

CURRICULUM VITAE

(last updated 05/02/2020)

Josef de Villiers van Wyngaard

Pr.Sci.Nat. 400008/16

PhD (Agric): Animal Nutrition

Voermol Feeds (Pty) Ltd

Technical Manager

Cell: +27(0)82 336 0626

Josef.vanwyngaard@tongaat.com

PROFILE

A confident, enthusiastic, hardworking and self-motivated **animal nutritionist** with experience in **dairy, beef and sheep nutrition**. Able to work independently and as part of a team. Proven research skills involving reporting, presenting, project writing and management. A very positive person that is results driven and willing to tackle new challenges. Dedicated to maintaining high standards in all aspects of life, as well as showing a genuine interest in maximising profit in business enterprises.

ABILITIES/SKILLS

- Excellent communication, writing and reporting skills
- Leadership
- Problem sensitivity and attention to detail
- Feed formulation. Knowledge of local raw materials and use thereof in feed rations
- Designing, coordinating and managing research projects/activities
- Data collection, management, analysis and interpretation

PERSONAL DETAILS

- Date of Birth: 16th November 1986
- Marital Status: Married since 2010
- Children: Three
- Nationality: South African
- Residence: 3 Karidene, Steenboksingel, Woodland Hills Wildlife Estate, Bloemfontein, 9300
- Postal Address: P.O. Box 766, George, 6530, South Africa

TERTIARY EDUCATION

- BSc (Agric), Animal and Pasture Science, University of the Free State (2010)
- MSc (Agric) Animal Nutrition: *Effect of palm kernel expeller supplementation on production performance of Jersey cows grazing kikuyu/ryegrass pasture*. University of Pretoria (2013)
- PhD (Agric) Animal Nutrition: *Quantification and mitigation of enteric methane emissions from grazing Jersey cows*. University of Pretoria (2018)
- Short-term aspiration: Master in Business Administration

EDUCATION/COURSES

- Professional Hunter certificate, Sutherland Hunting Academy (2008)
- Ile de France Sheep Inspectors certificate, Ile de France Sheep Breeders' Society of South Africa (2008)
- Sheep Insemination certificate, RAMSEM Bloemfontein (2010)
- Meat Processing certificate, University of the Free State (2010)

WORKSHOPS (7)

- Pasture course hosted by Western Cape Department of Agriculture. Outeniqua Research Farm, RSA. 2012
- Livestock and Climate Change training course, *EU FP 7 Animal Change*. Experimental Farm, University of Pretoria, RSA. 21 Sept – 3 Oct 2014.
- Introduction to GenStat for Windows course hosted by M.F. Smith, Stats4Life. Elsenburg, Stellenbosch, RSA. 18 Nov 2014.
- 6th Research Skills Workshop hosted by GSSA. Royal Agricultural Showgrounds, Pietermaritzburg, RSA. 19–20 July 2015.
- Measurement of methane emissions from ruminants by the SF₆ technique. Workshop held at Ellinbank, VIC, Australia in conjunction with the Proc. 6th *Greenhouse Gas and Animal Agriculture Conference* (GGAA2016). 10–11 Feb 2016.
- Measurement of methane emissions from ruminants by respiration chambers. Workshop held at Ellinbank, VIC, Australia in conjunction with the Proc. 6th *Greenhouse Gas and Animal Agriculture Conference* (GGAA2016). 12 Feb 2016.
- Metabolic Gas Emission Measurements and GreenFeed. Workshop held at Melbourne, VIC, Australia in conjunction with the Proc. 6th *Greenhouse Gas and Animal Agriculture Conference* (GGAA2016). 13–14 Feb 2016.

