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Sustainable Livestock Production in the Perspective of Food Security, Policy, Genetic Resources, and Climate Change



Sustainable Livestock Production in the Perspective of Food Security, Policy, Genetic Resources, and Climate Change
Proceedings
Full Papers
10-14 November 2014, Yogyakarta, INDONESIA
The 16th AAAP Congress



Ministry of Agriculture



Indonesian Society of Animal Sciences



Gadjah Mada University



The 16th AAAP Congress



IKATAN SARJANA PETERNAKAN INDONESIA



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SUSTAINABLE LIVESTOCK PRODUCTION IN THE PRESPECTIVE OF FOOD SECURITY, POLICY, GENETIC RESOURCES, AND CLIMATE CHANGE

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AAAP



Asian-Australasian Association of Animal Production Societies

Scope of AAP: AAP is established to devote for the efficient animal production in the Asian-Australasian region through national, regional, international cooperation and academic conferences.

Brief History of AAP: AAP was founded in 1980 with 8 charter members representing 8 countries-those are Australia, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines and Thailand. Then, the society representing Taiwan joined AAP in 1982 followed by Bangladesh in 1987, Papua New Guinea in 1990, India and Vietnam in 1992, Mongolia, Nepal and Pakistan in 1994, Iran in 2002, Sri Lanka and China in 2006 , thereafter currently 19 members.

Major Activities of AAP: Biennial AAP Animal Science Congress, Publications of the Asian-Australasian Journal of Animal Sciences and proceedings of the AAP congress and symposia and Acknowledgement awards for the contribution of AAP scientists.

Organization of AAP:

- President: Recommended by the national society hosting the next biennial AAP Animal Science Congress and approved by Council meeting and serve 2 years.
- Two Vice Presidents: One represents the present host society and the other represents next host society of the very next AAP Animal Science Congress.
- Secretary General: All managerial works for AAP with 6 years term by approval by the council
- Council Members: AAP president, vice presidents, secretary general and each presidents or representative of each member society are members of the council. The council decides congress venue and many important agenda of AAP

Office of AAP: Decided by the council to have the permanent office of AAP in Korea. Currently # 909 Korea Sci & Tech Center Seoul 135-703, Korea

Official Journal of AAP: Asian-Australasian Journal of Animal Sciences (Asian-Aust. J. Anim. Sci. ISSN 1011-2367. <http://www.ajas.info>) is published monthly with its main office in Korea

Current 19 Member Societies of AAP:

ASAP(Australia), BABA(Bangladesh), CAASVM(China), IAAP(India), ISAS(Indonesia), IAS(Iran), JSAS(Japan), KSAST(Korea), MSAP(Malaysia), MLSBA(Mongolia), NASA(Nepal), NZSAP(New Zealand), PAHA(Pakistan), PNGSA(Papua New Guinea), PSAS(Philippines), SLAAP(Sri Lanka), CSAS(Taiwan), AHAT(Thailand), AHAV(Vietnam).

Previous Venues of AAP Animal Science Congress and AAP Presidents

I	1980	Malaysia	S. Jalaludin	II	1982	Philippines	V. G. Arganosa
III	1985	Korea	In Kyu Han	IV	1987	New Zealand	A. R. Sykes
V	1990	Taiwan	T. P. Yeh	VI	1992	Thailand	C. Chantalakhana
VII	1994	Indonesia	E. Soetirto	VIII	1996	Japan	T. Morichi
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XIII	2008	Vietnam	N.V. Thien	XIV	2010	Taiwan	L.C. Hsia
XV	2012	Thailand	C.Kittayachaweng	XVI	2014	Indonesia	Yudi.Guntara.Noor

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Remark from Chairman of the 16th AAAP Congress

Dear all of the scientists, delegates, participants, ladies and gentlemen,

As the host of the 16th AAAP Animal Science Congress, we do impress, thankful, and present a high appreciation for your participation in joining the 16th AAAP Conference in Yogyakarta, Indonesia. We can see the very great enthusiasm of all the scientists to solve livestock problems as well as to share valuable information and knowledge for human prosperity all over the world.

A large numbers of representatives are participating in this conference, which indicates that the interest in the field of animal science is continuously increasing among member countries. We have invited some Plenary Speakers and Invited Papers who are qualified as scientists and bureaucrats in animal science field to share their valuable information and knowledge. Other participants can deliver their precious research through oral and poster presentations. This congress is also paralleled to symposium held by livestock organization and institution as well as some academic meetings.

