeting was considered a “Silage Seminar” and was focused on discussions about present and future research projects, with no submission of abstracts and presentations of research papers. Since then, the International Silage Conference has been held every two or three years in different countries and continents.

2025 COMMITTEE RECOGNITION

Executive Committee

Marcelo Wallau, *Conference Co-Chair,* UF/IFAS Department of Agronomy, Gainesville, FL

Diwakar Vyas, *Conference Co-Chair*, UF/IFAS Department of Animal Sciences, Gainesville, FL

Gbola Adesogan, *Conference Convener,* UF/IFAS Global Food Systems Institute (GFSI), Gainesville, FL

Jessica Bailey, *Conference Coordinator,* UF/IFAS Office of Conferences & Institutes (OCI), Gainesville, FL

Beth Miller-Tipton, *Director*, UF/IFAS Office of Conferences & Institutes (OCI), Gainesville, FL

Ashley Kanobroski, *Conference Liaison,* UF/IFAS Forage Team, Gainesville, FL

Scientific Program Committee

Marcelo Wallau, *Conference Co-Chair,* UF/IFAS Department of Agronomy, Gainesville, FL

Diwakar Vyas, *Conference Co-Chair*, UF/IFAS Department of Animal Sciences, Gainesville, FL

Gbola Adesogan, *Conference Convener,* UF/IFAS Global Food Systems Institute (GFSI), Gainesville, FL

Jose Carlos Dubeux, UF/IFAS North Florida REC & Department of Agronomy, Marianna, FL

Luiz Ferraretto, Animal and Dairy Sciences Department, University of Wisconsin, Madison, WI

Rick Grant, William H. Miner Agricultural Research Institute, Chazy, NY

Limin Kung, Jr., Animal Science Department, University of Delaware, Newark, DE

Nelson Lobos, Corteva, Des Moines, IA

Richard Muck, College of Agricultural and Life Sciences, Modeling Forage Preservation, USDA Dairy Forage Research Center (Retired), University of Wisconsin, Madison, WI

Juan Romero, Animal Nutrition, University of Maine, Orono, ME

Renato Schmidt, Lallemand Animal Nutrition, Milwaukee, WI

Joao Vendramini, Texas A&M AgriLife Research, Stephenville, TX

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We are Lallemand Animal Nutrition, a global leader in fermentation science and a primary producer of yeast and bacteria. Our passion lies in harnessing the power of microorganisms to enhance animal performance, health, and forage quality, ultimately helping producers boost productivity and profitability. With a global team of over 300 R&D scientists collaborating with top research institutes and universities, we remain at the forefront of innovation and scientific advancement. Research is central to our identity, enabling us to identify and develop promising new microbial strains tailored to the specific needs of our target markets. Our innovative microbial solutions support a wide variety of on-farm applications, including our world-leading silage inoculant range, MAGNIVA. We leverage advanced bacterial technologies such as Lentilactobacillus buchneri NCIMB 40788 and Lentilactobacillus hilgardii CNCM-4785 to deliver unmatched silage quality, improved aerobic stability, and consistent results across diverse forage types and environmental conditions.

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bonsilage® is a global leader in the development and production of high-quality forage additives, exclusively distributed in the United States by Provita Supplements, which is part of a respected, family-owned group of companies. Headquartered in Germany, with strategically located subsidiaries in Austria, Brazil, and the USA, bonsilage® benefits from a unique international network of experts specializing in forage preservation. This global presence supports cutting-edge research, continuous innovation, and the in-house development and manufacturing of silage additives. The company's integrated R&D and production facilities ensure the highest quality standards, with every product rigorously tested in laboratories and proven effective in real-world agricultural environments. The bonsilage® product lines offer a wide range of innovative forage additives tailored to meet diverse ensiling conditions, helping to maximize the preservation of nutrients in crops such as alfalfa, sorghum, corn, and grass, ultimately supporting animal health and farm productivity.

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Novonesis biosolutions can help you increase both productivity and sustainability across your operations. By leveraging the combined strengths and innovation capabilities of Chr. Hansen and Novozymes, Novonesis offers a powerful portfolio of advanced biosolutions. These include cutting-edge enzymes and microbial technologies specifically designed to enhance animal performance and feed efficiency. With Novonesis, you can increase the yield and nutritional value of your feed, improve overall animal welfare, and significantly reduce waste and environmental impact. Their solutions are grounded in science and supported by robust, data-driven insights that help optimize feed conversion and animal health. Whether you're aiming to boost profitability, meet evolving regulatory standards, or achieve ambitious sustainability goals, Novonesis provides the tools, knowledge, and expertise to help you succeed. Together, we can shape a more efficient, responsible, and resilient future for animal agriculture—one that benefits producers, animals, consumers, and the planet alike.

Cumberland Valley Analytical Services (CVAS)
foragelab.com/

Cumberland Valley Analytical Services has been a preferred lab services provider for silage analysis over the last 30 years. The lab service operation's mission is to develop and apply analytical systems to better understand animal response to silage-based diets. To that end, Cumberland Valley Analytical Services was the first to introduce the fermentation analysis as a commercial assay in the United States. Development and introduction of other key technologies include in vitro fiber digestibility, mycotoxin analysis by HPLC mass spec, dual-flow fermenters, amino acid analysis, to name a few. Cumberland Valley Analytical Services serves the needs of U.S. clients through its network of U.S. labs and provides services globally through its network of affiliate labs. Cumberland Valley Analytical Services is driven to be the leader in providing analytical services for silage analysis to support the nutrition industry for greater efficiency, improved animal welfare and production, and global sustainability.

CONFERENCE HOSTS

Diwakar Vyas

Conference Co-chair

Associate Professor, Ruminant Nutrition
UF/IFAS Department of Animal Sciences
Gainesville, FL

Dr. Diwakar Vyas is an associate professor in the Department of Animal Sciences at the University of Florida, where he leads a research program focused on enhancing the environmental and economic sustainability of ruminant livestock systems. With a Ph.D. from the University of Maryland, an M.S. from the National Dairy Research Institute in India, and a D.V.M. from the College of Veterinary and Animal Science in Bikaner, Dr. Vyas brings a strong foundation in animal nutrition and veterinary science. His academic and research career includes positions as a research biologist and postdoctoral fellow at Agriculture and Agri-Food Canada, where he gained extensive experience in applied ruminant nutrition. His current work emphasizes optimizing nutritional strategies to improve animal health, production efficiency, and profitability, particularly in dairy cows and small ruminants. Dr. Vyas's research interests include the use of feed additives such as rumen-protected amino acids and enzymes to enhance nutrient digestibility and rumen function, evaluating alternative feed resources in the southeastern U.S., mitigating greenhouse gas emissions through dietary manipulation, and exploring the effects of peripartal and periconceptional nutrition on animal performance and offspring development.

Marcelo Wallau

Conference Co-chair

Associate Professor, Forage Extension Specialist
UF/IFAS Department of Agronomy
Gainesville, FL

Dr. Wallau is a Forage Extension Specialist and Associate Professor in the Agronomy Department and Associate Program Leader with IFAS/Extension at the University of Florida. With a background in Agronomy and Animal Sciences, he works collaboratively across disciplines—including soil science, animal science, agronomy, and natural resources—to develop integrated, science-based solutions for forage-livestock systems. Raised on a family farm in southern Brazil, Dr. Wallau gained a deep appreciation for agriculture and firsthand insight into the challenges faced by producers. This experience shapes his systems-thinking approach, which emphasizes the interconnectedness of environmental, economic, social and management factors in livestock production from a producer's perspective. As a Forage Extension Specialist, Dr. Wallau serves as a key resource for farmers, ranchers, and Extension faculty across Florida and the Southeastern United States. He provides expertise in forage species selection, pasture establishment, grazing management, and forage conservation. His work supports beef and dairy cattle operations, as well as equine systems, with a focus on enhancing productivity, profitability, and long-term sustainability. Through applied research, on-farm trials, and educational outreach, Dr. Wallau is dedicated to bridging the gap between academic research and practical application. His efforts help agricultural communities adapt and thrive in a changing world by building resilient, efficient, and environmentally responsible production systems.

Gbola Adesogan

Conference Convener

Associate Vice President
UF/IFAS Global Food Systems Institute (GFSI)
Gainesville, FL

Dr. Adesogan is a globally recognized leader in animal nutrition and international agricultural development. He earned his B.S. in 1988 from the University of Ibadan, Nigeria, followed by M.S. and Ph.D. degrees from the University of Reading, UK. He began his academic career as a faculty member at the University of Wales, UK, where he served from 1995 to 2001. Currently, he holds multiple prestigious roles at the University of Florida, including Associate Vice President, E.T. and V.C. York Professor of International Agriculture, Director of the Global Food Systems Institute, and Professor of Animal Nutrition. For eight years, he served as Principal Investigator and Director of the Feed the Future Innovation Lab for Livestock Systems, leading transformative research and development initiatives that improved nutrition, health, and livelihoods in 10 African and Asian countries. Dr. Adesogan has authored or coauthored over 780 publications, including 187 peer-reviewed journal articles, and has served on editorial boards of several scientific journals. He has secured over $80 million in competitive research funding and delivered more than 200 invited seminars in over 25 countries. His work has earned him numerous awards from professional and humanitarian organizations, reflecting his commitment to advancing global food security and sustainable livestock systems.

Robert Gilbert

Dean for Research/Executive Director for Academic Affairs

Institute of Food and Agricultural Sciences (UF/IFAS)
University of Florida
Gainesville, FL

Dr. Robert Gilbert serves as the Dean for Research and Executive Director for Academic Affairs at the University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS). In this leadership role, he oversees the strategic direction and administration of UF/IFAS's research enterprise, which spans 15 academic departments and 12 Research and Education Centers across the state. His office manages over $9 million in internal resources dedicated to enhancing research capacity, fostering innovation, and supporting faculty success. Dr. Gilbert began his career with UF/IFAS in 2000 as a faculty member in agronomy at the Everglades Research and Education Center in Belle Glade, Florida. He later served as Center Director before being appointed Chair of the Agronomy Department on UF's main campus in 2014. He also held the role of Interim Senior Vice President for Agriculture and Natural Resources for 14 months, guiding the institution through a critical leadership transition. Under his direction as Dean for Research, UF/IFAS has consistently ranked #1 in the nation for agricultural and natural resources research expenditures, according to the National Science Foundation Higher Education Research and Development Survey, a distinction it has held since 2018.

PLENARY SESSION SPEAKERS

PLENARY SESSION 1

"Opening Plenary Session"

Monday, July 21, 2025 | 8:30am–9:45am

Kenneth Kalscheur ..... *Keynote Speaker*

"Silage Production and Utilization in the USA"

Research Animal Scientist
USDA-ARS, Dairy Forage Research Center
Wisconsin, USA

Dr. Kenneth Kalscheur is a distinguished expert in dairy nutrition, with a career rooted in academic excellence and a passion for advancing sustainable livestock practices. He earned his Bachelor of Science degree in Dairy Science from the University of Wisconsin–Madison, where he developed a strong foundation in animal agriculture. He continued his academic journey at the University of Maryland, earning both his Master of Science and Ph.D. degrees in Animal Science. His graduate research laid the groundwork for his future contributions to dairy science, particularly in the areas of ruminant nutrition and forage utilization. Dr. Kalscheur's academic training equipped him with the tools to explore innovative feeding strategies that enhance dairy cow performance while addressing environmental concerns.

