



SCIENTIFIC PROGRAM

XIVth EUROPEAN POULTRY CONFERENCE 2014, STAVANGER, NORWAY

TUESDAY, JUNE 24th

Hall/Time	LINDESNES A + C			
9:00 - 9:30	Opening session			
9:30 - 10:30	Plenary session 1: The future of poultry production – Chair: <i>Zehava Uni (Israel)</i> <i>Mette Vaarst</i> - Sustainable development perspectives of poultry production availability <i>Shlomo Yahav</i> - Challenges in poultry production during the 21 st century			
10:30 - 10:45	Short coffee break			
10:45-11:45	Plenary session 1: The future of poultry production – Chair: <i>Zehava Uni (Israel)</i> <i>Johanna Fink-Gremmels</i> - Food safety and food security <i>Osler Desouzart</i> - Future trends in feed ingredients			
11:45-12:00	Plenary discussion			
12:00-13:00	Lunch (Forum plaza/vestibule)			
Hall/Time	LINDESNES A: Macro Minerals PS1 Chair: Rosalina Angel (USA)	LINDESNES B: Meat Quality PS2 Chair: Achille Franchini (Italy)	RUNDE: Reproduction PS3 Chair: Barbara Tzschentke (Germany)	GRIP: Poultry and Environment PS4 Chair: Michael Grashorn (Germany)
PARALLEL SESSIONS 13:00-14:00	<p><i>O Olukosi</i>: Phytase enhancing nutrient utilisation and dietary ions content</p> <p><i>D Wu</i>: Phytase or phytase plus multi-glycanase on broiler performance</p> <p><i>MR Bedford</i>: Limits to reduced Ca and P with use of phytase at normal or high levels</p> <p><i>L Star</i>: Retainable phosphorus requirement in layers</p> <p><i>MMH Mushtaq</i>: Interrelationship of dietary cation and anion with performance of broilers</p>	<p>Lecture (30 min): <i>Mario Estevez</i> on oxidative damage to poultry and poultry meat</p> <p><i>S Chamorro</i>: Grape extract antioxidants and meat lipid oxidation</p> <p><i>D Smith</i>: Duck breast meat quality as affected by strain, sex and marination</p> <p><i>D Powell</i>: Nutritional restriction and satellite cell proliferation and adipocyte formation</p>	<p><i>R Van Emous</i>: Rearing protein levels and broiler breeder comp. and laying perf.</p> <p><i>E Blesbois</i>: Germ plasm cryobanking in France and advances in reprod. phenotype</p> <p><i>A Nangsuay</i>: Eggshell temperature and embryonic development and residual yolk</p> <p><i>TM Nguyen</i>: AMP-kinase modulators and spermatozoa viability and acrosome reaction</p> <p><i>S Davies</i>: Canthaxanthin supplementation and duck breeder performance</p>	<p><i>W Aengwanich</i>: Reduction of pollution in Thai poultry production clusters</p> <p><i>R Vakili</i>: Investigation of broiler farm's size and its relation to performance</p> <p><i>L Wang</i>: Bio-security in poultry production clusters in South-East Asia</p> <p><i>S le Bouquin</i>: Air quality in hatcheries</p> <p><i>M Afolayan</i>: Temperature and humidity in broiler production</p>
14:00-14:30	Coffee break and viewing posters/visiting stands			

TUESDAY, JUNE 24th –continued...

