



UNIVERSIDADE DE ÉVORA



International Workshop

“Constraints and Solutions for Animal Housing in Warm Conditions”

Conference Room, Mitra Campus | Évora University, Évora, Portugal

26th February 2015

PROGRAM

- 09h00 **Welcome address**, Prof. Paulo Quaresma, Vice-Rector, Évora University
|
- 09h10 **Welcome and Presentation of the Cooperation Project between Federal University of Viçosa and Évora University (PVE - No 88881.062189/2014-01)**
| Fátima Baptista, Évora University, Portugal
Ilda Tinoco, Federal University of Viçosa, Brazil
- 09h30 **Animal Production in Hot Climates. The Brazilian experience**
| Ilda Tinoco, Federal University of Viçosa, Brazil
- 10h00 **Current Situation and Future Perspectives for Livestock Housing Climate Control in Spain**
| Salvador Calvet, Valencia Polytechnic University, Spain
- 10h30 **Solutions for Heat Protection in Livestock Houses at Italy**
| Matteo Barbari, Firenze University, Italy
- 11h00 **COFFEE-BREAK**
|
- 11h30 **Constraints for Animal Housing in Portugal: Solutions for warm climates**
| Vasco Fitas da Cruz and Fátima Baptista, Évora University, Portugal
- 12h00 **Analysis of Dairy Cow Behaviours as Affected by Different Cooling Systems**
| Giovanni Cascone, Catania University, Italy
- 12h30 **Model-Based Monitoring of Animal Behaviour in Livestock Houses under Hot Climate Conditions**
| Ali Youssef, Louvain University, Belgium
- 13h00 **LUNCH**
|
- 14h00 **Modelling Heat Production and Heat Loss in Growing Pigs**
| Andre Aarnink, Wageningen University, Netherlands
- 14h30 **CalorSTA: a Tool for Design and Evaluation of Evaporative Cooling Systems in Poultry Houses**
| Mélynda Hassouna, INRA, France
- 15h00 **Assessing Emissions from Naturally Ventilated Animal Houses: Towards a Combined Measuring and Modelling Approach**
| Peter Demeyer (ILVO, Belgium)
- 15h30 **COFFEE-BREAK**
|
- 16h00 **Environmental Impacts of Waste Management in Animal Housing in Hot Climates**
| Cecília de Souza (Federal University of Viçosa, Brazil)
- 16h30 **Facilities for Poultry Housing. Energetic Implications**
| Asdrubal Neves, Equiporave Lda, Portugal
- 17h00 **Discussion and Closing Remarks**
| Vasco Fitas da Cruz, Évora University/ICAAM, Portugal

ACKNOWLEDGMENTS



SUPPORT





27th February 2015

List of POSTERS presented and discussed

EVALUATION AND SPATIAL CHARACTERISTICS OF THERMAL ENVIRONMENT IN LABORATORY FOR STUDY OF GOATS IN REGION OF HOT WEATHER

TELES JUNIOR, C.G. S.; OLIVEIRA, J.L.; VILELA, M.O.; GATES, R.S.; TINOCO, I.F. F.; SOUZA, C. F.; VASCO F.C., BAPTISTA, F.J.F.

INFLUENCE OF TWO DIFFERENT CLIMATE CONDITIONS ON THE PERFORMANCE OF LAYING HEN OF DEKALB WHITE AND HY-LINE W36 LINEAGES

VIEIRA, M.F.A.; GATES, R.S.; TINOCO, I.F. F.; MENDES, M.A.S. A.; COELHO, D.J.R.; VILELA, M. O, TINÔCO, B.F , BAPTISTA, F.J.F.

QUALITY OF HEALTH OF DIFFERENT BROILER LITTER REUSED

VIEIRA, M.F.A., GATES, R.S., TINOCO, I.F. F., CASSUCE, D.C, INOUE, K.R.A, COELHO, D.J.R., MENDES, M.A.S.A., TINOCO, B.F.

