

# Cirriculum Vitae

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## Education

Doctor of Philosophy, University of Missouri, Colombia, Missouri, USA. (1971)

Dutch Fellowship for doctoral studies in animal physiology at the Agricultural University of Wageningen, Holland. (1966)

Studies in physiology at the University of Bonn, Germany. (1965)

Studies in statistical design for doctoral students at the Norwegian Agricultural University, Aas, Norway. (1965)

Master of Science at the Norwegian Agricultural University of Norway, Aas, Norway (1964)

## Dissertations

Doctor of Philosophy: Evaluation of energy sources in protein synthesis, University of Missouri, Colombia, Missouri, 141 pp. (1971)

Master of Science: K-vitaminet I fjørkve foringa og behovet for tilskudd av K-vitamin til slaktekyllinger. Norwegian Agricultural University, Aas, Norway, 60 pp (1965)

## Qualified for

1981: Full professorship in Animal Nutrition at the Norwegian Agricultural University.

1980: Professorship II in Food Technology at the Norwegian Agricultural University.

1978: Førsteamanuensis at the Norwegian Agricultural University.

## Employment history

1995: Head of the development of the product "Libido", a Norwegian produced aphrodisiac, approved and introduced in 37 countries.

1980 – 1995: Senior Research Scientist at the Norwegian Food Research Institute, Aas, Norway.

Project manager in the following projects: Effect of heat treatment on protein quality in foods, egg quality evaluation, toxically aspects of food processing. In addition advising graduate students and teaching responsibility.

(1983 – 1985) Visiting Professorship at the Department of Nutrition, University of California, Berkeley, California, USA.

1976 – present: Serving as censor in environmental toxicology at the University of Trondheim, Norway.

1976 – 1980: Research Scientist. Fellowship from Norwegian Agricultural Research Foundation.

1971 – 1976: Senior Researcher at the Department of Poultry and Fur Animal Science, Norwegian Agricultural University. Project manager on the following projects: Environmental studies in poultry, effect on production, behaviour and physiological criteria. Further, project on toxicology of mercury, cadmium and lead, and identification in different tissues. Vitamin E absorption studies and the action of vitamin K in axidative phosphorylation. Teaching responsibility at graduate level.

1966 – 1971: Research assistant. Department of Animal Husbandry, University of Missouri, Colombia, Missouri, USA.

1965 – 1966: Research Fellow at the Agricultural University of Bonn, Germany.

1964 – 1965: Research Assisitant Department of Poultry and Fur Animals, the Agricultural University of Norway, Aas. Projects: Evaluation of protein rich feed for laying hens, and requirement for Vitamin E and K in diet for slaughter chicken.

1963: Farm work in Israel.

#### Publications:

Eskeland B, Thom E & Svendsen KOB. (1996): Sexual arousal in Men; Effect of Oral Ingestion of Product Derived from fertilized Eggs. The Journal of International Medical Research (in press).

Eskeland B. (1995): Selenium content of some foods as effected by heat treatment and storage. Journal of Food Science (in press).

Eskeland B. (1995): Bioavailibility of heme and non-heme iron; Effect of thermal processing. Journal of Food Science (in press).

Eskeland B. (1995) Nutritional evaluation of protein quality and some vitamins during fermentation of slaughter offals with special emphasis on amino acid digestability. Journal of Agricultural Science (in press)

Løvik A, Jackson MB & Eskeland B. (1992): Mat på sykehus Energigivende næringsstoffer I normalkost ved Rikshospitalet. Næringsforskning.

Eskeland B. (1998): Mineraler. Forekomst og tap under ulike matvarefremstillingsprosesser. InforMAT nr. 3, 9 – 101.

Brenne R. & Eskeland B. (1998) Kjølelagring av egg. InforMAT nr. 3, 114 – 117.

Eskeland B. (1987): Optimization of heat treatment in the Food Industry from a nutritional point of view. Symposium on Nutritional Impact on Food Processing. Reykjavik, Island 2 – 4 september.