Hall/Time	LINDESNES A: Embryo Nutrition PS5 Chair: Mike Bedford (UK)	LINDESNES B: Egg Quality PS6 Chair: Ian Dunn (UK)	RUNDE: Red Mite and Poultry Health PS7 Chair: Magne K. Hansen (Norway)	GRIP: Broiler Welfare PS8 Chair: Andrew Janczak (Norway)
14:30-15:00	Lecture: Zehava Uni on the nutritional limits and requirements of the breeder progeny	Lecture: Max Hincke on egg antimicrobial protection in domestic birds	Lecture: Olivier Sparagano on impact and management of red mite	Lecture: Lotta Berg on welfare aspects of stunning methods
15:00-16:00	<p><i>R Yair</i>: Mineral and vitamin supplementation in ovo and leg bone properties</p> <p><i>E Willems</i>: Long-term effects of albumen removal in laying hens</p> <p><i>S Bogatyrev</i>: In ovo overnutrition induces central nervous malprogramming</p> <p><i>S Cheled-Shoval</i>: Administration of bitter tastants to broilers in ovo</p>	<p><i>Y Nys</i>: Structure-functions of egg defensins</p> <p><i>N Whenham</i>: The expansion and characterisation of the ovodefensin family</p> <p><i>C Alamprese</i>: NIR spectroscopy to study egg albumen gelling properties</p> <p><i>J Gautron</i>: Ovalbumin-related protein x exhibits antimicrobial activities</p> <p><i>SS Cengiz</i>: Effect of Juniper oil on performance, quality and oxidative stability of quail eggs</p>	<p><i>MF Mul</i>: Treatment efficacy against red mite is affected by flock age and housing system</p> <p><i>L Roy</i>: Tape traps and red mite surveillance in cage and free-range farms</p> <p><i>L Roy</i>: Spatial distribution and population growth in red mite in new layer cage system</p> <p><i>K Bartley</i>: Red mite detoxifying enzymes: glutathione S transferase</p> <p><i>Ø Øines</i>: Investigations of the poultry red mite from layer farms in Norway</p>	<p><i>W Muir</i>: Early incubation conditions and bone development in broiler chickens</p> <p><i>J Van Harn</i>: Wet litter and broiler foot pad dermatitis, welfare and performance</p> <p><i>E Rauch</i>: Animal welfare labels in Germany and consequence for broiler welfare</p> <p><i>KE Kittelsen</i>: Mortality during broiler transport in Norway</p> <p><i>EO Oviedo-Rondon</i>: Effects of genetics and incubation temperature on footpad dermatitis</p>
16:00-16:30	Coffee break and viewing posters/visiting stands			
Hall/Time	LINDESNES A: Digestion and Physiology PS9 Chair: Bernard Carré (France)	LINDESNES B: Physiology PS10 Chair: H. V. Brand (The Netherlands)	RUNDE: Selection and Genetic Diversity PS11 Chair: M. Tixier-Boichard (France)	Grip: Layer Production System PS12 Chair: Ragnar Tauson (Sweden)
16:30-18:00	<p><i>E Baéza</i>: Energy source and performance plus meat quality in gen. lean and fat broilers</p> <p><i>M Jégou</i>: Can plasma metabolites predict fat deposition in peripheral tissues?</p> <p><i>SY Liu</i>: Digestive dynamics of starch and protein in sorghum-based diets</p> <p><i>M Jansen</i>: Interaction between bile and lecithin during first stage of lipid digestion</p> <p><i>S Lee</i>: Maize grit starch digestion in broilers</p> <p><i>L Maertens</i>: Efficiency of slow- and fast-growing broilers fed same feed quantity</p>	<p>Lecture (30 min): Ton G. G. Groothuis on hormones and maternal effects</p> <p><i>A Brionne</i>: Gene expression profiling reveals proteins involved in eggshell mineralization</p> <p><i>CM Maatjens</i>: Temperature and CO2 during hatching phase and embryo physiology</p> <p><i>Y Wang</i>: Hypothalamic AMPKα1 and neuropeptides and neonatal performance</p> <p><i>S Druyan</i>: O2 concentration during embryo development and post-hatch growth</p> <p><i>S Metayer</i>: Ontogenesis and pattern of expression of GLUT in chicken muscles</p>	<p>Lecture (30 min): Steffen Weigend on genetic diversity and phylogenetic relationships in chickens</p> <p><i>M Mariadassou</i>: Genetic diversity of wild and domestic Gallus</p> <p><i>CM Lyimo</i>: Genetic variation in chicken populations in Europe, Asia and Africa</p> <p><i>T Szwaczkowski</i>: Genetic linkage map of chromosome 1 in duck</p> <p><i>H Chapuis</i>: Local and small poultry population sustainable management</p> <p><i>W Icken</i>: Genetic potential of Lohmann Sel.</p>	<p><i>J Svobodova</i>: Microbial contamination during storage of eggs from cages and free range</p> <p><i>E Tumová</i>: Effect of housing and calcium on egg shell and tibia characteristics of layers</p> <p><i>E Beitler</i>: Longer table egg production cycles for laying hens from a practical point of view</p> <p><i>DM Ogah</i>: Effect of variation of lighting regime on performance of laying pullets in the tropics</p> <p><i>M Rossi</i>: Performance, bone strength and eggshell as affected by housing system</p> <p><i>F Kaufmann</i>: Experiences in fattening egg-type cockerels in mobile a stable system</p> <p><i>RM Radu-Rusu</i>: Alternative/organic farming and egg chemical composition</p>
18:00	End of scientific program			

