

**THE POLISH BRANCH
OF WORLD'S POULTRY SCIENCE ASSOCIATION**



Wrocław University of Environmental and Life Sciences
Faculty of Biology and Animal Breeding
Institute of Animal Breeding
Division of Poultry Breeding



PROGRAM

OF

XXI INTERNATIONAL POULTRY SYMPOSIUM PB WPSA



„Science for poultry practice – poultry practice for science”

**Wrocław – Szklarska Poręba, Poland
7 – 9. 09. 2009**

Monday – 07. 09. 2009

8:00 - 10:00; 12:00 - 14:00 Participant Registration.

10:00 Opening Ceremony (Room A).

Welcome speech of the Chairperson of Symposium Organizing Committee
- dr hab. Ewa Łukaszewicz, prof. UP.

Speech of President of PB WPSA - Prof. Andrzej Rutkowski.

Speech of Chief Veterinary Officer – Dr. Janusz Związek DVM.

Speech of the RECTOR of Wrocław University of Environmental and Life Sciences
- Prof. Roman Kołacz - Opening of Symposium.

Chairman: Prof. B. Chelmońska, Prof. J. Niemiec.

10:40 Prof. A. Rutkowski, Prof. J. Jankowski. Current status of Polish poultry production.

10:55 Prof. J.P. Brillard. Growth and reproduction in poultry: towards biological limits?

11:25 Prof. J. Barna. Studies related to fertility in broiler breeders.

11:55 Prof. T. Trziszka, Prof. Z. Dobrzański The possibility of an application of EU resources in the realisation of advanced research projects – on the example of the project entitled „innovative technologies of biopreparations production on the basis of new generation eggs”.

12:25 Discussion.

12:40 Coffee break (Room „Hades”).

13:00-14:10 Competition of young Polish scientists for „Award of Jerzy Będkowski”.

13:00 M. Bochenek, M. Wiąz, A. Rutkowski. The effect of wheat hardness on the nutritional value of wheat in broiler chicken study.

13:10 J. Barteczko, R. Augustyn, O. Lasek. True digestibility of crude protein and amino acids of varied wheat cultivars in broiler chickens.

13:20 A. Lecewicz, J. Jankowski, Z. Zduńczyk. Performance and the gastrointestinal tract parameters of turkeys fed diets with differentiated level of sunflower meal.

13:30 S. Mucha, T. Szwaczkowski. Project of QTL mapping in ducks.

13:40 E. Popiela, B. Króliczewska, W. Zawadzki, A. Bartkowiak. Effect of defatted amaranth seeds on selected hematological and biochemical blood parameters of laying hens.

13:50 A. Arczewska, S. Świątkiewicz, J. Koreleski. Anticoccidial effect of herbal extracts in comparison to coccidiostatics in broiler chickens.

14:00 Z. Dobrzański, M. Skiba, M. Synowiec. The influence of humic preparations on limited accumulation of heavy metals and trace elements in hens' eggs.

14:10 - 15:30 Lunch.

15:30-17:00 Plenary Session: Environment, welfare and veterinary prophylactics in poultry production (Room A).

Chairman: Prof. E. Herbut, Prof. V. Gerzilov.

15:30 Prof. M. Mazurkiewicz. Current problems of pathology in poultry.

- 16:00** A. Żbikowski, P. Szeleszczuk, B. Dolka, G. Kosowska, E. Karpińska. The adenoviral infections of meat-type chickens in literature data and in our observations.
- 16:10** G. Tomczyk. D. Bednarek, Z. Minta. Non- specific immunity and body weight increases of geese after plucking.
- 16:20** K. Stuper, T. Szablewski, Ewa Gornowicz, J. Kijowski, J. Perkowski. Microscopic fungi in the poultry house environment.
- 16:30** J. Sobczak, A. Chmielowski, A. Rakowski. Bioutilization of pollutants emitted with air from poultry buildings.
- 16:40** N. Bozakova, V. Gerzilov, K. Stoyanchev. Behavioural aspects of mule ducks welfare after induction and treatment of muscular dystrophy. I. Rearing in comfortable microclimatic conditions.
- 16:50 Discussion.**
- 17:30 Walking trip to Waterfall “Szkłarka”.**
- 19:00 Barbeque with folk music.**

Tuesday - 08. 09. 2009

Chairman: Dr hab. E. Łukaszewicz prof. UP, Prof. J. Barna (Room A).