For over a decade, Dr. Kalscheur served as a Professor of Dairy Science at South Dakota State University, where he was deeply involved in teaching, mentoring students, and conducting applied research. During his 13-year tenure, he became a respected voice in the field, publishing numerous peer-reviewed articles and presenting his findings at national and international conferences. His work during this period focused on optimizing dairy cattle diets through the strategic use of forages, byproducts, and feed additives. He was particularly interested in how these dietary components could influence milk yield, composition, and nutrient efficiency. His research not only contributed to the academic community but also provided practical insights for dairy producers seeking to improve herd productivity and sustainability.

Since 2014, Dr. Kalscheur has been a Research Animal Scientist with the USDA Agricultural Research Service at the U.S. Dairy Forage Research Center in Madison, Wisconsin. In this role, he leads research initiatives aimed at improving the nutritional management of dairy cattle through the use of alternative feedstuffs and enhanced forage utilization. His current work emphasizes reducing nutrient excretion and greenhouse gas emissions from dairy operations, aligning with broader goals of environmental stewardship and climate resilience. Dr. Kalscheur's research program is driven by the overarching goal of increasing the use of fiber-rich forages in high-producing dairy cow diets without compromising animal performance. Through his innovative and impactful work, he continues to shape the future of sustainable dairy farming, bridging the gap between scientific discovery and real-world agricultural practices.

PLENARY SESSION 2

"Recent Advances in Silage Making"

Monday, July 21, 2025 | 10:15am–11:30am

Giorgio Borreani

"Recent Advances in Silage Sealing"

Professor
University of Turin
Italy

Full Professor of Agronomy at the University of Turin, Italy, he specializes in forage production and silage conservation, with a strong focus on advancing sustainable agricultural practices. His research aims to optimize the efficiency of forage and feed systems, particularly for dairy farming, by enhancing protein and energy self-sufficiency in livestock rations. Through close collaboration with dairy farmers, he provides both scientific insight and practical consulting to improve farm productivity while minimizing environmental impact. His work bridges academic research and real-world application, contributing to more resilient and eco-friendly dairy operations. He leads and participates in numerous research initiatives funded by the European Union and international private companies, particularly in the field of silage technologies.

Tim McAllister

"Enhancing the Use of Food Waste through Ensiling"

Research Scientist
Agriculture and Agri-Food Canada
Canada

Tim McAllister obtained his M.Sc. in Animal Biochemistry at the University of Alberta and his Ph. D. in rumen microbiology and nutrition from the University of Guelph in1991. After appointments in technical and biologist positions he was promoted to a Principal Research Scientist with Agriculture and Agri-Food Canada in 2005 where he is presently in charge of a diverse research team studying areas on the microbial ecology of silage, impact of inoculants and other additives on silage quality, and the use of barley and corn silages in feedlot cattle diets. His latest endeavours are exploring ensiling as an approach to ensiling food waste. Tim has authored over 1000 scientific papers and is a recipient of numerous awards including the Elanco Award for the Production of Safe and Affordable Food, American Feed Industry Research Award, the Queen Elizabeth II Diamond Jubilee Medal, Public Service Award of Excellence for Scientific Contribution to Canada, the H. R. MacMillan Laurete in Agriculture and the Canadian Beef Industry Award for outstanding research and innovation. He was named a Research Fellow of the American Society of Animal Science in 2023 and is a contributor to the Intergovernmental Panel on Climate Change which shared the 2007 Nobel Peace Prize with former Vice President Al Gore.

continued on next page

PLENARY SESSION 3

"Effective Silage Manipulation"

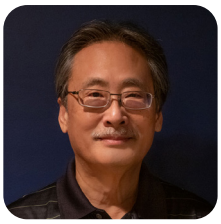
Monday, July 21, 2025 | 2:00pm–3:15pm

Xusheng Guo

"Manipulating Silage Bacteria to Improve Animal Health"

Professor
Lanzhou University
China

Professor Xusheng Guo is a leading expert in silage science and microbial biotechnology at the School of Life Sciences, Lanzhou University. His research is centered on the development and application of novel and probiotic lactic acid bacteria strains to improve silage fermentation quality, enhance nutrient preservation, and support animal health and productivity. With a strong dedication to advancing sustainable agricultural practices, Dr. Guo has authored over 160 scientific publications, including more than 110 papers in internationally peer-reviewed journals. He played a pivotal role as co-chair of the 19th International Silage Conference held in Beijing, China, in 2022, where he helped foster global collaboration and innovation in the field. In recognition of his outstanding scientific achievements and influence, Dr. Guo was named among the World's Top 2% Scientists in 2023. His work continues to bridge academic research and practical applications, contributing significantly to the fields of animal nutrition, forage preservation, and microbial ecology.



Limin Kung, Jr.

"Novel Additives for Silage Fermentation"

Professor
University of Delaware
Delaware, USA

Dr. Limin Kung, Jr. is Professor Emeritus in the Department of Animal and Food Sciences at the University of Delaware. A native of Honolulu, Hawaii, he earned his B.S. and M.S. degrees in Animal Science from the University of Hawaii, followed by a Ph.D. in Dairy Science from Michigan State University. Over the course of his distinguished academic career, Dr. Kung held research, teaching, and extension appointments and also served as Chairperson of his department, where he provided visionary leadership. His research focused on improving the productive efficiency of lactating dairy cows by advancing the understanding of microbial and biochemical fermentation processes in both silage and the rumen. His pioneering work in silage fermentation has earned widespread national and international recognition, significantly influencing forage preservation, dairy nutrition, and feed management practices. Even in retirement, Dr. Kung remains an active contributor to the field and is frequently invited to speak at major dairy science conferences and industry meetings around the world. His legacy continues to inspire innovation in ruminant nutrition and forage science.

PLENARY SESSION 4

"Advancing Silage Production"

Monday, July 21, 2025 | 3:45pm–5:00pm

Matthew Digman

"Recent Advances in Silage Equipment"

Agricultural Engineer
University of Wisconsin, Madison
Wisconsin, USA

Dr. Matthew Digman is an Associate Professor in the Department of Biological Systems Engineering at the University of Wisconsin–Madison. He holds a B.S. in Mechanical Engineering from the Milwaukee School of Engineering and both an M.S. and Ph.D. in Biological Systems Engineering from UW–Madison. Before joining the university, Dr. Digman gained valuable industry and research experience as a research engineer at Kuhn North America and as a scientist at the USDA Dairy Forage Research Center. His research program centers on advancing agricultural machinery systems, with a particular focus on forage processing, embedded sensing technologies, and optimizing crop utilization for dairy and bioenergy applications. Through interdisciplinary collaboration, his work aims to enhance the nutritional quality of forages and promote more sustainable livestock production. By integrating innovations in mechanical processing and real-time sensing, Dr. Digman's research contributes to the development of smarter, more efficient agricultural systems.

William Rooney

"Designing Silage Forages for the Future"

Regents Professor
Texas A&M University
Texas, USA

Dr. William Rooney is a Regents Professor and the Borlaug-Bayer Chair in Crop Improvement in the Department of Soil and Crop Sciences at Texas A&M University. He earned his B.S. in Agronomy from Texas A&M and his M.S. and Ph.D. in Plant Breeding from the University of Minnesota. A leader in sorghum research, Dr. Rooney's program focuses on enhancing the productivity and resilience of grain, forage, and bioenergy sorghum through advanced breeding techniques and genetic improvement. His work addresses key challenges in crop performance, sustainability, and bioenergy development. Over the course of his career, he has authored more than 250 peer-reviewed journal articles and has developed and released numerous sorghum germplasm lines and hybrids that are widely used in both research and commercial production. Dr. Rooney's contributions have had a significant impact on global sorghum breeding and crop improvement efforts, and he continues to be a driving force in advancing agricultural innovation and food security through science-based solutions.

continued on next page

PLENARY SESSION 5

"Sustainable Silage Production"

Wednesday, July 23, 2025 | 2:00pm–3:15pm

Frank Mitloehner

"The Role of Silage in Sustainable Livestock Systems"

Professor
University of California, Davis
California, USA

Dr. Frank Mitloehner is a professor and air quality specialist in Cooperative Extension in the Department of Animal Science at UC Davis. He also directs the CLEAR Center, which integrates research and communication to clarify the relationship between animal agriculture and the environment. His work helps global audiences—including scientists, farmers, policymakers, and the public—understand the environmental and health impacts of livestock production. Dr. Mitloehner collaborates with the animal agriculture sector to improve efficiency and reduce pollutants, with a focus on air emissions from livestock operations and their effects on farm workers and nearby communities. He is also addressing the global food production challenge as the population approaches 10 billion by 2050. Originally from Germany, he earned his M.S. in animal science and agricultural engineering from the University of Leipzig and his Ph.D. in animal science from Texas Tech University. He joined UC Davis in 2002 in its first position dedicated to studying the link between livestock and air quality.

Karl-Heinz Südekum

"Silage Volatile Organic Compounds – Effects on the Environment and Animal Performance"

Professor
University of Bonn, Germany

Professor Karl-Heinz Südekum is a retired Professor of Animal Nutrition at the University of Bonn, Germany, where he served from 2004 until his retirement in July 2023. Prior to that, he spent 25 years at the University of Kiel, contributing extensively to the field of agricultural science with a specialization in farm animal nutrition. With a deep-rooted passion for ruminant species and feedstuffs, his research has focused on the evaluation of protein and energy in ruminant diets, as well as the complex biochemical and microbial changes that occur during the aerobic exposure of silages. His work has employed a wide range of methodologies, including chemical analysis, in vitro techniques, and animal-based assessments, to better understand and improve feed quality, nutrient utilization, and animal performance. Professor Südekum's contributions have significantly advanced the science of ruminant nutrition and silage management.

PLENARY SESSION 6

"Challenges and Opportunities for the Silage Industry"

Wednesday, July 23, 2025 | 4:15pm–5:00pm

Horst Auerbach

"Silage Producer and Feeding Panel"

Chief Research Officer
International Silage Consultancy
Germany

Dr. Horst Auerbach graduated from Leipzig University, Germany, with an MSc, in Agricultural Sciences in 1992. His PhD work, conducted at the Federal Research Centre of Agriculture (FAL), Institute of Grassland and Forage Research, Braunschweig-Völkerode and the University of Hohenheim, Germany, focused on the incidence of moulds and mycotoxins in silages and the use of silage additives in the prevention of mould growth and mycotoxin formation. After his post-doc on ruminal metabolism of mycotoxins at Utrecht University (Institute of Pharmacology, Toxicology and Pharmacy) and more research on silage quality at FAL, he worked in the European feed additive industry (technical marketing, R&D, sales and regulatory affairs) for 15 years, before he became a freelance consultant (International Silage Consultancy) on silage production in 2014. Since the foundation KONSIL EUROPE GmbH in 2015, he has also focused on developing and commercializing silage additives.

Kyle Beauchamp

"Silage Producer and Feeding Panel"

President and Owner
KB Custom Ag Services, LLC
Colorado, USA

Kyle Beauchamp is the owner and President of KB Custom Ag Services, a leading forage harvesting company operating across the Midwestern United States. His team harvests over 5 million tons annually of corn, wheat, alfalfa, and sorghum silage, serving large-scale dairy operations with a focus on delivering consistently high-quality forage. Through full-cycle harvest management, Kyle's operation oversees every stage of the process—from monitoring crop maturity and estimating yields to customizing processing specifications and implementing practices that promote optimal ensiling conditions. His commitment to precision and innovation ensures that clients receive forage tailored to their nutritional and operational needs. Kyle holds degrees in Crop & Soil Sciences and Agricultural Economics from Colorado State University, where he developed a strong foundation in agronomy and business. With a passion for agricultural efficiency and sustainability, he continues to lead advancements in custom forage harvesting and silage management.