The theme of the 16th AAAP Congress is “Sustainable Livestock Production in the perspective of Food security, Policy, Genetic Resources and Climate Change”. We believe that animal production in Asia and Australasia has become important and strategic sector to provide high quality food, opening up job opportunities, as well as improving farmer’s welfare. Animal science societies, therefore, have to support this growing interest by providing more appropriate and relevant technologies to improve efficiency of resources utilization to produce more animal protein food by member countries. Long term sustainable livestock production will, therefore, be significantly influenced by the national food policy, climate change issues, as well as conserved environments and genetic resources.

On behalf of 16th AAAP Committee and all associates, we wish all of the participants having a great achievement of success and fulfill the expectation as well as enjoying the interaction with all scientists participating the Congress.

High appreciation we may acknowledge to all of sectors, especially for His Majesty of Royal Palace of Yogyakarta, Sri Sultan Hamengku Buwono X, and Rector of Universitas Gadjah Mada, who have concerned to facilitate the Congress site host. Special thank to the Steering Committee, Scientific Committee, Reviewers and Editorial Boards for their great contribution to make the Congress successfully organized.

To you, your excellencies, invited guests and delegates, thank you for choosing to come to this conference and to Indonesia. We hope the arrangements we have put in place meet with your requirements. We wish you fruitful deliberations and an intellectually and socially rewarding stay in Yogyakarta.

We are looking forward to meeting you all in the future congress to continue.

Terimakasih (Thank you)

Budi Gunarto

Chairman of the 16th AAAP Congress

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16th AAAP PRESIDENT'S REPORT

Selamat pagi!

Dear Ladies and Gentleman

Attendants of 16 AAAP congress:

It is my great pleasure and honor to welcome all of you at The 16th AAAP Congress on November 10 – 14, 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta Indonesia. This Congress is jointly organized by The Indonesian Society of Animal Science (ISAS), Indonesian Agency for Agricultural Research and Development, Indonesian Directorate General of Livestock and Animal Health Services-Ministry of Agriculture and Faculty of Animal Science Universitas Gadjah Mada. Universitas Gadjah Mada Campus is located in Yogyakarta, one of the Special Region in Indonesia where culture and tradition live in harmony with the modern nuance and educational spirit makes it a beautiful venue of this Congress.

The 16th AAAP Program consists of scientific and technical programs as well as social and cultural activities. The scientific and technical programs offer five plenary sessions, two satellite symposia, field trip, and many scientific sessions, both oral and poster presentations.

During this event distinguished scientists from all over the world will present plenary papers ranging from livestock policy, food security, local genetic resources, climate change, animal welfare, international trade, as well as global research agenda. I believe that around 1,200 scientists as well as livestock producers, companies, graduate and postgraduate students from 40 countries are attending the Congress and more than 770 research papers will be presented. The Congress also provides not only opportunities to discuss and exchange information and experience with scientists from different regions of the world, but also a good environment to build up friendship between nations is our ultimate goals for the Congress outcome. Moreover, this congress also keeps its tradition to be a forum of communication among researchers, academician, industries and related stakeholders among Asian-Australasian countries.

The social and cultural programs are specially designed to be very important for the congress participants since the promotion of friendship and future scientific cooperation are also central to this AAAP Congress. The Opening Ceremony will offer you the Congress Program at a glance. In addition, participants will also join at a warm Welcome Dinner gathering at Keraton Yogyakarta. Sri Sultan Hamengku Buwono X, His Majesty of The Royal Palace of Yogyakarta will give you the most memorable moment during this event.

Moreover, cultural night offers us an opportunity to introduce significant culture from participants' countries and gives a spectacular performance to enjoy in order to strengthen our friendship and future cooperation. Field trip, on the other hand, provides a wonderful sightseeing to the most valuable ancient heritage around Yogyakarta, such as Borobudur and Prambanan Temples, and more other interesting places to visit. I do hope that you enjoy your stay in Yogyakarta and not miss all of these spectacular opportunities.

Closing Ceremony will be held on November 14, 2014 immediately after the last session of presentation. During this great moment we will welcome the next host of the 17th AAAP Congress to deliver a brief message. The AAAP Congress Award will provide and announce some participant who receive appreciation for their valuable research.

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With all of our hospitality, we will try our best to make your brief visit to Yogyakarta and our beautiful country Indonesia, become a wonderful experience and memorable moments.