WORK EXPERIENCE

- **2006–2012: Stud sheep breeder** (Randfontein)
Managing own Ile de France sheep stud, including all health, nutritional and administrative aspects
- **2011–2017: Student Researcher** (Western Cape Department of Agriculture)
Pasture-based Dairy Systems (2011 - 2017)
 - Conduct a MSc (Agric) project with the focus on by-products as alternative to maize in dairy concentrates
 - Conduct a PhD(Agric) project with the focus on enhancing dairy cow production efficiency by reducing methane emissions
 - Initiate proposals for research projects
 - Extend scientific knowledge derived from the research conducted via scientific-, semi-scientific-, popular publications and presentations
 - Feed formulation
 - Maintain and develop technical skills by attendance at appropriate workshops, conferences and seminars
 - Do administrative duties, including the preparation of reports as required
 - Assist with other on-going research projects**Pasture-based Beef Systems (2012 - 2016)**
 - Annual herd and fodder flow planning
 - Help emerging farmers develop a profitable and sustainable beef calf rearing system on planted pasture
- **2018 – current: Technical Manager** (Voermol Feeds)
Main purpose of job: to provide technical support within the company for the sound production of the company's product range as well as to develop and test existing as well as new products for superior performance. Furthermore, to provide technical nutritional and product support to agents and clients.

Key performance areas:

- Technical support
 - Provide technical information and support the Technical department and Production plants as well as sales agents and customers
 - To ensure correct, adequate and reliable information on all technical issues
 - Talks on farmers' days, at study groups and quarterly meetings
 - Write articles in Agricultural magazines
- Product Quality And Product Performance / Response
 - Use best available raw materials and correct product specifications to formulate products
 - Investigate product complaints and quality complaints
 - Reduce product complaints and claims by introducing and improving the quality control process and procedures
 - Improve on farm biological and economic performance of products
- Raw Material Costs Of Product
 - Ensure that raw materials and products are not under or over-specification
 - Re-formulate products on a continuous basis and ensure specifications are as per registered specification
- Business development
 - Supply technical support to customers and sales agents to continuously update products and improve sales volumes and existing product range.
 - Identify product development and sales opportunities within the molasses based and ruminant animal feeds market to grow existing and establish new business
- Trials: Research & Field Trials
 - Initiate, plan and oversee research trials at Universities and other research institutions.
 - Conduct field trials in order to determine additional applications of products
 - Formulate and develop new products
- Ensure that the Company's ethos and standards are maintained at all times
 - Adhere and enforce the companies ethics and quality policies and procedures at all times
 - Support and contribute to the ethics and quality, and ISO meetings and initiatives when necessary or requested by management to ensure that all the company's products adhere to ISO quality standards at all times

PUBLICATIONS (Popular Articles – 22+)

- van Wyngaard, J.D.V., 2011. Palm Kernel Expeller (PKE) in dairy concentrates. George Herald, Mossel Bay Advertiser, Southern Cape Forum, Knysna-Plett Herald and Oudtshoorn Courant. 26 Aug.
- van Wyngaard, J.D.V., 2012. *Duur mielies vervang deur PKE*. George Herald, Mossel Bay Advertiser, Southern Cape Forum, Knysna-Plett Herald, Graaff-Reinet Advertiser, and Oudtshoorn Courant. 28/29 Mar.