SCIENTIFIC PROGRAM

XIVth EUROPEAN POULTRY CONFERENCE 2014, STAVANGER, NORWAY

WEDNESDAY, JUNE 25th

Hall/Time	LINDESNES A + C			
9:00 - 10:00	Plenary session 2: Limits to growth in broilers – Chair: <i>Markus Rodehutscord (Germany)</i> <i>Marian Dawkins</i> - Welfare and breeding in broilers <i>Bernard Carré</i> - Progress in broiler selection: benefits and limitations as assessed by the digestive function			
10:00 -10:30	coffee break			
10:30-11:30	Plenary session 2: Limits to growth in broilers – Chair: <i>Markus Rodehutscord (Germany)</i> <i>Rosalina Angel</i> - Skeletal development in fast-growing broilers <i>Massimiliano Petracci</i> - Meat quality of fast-growing broiler chickens			
11:30-12:00	Plenary discussion			
12:00-13:00	Lunch (Forum plaza/vestibule)			
Hall/Time	LINDESNES A: Fibres PS13 Chair: Jose Sorbara (Brazil)	LINDESNES B: Reproduction PS14 Chair: M. Boerjan (The Netherlands)	RUNDE: Mycotoxins and Health PS15 Chair: Franco Calini (Italy)	GRIP: Layer Welfare PS16 Chair: Randi O. Moe (Norway)
PARALLEL SESSIONS 13:00-14:00	<p><i>N Yacoubi</i>: Enzymatic degradation of wheat grain cells and digestive health of poultry</p> <p><i>N Smeets</i>: Enhancement of xylanase efficacy in presence of other NSPases and protease</p> <p><i>T Ribeiro</i>: Efficacy of exogenous enzymes in wheat diets with endogenous xylanase</p> <p><i>AM Amerah</i>: Xylanase and beta-glucanase in broilers fed corn/ddgs/soy/rapeseed diet</p> <p><i>E Delezie</i>: Blend of NSP-enzymes compared to purified xylanase on layer perf.</p>	<p>Lecture (30 min): <i>Israel Rozenboim</i> on photo-stimulation effects on reproductive activities</p> <p><i>M Faure</i>: The use of insulin sensitizer has delayed the spermatogenesis</p> <p><i>I van Roovert-Reijink</i>: Warming profile at start of incubation and hatchability and chick quality</p>	<p><i>M Hameed</i>: Effects of ochratoxin A on antioxidant potential/oxidative stress in broiler</p> <p><i>B Novak</i>: In vitro sensitivity of chicken and porcine blood cells to deoxynivalenol</p> <p><i>G Antonissen</i>: Intestinal transport of nutrients and exposure to Fusarium mycotoxins</p> <p><i>S Schaumberger</i>: Deoxynivalenol, feed additive and growth and health of broilers</p> <p><i>B Grenier</i>: Current knowledge on the Fusarium mycotoxins - gut epithelium</p>	<p>Lecture (30 min): <i>Arnold Elson</i> on poultry welfare in different production systems</p> <p><i>A Stratmann</i>: Bone strength selection affects keel bone fractures and egg parameters</p> <p><i>SG Gebhardt-Henrich</i>: Correlation between keel bone deformities and bone parameters</p> <p><i>I Kempen</i>: Prevalence of keel bone injuries in young laying hens housed in aviaries</p>
14:00-14:30	Coffee break and viewing posters/visiting stands			

WEDNESDAY, JUNE 25th –continued...