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PLENARY SESSION 6 *(Continued)*

"Challenges and Opportunities for the Silage Industry"

Wednesday, July 23, 2025 | 4:15pm–5:00pm

Michelle Chang Der-Bedrosian

"Silage Producer and Feeding Panel"

Director of Research and Innovation
Animix
Wisconsin, USA

Michelle Chang Der-Bedrosian is a specialist in silage and rumen microbiology, with a focus on how microbial interactions between these two environments influence the health, productivity, and efficiency of dairy cows. Her research explores the complex dynamics of microbial populations and their role in feed digestion, nutrient utilization, and overall animal performance. Michelle has shared her work at both national and international scientific conferences, published in peer-reviewed journals, and taught university-level courses in animal and dairy science. In addition to her academic contributions, she has visited hundreds of dairy farms around the world, working directly with producers to improve forage quality and herd health. Her global perspective and hands-on experience reflect a deep commitment to advancing the dairy industry through science-based solutions. Michelle's overarching goal is to help farmers produce higher-quality feed, support healthier cows, and promote more sustainable and productive dairy systems.

Marketta Rinne

"Launch of International Silage Society"

Professor
Natural Resources Institute Finland (Luke)
Finland

Marketta Rinne holds both MSc and PhD degrees from the University of Helsinki, Finland. With over three decades of experience at the Natural Resources Institute Finland (Luke), she has established herself as a leading expert in the field of animal nutrition and forage science. She has authored more than 100 peer-reviewed scientific publications, focusing primarily on dairy cow nutrition, forage production, and feed preservation technologies. In recent years, her research has expanded to include silage microbiomes, green biorefineries, circular bioeconomy approaches, and the environmental sustainability of dairy farming systems. Dr. Rinne has been an active participant in the International Silage Conference (ISC) series, attending every event since 1996. Notably, she chaired the organizing committee of the XVI ISC held in Hämeenlinna, Finland, in 2012, demonstrating her leadership, dedication to international collaboration, and commitment to advancing silage science on a global scale.

PLENARY SESSION 6 *(Continued)*

"Challenges and Opportunities for the Silage Industry"

Wednesday, July 23, 2025 | 4:15pm–5:00pm

Richard Muck ..... *Closing Speaker*

"Final Remarks"

Emeritus Professor
University of Wisconsin, Madison
Wisconsin, USA

Dr. Richard E. Muck is Professor Emeritus at the University of Wisconsin–Madison and a globally recognized authority in agricultural engineering, with a career spanning over three decades dedicated to advancing forage preservation and silage science. He earned his Ph.D. in agricultural waste management from Cornell University, where he developed a strong foundation in the intersection of engineering, microbiology, and environmental sustainability. Dr. Muck spent his entire professional career with the Agricultural Research Service (ARS) of the U.S. Department of Agriculture, applying scientific rigor and engineering innovation to address real-world challenges in livestock agriculture. In 1983, he was transferred to the U.S. Dairy Forage Research Center in Madison, Wisconsin, where he focused on silage research until his retirement in 2014.

Dr. Muck's research portfolio is both broad and impactful. He led pioneering studies on dry matter losses in silos, helping quantify and reduce feed waste through improved management practices. His work on silage compaction and density provided critical insights into optimizing fermentation and minimizing spoilage. He conducted comparative evaluations of silo covers, demonstrating how different materials and techniques influence silage quality and preservation. A major focus of his research was enhancing protein conservation during ensiling, a key factor in maintaining the nutritional value of forage. He also investigated the use and efficacy of silage additives, contributing to the development of science-based recommendations that have been widely adopted by producers and industry professionals. His research combined laboratory experimentation, field trials, and systems engineering, making his findings both scientifically robust and practically applicable.

Beyond his technical contributions, Dr. Muck has been a mentor, collaborator, and thought leader in the forage science community. He has authored or co-authored numerous peer-reviewed publications, technical bulletins, and extension materials that continue to guide best practices in silage management. His work has influenced forage conservation strategies not only in the United States but also internationally, where his expertise is frequently sought by researchers, extension specialists, and agricultural engineers. Even in retirement, Dr. Muck remains active in the field, contributing to scientific discussions, reviewing research, and advising on forage-related projects. His legacy is one of innovation, collaboration, and a deep commitment to improving the sustainability and efficiency of livestock production systems. His career exemplifies the vital role of interdisciplinary research in solving complex agricultural challenges and advancing global food security.

FIELD TOUR INFORMATION

Thursday, July 24, 2025 | **7:30am–5:30pm**

Florida Agricultural & Natural Resources Tour

As part of our commitment to fostering connections and offering a refreshing post-conference outing, we are excited to host a Florida Agricultural & Natural Resources Tour!

Participants will explore the abundance of agricultural and research destinations, designed to encourage attendee interaction and engagement.

Field Tour Itinerary

6:45am	Grab and Go Breakfast at Hotel
7:15am	Load Buses
7:30am	Depart Hotel for Alliance Dairy
	Alliance Dairy for tour
	Quincey Cattle Company for tour
	Tommy Usher Community Center for catered BBQ lunch and guest speaker
	Usher Land and Timber for tour
	Florida Fresh Water Spring State Park
5:45pm	Arrive Back at Hotel

AGENDA-AT-A-GLANCE

Sunday, July 20, 2025	
3:30pm–6:30pm	Registration Opens | Exhibitor Move-In | Poster Installation
4:30pm–5:30pm	Planning Committee Meeting
5:30pm–6:30pm	Welcome Social
Monday, July 21, 2025	
7:30am–5:00pm	Registration Opens
7:30am–8:30am	Morning Refreshments
7:30am–8:30am	Poster Installation
8:30am–11:30am	Plenary Session
11:30am–1:00pm	Group Lunch & Presentation
1:00pm–2:00pm	Formal Poster Viewing - Session 1
2:00pm–5:00pm	Plenary Session
5:00pm–6:00pm	Networking Social & Formal Poster Viewing - Session 1
6:00pm–7:30pm	Dinner Banquet
Tuesday, July 22, 2025	
7:30am–5:00pm	Registration Opens
7:30am–8:30am	Morning Refreshments
8:30am–11:30am	Concurrent Sessions
11:30am–1:00pm	Group Lunch
1:00pm–2:00pm	Formal Poster Viewing - Session 2
2:00pm–5:00pm	Concurrent Sessions
5:00pm–6:00pm	Networking Social & Formal Poster Viewing - Session 2
Wednesday, July 23, 2025	
7:30am–5:00pm	Registration Opens
7:30am–8:30am	Morning Refreshments
8:30am–11:30am	Concurrent Sessions
11:30am–12:30pm	Formal Poster Viewing - Session 3
12:30pm–2:00pm	Group Lunch, Presentation, & Awards
2:00pm–3:15pm	Plenary Session
3:15pm–4:15pm	Formal Poster Viewing - Session 3
4:15pm–5:00pm	Closing Plenary Session
5:00pm	Conference Concludes
Thursday, July 24, 2025	
7:30am–5:30pm	Optional Off-property Field Tour

DETAILED AGENDA

	Sunday, July 20, 2025
3:30pm- 6:30pm	**Registration Opens** | **Exhibitor Move-In** [Ballroom Foyer] **Poster Installation** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]
4:30pm- 5:30pm	**Planning Committee Meeting** [Boardroom]
5:30pm- 6:30pm	**Welcome Social** [Ballroom Foyer]
	Monday, July 21, 2025
7:30am- 5:00pm	**Registration Open** [Ballroom Foyer]
7:30am- 8:30am	**Morning Refreshments** [Ballroom Foyer] **Poster Installation** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]

PRESENTATION NOTES

Session No.	Speaker Name / Notes

continued on next page

	Monday, July 21, 2025 (continued)
8:30am-9:45am	**OPENING PLENARY SESSION 1** [Ballroom]
	Moderator: Richard Muck, *USDA Dairy Forage Research Center (Retired), University of Wisconsin, USA*
8:30am	**Welcome and Introduction** *Conference Co-Chairs*
8:40am	**Opening Remarks** **— Adegbola Adesogan,** Conference Convenor and Associate Vice President, *UF/IFAS Global Food Systems Institute, USA*
8:50am	**— Robert Gilbert,** Dean for Research and Executive Director for Academic Affairs, *University of Florida Institute of Food and Agricultural Sciences (UF/IFAS), USA*
9:00am	**Opening Keynote Speaker: Silage Production and Utilization in the USA** **— Kenneth Kalscheur,** *USDA-ARS, Dairy Forage Research Center, USA*
9:35am	**Q&A | Discussion**
9:40am	**Special Acknowledgements**
9:45am-10:15am	**Morning Beverages** [Ballroom Foyer]
	PLENARY SESSION 2 [Ballroom]
10:15am-11:30am	**Recent Advances in Silage Making**
	Chaired by Diamond Sponsor: Novonesis
	novonesis
	Moderator: Luiz Ferraretto, *University of Wisconsin, USA*
10:15am	**Introductions**
10:20am	**Recent Advances in Silage Fermentation: Tim McAllister,** *Agri-Food Canada, Canada*
10:50am	**Recent Advances in Silage Sealing: Giorgio Borreani,** *University of Turin, Italy*
11:20am	**Q&A | Discussion**
11:30am-1:00pm	**Group Lunch & Presentation** [Ballroom] **Preventing Farmer-Herder Conflicts and Deaths with Strategic Supplementation and Milk Collection from Pastoralists** **— Muhammadu Damakka Abubakar,** *L&Z Integrated Farms Nig Ltd., Nigeria*
1:00pm-2:00pm	**Formal Poster Viewing — Session 1** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]

PRESENTATION NOTES

Session No.	Speaker Name / Notes

continued on next page

	Monday, July 21, 2025 (continued)
	PLENARY SESSION 3 [Ballroom]
2:00pm-3:15pm	**Effective Silage Manipulation**
	Chaired by Diamond Sponsor: Lallemand
	
	Moderator: Juan Romero, *University of Maine, USA*
2:00pm	**Introductions**
2:05pm	**Novel Additives for Silage Fermentation: Limin Kung, Jr.,** *University of Delaware, USA*
2:35pm	**Manipulating Silage Bacteria to Improve Animal Health: Xusheng Guo,** *Lanzhou University, China*
3:05pm	**Q&A | Discussion**
3:15pm-3:45pm	**Afternoon Beverages** [Ballroom Foyer]
	PLENARY SESSION 4 [Ballroom]
3:45pm-5:00pm	**Advancing Silage Production**
	Chaired by Diamond Sponsor: Cumberland Valley Analytical Services (CVAS)
	
	Moderator: Luiz Gustavo Nussio, *University of São Paulo, Brazil*
3:45pm	**Introductions**
3:50pm	**Designing Silage Forages for the Future: William Rooney,** *Texas A&M University, USA*
4:20pm	**Recent Advances in Silage Equipment**: **Matthew Digman,** *University of Wisconsin-Madison, USA*
4:50pm	**Q&A | Discussion**
5:00pm-6:00pm	**Formal Poster Viewing – Session 1** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]
5:00pm-6:00pm	**Networking Social** [Ballroom Foyer]
6:00pm-7:30pm	**Dinner Banquet & Presentations** [Ballroom] **Memorial Tribute for Dr. Keith Bolsen** **– Hugo Ramirez,** *Tecnofor, Mexico* **The Silage Conference and Community – Past, Present and Future** **– Luiz Gustavo Nussio,** *Department of Animal Sciences, University of São Paulo, Brazil*