- van Wyngaard, J.D.V., 2012. *Hoekom is vesel so belangrik?*. George Herald, Mossel Bay Advertiser, Southern Cape Forum, Knysna-Plett Herald, Graaff-Reinet Advertiser, and Oudtshoorn Courant. 27/28 Jun.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L., 2012. Palm kernel expeller as supplement for dairy cows grazing kikuyu/ryegrass pasture. George Herald, Mossel Bay Advertiser, Southern Cape Forum, Knysna-Plett Herald, Graaff-Reinet Advertiser, and Oudtshoorn Courant. 29 Nov.
- van Wyngaard, J.D.V., 2014. *Metaangasvystelling van suiwelkoeie – van agter of van voor?*. George Herald, Mossel Bay Advertiser, Southern Cape Forum, Knysna-Plett Herald, Graaff-Reinet Advertiser, Oudtshoorn Courant and www.agrieden.co.za. 8 May.
- van Wyngaard, J.D.V., 2014. *Veeboere! Voer by-produkte en verlaag jou koolstofvoetspoor*. George Herald, Mossel Bay Advertiser, Southern Cape Forum, Knysna-Plett Herald, Graaff-Reinet Advertiser, and Oudtshoorn Courant.
- van Wyngaard, J.D.V., 2014. *Navorsingstendense in die voerbedryf*. Veeplaas Tydskrif Vol 5, No 12, pp. 57. Dec
- Coetsee, J., van Wyngaard, J.D.V. and Steyn, L., 2015. *Kragvoer: Vervang mielies met afvalprodukte*. Landbouweekblad no. 1908. 12 June. pp 40–42.
- van Wyngaard, J.D.V., 2015. Performance of Angus/Jersey crosses on dryland pasture in the southern Cape. AgriCulture/Kultuur Oct/Nov 2015, issue no. 31. pp. 36–39.
- van Wyngaard, J.D.V., 2015. Methane production from cows on pasture. Afgriland Nov/Dec 2015, Vol. 59, No. 6. pp. 18–19.
- van Wyngaard, J.D.V. and Meeske, R., 2016. Effect of palm kernel expeller supplementation on rumen fermentation of Jersey cows grazing kikuyu-based pasture. AFMA Matrix Jan-Feb 2016, Vol. 25, No. 1. pp. 39.
- van Wyngaard, J.D.V., 2016. *Suiwelkragvoer vir melkkoeie op weiding: Hoeveel is genoeg?*. AgriCulture/Kultuur March 2016, issue no. 36. pp. 63–65.
- van Wyngaard, J.D.V., 2016. A working intensified calf-rearing system using Angus/Jersey crossbred cows. Red Meat/Rooivleis, Vol. 7 No. 3. pp 72–77.
- van Wyngaard, J.D.V., 2017. Carbon tax on the horizon. The Dairy Mail Vol. 24 No. 3 (March). pp 82–87.
- van Wyngaard, J.D.V., 2017. *Aanneemkoeie maak geld*. Landbouweekblad no. 2002. 28 April. p 32.
- van Wyngaard, J.D.V., 2017. Your carbon tax readiness toolkit. The Dairy Mail Vol. 24 No. 5 (May). pp 92–95.
- van Wyngaard, J.D.V., 2017. A profitable cross calf rearing system – from multiple sucklings to finishing on pasture. Red Meat/Rooivleis Vol. 8 No. 3 (June). pp 64–69.
- van Wyngaard, J.D.V., 2017. Reducing the methane emissions of cattle. Farmer's Weekly no. 17027. pp 26–27.
- van Wyngaard, J.D.V., 2018. *Lentevelde: Is nét groenweiding voldoende?*. Wolboer/Wool Farmer, Vol. 6 No. 4 (September). pp 73–77.
- van Wyngaard, J.D.V., 2019. *Slim veldbenutting vir beter ruvoer*. Red Meat/Rooivleis, Vol. 10 No. 1. pp 66–69.
- van Wyngaard, J.D.V., 2019. *Voorkom melkkoors só*. Landbouweekblad no. 2510, 25 October. p 70.
- van Wyngaard, J.D.V., 2019. Nutrient deficiencies and restrictions in green grazing for ruminants. Stockfarm no. 1219, December. p 39.

PUBLICATIONS (Peer-reviewed Scientific Articles - 7)

- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2015. Effect of palm kernel expeller as supplementation on production performance of Jersey cows grazing kikuyu-ryegrass pasture.

Animal Feed Science and Technology 199: 29–40.

- van Wyngaard, J.D.V. and Meeske, R., 2017. Palm kernel expeller increases milk fat content when fed to grazing dairy cows. *South African Journal of Animal Science* 47: 219–230.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2018. Technical note: A Simple back-mounted harness for grazing dairy cows to facilitate the sulfur hexafluoride tracer gas technique. *Journal of Dairy Science* 101: 2655–2658.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2018. Effect of concentrate level on enteric methane emissions, production performance and rumen fermentation of Jersey cows grazing kikuyu-dominant pasture during summer. *Journal of Dairy Science* 101: 9954–9966.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2018. Effect of concentrate feeding level on methane emissions, production performance and rumen fermentation of Jersey cows grazing ryegrass pasture during spring. *Animal Feed Science and Technology* 241, 121–132.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2018. Effect of dietary nitrate on enteric methane emissions, production performance and rumen fermentation of dairy cows grazing kikuyu-dominant pasture during summer. *Animal Feed Science and Technology* 244: 76–87.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2019. Effect of dietary nitrate on enteric methane emissions, production performance and rumen fermentation of dairy cows grazing ryegrass pasture during spring. *Animal Feed Science and Technology* 252: 64–73.