- 9:00 Prof. D. Jamroz. Physiological and environmental aspects of feeding the reproductive geese and ducks.**
- 9:30 Prof. M. Rodehutschord. Facts and current shortcomings on phosphorus availability.**
- 10:00 Prof. E. Smalec. Cytogenetics tests in poultry - possibilities of practical applications.**
- 10:30 Discussion.**
- 10:40 Presentation of Alltech Poland.**
- 10:50 Presentation of Agrar Produktion und Consulting Ges.m.b.H.**
- 11:00 Coffee break (Room „Hades”).**
- 11:30-12:50 Plenary Session: Biological basis of poultry production (Room B).**
- Chairman: Prof. M. Bednarczyk, Prof. A. Testik.**

- 11:30** P. Łakota, J. Brzezińska, D. Sawicka, S. Roychoudhury, M. Bednarczyk. Isolation and transformation of chicken primordial germ cells.
- 11:40** M. Łukasiewicz, J. Gruszczynska, B. Grzegorzółka. Utilization of the selected microsatellite sequences in determination of origin of Ayam Cemani hens.
- 11:50** A. Wolc, M. Lisowski, T. Szwaczkowski. Oviposition time – a potential new selection criterion?
- 12:00** V. Gerzilov. Assessment of sperm characteristics in Muscovy ducks (*Cairina moschata*).
- 12:10** A. Partyka, W. Nizański, E. Łukaszewicz. Assessment of White Koluda[®] geese semen quality with the use of flow cytometry.
- 12:20** Z. Stevenson. Nutritional strategies to control Salmonella – in light of experience from European countries.
- 12:30** Ł. Wrzaszcz, K. Andraszek, J. Miszkiewicz, G. Szukalski, E. Smalec. An application of phylogenetic trees in studies on DNA polymorphism.

12:40 Discussion.

12:50-14:00 Poster Session A - Moderator: Prof. S. Węzyk (Room B).

- A1** A. Brodacki, J. Batkowska, G. Zięba. The polymorphism of egg yolk and white proteins of inbreeding hens.
- A2** V. Gerzilov, D. Kazachka, S. Jeleva, P. Petrov, M. Subev, I. Nikolov. Effect of cryoprotectants on the motility and the morphology integrity of Muscovy spermatozoa.
- A3** B. Grajewski, A. Wolc, M. Lisowski. Polymorphism of chosen microsatellite sequences in 6 duck lines.
- A4** B. Grajewski, M. Lisowski, J. Radziszewska. DNA bank for poultry genetic resources in Poland.
- A5** M. Bednarczyk, K. Kasperczyk, K. Gulewicz, M. Urbanowski. *In ovo* technology in improvement of broiler chickens performance.
- A6** M. Łukasiewicz, M. Michalczuk. The selected parameters of laboratory testing of blood of Ayam Cemani hens and cocks.
- A7** S. Nowaczewski, A. Rosiński, H. Kontecka, S. Krystianiak. Oximetry and selected hematological indices of broiler chickens.
- A8** S. Nowaczewski, H. Kontecka, S. Koberling, A. Rosiński. The quality of Japanese quail eggs during reproductive period.
- A9** A. Partyka, E. Łukaszewicz. Effect of cryopreservation on lipid peroxidation in avian semen.
- A10** I. Skomorucha, R. Muchacka, E. Sosnówka-Czajka, E. Herbut. Physiological response of broiler chickens from two genetic groups to heat stress.
- A11** A. Witkowski, S. Knaga, D. Jaworska, G. Jeżewska-Witkowska. Variability of duration of tonic immobility reaction in the Japanese quails.
- A12** M. Urbanowski, K. Kasperczyk, M. Bednarczyk. Influence of prebiotic in ovo development of immunological system of broiler chickens.
- A13** B. Grzegorzółka, E. Michalska. Effect of egg weight on hatchability of Japanese quail (*Coturnix japonica*) selected for body weight.