PRESENTATION NOTES

Session No.	Speaker Name / Notes

continued on next page

	Tuesday, July 22, 2025	
7:30am-5:00pm	**Registration Open** [Ballroom Foyer]	
7:30am-8:30am	**Morning Refreshments** [Ballroom Foyer]	
8:30am-9:45am	**SESSION 1** [Ballroom 1]	**SESSION 2** [Ballroom 2]
	Silage Additives	**Silage Lab Analysis**
Moderator	**Martin Hünerberg,** *University of Goettingen*, Germany	**Bamikole Musibau,** *University of Benin, Nigeria*
8:30am	**Opening Remarks**	**Opening Remarks**
8:35am	**Ensuring Uniformity of Additive Application — Dan Dohrmann,** *Dohrmann Enterprises Inc., USA*	**Thoughts on Silage Quality and Analysis — Ralph Ward,** *Cumberland Valley Analytical Services (CVAS), USA*
9:00am	**Reducing Corn Silage Losses and Improving Aerobic Stability Under Adverse Conditions: Farm-Scale Trial in Argentina — Fernando Clemente,** *Novonesis, Argentina*	**Estimation of Silage Component Traits in Maize Using Near-Infrared Reflectance Spectroscopy — Bikkasani Mythri,** *Punjab Agricultural University, India*
9:15am	**Crimping and Ensiling Pea and Faba Bean Seeds Using Different Silage Additives — Marketta Rinne,** *Natural Resources Institute Finland, Finland*	**Methane Index for Grass Silages a Standardized Tool for Benchmarkng Methane Emissions Globally — Bob Fabri,** *Eurofins Agro Testing, Netherlands*
9:30am	**Greenhouse Gases During Ensiling and Feed Out Phase of Corn Silages — Martine Bruinenberg,** *WLR, Netherlands*	**Misconceptions in Near-Infrared Calibration Development: Evaluating Crop-Specific vs. Mixed-Crop Calibrations — Nicole Schlau,** *Dairyland Laboratories, USA*
9:45am-10:15am	**Morning Beverages** [Ballroom Foyer]	
10:15am-11:30am	**SESSION 3** [Ballroom 1]	**SESSION 4** [Ballroom 2]
	Silage Microbiology and Metabolomics	**Silage Experimental Design and Analysis**
Moderator	**Tim McAllister,** *Agriculture and Agrifood, Canada*	**Tanya Gressley,** *University of Delaware, USA*
10:15am	**Opening Remarks**	**Opening Remarks**
10:20am	**Unraveling Silage Fermentation with Metagenomics and Metabolomics — Richard Scuderi,** *Lallemand, USA*	**Agronomic Aspects — Dann Bolinger,** *Pioneer, USA*
10:45am	**Metatranscriptomic Insights into Enhanced Silage Fermentation and Safety by Lactiplantibacillus Plantarum — Neha Sheoran,** *Lanzhou University, China*	**Publishing Silage Trials in the Journal of Dairy Science — Gonzalo Ferreira,** *Virginia Tech University, USA*
11:00am	**Microbial Dynamics and Cooperative Fermentation: Insights from Real-Time Monitoring of Silage Processes — Wanda Antonia Flegler,** *University of Bonn, Germany*	**Round table**
11:15am	**Comparison of Classical and Molecular Methods to Study the Microbiota Along the Silo Face on Farm Corn Silage — Francesco Ferrero,** *University of Turin, Italy*	
11:30am-1:00pm	**Group Lunch** [Ballroom]	
1:00pm-2:00pm	**Formal Poster Viewing — Session 2** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]	

PRESENTATION NOTES

Session No.	Speaker Name / Notes

continued on next page

	Tuesday, July 22, 2025 (continued)	
2:00pm-3:15pm	**SESSION 5** [Ballroom 1]	**SESSION 6** [Ballroom 2]
	Baleage and other Silages	**Aerobic Stability**
Moderator	**Joao Vendramini,** *University of Florida, USA*	**Marketta Rinne,** *Natural Resources Institute Finland, Finland*
2:00pm	**Opening Remarks**	**Opening Remarks**
2:05pm	**State of the Art on Baleage Research — *Matthew Akins*,** *USDA, USA*	**Detecting Aerobic Changes in Silages and Silage-Based Rations on Farms and in Laboratory Scale Silos — Siriwan Martens,** *Saxon State Office for Environment, Agriculture and Geology, Germany - and -* **— Gerd-Christian Maack,** *University of Bonn, Germany*
2:30pm	**Feed Quality and Conservation of Foliage from Agroforestry through Ensiling — Theresah Serwaa Sarfo,** *University of Göttingen, Germany*	**Effect of Environmental Factors on Aerobic Stability of Whole-Plant Corn Silage Inoculated with *Acetobacter pasteurianus* — Hao Guan,** *Southwest Minzu University, China*
2:45pm	**Utilizing Legume-Grass Mixtures for Baleage Production in the Coastal Plains Region of the U.S.: A Review of Researchs — Jennifer Tucker,** *University of Georgia, USA*	**A New Aeration Method to Test Aerobic Stability in Silage Trials — Laura Pieper,** *Dr. Pieper, Technologie- und Produktentwicklung GmbH, Germany*
3:00PM	**Effect of Maturity on Yield, Nutritive Value and Fermentability of Whole-Crop White Lupin — Horst Auerbach,** *International Silage Consultancy, Germany*	**Effects of the Newly Selected Strain *Lentilactobacillus buchneri* DSM 34586 on Fermentation and Aerobic Stability Across Different Forage — Jonas Jatkauskas,** *Lithuanian University of Health Science, Lithuania*
3:15pm-3:45pm	**Afternoon Beverages** [Ballroom Foyer]	
3:45pm-5:00pm	**SESSION 7** [Ballroom 1]	**SESSION 8** [Ballroom 2]
	Silage Feeding and Utilization	**Tropical Silages**
Moderator	**Bill Mahanna,** *Corteva Agrisciences-Pioneer, USA*	**Felipe Xavier Amaro,** *Passion Ag, USA*
3:45pm	**Opening Remarks**	**Opening Remarks**
3:50pm	**Optimizing Preference, Intake and Performance of Silage Fed Ruminants — Heather Dann,** *Miner Institute, USA*	**Optimizing Silage Production in Tropical Climates — Joao Daniel,** *University of Maringa, Brazil*
4:15pm	**Is Wilted Grass Silage a Good Option for Commercial Feedlots? — Thiago Bernardes,** *University of Lavras, Brazil*	**Productive Performance of Feedlot Sheep Fed Cassava Peel Silage with or Without Palm Kernel Cake — Thiago Da Silva,** *Universidade Federal Rural da Amazônia, Brazil*
4:30pm	**Effects of Gaba-Enriched Alfalfa Silage on Dairy Goat Performance and Mammary Inflammatory Gene Expression — Samaila Usman,** *Lanzhou University, China (Recorded Presentation)*	**Protein Fractions of Megathyrsus-Unsalable Orange Silage — Peter Dele,** *Federal University of Agriculture, Nigeria (Recorded Presentation)*
4:45pm	**Lactic Acid Bacteria as a Silage Inoculant or Direct-Fed Microbial and Effects on Rumen Metabolism — Kate Le Cocq,** *Harper Adams University, United Kingdom*	**Forage Mixture and Ensiling Period Effect on the Chemical Composition of Unsalable Amaranth-Megathyrsus Silage — Foluke Enwete,** *Federal University of Agriculture, Nigeria*
5:00pm-6:00pm	**Formal Poster Viewing — Session 2** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]	
5:00pm-6:00pm	**Networking Social** [Ballroom Foyer]	

PRESENTATION NOTES

Session No.	Speaker Name / Notes

continued on next page

	Wednesday, July 23, 2025	
7:30am-5:00pm	**Registration Open** [Ballroom Foyer]	
7:30am-8:30am	**Morning Refreshments** [Ballroom Foyer]	
8:30am-9:45am	**SESSION 9** [Ballroom 1]	**SESSION 10** [Ballroom 2]
	Alternative Silages for Improving Animal Productivity and Livelihood	**Forage Preharvest Management**
Moderator	**Douglas Nkosi,** *Agricultural Research Council, South Africa*	**Nelson Lobos,** *Corteva Agriscience, USA*
8:30am	**Opening Remarks**	**Opening Remarks**
8:35am	**Leveraging on Ecological Restoration to Establish a Robust Silage Industry in Dingxi, China: A Poverty Alleviation Model for Developing Regions — Xusheng Guo,** *Lanzhou University, China*	**Preharvest Management Considerations to Optimize Silage Quality — Phil Cardoso,** *University of Illinois, USA*
9:00am	**Utilizing Indigenous LAB Inoculants for Ensiling Rice Straw with Agro-Industrial Byproducts and Evaluation of its Characteristics — Rashika Srivastava,** *ICAR-National Dairy Research Institute, India (Recorded Presentation)*	**Effect of Corn Silage Hybrid Characteristics and Fermentation on Key Forage Quality Metrics — Joe Lawrence,** *Cornell University, USA*
9:15am	**Cactus *(Opuntia spp.)* Potential as Fodder, Pellets, or Silage — Jose Dubeux,** *University of Florida, USA*	**Effect of Cutting Height on Nutritive Value, Dry Matter Yield, and Fermentation Profile of Whole-Plant Corn Forage and Silage: A Meta-Analysis — Cole Diepersloot,** *University of Wisconsin-Madison, USA*
9:30am	**Converting Feed Waste to Wealth: Making and Feeding of Cabbage Waste Silage — Tolulope Osasanya,** *University of Ibadan, Nigeria*	**Insights from Corn and Sorghum Variety Trials: 15 Years of Data — Marcelo Wallau,** *University of Florida, USA*
9:45am-10:15am	**Morning Beverages** [Ballroom Foyer]	
10:15am-11:30am	**SESSION 11** [Ballroom 1]	**SESSION 12** [Ballroom 2]
	Silage Mycotoxins and Contaminants	**Novel Technologies for Silage**
Moderator	**Kirsten Weiss**, *Humboldt University, Germany*	**Daryl Kleinschmit,** *Zinpro Corporation, USA*
10:15am	**Opening Remarks**	**Opening Remarks**
10:20am	**Control of Regulated and Emerging Silage Mycotoxins — Antonio Gallo,** *Universita Cattolica del Sacro Cuore, Italy*	**Milk 2024: Predicting Milk Yield from Forage — Luiz Ferraretto,** *University of Wisconsin-Madison, USA*
10:45am	**Evaluation of Mycotoxins in the Corn Silage Fed to Dairy Cows in Southeast of Brazil — Carlos Corassin,** *University of São Paulo, Brazil*	**Comparison of Techniques to Assess Grain Processing in Whole-Plant Corn — Gustavo Gonçalves de Souza Salvati,** *Tracking Feed, Brazil*
11:00am	**Mycotoxdegradome: A Comprehensive Database for Exploring Fungal Mycotoxin-Degrading Enzymes and Their Applications — Gang Xu,** *China Agricultural University, China*	**Investigation on Trypsin Inhibitor Activity Reduction During Ensiling of Freshly Harvested Soybeans with High-Moisture Corn — Mariana Schneider,** *Bavarian State Research Center for Agriculture, Germany*
11:15am	**Integrated Management of Vomitoxin in Corn Silage Fields and the Fate of Vomitoxin During Ensiling — Maxwell Chibuogwu,** *University of Wisconsin-Madison, USA*	**Adapting the CSM-CERES-Maize Model for Ability to Simulate Maize Silage Production and Quality — Kenneth Boote,** *University of Florida, USA*
11:30am-12:30pm	**Formal Poster Viewing — Session 3** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]	