STANDARDIZER OF METHODS FOR QUANTIFICATION OF AMMONIA IN OPENED OR HYBRID ANIMAL PRODUCTION FACILITIES

SOUZA, F.C., TINOCO, I.F.F., SARAZ, J.A.O., ROCHA, K.S.O., RAMIRES, M.A., SOUZA, C.F., COELHO, D.J.R., SILVA, A.L.

EVALUATION OF THE EFFICIENCY OF REFLECTIVE PAINT ON FIBRE CEMENT COVERAGE AND CHARACTERIZATION OF THE THERMAL ENVIRONMENT BASED ON ENTHALPY IN COMMERCIAL POULTRY SHEDS

OLIVEIRA, K. P.; TELES JUNIO, C.G S.; MORAES, S. R. P. ; JARDIM FILHO, R. M. ; TINOCO, B.F.; SOUZA, C. F.; VASCO F.C., BAPTISTA, F.J.F.

SEARCH FACTORS INFLUENCING GENERATION AND EMISSION AMMONIA BY MANURE OF LAYING HENS AND PROPOSE A SCORE TO THE MAXIMUM POTENTIAL EMISSION

FRANÇA, L.G. F., TINOCO, I. F. F., MENDES, M. A.S. A, VIEIRA, M. F. A., COELHO, D.J. R. VASCO F.C., BAPTISTA, F.J.F.

ENVIRONMENTAL INFLUENCE ON BODY TEMPERATURE OF BROILER CHICKS

CÂNDIDO, M.G.L.; TINÔCO, I.F.F.; PINTO, F.A.C.; SANTOS, N.T.; PARDIM, K.O.; COELHO, D.J.R. TELES JUNIOR, C.G.S. BAPTISTA, F.J.F.

THERMAL INSULATION OF POULTRY HOUSES AND ITS EFFECTS ON THE QUALITY OF INDOOR AIR, ENERGY CONSUMPTION AND PRODUCTIVE PERFORMANCE OF BROILER CHICKEN

PAULA, M.O.; TINÔCO, I.F.F., SARAZ, J.A.O., SOUSA, F.C., VIEIRA, M.F.A. TINOCO, B.F., BAPTISTA, F.J.F.

SPATIAL VARIATION OF THE BLACK GLOBE TEMPERATURE HUMIDITY INDEX IN COMMERCIAL BROILERS INSTALLATION IN A HOT CLIMATE REGION

VILELA, M. O.; OLIVEIRA, J. L.; TELES JUNIOR, C. G. S.; OLIVEIRA, M. C. T. B.; VIEIRA, M. F. A.; SANTOS, T.C.; TINOCO, B. F.; VASCO F.C.

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THERMAL ENVIRONMENT EFFECT IN CHARACTERISTICS OF POULTRY BED USING COFFEE HUSK AND INFLUENCE ON AMMONIA EMISSION

QUEIROZ, P. P.; SOUZA, C.F.F.; TINÔCO, I.F.F.; BORGES, A.C.; CÂNDIDO, M.G.L.; ARCILA, J.C.P.; OLIVEIRA, K.P.; COSTA, R.S.

CFD MODELING OF THE THERMAL ENVIRONMENT IN A NEGATIVE PRESSURE TUNNEL VENTILATED BROILER BARN DURING THE FIRST WEEK OF LIFE

HERNANDEZ, R.O.; GARCIA, L.M.G.; TINOCO, I.F.F.; SOUZA, C.F.; BAETA, F.C.

BODY TEMPERATURE RATINGS ON F1 HOLSTEIN/ZEBU COWS IN BRAZILIAN SEMIARID

SANTOS, T.C.; SANTOS, L.V.; CARVALHO, C.C.S.; TINOCO, I.F.F.; VIEIRA, M.F.A.; VILELA, M.O.; TINOCO, B.F.