14:00 - 15:30 Lunch.

11:30-12:50 Plenary Session: Nutrition and utilization of different feed components (Room A).

Chairman: Prof. A. Rutkowski, Prof. H. Zeweil.

- 11:30** A. Skowrońska, D. Mikulski, J. Jankowski, M. Mikulska, E. Sosnowska. The composition of microbiota in the ceca of turkeys fed with acidifiers or herbal extracts as measured by fluorescent in situ hybridization.
- 11:40** E. Delezie, L. Maertens, G. Huyghebaert. The effect of maternal dietary n-3 fatty acids on hatch, chick quality and growth of the off-spring.
- 11:50** D. Józefiak, A. Sip, S. Kaczmarek, A. Rutkowski. The effect of divercin on gastrointestinal microflora of broiler chickens in “*in vitro*” conditions.
- 12:00** J. Koreleski, S. Świątkiewicz. Laying performance and nitrogen balance in hens fed organic diets with different energy and methionine levels.
- 12:10** L. Maertens, E. Delezie, M. Lippens, G. Huyghebaert. Multiphase feeding of broilers by blending of 2 diets: Impact on performances and N excretion.
- 12:20** W. Szczurek. Effect of age on the ileal digestibility of amino acids in some plant protein sources for broiler chickens.

12:30 S. Kaczmarek, B.A. Slominski, M. Mogielnicka, A. Rogiewicz, A. Rutkowski. The effect of corn particle size and enzyme supplementation on growth performance and energy utilization of broiler chickens.

12:40 Discussion.

12:50 - 14:00 Poster Session C - Moderator: Prof. S. Smulikowska (Room A).

- C1** R. Burek, S. Budnik. Broiler feeding during the first week of life.
- C2** A. Jerysz, E. Łukaszewicz, A. Kowalczyk. Effect of dietary selenium and vitamin E on semen characteristics of White Koluda® ganders.
- C3** D. Józefiak, A. Ptak, S. Kaczmarek, A. Rutkowski, P. Maćkowiak. The effect of enzyme supplementation on broiler chicken performance fed DIETS with full fat rapeseed.
- C4** S. Kaczmarek, D. Józefiak, A. Rutkowski. The effect of drying temperature and enzyme supplementation on ileal nutrient digestibility and energy utilization in broiler chicken study.
- C5** A. Kowalczyk, E. Łukaszewicz, M. Adamski. Carcass weight and slaughter yield of ducks fed with different level of dried distillers grains with solubles (DDGS).
- C6** K. Kozłowski, T. Majewska. Effect of plant extracts on the production results of broiler chickens.
- C7** K. Kozłowski, J. Jankowski. Efficacy of *Pichia pastoris* phytase in laying hen nutrition.
- C8** L. Maertens, G. Huyghebaert. Overview of the experiments with encapsulated calciumbutyrate in broilers at the ILVO Institute.
- C9** T. Majewska, K. Kozłowski. Effect of charcoal addition on performance of broiler chickens.
- C10** J. Naczmański, D. Mikulski, J. Jankowski, M. Mikulska. Effects of *Pediococcus acidilactici* feed supplementation on the performance of laying hens and egg quality.
- C11** A. Rutkowski, D. Józefiak, M. Wiąz, S. Kaczmarek, M. Bochenek. Alimentary and non-alimentary factors analysis in selected triticale genotypes regarding to monogastric nutrition.
- C12** S. Smulikowska, J. Czerwiński, A. Mieczkowska, A. Piotrowska, I. Bartkowiak-Broda. Phosphorous availability in yellow-seeded and black-seeded winter rapeseed for broiler chickens.
- C13** W. Speer. Clay minerals increase surface of mucous of intestine and by that absorption rate of nutrients.
- C14** S. Świątkiewicz, J. Koreleski, A. Arczewska. Use of glycerin from rapeseed oil as energy source for laying hens.
- C15** H.S. Zeweil, M.H.A. Abd El-Rahman, Mahmoud, Mona, M.A. Abou Mahara. Effect of dietary probiotic and organic acids on broiler performance and carcass traits.
- C16** H.S. Zeweil, A. Abd El-Aziz, M.H.A. Abd El-Rahman, El-Dekin, S.A. Marwa. Effect of methionine supplementation to a low protein diet on Baheij laying hens performance.