PRESENTATION NOTES

Session No.	Speaker Name / Notes

continued on next page

	Wednesday, July 23, 2025 (continued)
12:30pm-2:00pm	**Group Lunch, Presentation, & Awards** [Ballroom] **Launch of International Silage Society** **— Marketta Rinne,** *Natural Resources Institute Finland, Finland* **Student Poster Competition Awards**
	PLENARY SESSION 5 [Ballroom]
2:00pm-3:15pm	**Sustainable Silage Production**
	Chaired by Diamond Sponsor: Bon Silage
	bonsilage
	Moderator: Jose Dubeux, *University of Florida, USA*
2:00pm	**Introductions**
2:05pm	**The Role of Silage in Sustainable Livestock Systems** **— Frank Mitloehner,** *University of California, Davis, USA*
2:40pm	**Silage Volatile Organic Compounds - Effects on the Environment and Animal Performance** **— Karl-Heinz Südekum,** *University of Bonn, Germany*
3:15pm-4:15pm	**Formal Poster Viewing — Session 3** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia
3:15pm-4:15pm	**Afternoon Beverages** [Ballroom Foyer]
	PLENARY SESSION 6 [Ballroom]
4:15pm-5:00pm	**Challenges and Opportunities for the Silage Industry**
	Moderator: Renato Schmidt, *Lallemand Animal Nutrition, USA*
4:15pm	**Silage Producer and Feeding Panel** **Horst Auerbach —** *International Silage Consultancy, Germany* **Kyle Beauchamp —** *KB Custom Ag Services, LLC, USA* **Michelle Chang Der-Bedrosian —** *Animix, USA*
4:50pm	**Final Remarks** **— Richard Muck,** *University of Wisconsin-Madison, USA*
5:00pm	**Conference Concludes** **Poster Removal** [Hawthorne, Azalea, Hickory, Birch, Cedar, & Magnolia]
	Thursday, July 24, 2025
7:30am-5:30pm	**Optional Off-Property Field Tour**

POSTER DISPLAY INFORMATION

Poster presentations play a key role in the exchange of information. Considerable time is dedicated to viewing them, giving researchers and scientists from academia, industry, and government valuable opportunities to interact and share details of their work, successes, and lessons learned.

Posters are divided into **three sessions** and each poster presenter will be scheduled for a total **of two hours of presentation time**, split between **two separate one-hour viewing sessions on the same day.** Consult the poster directory to confirm the session assignment for individual poster presentations.

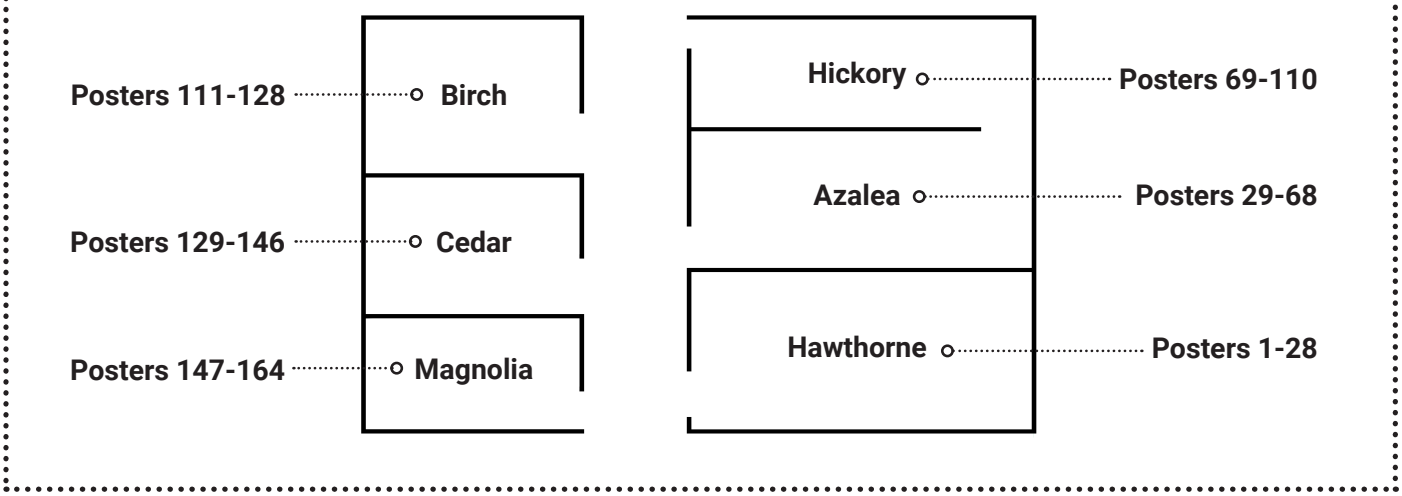
The agenda allows for ample time to view posters, networks, and have discussions. Please take the time to explore posters, review displays, and visit with poster presenters during the early morning, midday and afternoon breaks and especially during the poster sessions.

Poster Session Schedule

Poster Installation:	Sunday, July 20, 2025 | 3:30pm–6:30pm *(All poster presenters)*
Formal Poster Viewing 1:	Monday, July 21, 2025
Session 1 Presenters:	1:00pm–2:00pm -*and*- 5:00pm–6:00pm *All Student Poster Competition participants will present on Monday.*
Formal Poster Viewing 2:	Tuesday, July 22, 2025
Session 2 Presenters:	1:00pm–2:00pm -*and*- 5:00pm–6:00pm
Formal Poster Viewing 3:	Wednesday, July 23, 2025
Session 3 Presenters:	11:30am–12:30pm -*and*- 3:15pm–4:15pm
Poster Removal:	Wednesday, July 23, 2025 | After 5:00pm *(All poster presenters)* *Organizers are not responsible for lost posters discarded by the board vendor.*

Please Note: As a courtesy to the presenter before/after you, please only stand at your poster during the assigned session.

Poster Room Layout



POSTER DIRECTORY

(Posters are listed in order by topic, poster session, then by presenter last name.)

POSTER VIEWING 1 **POSTER VIEWING 2** **POSTER VIEWING 3**

Advancing Silage Production for Small Holders

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
1	Muhammad	Shaheryar	Bahauddin Zakariya University	Pakistan	Ensuring Quality Feed Through Silage-Making for Smallholders	Poster Viewing 1: Mon, July 21
2	Olabode	Olanrewaju	Calvary Ministries CAPRO	Nigeria	Silage, A Potential Solution to the Farmer-Herder Conflicts that Have Killed Tens of Thousands in West Africa- A Missionary's Perspective	Poster Viewing 2: Tues, July 22
3	Nouhoun	Zampaligre	Centre National de Recherche Scientifique et Technologique (CNRST)	Burkina Faso	Small Scale Corn Silage for Quality Fodder Conservation in the Integrated Crop-Livestock Systems of the Sahel	Poster Viewing 3: Wed, July 23

Aerobic Stability

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
5	Angelika	Borkowska	Volac International Ltd	United Kingdom	Amino Acids in Lucerne Silage: 2. Effects of Inoculation	Poster Viewing 1: Mon, July 21
7	Kristin	Rang	University of Bonn	Germany	Impact of Ensiling and Storage Temperature on the Aerobic Stability of Maize Silage	Poster Viewing 1: Mon, July 21
10	Hana	Synkova	NutriVet s.r.o.	Czech Republic	Monitoring Changes in Temperature of Fermented Feeds and Their Aerobic Stability	Poster Viewing 1: Mon, July 21
4	Mukti	Bhandari	University of Delaware	United States	Effect of Inoculant on Alfalfa Silage Challenged with Air Stress and Loosely Packed Conditions	Poster Viewing 2: Tues, July 22
8	Thiago	da Silva	Universidade Federal Rural da Amazônia	Brazil	Aerobic Deterioration of Diets Containing Cassava Shoot and Root Silages	Poster Viewing 2: Tues, July 22
6	Shane	Cronin	IFF Nutrition and Biosciences	United States	Effect of Laboratory Bag Silo Plastic Type on Fermentation of Corn Silage	Poster Viewing 3: Wed, July 23
9	Joao	Daniel	State University of Maringa	Brazil	Obligate Heterofermentative Lactic Acid Bacteria Decrease Losses During Storage and Feedout in Corn Silage Fermented for Long Period	Poster Viewing 3: Wed, July 23

Baleage and Other Silages

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
16	Joos	Latré	University of Applied Sciences and Arts	Belgium	Ensiling Moist Cereal-Legume Intercrops: A Promising Conservation Technique, Reducing Anti-Nutritional Factors in Faba Beans	Poster Viewing 1: Mon, July 21
11	Daniel Jose	Cavalli Vieira	University of Wisconsin-Madison	United States	Survey of Fiber Quality of Cover Crops Used as Forage to Dairy Cattle in Wisconsin	Poster Viewing 2: Tues, July 22
14	Ivan	Eisner	Novonesis	Denmark	Improving the Quality of Haylage for Horses by Adding a Biological Silage Additive	Poster Viewing 2: Tues, July 22
17	Anibal Coutinho	Rego	Federal University of Ceara	Brazil	Dry Matter Concentration Affects the Relationships with Variables Linked to Cassava Haylage Characteristics	Poster Viewing 2: Tues, July 22

Baleage and Other Silages (continued)						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
12	Eric	Chevaux	Lallemand	France	Effect of the Inoculant and Grass Baleage Dry Matter on Fermentative and Nutritional Proliles	Poster Viewing 3: Wed, July 23
15	Francesco	Ferrero	University of Turin	Italy	The Use of Bale Compactor to Produce High Density Wrapped Bales of Several Forages and Grains	Poster Viewing 3: Wed, July 23
18	Eva	Wambacq	University of Applied Sciences and Arts	Belgium	Are Whole-Crop Silages of Cereals and Cereal-Legume Intercrops a Good Alternative for Maize Silage?	Poster Viewing 3: Wed, July 23
Forage Preharvest Management						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
19	Felipe	Amaro	Passion Ag	United States	Effects of Oxygen Barriers On Losses, Fermentation and Microbial Counts of Sorghum Silage	Poster Viewing 1: Mon, July 21
22	Kun Jun	Han	Louisiana State University	United States	Nutritional Value and Ruminal Digestibility of Different Sorghum Forage Types at Two Growth Stages	Poster Viewing 1: Mon, July 21
25	Matheus	Reboucas Pupo	University of Wisconsin – Madison	United States	Effects of Whole-Plant Corn Yeast Population on the Nutrient Composition, Fermentation Profile and Aerobic Stability of Silage Through a Meta-Analysis	Poster Viewing 1: Mon, July 21
34	Klaus	Hünting	Chamber of Agriculture of Northrhine-Westfalia	Germany	Impact of Dry Matter Losses on the Harvest Related Carbon Dioxide Emissions of Maize Silage	Poster Viewing 1: Mon, July 21
21	Ashley	Barkley	Lallemand	United States	Effects of Environmental Conditions and Management Practices on Epiphytic Microorganisms of Mixed Grasses and Alfalfa	Poster Viewing 2: Tues, July 22
23	Mark	Leggett	Volac International Ltd	United Kingdom	Amino Acids in Lucerne Silage: 1. Effects of Chop Length	Poster Viewing 2: Tues, July 22
20	Horst	Auerbach	International Silage Consultancy	Germany	Fermentation Quality of Lucerne as Affected by Year, Variety, and Cut	Poster Viewing 3: Wed, July 23
24	Maria	Mailhos	University of Florida	United States	Seeding Rate Effects on Morphology and Biomass Production of Sorghum X Sudan in Different Planting Seasons	Poster Viewing 3: Wed, July 23
Novel Technologies for Silage						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
13	Ludmila	Monteiro	Kansas State University	United States	Fermentation Characteristics, Aerobic Stability, and In Vitro Fermentation of High-Moisture Corn Varying in Amylase Expression	Poster Viewing 1: Mon, July 21
28	Haechan Mark	Bong	Polytechnique Montréal	Canada	Integration of Foundational Models on Autonomous Drones for Silage Inventory and Storage Quality Assessment	Poster Viewing 1: Mon, July 21
29	Flora Adel	Hoffmann	Hungarian University of Agricultural and Life Sciences	Hungary	Can Giant-Reed Silage be an Alternative Forage Source for Heifers and Beef-Cattle in an Arid Area?	Poster Viewing 1: Mon, July 21
31	Luiz Gustavo	Nussio	University of São Paulo	Brazil	Essential Oil Compounds as Additives for Rehydrated Corn Grain Silage	Poster Viewing 1: Mon, July 21
36	Juan Leandro	Monge	Universidad Nacional de Villa Maria	Argentina	Relationship Between Nutritional Variables of Pre- and Post-Ensiled Corn Crops: A Meta-Analysis	Poster Viewing 1: Mon, July 21
38	Lazaniriana	Randrantoarimbola	Université Laval	Canada	Effect of Reducing Wilting Time and Adding Corn Grains and/or Soybean Hulls on Silage Quality	Poster Viewing 1: Mon, July 21