I wish you all a very pleasant and most enjoyable stay in Yogyakarta, Indonesia.

Terima kasih (Thank you).

Sincerely Yours
Mr. Yudi Guntara Noor
President
The 16th AAP Congress

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PREFACE

The proceedings of the 16th Congress of the Asian-Australasian Association of Animal Production Societies (AAAP) held on 10-14 November 2014 at Grha Sabha Pramana, Universitas Gadjah Mada, Yogyakarta, Indonesia, consist of two volumes. Those are Volume I of Plenary and Invited Papers and Volume II of Abstracts Contributed Papers. This is the second volume of the proceedings that contains a total of 754 abstracts, consist of 368 papers for oral presentation and 386 papers for poster. Papers were categorized into various disciplines, such as Nutrition and Feed Technology; Genetics and Reproduction; Physiology, Animal Welfare and Health Management; Product Technology and Food Safety; Waste and Environmental issues; Forage Agrostology; as well as Agribusiness, Marketing, Extension and Community Development. The scientific committee has initially received a total of 1,028 abstracts from 42 countries. After reviews have been made, 60 of them were rejected and 74 were cancelled by the authors. The reviewers consist of 4 international and 71 internal reviewers from 6 universities and 1 research institute in Indonesia. In the interest of time limitation for proceedings publication, we apologize for not including 140 submitted abstracts in the proceedings since they were not being followed up with full manuscripts until the extended due date we offered.

The scientific committee would like to thank all the reviewers and appreciate their effort to make significant contribution in reviewing the full manuscripts. Similarly, we would also like to thank supporting staffs at the secretariat office of the Faculty of Animal Science, Universitas Gadjah Mada as well as of the Indonesian Center for Animal Research and Development who have helped in the preparation of the proceedings. Finally, we would like to thank all the authors for their valuable contribution to the congress and make it useful for our societies.

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	I 673 ID	Characteristics and Composition of Cheese Manufactured from Goat Milk Containing Probiotic <i>Lactobacillus casei</i> and <i>Bifidobacteria sp</i> During Storage <i>Juni Sumarmono, Triana Yuniastuti, Triana Setyawardani, Singgih Sugeng Santoso, and Yusuf Subagyo</i>	1263
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	I 988 ID	Antimicrobial Activity of Indigenous Probiotic <i>L. plantarum</i> Tw 14 from Goat Milk as Natural Preservative Candidate <i>Triana Setyawardani, Kusuma Widayaka dan Triana Yuni Astuti</i>	1273
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I 551 ID		Firmness and Microstructure Properties of Chicken Meatball Fortified with Eggshell Calcium Powder <i>Edi Suryanto, Setiyono, Rusman and Agus Hadi Prayitno</i>	1280

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K 582 HI	The Effect of Planting Space and Harvesting Period on Dry Matter Production of Edamame Soybean Straw in Samigaluh, Kulonprogo, Yogyakarta <i>Nafiatul Umami, Cuk Tri Noviandi, Bambang Wahyudi and Susanna Atri</i>	1361



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	B 412 DZ	Effects of Marl and Kaolin on Growth Performances, Digestive Efficiency and Wet Droppings of Broiler Chickens <i>D. Ouachem, A. Meredef, A. Kalli, N. Kaboul, A. Mehdaoui, and Z. Ahmed Gaid</i>	1958

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	B 720 TH	Growth Performance, Carcass Percentage and Cost of Thai Native Chicken (Pradu-Hangdam and Chee) Raised by Broiler Diet and Layer Diet <i>N. Suayroop, B. Laopaiboon, W. Boonkum and M. Duangjinda</i>	1971
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	B 788 TW	Effects of Dietary Supplementation of Sorghum Distillery Residue and Its Solid Fermented Product on Growth Performance and Immune Response in Broilers <i>P. H. Lin , Y. T. Chen, F. C. Tsai, S. M. Lee, and I. H. Chen</i>	1987
	B 853 NG	Growth Performance and Organoleptic Properties of Broilers Fed Rumen Filtrate Fermented Shea Nut (<i>Vitellaria paradoxa</i>) Meal <i>D. N. Tsado and J. Akinwolere</i>	1991
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	B 872 KR	Effects of Gromax® Supplementation on Growth Performance, Carcass Traits, Blood Profiles and Secretion of IGF-1 in Broiler Chickens <i>J. S. Hong, G. I. Lee, J. M. Kim, H. S. Choi and Y. Y. Kim</i>	1999