Eskeland B. (1986) Foringens betydning for kvaliteten på fett hos slaktegris. NINF-informasjon, nr. 11.

Eskeland B. (1986) Forets betydning for kvaliteten hos slaktegris. NINF-informasjon, nr. 3, 182 – 188.

Eskeland B, Preston R:L & Pfande W.H (1985) Blood urea and glucose effects following jugulare or portal infusion of energy sources in lambs. Nutritional Rep. Intl., no. 30, 1241 – 1248.

Eskeland B. (1985) Bioavailability of heme and non-heme iron in meat and vegetable based diets using rats as experimental model. Nordic. Symp. On Metabolism of Trace Elements related to Human Diseases, Loen, p.6.

Eskeland B. (1985): Endring I proteinkvaliteten ved varmebehandling av næringsmidler. NINF-informasjonen, nr. 4, 218 – 221.

Eskeland B. (1985): Lagring av hermetiske matvarer, effekt på proteinkvalitet og sensoriske egenskaper. NINF-Informasjonen, nr. 6, 337 – 340.

Eskeland B. (1983): Formation of lysinoalanin during food processing. Detrimental effect on rats. Advanced in Diet and Nutrition. Proc. International Conference on Diet and Nutrition, Tel-Aviv, Israel.

Eskeland B. (1983): Lysinoalanin I matvarer. NINF- informasjonen, 3, 186 – 189.

Eskeland B. (1981): Varmebehandlingens innvirkning på proteinkvaliteten. NLVI's sluttrapport, nr. 11.

Eskeland B. (1983): Ernæringsmessig virkninger av salt status for saltdebatten. NINF-informasjonen, 3, 214 – 216.

Eskeland B. (1983): Eggkvalitet: lagring og vasking. NINF- informasjonen, 4, 280 – 285.

Granum P.E. & Eskeland B. (1981): Nutritional significance of a- amalyse inhibitors from wheat. Nutr. Rep. Int., 23, 155 – 162.

Eskeland B. & Slinde E. (1981): The use of blood to meet the iron requirement in man. *Proceedings Mineral Elements* (ISBN 951-99301-0-8), Helsinki, Finland, part 1, 187 – 193.

Eskeland B. (1981): Effect of beak trimming on physiological and behavioural response in laying hens. *Proc. 1<sup>st</sup> European Symp. On Poultry Welfare*, Køge, Denmark 9-12 June, 193 – 200.

Eskeland B. (1981): Brief methods of estimating protein quality for factory control. II Nordic Kongressen I Næringslære. Helsingfors, Finland, 16 – 18 juni.

Eskeland B., Martens M. & Russwurn H. (1979): Effect of heat treatment on protein quality and sensory changes in canned food. *Proceedings 25<sup>th</sup> European meeting of Meat research Workers*, Budapest, 593 – 596.

Eskeland B. & Nordal J. (1980) Nutritional evaluation of protein in dry sausage during the fermentation process with special emphasis on amino acid digestibility. *Journal of Food Science*, 45, 1153 – 1160.

Eskeland B. (1979): Effect of heat treatment on the relation of protein quality and sensory changes in canned food. *Vår Føda*, 31, Suppl. 3, 171.

Eskeland B. (1980): Brief method of estimating protein quality for factory control. *Næringsforskning*, 2, 65.

Eskeland B. & Rimeslåtten I.I. (1979): Studies on the absorption of labelled and dietary  $\alpha$ -tocopherol in mink as influenced by some dietary factors. *Acta Vet. Scand.* 20, 270 – 275.

Eskeland B. & Blom A.K (1979): Plasma corticosteroid levels in laying hens. Effect of two different blood sampling techniques and of rough handling of the animals. *Acta Vet. Scand.* 20, 270 – 275.

Eskeland B. (1979): Effect of heat treatment on the relation of protein quality and sensory changes in foods. *Third European Nutritional Conference*, Uppsala, 19 – 21 June.