continued on next page

Novel Technologies for Silage (continued)

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
40	Micah	Robinson	University of Wisconsin - Madison	United States	Measuring Forage Quality Using On-Harvester NIRS	Poster Viewing 1: Mon, July 21
26	Nisola	Ayanfe	Natural Resources Institute Finland (LUKE)	Finland	Grass Silage for Biorefinery: Fermentation Quality and Nutritional Composition of Press Cake and Juice	Poster Viewing 2: Tues, July 22
30	Makoto	Kaneko	NARO	Japan	Few Hours' Pre-Wilting Effects on Forage Soybean Silage	Poster Viewing 2: Tues, July 22
33	Juan Leandro	Monge	Universidad Nacional de Villa Maria	Argentina	Characterization of Density and Fermentation Variables in Silos with Oxygen Barriers: A Farm Survey in Argentina	Poster Viewing 2: Tues, July 22
37	Cezary	Purwin	University of Warmia and Mazury	Poland	The Effect of Ensiling Lucerne with Birdsfoot Trefoil at Different Ratios on Protein Fractions	Poster Viewing 2: Tues, July 22
41	Yurui	Sun	University of Bonn	Germany	A Multi-Sensor and Multi-Parameter Bio-Information Sampling System for Mini-Silo Ensiling Experiment	Poster Viewing 2: Tues, July 22
27	Fadi	Hassanat	Agriculture and Agri-Food Canada	Canada	Effect of Reducing Wilting and Adding Grains and/or Soybean on Silage in Vitro Degradability	Poster Viewing 3: Wed, July 23
32	Soňa	Malá	NutriVet s.r.o.	Czech Republic	Determining the Optimal Harvest Time to CORN Crops Using an Unmanned Drone with a Multispectral Camera	Poster Viewing 3: Wed, July 23
35	Kevin	Panke-Buisse	USDA-ARS	United States	Modeling Forage Conservation in the Ruminant Farm Systems (RuFaS) Model	Poster Viewing 3: Wed, July 23
39	Matheus	Reboucas Pupo	University of Wisconsin – Madison	United States	The Effects of Storage Temperature on the Nutrient Composition and Fermentation Profile of Silage Through a Meta-Analysis	Poster Viewing 3: Wed, July 23
42	Johanna	Witt	ISF GmbH	Germany	Comparison of Estimated Biogas Yield with Regression Formula and Measured Biogas Yield with Batch Test of Different Grass Silages	Poster Viewing 3: Wed, July 23

Silage Additives

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
43	Rafael	Amaral	Novonesis	Brazil	Silage Inoculant and Its Role in Enhancing Fermentation and Aerobic Stability Across Multiple Crops	Poster Viewing 1: Mon, July 21
46	Keith A.	Bryan	Novonesis	United States	Influence of Inoculant on Fermentation of Winter Triticale at Low Dry Matter	Poster Viewing 1: Mon, July 21
49	Maxwell	Chibuogwu	USDA-ARS	United States	Effects of a Postbiotic Additive on Anaerobic Fermentation of Corn and Alfalfa Silage Liquid Media	Poster Viewing 1: Mon, July 21
52	Shane	Cronin	IFF Nutrition and Biosciences	United States	Homolactic Inoculant Effect on Bacterial Community of Triticale Harvested at Low and High Dry Matter	Poster Viewing 1: Mon, July 21
55	Ivan	Eisner	Novonesis	Denmark	Can a Biological Silage Inoculant Preserve High-Moisture Hay?	Poster Viewing 1: Mon, July 21
58	Celso	Heinzen Junior	Provita Supplements	United States	Effect of a Homo- and Hetero-Fermentative Lactic Acid Bacteria Blend on Fermentation Quality of Different Sorghum Varieties	Poster Viewing 1: Mon, July 21
61	Václav	Jambor	NutriVet s.r.o.	Czech Republic	Effect of Silage Additives Type and Dose on Alfalfa Silage Quality and Aerobic Stability	Poster Viewing 1: Mon, July 21
63	Jong Geun	Kim	Seoul National University	South Korea	Comparison of Effects of Silage Additives on the Quality and Fermentation Dynamics of Alfalfa Silage	Poster Viewing 1: Mon, July 21

Silage Additives (continued)						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
67	Mark	Leggett	Volac International Ltd	United Kingdom	Lactic Acid Bacteria Inoculants as a Tool for Sustainable Forage Preservation and Rumen Fermentation Efficiency	Poster Viewing 1: Mon, July 21
70	Chika	Anotaenwere	North Carolina Agricultural and Technical State University	United States	Spent Mushroom Substrate and Oilseeds Influenced the Nutritive Quality and Greenhouse Gas Emissions of Corn Silage	Poster Viewing 1: Mon, July 21
73	Cole	Diepersloot	University of Wisconsin – Madison	United States	Effect of Pick-Up Height During Merging, Microbial Inoculation, and Storage Length on Fermentation Profile and Nutrient Composition of Alfalfa Silage	Poster Viewing 1: Mon, July 21
76	Zuri	Hobson-Gladney	University of Delaware	United States	Inoculant and Dry Matter Effects on the Aerobic Stability and Nutrient Degradability of Corn Silage	Poster Viewing 1: Mon, July 21
78	Edson	Santos	Federal University of Paraíba	Brazil	Chemical Composition of Forage Sorghum Silage Treated with *Lentilactobacillus buchneri* or Organic Acids	Poster Viewing 1: Mon, July 21
87	Shelby	Serrano	University of Delaware	United States	Effect of a Combination Homolactic and Heterolactic Inoculant on Bacterial Community of Alfalfa Silage	Poster Viewing 1: Mon, July 21
91	Joao	Vendramini	Texas AgriLife Research	United States	Propionic Acid Effects on Nutritive Value and Fermentation Characteristics of Sunn Hemp Silage	Poster Viewing 1: Mon, July 21
94	Elisabeth	Weidenholzer	Lactosan GmbH & Co. KG	Austria	Inhibition of Clostridia Growth by *Lactiplantibacillus plantarum* and *Lactococcus lactis*	Poster Viewing 1: Mon, July 21
97	Jutta	Zielke	Dr. Pieper, Technologie- und Produktentwicklung GmbH	Germany	Effect of Varying Proportions of *L. buchneri* and *L. plantarum* in Silage Additives	Poster Viewing 1: Mon, July 21
44	Horst	Auerbach	International Silage Consultancy	Germany	Fermentation Quality of Lucerne Silage as Affected by Variety and Additive Type	Poster Viewing 2: Tues, July 22
47	Mariana	Campana	UFSCar	Brazil	Citrus Essential Oil Effects on Chemical Composition and In Vitro Degradation of Sugarcane Silage	Poster Viewing 2: Tues, July 22
50	Maxwell	Chibuogwu	USDA-ARS	United States	Postbiotic Additive Effects on Fermentation and Forage Quality of Corn and Alfalfa Silage During Ensiling	Poster Viewing 2: Tues, July 22
53	Ty	Davis	Novonesis	United States	Preservation of High Moisture Male Sterile BMR Forage Sorghum Silage	Poster Viewing 2: Tues, July 22
56	Francesco	Ferrero	University of Turin	Italy	Silage Fermentation and Aerobic Stability of Whole Crop Corn Ensiled in Laboratory or Bunker Silos as Affected by Lab Inoculum	Poster Viewing 2: Tues, July 22
59	Ida Katarina	Hindrichsen	Novonesis	Denmark	Meta Study on Preserving Grass Silage During Storage and Feed Out with SiloSolve® FC	Poster Viewing 2: Tues, July 22
62	Vesna	Jenkins	EW Nutrition	Germany	Inoculant Improves Fermentation and Inhibits Clostridia in Difficult-to-Ensile Forage with and without Clostridia Challenge	Poster Viewing 2: Tues, July 22
65	Nicole	Lau	ISF GmbH	Germany	Effect of a Mixture of Homofermentative Lactic Acid Bacteria on the Fermentation Quality of Liquid Feed Containing Pea and Lupin Meal	Poster Viewing 2: Tues, July 22
68	Junfeng	Li	Nanjing Agricultural University	China	Effect of Forage Endogenous Cellulolytic Enzymes on the Degradation of Structural Carbohydrates	Poster Viewing 2: Tues, July 22
71	Daniele	Loures	Universidade Federal do Recôncavo da Bahia	Brazil	Effect of Microbial Inoculants on Fermentation Quality of Arachis Pintoi Cv Florigraze Silages	Poster Viewing 2: Tues, July 22