4:00 - 15:30 Lunch.

15:30-17:10 Plenary Session: Quality and safety of poultry products (Room A).

Chairman: Prof. Z. Dobrzański, Dr. L. Maertens.

15:30 Prof. W. Kopec. Nutraceutical value of poultry meat.

- 16:00** M. Heincinger, M. Mezes. Effect of different DDGS inclusion levels on chicken breast quality.
- 16:10** Z. Dobrzański, Z.R. Barej, F. Bubel, E. Popiela. The influence of dietary humic-aluminosilicate preparation on mercury and selenium concentration in eggs from free range system.
- 16:20** J. Górski. Effect of Pekin duck crossbreeding from local strains on production trait values in crossbreds.
- 16:30** T. Szablewski, K. Stuper, R. Cegielska-Radziejewska, E. Gornowicz, J. Perkowski. Housing management of layer hens and microbiological quality of eggs for human consumption.

16:40 T. Lesiów, M. Oziębłowski, T. Szmańko, M. Korzeniowska, Ł. Bobak. Susceptibility of turkey breast muscles on defects of PSE and DFD meat.

16:50 K. Połtowicz, J. Doktor. Effect of rearing duration on production results and meat quality of slow-growing broiler chickens.

17:00 Discussion.

17:10 Coffee break (Room „Hades”).

17:30-18.30 Poster Session D - Moderator: Prof. A. Brodacki (Room A).

D1 M. Adamski, J. Kuźniacka. Effect of the keeping system on the body weight and composition of broiler chicken carcasses.

D2 J. Bogucka, K. Walasik, P. Palińska, M. Adamski. Morphological changes of pectoral muscle of quails in postnatal growth.

D3 J. Doktor, K. Połtowicz. Effect of age and transport stress on meat quality of broiler chickens.

D4 G. Elminowska-Wenda, A. Sobolewska, K. Cywa-Benko, K. Połtowicz, A. Rosiński. Microstructure of the breast muscle of Sussex and Rhode Island Red chickens kept in conservative flocks.

D5 E. Gornowicz, L. Lewko, G. Szukalski, M. Pietrzak. Selected meat quality traits of ducks from conservative flocks.

D6 M. Gumułka, A. Rabsztyn, K. Połtowicz, F. Borowiec, J. Niedziółka. Comparative study on slaughter value and meat quality of the Zatorska and White Koluda[®] broiler geese.

D7 M. Korzeniowska, Ł. Bobak, T. Lesiów, M. Oziębłowski, T. Szmańko. Are sensory properties of chicken breast muscles effected by the season?

D8 J. Kuźniacka, M. Adamski. Analysis of changes in the quality characters of common quail eggs during a 7-week storage.

D9 L. Lewko, E. Gornowicz. Physicochemical traits of eggs from two-strain hybrids of laying hens.

D10 W. Makowski, K. Wawro, E. Wilkiewicz-Wawro, K. Kleczek, D. Murawska. Carcass weight without skin and skin weight as indicators of lean meat and fat content in slaughter turkeys.

D11 M. Michalczyk, D. Pietrzak, J. Mroczek, M. Łukasiewicz. Results of rearing and technological traits of meat of slaughter chickens depending of their slaughter age.

D12 A. Rabsztyn, M. Gumułka, M. Gucia. Effect of age and sex on the quality of feathers from plucking mature Zatorska geese.