PUBLICATIONS (Semi-scientific Articles - 21)

- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2012. Palm Kernel Expeller as supplement for dairy cows grazing kikuyu/ryegrass pasture. Outeniqua Research Farm Information Day: Sustainable milk production from planted pastures. Outeniqua Research Farm, George. 30 Oct. pp. 120–129.
- van Wyngaard, J.D.V., Meeske, R., Botha, P.R. & Grobler, H.J.F., 2014. *Intensiewe en ekstensiewe kalfgrootmaakstelsels met Jersey X Angus kruise*. Farmers Day: Beef Calf Rear and Pasture Day Pamphlet. Outeniqua Research Farm, George. 6 Feb.
- van Wyngaard, J.D.V. and Meeske, R., 2014. Partial replacement of maize with palm kernel expeller in the concentrate for Jersey cows grazing kikuyu or ryegrass pasture. 48th Annual Conference of the South African Society for Agricultural Extension (SASAE): The Role of the Professional Extensionist in Sustainable Agricultural Development. Booklet of Outeniqua Research Farm visit. Outeniqua Research Farm, George. 11 Jun. pp. 15–16.
- van Wyngaard, J.D.V. and Meeske, R., 2014. Kalfgrootmaakstelsels in die Suid-Kaap. Praktiese Weidingskursus vir Beginners 2014 Bundel. Outeniqua Navorsingsplaas, George. 4 Sep. pp. 47–49.
- van Wyngaard, J.D.V., 2014. Calf rearing systems in the southern Cape. Practical Pasture Course for Beginners 2014 Booklet. Outeniqua Research Farm, George. 10 Sep. pp. 48–50.
- van Wyngaard, J.D.V. and Meeske, R., 2014. Palm kernel expeller as supplement for grazing dairy cows. Outeniqua Research Farm Information Day: Milk production from planted pastures. Outeniqua Research Farm, George. 15 Oct. pp. 73–80.
- Meeske, R., Grobler, H.J.F. and van Wyngaard, J.D.V., 2015. Evaluation of grazing Jersey and Angus/Jersey nurse cows in a multiple suckling calf rearing system. Proc. 6th Annual Departmental Extension and Advisory Services Symposium. Spier, Stellenbosch. 15–17 Jul.
- van Wyngaard, J.D.V. and Meeske, R., 2015. Effect of palm kernel expeller supplementation on milk parameters of Jersey cows grazing kikuyu. *Elsenburg Journal, AgriProbe Vol 12 No 1*. pp. 55.
- van Wyngaard, J.D.V., Meeske, R. and Grobler, M., 2015. Evaluation of a multiple suckling calf rearing system with grazing Jersey and Angus/Jersey nurse cows. Van Stadens Farmers Association Visit, Booklet. Outeniqua Research Farm, George. 15 Sep. pp. 12–14.
- van Wyngaard, J.D.V., Meeske, R. and Grobler, H.J.F., 2016. Rearing and finishing Angus/Jersey

calves in a pasture-based beef production system. Beef Day. Outeniqua Research Farm, George, Western Cape Province. 16 Feb. pp. 9–13.