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B 1021 KR	Effect of Dietary Lutein Supplementation on Lutein Concentration in Egg Yolk and Egg Quality <i>S. H. Jang, S. Aditya, J. H. Min, W. S. Siauw, S. H. Byun, M. Ahammed and S. J. Ohh</i>	2016
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Effects of Vitamin E and Zinc Fortification in Diets on Laying Hens Performances

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ABSTRACT

High environment temperature and relative humidity such as in Indonesia can cause heat stress and lead to decrease in egg production of laying hen. Hopefully, enrichment of antioxidants in the diet can reduce the negative effect of heat stress. The objective of this study was to evaluate the effects of vitamin E and zinc fortification as antioxidants in commercial diets on the performances of ISA-Brown laying hens. This study used 160 laying hens aged 20 weeks of old and they were fed treatment diets during 5 weeks. A completely randomized design (CRD) with 4 treatments, 4 replications, and 10 birds of each replication, was used in this experiment. The birds were fed either control diet (T0) or control diet fortified with vitamin E 200 ppm (T1), Zn 200 ppm (T2), or combination of vitamin E 200 ppm and Zn 200 ppm (T3). The data were analysed using analyses of variance (ANOVA), and significant differences were further analysed using Duncan's multiple range test. The parameters observed were feed consumption, hen day egg and mass production, egg weight, and feed conversion ratio. The results showed that fortification of combination of vitamin E 200 ppm and Zn 200 ppm (T3) significantly ($P < 0.05$) decreased feed consumption of laying hens. Fortification of vitamin E 200 ppm (T1) or of vitamin E 200 ppm and Zn 200 ppm (T3) highly significantly ($P < 0.01$) increased egg production and decreased feed conversion ratio. The layer hens reared in high environment temperature ($> 28^\circ\text{C}$) such as in Indonesia need more vitamin E to optimize the egg production. The treatments did not influence the egg weight. The conclusion of this study is that fortification of combination of vitamin E 200 ppm and zinc 200 ppm in the commercial diet yielded the best performances of the laying hens.

Keywords: Laying hen, Performance, Vitamin E, Zinc

INTRODUCTION

High environment temperature such as in Indonesia (23.9 to 35°C) can cause heat stress to laying hen and it leads to decrease layer production, including feed consumption, egg production, body weight gain as well as feed efficiency, and increase mortality rate. The comfortable temperature for rearing the laying hen is 19°C to 22°C (Charles, 2002). There were some methods to reduce the negative effect of heat stress, such as micronutrients like vitamin E and Zn mineral supplementation in the diet.

Vitamin E is a main antioxidant component in biological system and has an important role in metabolism regulator, protect cell structure, maintain the biological membrane stability and as important part of the oxidation-reduction reaction in the cell (Akil et al. 2009). Vitamin E is needed by poultry including laying hen, because the hen can not synthesize this vitamin. The requirement of vitamin E increased during the heat stress condition. Zinc is an important component of antioxidant biological system, as immune modulator and as cofactor of some enzymes (Powell, 2000). Sahin et al. (2006) reported that supplementation of combination of vitamin E and Zn had a synergism effect as antioxidant, hence it was effective to reduce free radical formation and cellular damage.

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The objective of this study was to evaluate the effects of vitamin E and Zn fortification as antioxidants in commercial diets on the performances of *ISA-Brown* laying hens reared in opened house system.

MATERIALS AND METHODS

One hundred and sixty of *ISA-Brown* laying hen of 20 weeks of old with the average body weight of 1.44 ± 0.07 kg were allocated into 4 treatment diets, 4 replications and 10 birds of each in a Completely Randomized Design. The treatment diets were T0= control diet (without fortification of vit E, neither Zn), T1=control diet fortified with vitamin E 200 ppm, T2= control diet fortified with Zn 200 ppm, T3 = control diet fortified with combination of vitamin E 200 ppm and Zn 200 ppm. The control diet used was laying hen commercial diet produced by one of feed mill in Indonesia that contained 17.18% crude protein, 3671 kcal GE/kg, 24.1% Ca, 0.86 % total Phosphorus, 285.5 ppm vitamin E and 63.66 ppm Zn. Vitamin source used to fortify the diet was Vitamin E 50 (contained vitamin E 50%) and the mineral used was Zn optimin 15 (contained Zn 15%) produced by PT. Trouw Nutrition Indonesia.