D13 T. Skiba, W. Kopeć, M. Korzeniowska, A. Kowalczyk. Quality of spent hen breast muscles in relation to various breeding system.

D14 J. Stangierski, J. Kijowski. Cryoprotection of miofibril preparation obtained from mechanically recovered poultry meat.

D15 T. Szmańko, T. Lesiów, M. Kałuża, M. Korzeniowska, M. Oziębłowski, Ł. Bobak. Changes in defective chicken broiler meat in result of freezing.

D16 K. Walasik, J. Bogucka, J. Furtak, M. Adamski. Histopathological changes of the pectoral muscle in chicken broilers in the postnatal growth.

D17 H.M. Baranowska, R. Rezler, J. Stangierski. Temperature properties of poultry proteins examined using the low-field NMR.

D18 R. Rezler, H. M. Baranowska, J. Stangierski. Thermo-rheological properties of poultry proteins supplemented with transglutaminases.

20:00 -Gala Diner.

Wednesday – 09. 09. 2009

9:00-10:10 Plenary Session: Utilization, Ecological and Alternative System of Poultry Production (Room A).

Chairman: Prof. T. Majewska, Prof. J. Górski.

9:00 M. Opałka, B. Kamińska, A. Leska, H. Puchajada-Skowrońska, L. Dusza. The effect of phytoestrogens on reproductive processes in males of Biłgoraj goose.

9:10 S. Nowaczewski, A. Rosiński, M. Markiewicz, H. Kontecka. The influence of different kind of litter on health and productive results of broiler chickens.

9:20 J. Badowski, H. Bielińska, K. Kłos. Productive value of White Kołuda[®] geese in parent flocks in 2008.

9:30 B. Witak. Estimation of health, productive and economic results of broiler rearing in Podlasie region in 1995-2006.

9:40 J. Badowski. Hatchability of goslings from eggs stored for up to three weeks before incubation.

9:50 E. Sosnowka-Czajka, I. Skomorucha, R. Muchacka, E. Herbut. Physiological parameters of conservation breed hens in the organic production system.

10:00 Discussion.

10:10 Coffee break (Room „Hades”).

10:40-11:40 Poster Session E - Moderator: dr hab. M. Adamski (Room A) .

E1 M. Adamski. Relationships between the morphological composition of eggs and the body weight in Biała Kołudzka[®] goose after fattening with oat.

E2 M. Korczyński, S. Opaliński, M. Szołtysik, Z. Dobrzański, P. Cwynar, R. Kołacz. Identification of volatile odorous compounds emitted from poultry droppings – laboratory test.

E3 K. Kleczek, K. Wawro, E. Wilkiewicz-Wawro, W. Makowski. Regression equations for postmortem estimation of the lean meat and fat content of a carcass in heavy-type turkeys.

E4 K. Kłos, H. Bielińska, Z. Sokołowicz. Relationship between body dimensions and leg muscling of White Koluda[®] geese.

E5 K. Kłos, J. Badowski, Z. Sokołowicz. Changes in body weight and dimensions of White Kołuda[®] geese during growth.

E6 M. M. Makagon, J. A. Mench. Effect of previous experience on nest box use by Pekin ducks.

E7 D. Murawska , K. Wawro, W. Makowski, K. Kleczek. Relationship between age and the proportions of edible parts and offal in broiler chickens.

E8 K. Pogoda-Sewerniak, A. Burek, Z. Dobrzański, F. Bubel, E. Popiela. An influence of poultry keeping system on chosen antioxidant parameters' activity of hens.

E9 D. Szczerbińska, M. Wiercińska. The quality analysis of ostriches, emu and nandu eggs.

E10 H.S. Zeweil, Mohamed, Nadia, A., M.H.A. Abd-El-Rahman, El-Iraky, E.I. Eptesam. Effect of heat stress on the performance of Egyptian local chicken.

E11 J. Krawczyk, Z. Sokołowicz. Profitability of broiler chicken production in 2001-2007 using the example of selected farm.

12:00 Conclusions and Closing of the Symposium.

13:00 - 14:30 Lunch.

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