- van Wyngaard, J.D.V., 2016. Dairy concentrate for cows on pasture: what is the limit?. Natal Study Group visit, booklet. Outeniqua Research Farm, George. 13 Jun. pp. 20–21.
- van Wyngaard, J.D.V., 2016. Methane production from cows on pasture. Natal Study Group visit, booklet. Outeniqua Research Farm, George. 13 Jun. pp. 20–21.
- van Wyngaard, J.D.V., 2016. Dairy concentrate for cows on pasture: what is the limit?. GSSA Mid-congress Tour 2016 booklet. Outeniqua Research Farm, George. 6 Jul. pp. 22–23.
- van Wyngaard, J.D.V., 2016. Methane production from cows on pasture. GSSA Mid-congress Tour 2016 booklet. Outeniqua Research Farm, George. 6 Jul. pp. 24.
- van Wyngaard, J.D.V. and Meeske, R., 2016. Kalfgrootmaakstelsels in die Suid-Kaap. Praktiese Weidingskursus vir Beginners 2016 Bundel. Outeniqua Navorsingsplaas, George. 17 Aug. pp. 54–55.
- van Wyngaard, J.D.V. and Meeske, R., 2016. Suksesvolle veelvoudige kalfgrootmaakstelsel op weiding: van kalf tot vleis. Praktiese Weidingskursus vir Beginners 2016 Bundel. Outeniqua Navorsingsplaas, George. 17 Aug. pp. 56.
- van Wyngaard, J.D.V. and Meeske, R., 2016. Calf rearing systems in the southern Cape. Practical Pasture Course for Beginners 2016 Booklet. Outeniqua Research Farm, George. 7 Sep. pp. 54–55.
- van Wyngaard, J.D.V. and Meeske, R., 2016. Successful multiple suckling calf-rearing system: from calf to beef carcass. Practical Pasture Course for Beginners 2016 Booklet. Outeniqua Research Farm, George. 7 Sep. pp. 56.
- van Wyngaard, J.D.V., Meeske, R. and Grobler, H.J.F., 2016. Rearing and finishing cross calves in a pasture-based beef production system. Intermediate Pasture Course Booklet. Outeniqua Research Farm, George. 14 Sep. pp. 182–186.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2016. Is carbon tax a reality for dairy farmers?. Outeniqua Research Farm Information Day: Milk production from planted pastures. Outeniqua Research Farm, George. 19 Oct. pp. 47–51.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2016. How to reduce on-farm enteric methane production. Outeniqua Research Farm Information Day: Milk production from planted pastures. Outeniqua Research Farm, George. 19 Oct. pp. 52–58.

PUBLICATIONS (Posters - 16)

- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2013. Effect of palm kernel expeller as supplement on rumen parameters of dairy cows grazing kikuyu-ryegrass pasture. Proc. 46th annual *South African Society for Animal Science congress*: Ensuring scientific succession to serve a vibrant livestock industry. Bloemfontein, RSA. 23 Jun.
- van Wyngaard, J.D.V. and Meeske, R., 2014. Beef calf production potential of F₁ generations Angus/Jersey cows. Proc. 47th annual *South African Society for Animal Science congress*: The role of the Animal Scientist in securing food for the future. Sanlam Auditorium, University of Pretoria, RSA. 6–8 Jul.
- Meeske, R. and van Wyngaard, J.D.V., 2014. Replacing maize with palm kernel expeller in dairy concentrate fed to Jersey cows grazing kikuyu pasture. Proceedings of the 6th *Australasian Dairy Science Symposium*. Kingsgate Hotel, Hamilton, NZ. 19–21 Nov.
- van Wyngaard, J.D.V. and Meeske, R., 2015. Effect of palm kernel expeller supplementation on rumen fermentation of Jersey cows grazing kikuyu-based pasture. Proc. 48th *South African Society for Animal Science congress*: The “Zululand Heritage Congress”. Umfolozi Hotel, Casino and Conference Resort, Empangeni, RSA. 21–23 Sept.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2016. Methane research in the dairy sector

of South Africa using the ERUCT technique. Proc. 6th *Greenhouse Gas and Animal Agriculture Conference* (GGAA2016), Pullman Albert Park, Melbourne, Australia. 14–18 Feb.