Parameters observed were feed consumption (g/hen/d), hen day egg production (%), egg mass production (g/hen/6 weeks), egg weight (g/egg), and feed conversion to egg mass. Data were analysed using ANOVA, and the significant differences were further analysed using Duncan's multiple range test (Mattijk and Sumertajaya, 2000).

RESULTS AND DISCUSSION

The performances of *ISA-Brown* laying hen during 6 weeks of this study (20 to 25 weeks) are presented in Table1.

Table1. Performances of *ISA-Brown* laying hen (20 to 25 weeks) fed fortified diets with vitamin E or Zn or combination of vitamin E and Zn

Parameters	Treatment diets			
	T0	T1	T2	T3
Feed consumption (g /hen/6 weeks)	$3648.38 \pm 39.72^b*$	3666.28 ± 48.49^{ab}	3622.08 ± 23.66^b	3730.13 ± 53.87^a
Feed consumption (g/hen/d)	86.87 ± 0.95^b	87.29 ± 1.15^{ab}	86.24 ± 0.56^b	88.81 ± 1.28^a
Hen day production(%)	37.74 ± 3.73^B	52.80 ± 3.65^A	47.38 ± 5.46^{AB}	57.80 ± 9.39^A
Egg mass production (g/hen/6 weeks)	774.98 ± 90.46^B	1088.07 ± 78.70^A	975.53 ± 112.92^{AB}	1170.53 ± 199.75^A
Egg weight (g/egg)	48.82 ± 1.01	49.06 ± 0.18	49.04 ± 1.37	48.17 ± 0.62
Feed conversion ratio	4.76 ± 0.62^B	3.38 ± 0.22^A	3.75 ± 0.42^{AB}	3.26 ± 0.55^A

T0= control diet (without fortification of vit E, neither Zn), T1=control diet fortified with vitamin E 200 ppm, T2= control diet fortified with Zn 200 ppm, T3 = control diet fortified with combination of vitamin E 200 ppm and Zn 200 ppm: * Data with different superscripts in the same row are significantly different ($P<.05$) for lowercase and highly significantly different($P<.01$) for uppercase

Fortification of vitamin E 200 ppm (T1) or of combination of vitamin E 200 ppm and Zn 200 ppm (T3) highly significantly ($P<0.01$) increased hen day production 39.9% and 53.15 %, respectively, compared to the control (T0), and increased egg mass production 40.4% (T1) and 51% (T3). The T1 and T3 treatments increased feed efficiency ($P<.05$) about 28.99% and 31.5%, respectively, compared to the control (T0). The T3 treatment increased ($P<0.05$) feed consumption. The treatment diets did not affect the egg weight. The fortification of Zn 200

ppm (T2) did not affect the performances of the hens, although this treatment tended to increase the performances in terms of hen day and egg mass production as well as feed conversion ratio compared to the control diet (T0). Fortification of combination of vitamin E 200 ppm and Zn 200 ppm yielded the best performances of the hen. These results indicated that the hens were exposed to heat stress as indicated by feed consumption reduction, and hence reduced the egg production and feed efficiency. The environment temperature in this study were 26°C (morning), 30°C (day) and 29°C (afternoon). These temperatures were higher than the comfortable temperature to raise the hens, i.e. 22°C to 27°C (Leeson and Summers, 2001). Putpongsiriporn et al. (2001) and Lin et al. (2006) reported that feed consumption, egg production, egg weight were reduced due to heat stress. Heat stress reduced feed consumption, because corticosteron in hypothalamus that regulates feed consumption and sated feeling was increased (Quinteiro-Filho et al. 2010).

There was a synergy effect between vitamin E and Zn to eliminate free radical formation and cellular damage due to the heat stress, hence increased the egg production. Sahin et al. (2006) reported that interaction mechanism between Zn and vitamin E occurred in the membrane level, Zn function is to repair the membrane integrity and the function of vitamin E is to maintain the membrane structure and protect it from peroxidation stress. Hence Zn and vitamin E maintain cell membrane in synergism (Lonnerdal, 1988). The layers hens reared in high environment temperature (>28°C) such as in Indonesia need more vitamin E to optimize the egg production. Yardibi and Turkay (2008) reported that vitamin E increased egg production through preventing liver damage from lipids peroxidation that is very important to synthesize yolk protein.

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