Eskeland B., Gullvåg B.M. & Nafstad I. (1979): Quantitative studies of mercury and cadmium deposition in Japanese quail through multiple generations. *Acta Agric. Scand.* 29, 113 – 119.

Eskeland B. & Nafstad I (1978): The modifying effect of multiple generation selection and dietary cadmium on methyl mercury toxicity in Japanese quail. *Arch. Toxicol.* 40, 303 – 314.

Gullvåg B.M, Aagdal J.P. & Eskeland B. (1978): A fine structural study of liver (litoral) cells of methyl mercury fed Japanese quail (*Coturnix coturnix japonica*) *Acta Pharmacol. Et Toxicol.*, 43, 93 – 98.

Gullvåg B.M., Ophus E.M. & Eskeland B., (1975): Lead poisoning of Japanese quail. An analysis of different body tissues using atomic absorption spectrometry and transmission electron microscopy. *Acta Zool.* 56, 163 – 175.

Aagdal J.P., Gullvåg B.M. & Eskeland B. (1978): A study of the ultrastructure of liver littoral cells of methyl mercury fed Japanese quail. Report of the Agricultural University of Norway, 57, no. 26.

Eskeland B. (1978): Effect of Vitamin K in oxidative processes of chick liver. Report from the Agricultural University of Norway, 57, no. 19.

Eskeland B. & Pfander W.H. (1974): Intravenous energy infusion in lambs; Effects on nitrogen retention, plasma free amino acids and plasma urea nitrogen. British Journal of Dairy Science, 56, 1340 – 1343.

Eskeland B., Bjørnstad S. & Hvidsten H. (1977): Virkninger av dyretretthet, gruppestørrelse, innredningsform og nebbtrimming på produksjonsresultatene hos høns på bur og bing. Meldinger fra Norges Landbrukshøgskole, 56, nr. 6.

Eskeland B. (1977): Behaviour as an indicator of welfare in hens under different system of management, population density, social status and by beak trimming. Report from the Agricultural University of Norway, 56, no. 7.

Eskeland B. (1978): Physiological criteria as indicator of welfare in hens under different system of management, population density, social status and by beak trimming. Report from the Agricultural University of Norway, 56, no. 18.

Eskeland B. (1976): Methods of observation and measurement of different parameters as an assessment of bird welfare. European Fed. Of World Poultry Sci., Vol II, 988 – 1004.

Eskeland B. (1975): The legislation on prevention of cruelty to animals and administrative regulation concerning intensive animal production as well as means of supervision of the obedience to such regulations. World Poultry Science, 31, 294 – 296.

Eskeland B., Bjørnstad S. & Hvidsten H. (1973): Effect of population pressure and types of floor on laying hens performance. European Fed. Of World Poultry Science, London.

Eskeland B. (1973): Adferds og miljøstudier hos fjørfe. NJF Symposium, Uppsala, 5 – 6 oktober.

Hvidsten H. & Eskeland B. (1973): Fysiologiske metoder for å måle stress eller trivsel hos fjørfe. Nordisk Jordbruks Forsk. 55, 151 – 152.

Eskeland B. (1977): Omgivelsenes betydning for fjørfeets trivsel og produksjon. Samvirke, 18, 681 – 683.

Eskeland B. (1973): Adferds og miljøstudier hos fjørfe. Fjørfe, 89, 233 – 238.

Pfander W.H., Devier C., & Eskeland B. (1972) Effect of supplementary energy sources on ovine metabolism and fat deposition. Federation Proceedings, 19.

Eskeland B., Pfander W.H., & Preston R.I (1971) Effect of various energy sources upon N. retention in lamb. Fed. Proc. 30, 403.

Phander W.H. & Eskeland B. (1973) Xylitol and fat as energy sources for lambs. *Journal of Animal Science*, 37, 353.

Eskeland B. (1977) Omgivelsenes betydning for fjørfeets trivsel og produksjon. *Husdyrforsøksmøtet 1977*, LOT nr. 2, 301 – 307.