Hall/Time	LINDESNES A: Ingredients & Energy PS17 Chair: Walle Löwgren (Norway)	LINDESNES B: Egg Quality PS18 Chair: Yves Nys (France)	RUNDE: Poultry Health PS19 Chair: Magne Kaldhusdal (Norway)	GRIP: Broiler Production Systems PS20 Chair: René Kwakkel (The Netherlands)
14:30 -16:00	<p>Lecture (30 min): <i>Mingan Choct</i> on energy systems in poultry</p> <p><i>DI Batonon</i>: Utilization of millet, sorghum and cottonseed meal in broiler feeding</p> <p><i>M Singh</i>: Energy density and electrolyte balance in diets of free range broilers</p> <p><i>S Steinfeldt</i>: Contribution of feeds from range in organic broiler production</p> <p><i>I Whiting</i>: Feeding quality of wheat DDGS for laying hens</p>	<p>Lecture (30 min): <i>Joel Gautron</i> on eggshell formation</p> <p><i>Z Duan</i>: Eggshell color is independent of eggshell structure attributes in brown eggs</p> <p><i>J Roberts</i>: Egg shell colour in free range laying hens</p> <p><i>I Kempen</i>: Extending the production cycle of white and brown hens in furnished cages</p> <p><i>M Kosmidou</i>: Egg quality of free-range hens on pasture enriched with aromatic plants</p> <p><i>E Szentirmai</i>: Starting body fat content and changes in body fat content and egg comp.</p>	<p><i>SM Sadeq</i>: Effect of acylated starch on broiler performance and gut health</p> <p><i>H Kettunen</i>: Resin-based product and performance of broilers during necrotic ent.</p> <p><i>V Tsiouris</i>: High stocking density and pathogenesis of necrotic enteritis in broilers</p> <p><i>S Gomis</i>: Virulence and ability of IBD virus crossing the maternal antibody barrier</p> <p><i>V Valastro</i>: Update of infectious bronchitis virus strains in Europe between 2011- 2013</p> <p><i>K-P Behr</i>: Avian Influenza in North-West Germany: industrial monitoring concepts</p> <p><i>R Parvin</i>: Low pathogenic AI H9N2 as donor for highly pathogenic AI in South Asia</p>	<p><i>I Vermeij</i>: Interactive design of more sustainable broiler production systems</p> <p><i>H Ellen</i>: Comparison of broiler production systems in The Netherlands</p> <p><i>K De Baere</i>: Effect of litter before or during heating on floor temp. in broiler house</p> <p><i>K De Baere</i>: Ambient temperature and mortality in light and heavy chicks</p> <p><i>M Bourin</i>: Systems for intermediate “certified” meat-type chicken: behaviour and quality</p> <p><i>W Molee</i>: Free-range system and performance of "Korat Meat Chickens"</p> <p><i>S Honarbakhsh</i>: Effect of environment and management on residual intake in broiler breeder</p> <p><i>P Jackman</i>: Wireless technologies to improve quality in poultry production</p>
16:00-16:30	Coffee break and viewing posters/visiting stands			
Hall/Time	LINDESNES A: Protein-rich Ingredients PS21 Chair: S. Steinfeldt (Denmark)	LINDESNES B: Antibiotic resistance PS22 Chair: To be announced	RUNDE: Functional Genetics PS23 Chair: Steffen Weigend (Germany)	GRIP: Education PS24 Chair: Maureen Bain (UK)
16:30-17:30	<p><i>D Mikulski</i>: Nutritive value of B. napus canola and canola-type B. juncea mustard</p> <p><i>M Kölln</i>: Substituting soybean meal by a special soybean product or rapeseed meal</p> <p><i>S Kaczmarek</i>: Raffinose can affect lupine metabolisable energy for broiler chickens</p> <p><i>R Uusitalo</i>: Digestibility of soybean meal as a key criteria in sustainable soy processing</p> <p><i>H Sabboh-Jourdan</i>: Protein digestion along the intestine of broilers on protein sources</p>	<p>Lecture (15-20 min): <i>Dik Mevius</i> on the use of antibiotics in poultry and effect on human health</p> <p>Lecture (15-20 min): <i>Johanna Fink-Gremmels</i> on the use of antibiotics in poultry and effect on human health</p> <p>Round table discussion</p>	<p><i>M Friedman-Einat</i>: Leptin evolution in Aves</p> <p><i>Y Wang</i>: Transcriptional regulation of chicken perilipin 1 gene</p> <p><i>M Shahjahan</i>: Study of histone deacetylase-2 gene for skeletal muscle development</p> <p><i>IC Dunn</i>: Expression of the cholecystokinin A receptor and growth rate in poultry</p> <p><i>O Distl</i>: Genes involved in bone remodeling and immune response in two layer lines</p>	<p>Lecture (30 min): <i>Eva Sossidou</i> on the role of WPSA in education</p> <p><i>X Malher</i>: Bridging the gap between vet. student interest and demand in industry</p> <p><i>F Karadas</i>: Development of poultry scholarships for students in Turkey</p> <p><i>T Szwaczkowski</i>: Poultry education in Poland</p>
17:30	End of scientific program			