continued on next page

Silage Additives (continued)						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
74	Siriwan	Martens	Saxon State	Germany	Advantages of Cereal Straw as Mixing Partner in Silages	Poster Viewing 2: Tues, July 22
77	Matheus G.M.	Carvalho	University of New Hampshire	United States	Effects of Dry Matter Content and Heterofermentative Inoculant on the Conservation of Whole-Plant Corn Silage	Poster Viewing 2: Tues, July 22
80	Saana	Orkola	Eastman	Finland	Formic Acid Recovery Analysis as a Farm Advisory Tool	Poster Viewing 2: Tues, July 22
82	Hugo A.	Ramirez Ramirez	Tecnologia Forrajera	Mexico	Field Monitoring of Inoculant Temperature in Tractor-Mounted Applicator Tanks in Northern Mexico	Poster Viewing 2: Tues, July 22
84	Matheus	Reboucas Pupo	University of Wisconsin – Madison	United States	Effect Of Microbial Inoculation, Storage Temperature and Storage Length on Fermentation Profile of Whole-Plant Corn Silage	Poster Viewing 2: Tues, July 22
86	Karina	Ribeiro	Universidade Federal de Viçosa	Brazil	Effect of Microbial Inoculation and Growth Stage on Ruminal Degradation Kinetics of Glycine Max Silage	Poster Viewing 2: Tues, July 22
83	J. J.	Romero	University of Maine	United States	Recent Advances in Hay Spoilage and Preservation Research	Poster Viewing 2: Tues, July 22
89	Shelby	Serrano	University of Delaware	United States	Effect of a Combination Homolactic and Heterolactic Inoculant on Alfalfa Fermentation	Poster Viewing 2: Tues, July 22
92	Vilma	Vrotniakiene	Lithuanian University of Health Science	Lithuania	Impact of Selected Lactic Acid Bacterial Strains on Grass Silage Fermentation	Poster Viewing 2: Tues, July 22
95	Kristian	Witt	Novonesis	Denmark	Meta Study: Dm Loss Reduction and Improvement in Aerobic Stability Across Multiple Crops, Dry Matters and Duration of Fermentation	Poster Viewing 2: Tues, July 22
45	Erica	Benjamim da Silva	Lallemand	Brazil	Inoculant Effects on Bacterial Community, Voc Production, Aerobic Stability, and Fiber Degradability of Alfalfa-Grass Silage	Poster Viewing 3: Wed, July 23
48	Mariana	Campana	UFSCar	Brazil	Fermentative Losses of Sugarcane Silage Treated with Increasing Levels of Citrus Essential Oil	Poster Viewing 3: Wed, July 23
51	Maria	Chinello	KWS Italy S.p.A.	Italy	Selective Inoculations Using a Precise Combined Harvesting Machine	Poster Viewing 3: Wed, July 23
54	Cole	Diepersloot	University of Wisconsin – Madison	United States	Effect of Packing Density, Microbial Inoculation, and Storage Length on the Fermentation Profile and Nutrient Composition of Alfalfa Silage	Poster Viewing 3: Wed, July 23
57	Marcia	Franco	Natural Resources Institute Finland (Luke)	Finland	Approach to Adjust Acid Application Using Ph Measurements Prior to Ensiling	Poster Viewing 3: Wed, July 23
60	Martin	Hünerberg	University of Goettingen	Germany	Use of an Inoculant in Mixed Crop Corn Silage	Poster Viewing 3: Wed, July 23
64	Ewald	Kramer	ISF GmbH	Germany	Dynamic Effects of Applied Homofermentative Lactobacilli on Wet Grass Silage with Regard to Fermentation Quality and Mass Losses	Poster Viewing 3: Wed, July 23
66	Nicole	Lau	ISF GmbH	Germany	Effect of *Lacticaseibacillus huelsenbergensis* DSM 115424 on Fermentation of Grass and Corn Silage at Different Storage Temperatures	Poster Viewing 3: Wed, July 23
69	Junfeng	Li	Nanjing Agricultural University	China	Screening and Application of Coumarin Degrading Bacteria in Sweet Clover Silage	Poster Viewing 3: Wed, July 23
72	Daniele	Loures	Universidade Federal do Recôncavo da Bahia	Brazil	Effect of Microbial Inoculants on Fermentation Quality of Limpograss Silage	Poster Viewing 3: Wed, July 23
75	Siriwan	Martens	Saxon State Office For Environment, Agriculture And Geology	Germany	Screening Heterofermentative Lactic Acid Bacteria for Osmotolerance	Poster Viewing 3: Wed, July 23

Silage Additives (continued)						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
81	Paulina	Pogorzelska-Przybyłek	University of Warmia and Mazury	Poland	Chemical Composition and in Vitro Rumen Degradability of Crude Protein in Whole Crop Hemp Silages	Poster Viewing 3: Wed, July 23
85	Karina	Ribeiro	Universidade Federal de Viçosa	Brazil	Effect of Microbial Inoculation and Regrowth Age on Ruminal Degradation Kinetics of Arachis Pintoi Silage	Poster Viewing 3: Wed, July 23
88	Edson	Santos	Federal University of Paraíba	Brazil	Bacterial Diversity of Forage Sorghum Silage Treated with Lentilactobacillus Buchneri or Organic Acids	Poster Viewing 3: Wed, July 23
93	Elisabeth	Weidenholzer	Lactosan GmbH & Co. KG	Austria	Effect of a Silage Inoculant on Fermentation Quality and Biogas Yield of Different Grass Silage Varieties	Poster Viewing 3: Wed, July 23
96	Jie	Zhao	Nanjing Agricultural University	China	Effects of Enzymes, Microbiota and Organic Acids on Structural Carbohydrate During Ensiling of Sudan Grass	Poster Viewing 3: Wed, July 23
Tropical Silages						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
100	Janaina	Bragatto	State University of Maringa	Brazil	Assessment of the Fermentative Profile of Tropical Grass Silages on Brazilian Beef Farms	Poster Viewing 1: Mon, July 21
103	Matheus G.M.	Carvalho	University of New Hampshire	United States	Effect of Replacing Hexamine by Sodium Formate in Nitrite-Based Additives for Palisade Grass Silage	Poster Viewing 1: Mon, July 21
106	Juliana	Oliveira	Federal University of Paraíba	Brazil	Bacterial Dynamics in Mixtures Based on Forage Cactus and Sorghum Silage During Aerobic Exposure	Poster Viewing 1: Mon, July 21
109	Diwakar	Vyas	Department of Animal Sciences	United States	Effects of Microbial Inoculation on Silage Fermentation and Preservation Characteristics of Cool-Season Grass-Legume Mixtures in Southeastern Dairy Systems	Poster Viewing 1: Mon, July 21
98	Tomilola	Arilekolasi	Federal University Oye-Ekiti	Nigeria	Impact of Ensiling on Nutritive Quality and Methane Emission from Molasses-Treated Gmelina Arborea Leaves for Sustainable Ruminant-Production	Poster Viewing 2: Tues, July 22
101	Janaina	Bragatto	State University of Maringa	Brazil	Effect of Combinations of Lactic Acid Bacteria on the Fermentation of Sugarcane Silage	Poster Viewing 2: Tues, July 22
107	Juliana	Oliveira	Federal University of Paraíba	Brazil	Contamination on the Escherichia Coli in Total Mixed Rations with High Proportions of Forage Cactus	Poster Viewing 2: Tues, July 22
110	Maity	Zopollatto	Federal University of Parana	Brazil	Chemical Composition of King Grass Silages with Inclusion of *Tithonia diversifolia*	Poster Viewing 2: Tues, July 22
99	Musibau	Bamikole	University of Benin	Nigeria	Potential of Citrus Sinensis Peels Inclusion on the Nutritive Quality of *Megathyrsus maximus* Silage	Poster Viewing 3: Wed, July 23
102	Peter	Dele	Federal University of Agriculture	Nigeria	Mineral Contents of Sweet Corn Stover Silage: Effect of Mechanical Processing and Ensiling Duration	Poster Viewing 3: Wed, July 23
105	Luiz Gustavo	Nussio	University of São Paulo	Brazil	Associative Effect of Ingredient Sources on the Partial Mixed Ration and TMR Silages Based on WDBS for Feedlot Beef Cattle Diets in Brazil	Poster Viewing 3: Wed, July 23
108	Anibal Coutinho	Rego	Federal University of Ceara	Brazil	Sheep Feed Preference for the Aerial Part of Cassava Preserved by Different Methods	Poster Viewing 3: Wed, July 23

continued on next page

Silage Lab Analysis

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
114	Kirsten	Weiss	Humboldt University of Berlin	Germany	Fertilizer N Effects on Silage Quality of Grass-Legume and Herb Mixtures	Poster Viewing 1: Mon, July 21
116	Siriwan	Martens	Saxon State Office For Environment, Agriculture And Geology	Germany	A Century of Silage Quality Indices and Current Challenges	Poster Viewing 1: Mon, July 21
117	Mariana	Schneider	Bavarian State Research Center for Agriculture	Germany	Silage Diagnostics – A Systematic Approach Towards Troubleshooting and Future Preventive Action	Poster Viewing 1: Mon, July 21
118	Gerd-Christian	Maack	University of Bonn	Germany	Silage Troubleshooting - Part I: Silo Control Measurement of Physical Aspects	Poster Viewing 1: Mon, July 21
119	Siriwan	Martens	Saxon State Office For Environment, Agriculture And Geology	Germany	Silage Troubleshooting – Part II: Evaluation of Sensory Aspects	Poster Viewing 1: Mon, July 21
120	Gerd-Christian	Maack	University of Bonn	Germany	Silage Troubleshooting – Part III: Detecting Aerobic Changes on Farm	Poster Viewing 1: Mon, July 21
121	Mariana	Schneider	Bavarian State Research Center for Agriculture	Germany	Silage Troubleshooting – Part IV: Evaluation of Fermentation Quality Based on Chemical Results	Poster Viewing 1: Mon, July 21
122	Mariana	Schneider	Bavarian State Research Center for Agriculture	Germany	Silage Troubleshooting – Part V: Classifying the Hygienic Status of Silage	Poster Viewing 1: Mon, July 21
124	Nicole	Schlau	Dairyland Laboratories	United States	Misconceptions in Near-Infrared Calibration Development: Understanding Crop Year and Regional Variability	Poster Viewing 1: Mon, July 21
112	Oluwasanmi	Arigbede	Federal University of Agriculture	Nigeria	Fermentative Quality and Relative Feed Value of Megathyrsus Silage	Poster Viewing 2: Tues, July 22
123	Szilvia	Orosz	LPT Ltd.	Hungary	Concept Of 'Heat Stress Forage' Based on Ndf Digestion Characteristics (2013-2022)	Poster Viewing 2: Tues, July 22
113	Ashley	Barkley	Lallemand	United States	Extraction Technique Influences Recovery of Volatile Fatty Acids in Corn and Grass Alfalfa Mixed Silage	Poster Viewing 3: Wed, July 23
115	Hugo Ariel	Gutiérrez	GAQSA	Mexico	Nutrient Distribution of White Corn Silage and Dispersion Analysis of Samples Analyzed with NIR	Poster Viewing 3: Wed, July 23
125	Szilvia	Orosz	LPT Ltd.	Hungary	New, Strategic Silages Adapting to Climate Change in Dry Continental Regions of Central Europe (2013-2022)	Poster Viewing 3: Wed, July 23

Silage Microbiology and Metabolomics

#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
128	Marlene	Buchebner-Jance	Lactosan GmbH & Co. KG	Austria	*Lacticaseibacillus zeae* Subsp. *Silagei*, Isolated from Corn Silages	Poster Viewing 1: Mon, July 21
130	Odilon	Pereira	Federal University of Vicosa	Brazil	Ruminal Microbiome Characterization of Beef Cattle Fed with Esiled or Not-Ensiled Total Mixed Ration	Poster Viewing 1: Mon, July 21
132	Vahideh	Vahdatmanesh	Université Laval	Canada	Bacteriocins in Silage Management: A Natural Solution to Spore-Forming Bacteria Challenges	Poster Viewing 1: Mon, July 21
129	Kevin	Panke-Buisse	USDA-ARS	United States	Influence of Heat Stress and Ensiling Temperature on Growth and Performance of Silage Inoculants	Poster Viewing 2: Tues, July 22
131	Odilon	Pereira	Federal University of Vicosa	Brazil	Bacterial Diversity in Corn Silage and Total Mixed Ration Silage with or Without Microbial Inoculant	Poster Viewing 2: Tues, July 22