Eskeland B. (1975) Betydningen av dyretetthet på bur og bingje i eggproduksjonen. *Husdyrforsøksmøtet 1975*, LOT nr. 1, 105 – 110.

Eskeland B. (1972): Fysiologiske parametre på stress hos verpehøner: effekt av dyretetthet og avnebbing. *Husdyrforsøksmøtet 1972*, 277 – 280.

Hvidsten H. & Eskeland B. (1976) Utforming av fjørfeets nærmiljø på grunnlag av forsøk. *Fjørfe*, 92, 305 – 308.

Eskeland B. (1977): Adferd og miljøstudier hos fjørfe. Sluttrapport nr. 256. Norges Landbruksvitenskaplige Forskningsråd.

Eskeland B. (1970): Circular Dichroism (CD) as an aid in configuration studies. University of Missouri, Dept. of Biochemistry, report no. 12, 1970.

Eskeland B. & Hvidsten H. (1967): The effect of sex, feeding and housing on the prothrombin time and bleeding in chicks. Report from the Agricultural University of Norway, No. 6, 46.

Eskeland B. (1966): Protein og proteinformidler til fjørfe. Særtrykk nr. 48 av "Fjørfe", nr. 7 – 8, 124 – 129.

Conferences and meetings:

II Nordiska kongressen i næringslære, Helsingfors, 16 – 18 juni, 1980

International Symposium on Clinical Nutrition, London, 9 – 12 july, 1980.

Institute of Food technologies. 39<sup>th</sup> annual meeting, St. Louis, Missouri, USA, June 10 – 13, 1979.

25<sup>th</sup> European Meat research workers Conference, Budapest, Hungary, 27 – 31 August, 1979.

2<sup>nd</sup> International Symposium on Protein and Nutrition, Flevohof, Holland, May 1 – 7, 1977.

Nordisk Forskerkursus: Ernæring I levmedsmiddelforskning, Roskilde, Denmark, 1 – 12 august, 1977.

International Union of Food Science & Technology Symposium, Oslo, 23 – 27 august 1976.

Third meeting of WPSA working group no. iX and bird welfare in intensive poultry production. Edinburgh, June 18 – 20, 1976.

5<sup>th</sup> European poultry conference and exhibition, Malta, September 5 – 11, 1976.

Det 12. Biokjemiske kontaktmøte, Gausdal 15 – 18 Januar, 1976.

International animal Production Conference, Utrecht, Holland, October 12 – 15, 1974.

WPSA Working group on bird welfare, Utrecht, Holland, October 12 – 15, 1974.

4<sup>th</sup> European Poultry Conference, London, September, 1973

20<sup>th</sup> Easter School of Agricultural Science, University of Nottingham School of Agriculture, 10 – 14 April, 1973. ( Heat loss in animal and man: Assessment and control).

Husdyrforsøksmøtene I 1972, 1975 og 1977 arrangert av Rådet for husdyrforsøk, NLH.

Symposium om tungmetaller, arrangert av NAVF og NLVE, Hurdalsjøen, 14 – 16 febr. 1972

NJF Symposium om Fjäderfans Nærmiljø, Uppsala, 5 – 6 Oktober, 1972.

Landbrukshögskolans Forsöksledamöten, Malmö, Oktober, 1971.

Landbruksøkonomisk Forsøgslaboratorium Efterårsmøde, København, 27 – 29 Okober, 1971.

American Society of Animal Science. The University of California, Davis, California, August 1 – 5, 1971.

Federation of American Societies for Experimental Biology, Chicago, Illinois, USA. April 12 – 17, 1971.

Nutrition Emphasis Week, University of Missouri, American Nutrition Society, February 16 – 19, 1970.

Animal Science Research meeting, Ohio Agricultural Research Centre, Wooster, Ohio, USA. September, 1970.

Pfizer Annual Research Conference, Agricultural division, Kansas city, Mo., USA. May 23 – 25. 1969.

Agricultural Science week, University of Missouri, Colombia, Mo.,USA. February 6 – 10, 1967.