SCIENTIFIC PROGRAM

XIVth EUROPEAN POULTRY CONFERENCE 2014, STAVANGER, NORWAY

THURSDAY, JUNE 26th

Hall/Time	LINDESNES A + C			
9:00 - 10:00	Plenary session 3: Trends in egg production – Chair: <i>Mingan Choct (Australia)</i> <i>William Muir</i> – New selection methods for layer performance and potential impacts on behavior and management <i>Maureen Bain</i> - A new challenge: sustaining egg quality in longer production cycles			
10:00 -10:30	coffee break			
10:30-11:30	Plenary session 3: Trends in egg production – Chair: <i>Mingan Choct (Australia)</i> <i>Andrew Janczak</i> - Rearing effects on laying hen productivity and welfare <i>Filip Van Immerseel</i> - A scientific opinion on a 'zero Salmonella' approach for eggs and egg products			
11:30-12:00	Plenary discussion			
12:00-13:00	Lunch (Forum plaza/vestibule)			
Hall/Time	LINDESNES A: Amino Acids PS25 Chair: Ravi Ravindran (N. Zealand)	LINDESNES B: Microbial product Safety PS26 Chair: Filip Van Immerseel (Belgium)	RUNDE: Meat Quality PS27 Chair: Michel Duclos (France)	GRIP: Structure and Economics of Poultry PS28 Chair: Roel Mulder (The Netherlands)
PARALLEL SESSIONS 13:00-14:00	<i>W Dozier</i> : Amino acid supplementation and reduced crude protein for broilers <i>M Van Krimpen</i> : Requirements for faecal and ileal digestible amino acids in layers <i>JIM Fernandes</i> : Effect of amino acids on mucosal regeneration after disease challenge <i>DO Akinde</i> : Glycine and glycine+serine requirements of layers <i>A Helmbrecht</i> : Effect of tryptophane/lysine level on laying performance and stress	<i>SJ Sander</i> : Feed structure and incidence of Campylobacter in the ceca of broilers <i>M Sandberg</i> : The Danish action plan against campylobacter in broilers 2013-2016 <i>E Schonewille</i> : Campylobacter in closed poultry integrations <i>K De Reu</i> : Characterization of S. Enteritidis on persistently contaminated layer farms <i>W De Cort</i> : Protection of hatched broilers against salmonella by colonization-inhibition	Lecture (30 min): <i>Cecile Berri</i> on glycogen metabolism and meat quality <i>K Watson</i> : Genetic basis of Pectoralis major myopathies in modern broiler chicken lines <i>K Meloche</i> : Myopathies of the Pectoralis major and genetic strain, sex and AA density <i>S Mudalal</i> : Changes in protein fractions of chicken breast meat affected by white striping	Lecture (30 min): <i>Peter van Horne</i> on the competitiveness of the EU egg and poultry meat sector <i>P Magdelaine</i> : Comparison of structure and organization of meat sectors in Europe <i>P Thobe</i> : Economic efficiency of small group housing and aviaries for layers in Germany <i>I Vermeij</i> : Broiler production systems in the Netherlands; an economic comparison
14:00-14:30	Coffee break and viewing posters/visiting stands			

THURSDAY, JUNE 26th –continued...