Silage Microbiology and Metabolomics (continued)						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
133	Jie	Zhao	Nanjing Agricultural University	China	Reduction of Pathogenic Bacteria from Source Through Stubble Height and Silage Management of *Pennisetum giganteum*	Poster Viewing 2: Tues, July 22
127	Marlene	Buchebner-Jance	Lactosan GmbH & Co. KG	Austria	*Lacticaseibacillus parahuelsenbergensis* and *Lacticaseibacillus styriensis*, Isolated from Grass and Corn Silage	Poster Viewing 3: Wed, July 23
134	Jutta	Zielke	Dr. Pieper, Technologie- und Produktentwicklung GmbH	Germany	Comparison Of M5 Agar and MRS Agar for Differentiation of *L. plantarum* and *L. buchneri* in Silage Additives	Poster Viewing 3: Wed, July 23
Silage Mycotoxins and Contaminants						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
136	Lucia	Hyzer	University of Wisconsin - Madison	United States	Characterization of *Fusarium Spp.* Collected from Corn and Wheat in Wisconsin	Poster Viewing 1: Mon, July 21
140	Xianjun	Yuan	Nanjing Agricultural University	China	Effects of Antifungal and Detoxifying Lactic Acid Bacteria on the Fermentation Quality, Mycotoxin Content, Microbial Community, and Functional Changes	Poster Viewing 1: Mon, July 21
135	Angelika	Borkowska	Volac International Ltd	United Kingdom	Impact of Ecocool Silage Inoculant on Corn Silage Digestibility and Mycotoxin Contamination After Air Exposure	Poster Viewing 2: Tues, July 22
132	J.J	Romero	University of Maine	United States	Mitigating PFAS Contamination in the Conserved Forage-Herbivore Livestock-Human Continuum	Poster Viewing 1: Mon, July 21
138	Dongmei	Xu	Lanzhou University	China	Oxytetracycline's Impact on Corn Silage Microbes and ARGS: Metagenomic and Metatranscriptomic Study	Poster Viewing 2: Tues, July 22
137	Jason	Hartschuh	The Ohio State University	United States	Corn Hybrid Resistance Screening for Deoxynivalenol in Silage and Grain	Poster Viewing 3: Wed, July 23
139	Gang	Xu	China Agricultural University	China	MycoToxDegradome is a Curated Database Dedicated to Mycotoxin-Degrading Enzymes	Poster Viewing 3: Wed, July 23
Silage Feeding and Utilization						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
143	Heather	Dann	William H. Miner Agricultural Research Institute	United States	Performance of Holstein Cows Fed Diets Containing Corn Silage Treated with a Multi-Strain Silage Inoculant	Poster Viewing 1: Mon, July 21
146	Ewald	Kramer	ISF GmbH	Germany	Effect of Different Silage Inoculants on Fermentation and Protein Quality in Grass Silage	Poster Viewing 1: Mon, July 21
151	Manoji	Jayathilaka	Ministry of Agriculture, Livestock, Land, and Irrigation	Sri Lanka	Effect of Different Types of Silage on Milk Yield and Composition in Sri Lankan Dairy Cows	Poster Viewing 1: Mon, July 21
154	Rona Cathrina	Lizardo	Kiel University	Germany	In Vitro Nutrient Fermentation and Methane Mitigation Potential of Pineapple By-Product Silage in Ruminants	Poster Viewing 1: Mon, July 21
157	Federico	Tarnonsky	University of Florida	United States	Effect of Theoretical Length of Cut of Sorghum Silage in Backgrounding Beef Steers Performance	Poster Viewing 1: Mon, July 21
142	Joao	Daniel	State University of Maringa	Brazil	Performance of Dairy Heifers Fed Whole-Plant Corn Silage Treated with Benzohydrazide	Poster Viewing 2: Tues, July 22

continued on next page

Silage Feeding and Utilization (continued)						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
144	Tiago	Del Valle	Federal University of Santa Maria	Brazil	Citrus Essential Oil as Silage or Feed Additive has No Effect on Sheep Feed Intake and Daily Gain	Poster Viewing 2: Tues, July 22
147	Ewald	Kramer	ISF GmbH	Germany	Influence of *L. Diolivorans* Inoculant on the Carbon Footprint of Corn Silage in a Biogas Plant	Poster Viewing 2: Tues, July 22
150	Luiz Gustavo	Nussio	University of São Paulo	Brazil	Propionic Acid-Based Additive on Aerobic Stability of Total Mixed Ration : Dairy Cows Performance and Feed Frequency	Poster Viewing 2: Tues, July 22
152	Meelis	Ots	Estonian University of Life Sciences	Estonia	Effects of Silage Made From Fungicide-Treated Grass on Dairy Cows' Performance	Poster Viewing 2: Tues, July 22
156	Hana	Synkova	NutriVet s.r.o.	Czech Republic	Quality of Silages from Selected Pea and Faba Bean Varieties in The Malá Haná Region, Czech Republic	Poster Viewing 2: Tues, July 22
126	Saleh	Umar	Lanzou University	China	Influence of Inoculated Corn-Alfalfa Mixed Silage on Growth Performance of Hu Sheep	Poster Viewing 2: Tues, July 22
159	Johanna	Witt	ISF GmbH	Germany	Effect of Different Silage Inoculants on Digestibility Parameters and Metabolizable Energy in Vivo - A Meta-Analysis	Poster Viewing 2: Tues, July 22
141	Thiago	da Silva	Federal Rural University of the Amazon	Brazil	Cost Comparison Between Corn and Cassava Peel Silage in Diets for Feedlot Beef Cattle	Poster Viewing 3: Wed, July 23
145	Vaclav	Jambor	NutriVet s.r.o.	Czech Republic	Selection and Nutritive Value of Different Hybrids of Maize Silage	Poster Viewing 3: Wed, July 23
148	Marjukka	Lamminen	University of Helsinki	Finland	In Vitro Rumen Fermentation of Grass, Clover and Corn Silage-Based Diets with Different Protein Feeds	Poster Viewing 3: Wed, July 23
149	Klaus	Hünting	Saxony State Office for the Environment Agriculture and Geology	Germany	Review: Dm Losses of Grass and Other Forages from Harvest Through Conservation, Storage and Feedout to Intake	Poster Viewing 3: Wed, July 23
153	Odilon	Pereira	Federal University of Vicosa	Brazil	Intake and Digestibility of Beef Cattle Fed Corn Silage or Total Mixed Ration	Poster Viewing 3: Wed, July 23
155	Richard	Scuderi	Lallemand	United States	Effects of Inoculated Corn Silage on Fermentation, Aerobic Stability, and Feed Preference in Holstein Heifers	Poster Viewing 3: Wed, July 23
158	Federico	Tarnonsky	University of Florida	United States	Sorghum Silage as a Feed Alternative for Backgrounding Heifers in Florida	Poster Viewing 3: Wed, July 23
160	Dongmei	Xu	Lanzhou University	China	Bacteriocin-Producing *Lactiplantibacillus Plantarum* Inoculated Alfalfa Silage Promoted Digestion and Production Performance of Dairy Goats	Poster Viewing 3: Wed, July 23
Silage Experimental Design and Analysis						
#	First Name	Last Name	Organization	Country	Abstract Title	Poster Session
162	Kevin	Panke-Buisse	USDA-ARS	United States	Extraction of Metagenomic Quality DNA From Corn and Alfalfa Silage	Poster Viewing 1: Mon, July 21
161	Gerd-Christian	Maack	University of Bonn	Germany	Effect of a Silage Inoculant Containing *L. Diolivorans* on CO2 Emissions of Corn Silage During Anaerobic and Aerobic Storage	Poster Viewing 2: Tues, July 22
163	Laura	Pieper	Dr. Pieper, Technologie- und Produktentwicklung GmbH	Germany	Use of Optical pH-Measurement in Early Silage Fermentation Trials	Poster Viewing 2: Tues, July 22
164	Saurav	Tuteja	NDDB Dairy Services	India	Total Mixed Ration (TMR) to Enhance Dairy Productivity in Kolhapur, Maharashtra, India	Poster Viewing 3: Wed, July 23

ADDITIONAL INFORMATION

Complimentary Internet Access

A limited amount of free, wireless internet access is available to ISC attendees in the meeting space. To access Internet in the conference center, follow these instructions on your device:

1. Search for a Wi-Fi network on your device.
2. Depending which device you have, select the appropriate option: +Add Network or Hidden Network.
3. When asked for a network name, type in: Hilton Honors Meeting
4. Enter the password: Welcome

At this point you should see your device connect and you should be good to go.

Note: The passcode is different for internet access in your guest room. Be sure to obtain the most current complimentary access code from the front desk when you check in.

Conference Message Board

A Conference Message Board is located in the pre-function area outside the main ballroom. This is a physical board where conference attendees can post jobs, internships, grants, workshops, and other resources to help connect students and postdocs with opportunities.

Meeting Space for Impromptu Meetings

The Board Room meeting room has been reserved for those who wish to organize impromptu meetings with colleagues while you are gathered here at ISC. Availability is on a first-come, first-served basis. There is a sign-up sheet on the Conference Message Board in the pre-function area outside the main ballroom. Be sure to indicate the group contact name and cell number when you reserve space so we can reach you if we need to. ***Note: No Audio Visual (AV) equipment is provided.***

Name Badge

Your name badge is your entry pass to all networking events at the 2025 International Silage Conference, so please wear it throughout the event. As a reminder, due to spacing constraints, there are no guest entries to the conference functions.

continued on next page

Refreshments, Breaks & Lunches

Networking events will take place in the Sponsor Display & Refreshment Area.

- Breakfast options, including coffee, tea, and decaf, will be available from 7:30am to 8:30am.
- Complimentary beverages, such as regular and decaf coffee, assorted teas, and sodas, will be provided during mid-morning and afternoon breaks.
- A 90-minute lunch buffet is provided on Monday, Tuesday, and Wednesday. Buffet stations will be available in the foyer outside the session rooms. Attendees are welcome to make a plate and sit at the round tables in the session rooms. As a reminder, due to spacing constraints, *guests are not permitted.*
- A Welcome Social is scheduled for Sunday. Networking Socials are scheduled Monday and Tuesday, and complimentary beverages and hors d'oeuvres will be available. Poster Viewing Sessions are scheduled Monday, Tuesday, and Wednesday, twice a day. Display hours for both poster sessions are on page 41.
- Please be sure to visit with sponsors throughout the week and thank them for their support of ISC.

Cell Phones, Mobile Devices, Tablet Devices

Kindly silence your cell phones, tablets, and other mobile devices while in meeting rooms. If using a keyboard, please type quietly to avoid disturbing others, and ensure your laptop sound is muted. Additionally, please respect presenters' requests by refraining from photographing or sharing certain sensitive information on social media.

Lost & Found

If you find a lost item, please bring it to the registration staff. If you lose something, start by checking with the conference registration staff. If it has not been turned in, you can also inquire at the hotel front desk.

Code of Conduct

We are dedicated to providing a harassment-free experience for everyone, regardless of gender, gender identity and expression, age, sexual orientation, disability, physical appearance, body size, race, ethnicity, religion (or lack thereof), or technology choices. We do not tolerate harassment of participants in any form. Suggestive statements, sexual innuendo, or offensive remarks are not appropriate during any activity, including during talks, poster sessions, workshops, social functions, after hours parties, via Zoom chat or on Twitter or other online media. Participants asked to stop any harassing behavior are expected to comply immediately. Those violating these rules may be sanctioned or expelled without a refund at the discretion of the organizers. If you are being harassed, notice that someone else is being harassed, or have any other concerns about participant behavior, please notify the organizers immediately.

ACTION ITEMS

Use this page to record new ideas and names of people you would like to follow up with for future collaborations.

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