EFFECT OF PHYSICAL WORK LOAD THE SUPPLY CHAIN OF POULTRY

CARVALHO, C.C.S.; SANTOS, T.C.; TINOCO, I.F.F.; VIEIRA, M.F.A.; MENEGALI, I.; GUIMARÃES, M.C.C.

THERMAL EVALUATION COMFORT IN POULTRY HOUSE IN BRAZILIAN SEMIARID

CARVALHO, C.C.S.; SANTOS, T.C.; SILVA, G.C.; SANTOS, L.V.; TINOCO, I.F.F.; VIEIRA, M.F.A.

GAS EMISSIONS TO THE ATMOSPHERE, GENERATED BY PIG FARMING WASTE: ITS NEGATIVE EFFECTS AND MITIGATING ACTIONS

ROCHA J.L.S., SILVA J.N., SOUZA C.F., BORGES A.C., MOREAU M.S., BAÊTA F.C.

POTENTIAL OF REDUCTION IN THE EMISSION OF METHANE AND NITROUS OXIDE FROM SWINE WASTEWATER AFTER TREATED BY TWO DIFFERENT SYSTEMS

INOUE, K. R. A.; SOUZA, C. F.; VIEIRA, M. F. A.; SOUSA, M. S.; TINÔCO, I. F. F.; ROCHA, J. L. S.

MAPPING OF THE THERMAL ENVIRONMENT IN DIFFERENT CONCEPTIONS OF VERTICAL LAYING HENS FACILITIES, WITH NATURAL VENTILATION AND WITH NEGATIVE PRESSURE VENTILATION

MENDES, M.A.S.A. , GATES, R.S. , TINOCO, I.F.F. , SOUZA, C.F.F., VIEIRA, M.F.A., COELHO, D.J.R. , FRANÇA, L.G. F. , FERNANDES, K.F.

ANALYSIS OF THE AIR TEMPERATURE IN LAYING HENS AVIARIES WITH VERTICAL CREATION SYSTEM

COELHO, D.J.R.; TINÔCO, I.F.F.; VIEIRA, M.F.A.; MENDES, M.A.S.A.; CÂNDIDO, M.G.L.; TINÔCO, B.F.; BAPTISTA, F.J.F.; CRUZ, V.F.

INFLUENCE OF CURTAINS ON THE AMMONIA CONCENTRATION IN BROILER POULTRY AVIARY

COELHO, D.J.R.; TINÔCO, I.F.F.; MENDES, M.A.S.A.; VIEIRA, M.F.A.; SOUSA, F.C.; FRANÇA, L.G.F.; FERNANDES, K.M.; BAPTISTA, F.J.F.

SHEEP HOUSING DESIGN IN ALENTEJO

Madeira, R. ; Pilirito, A.

SHEEP HANDLING YARD

Pilirito, A.; Madeira, R.

ACKNOWLEDGMENTS



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HOUSING DESIGN FOR GOATS

F. Silva, B. Bento and C. Matos

ENVIRONMENTAL CONTROL OF AN RABBIT HOUSE LOCATED IN ALENTEJO

M. Rodrigues, L. Cachucho, I. Vilas-Boas, E. Carreira

RABBIT HOUSING DESIGN

M. Rodrigues, L. Cachucho, I. Vilas-Boas, E. Carreira

EVALUATION OF ENERGY EFFICIENCY MEASURES IN BROILER PRODUCTION. A PORTUGUESE SHOW-CASE

F. Baptista, D. Murcho, L.L. Silva, C. Marques, V. Fitas da Cruz, I. Tinoco and C. Ferreira

ENVIRONMENTAL INFLUENCE ON BODY TEMPERATURE OF BROILER CHICKS

Cândido, M.G.L.; Tinôco, I.F.F.; Pinto, F.A.C.; Santos, N.T.; Oliveira, K. P; Coelho, D.J.R.; Teles Junior, C.G.S.; Barbari, M.; Baptista, F.J.F

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