Hall/Time	LINDESNES A: Diet Structure PS29 Chair: Lotta Waldenstedt	LINDESNES B: Genetic Selection PS30 Chair: Bill Muir (USA)	RUNDE: Poultry Health PS31 Chair: Bruce David (Norway)	GRIP: Turkey PS32 Chair: Harald Hetland (Norway)
14:30 -16:00	<p>Lecture (30 min): Reza Abdollahi on the perfect pellet for poultry</p> <p><i>V Ravindran:</i> Pre-pelleting inclusion of whole corn and broiler performance</p> <p><i>NK Sharma:</i> Whole wheat/cracked corn and performance and carcass yield of broilers</p> <p><i>AA El-Wahab:</i> Feed technology and performance and foot pad health in broilers</p> <p><i>S Kaczmarek:</i> Full-fat rapeseed particle size distribution and pelleted diets</p> <p><i>SN Qaisrani:</i> Diet structure, butyric acid and fermentable energy supplementation</p>	<p>Lecture (30 min): Malena Erbe on genomic prediction in layers</p> <p><i>M Swalander:</i> Selection for robustness and gut health in turkeys</p> <p><i>R Yair:</i> Early bone development in contemporary and 1980's broiler lines</p> <p><i>J Recoquillay:</i> Genetic parameters and QTL detection of behavior and productive traits</p> <p><i>S Mignon-Grasteau:</i> Heritability of body surface temperature in laying hens</p> <p><i>R Preisinger:</i> Breeding dual-purpose chicken as opposed to specialised hybrids</p>	<p><i>A Koppenol:</i> Epigenetic effects of omega-3 FA on immune response of broiler offspring</p> <p><i>R Noiva:</i> Manipulations in humidity and ventilation and embryonic development</p> <p><i>P de Gouw:</i> Env. conditions in commercial hatcheries and broiler chicken health</p> <p><i>C van der Pol:</i> Light schedule during brooding and leg bone and growth of broilers</p> <p><i>AJ Sabir:</i> Pathology of layers affected with fatty liver hemorrhagic syndrome</p> <p><i>A Höhne:</i> Ghrelin secretion in adult laying hens in two housing systems</p> <p><i>HM Hafez:</i> European perspectives on the control and Eradication of poultry diseases</p>	<p>Lecture (30 min): Hafez Mohamed Hafez on health challenges in turkeys</p> <p><i>D Chodová:</i> The effect of strain, sex and age on pH and colour of turkey meat</p> <p><i>A Watteyn:</i> Single bolus administration of gamithromycin against <i>O. rhinotracheale</i></p> <p><i>R Aschenbroich:</i> Reduced use of antibiotics and better results with secondary plant compounds</p> <p><i>J Berk:</i> Environmental enrichment and injurious pecking in non-debeaked birds</p> <p><i>RM Hulet:</i> Management factors influencing incidence of pendulous crops in turkeys</p>
16:00-16:15	Coffee break			
Hall/Time	LINDESNES A: Additives PS33 Chair: Pierre-A. Geraert (France)	LINDESNES B: Egg Quality PS34 Chair: Max Hincke (Canada)	RUNDE: Product safety PS35 Chair: Hafez M. Hafez (Germany)	GRIP: Layer Welfare PS36 Chair: Arnold Elson (UK)
16:15-17:15	<p><i>D Scholey:</i> Dose response to betaine dietary inclusion in broilers up to 40 day of age.</p> <p><i>P Konieczka:</i> Dietary fat source and vitamin E and chicken immune system</p> <p><i>M Kikusato:</i> Oleuropein and heat stress-induced overproduction of ROS in muscle</p> <p><i>C Lückstadt:</i> Effect of sodium diformate on broiler performance and nutrient utilization</p>	<p><i>C Hamelin:</i> Egg yolk color preferences in Romania and perception of egg quality</p> <p><i>Y Ruangpanit:</i> Krill meal enhanced yolk color, vitamin A and omega 3 of eggs</p> <p><i>SK Mishra:</i> TMA-induced fishy flavour as major reason for off-flavours in duck eggs</p> <p><i>SN Mousavi:</i> Egg quality as affected by feed form and feed particle size</p>	<p>Lecture (30 min): Antonia Ricci on EFSA opinion on poultry meat inspection</p> <p><i>M Singh:</i> Salmonella and campylobacter challenges in poultry processing plants</p> <p><i>S Khokhar:</i> Bird flu outbreak and its implication on supply chain in China</p> <p><i>A Huneau-Salaün:</i> Dust in duck hatcheries and workers respiratory health</p>	<p><i>H Louton:</i> Comparative behavior of dust bathing and sham dust bathing in layers</p> <p><i>I Tiemann:</i> Chicken idol - which breed wins the dual purpose challenge?</p> <p><i>IC de Jong:</i> Overview of studies to monitor effect of non-beak trimming in Netherland</p> <p><i>P Patterson:</i> Dietary behavior supplements for raising non-beak trimmed pullets</p>
17:15-17:30	Closing ceremony			