- Du Toit, C.J.L., van Niekerk, W.A., Meissner, H.H. and van Wyngaard, J.D.V., 2016. Direct greenhouse gas emissions from South African livestock. Proc. 6th *Greenhouse Gas and Animal Agriculture Conference* (GGAA2016), Pullman Albert Park, Melbourne, Australia. 14–18 Feb.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2016. Predicting methane emissions of Jersey cows on pasture. Proc. 49th *South African Society for Animal Science congress*, Spier Hotel and Congress Centre, Stellenbosch, RSA. 6–7 Jul.
- van Wyngaard, J.D.V. and Meeske, R., 2017. Palm kernel expeller replaces maize and increases milk fat content. Proc. 10th *South African Large Herds Conference*, Champagne Sports Resort, Drakensberg, RSA. 5–7 Jul.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2017. Dairy concentrate feeding level – the sweet spot. Proc. 10th *South African Large Herds Conference*, Champagne Sports Resort, Drakensberg, RSA. 5–7 Jun.
- Myburgh, A.P., Meeske, R. and van Wyngaard, J.D.V., 2017. Once a day feeding of milk to dairy calves. Proc. 10th *South African Large Herds Conference*, Champagne Sports Resort, Drakensberg, RSA. 5–7 Jun.
- van Wyngaard, J.D.V., Van der Colf, J. and Meeske, R., 2017. Seasonal effect on quality, dry matter yield and botanical composition of cultivated beef pasture. Proc. 52th annual *Grassland Society of Southern Africa* congress. Wits Rural Facility, Hoedspruit, Mpumalanga-Limpopo Border, RSA. 23–28 July.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2017. Laser Methane Detector not a practical measurement tool for pasture-based dairy systems. Proc. 50th *South African Society for Animal Science congress*, Boardwalk Conference Centre, PE, RSA. 18–21 Sep.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2017. Measured vs predicted enteric methane emissions of pasture-based dairy cows. Proc. 50th *South African Society for Animal Science congress*, Boardwalk Conference Centre, PE, RSA. 18–21 Sep.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2017. Effect of concentrate level on enteric fermentation and methane emissions of pasture-based dairy cows. Proc. 50th *South African Society for Animal Science congress*, Boardwalk Conference Centre, PE, RSA. 18–21 Sep.
- van Wyngaard, J.D.V., Meeske, R. and Grobler, H.J.F., 2017. An efficient small-holder calf rearing and finishing system on pasture. Proc. *joint DAFF, AFAAS, SASAE 2017 Conference*, Durban, RSA. 29 Oct to 3 Nov.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2018. Effect of concentrate feeding level on methane emissions, production performance and rumen fermentation of grazing Jersey cows. Proc. 69th Annual Meeting of the European Federation of Animal Science (EAAP). Dubrovnik, Croatia. 27–31 Aug.

PLATFORM PRESENTATIONS (Congress - 11)

- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2012. Palm Kernel Expeller as supplement for dairy cows grazing kikuyu/ryegrass pasture. Proc. 45th annual *South African Society for Animal Science* congress: Animal science in a continuous state of change. East-London. 11 Jul.
- van Wyngaard, J.D.V. and Meeske, R., 2014. Effect of palm kernel expeller supplementation on milk parameters of Jersey cows grazing kikuyu. Proc. 47th annual *South African Society for Animal Science* congress: The role of the Animal Scientist in securing food for the future. Sanlam Auditorium, University of Pretoria. 8 Jul.
- Meeske, R., Grobler, H.J.F. and van Wyngaard, J.D.V., 2014. Rearing and distribution of Angus X Jersey calves in the southern Cape. Proc. 5th *Annual Departmental Extension and Advisory Services Symposium*, Arniston. 21 Jul.

- Meeske, R., Grobler, H.J.F. and van Wyngaard, J.D.V., 2015. Evaluation of grazing Jersey and Angus/Jersey nurse cows in a multiple suckling calf rearing system. Proc. 6th *Annual Departmental Extension and Advisory Services Symposium*. Spier, Stellenbosch. 15–17 Jul.
- van Wyngaard, J.D.V., Meeske, R. and Van der Colf, J., 2015. Evaluation of grazing Jersey and Angus/Jersey nurse cows in a multiple suckling calf rearing system. Proc. 50th annual *Grassland Society of Southern Africa* congress. Royal Agricultural Showgrounds, Pietermaritzburg. 19–23 July.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2015. Evaluation: Sulphur hexa-fluoride tracer gas technique for estimating methane emissions from grazing Jersey cows. Proc. 48th *South African Society for Animal Science* congress: The “Zululand Heritage Congress”. Umfolozi Hotel, Casino and Conference Resort, Empangeni, KZN. 21–23 Sept.
- van Wyngaard, J.D.V. and Meeske, R., 2016. The effect of concentrate feeding level on enteric methane and milk production parameters of Jersey cows on ryegrass. Proc. 49th *South African Society for Animal Science* congress, Spier Hotel and Congress Centre, Stellenbosch, Western Cape Province, South Africa. 6–7 Jul.
- van Wyngaard, J.D.V., Meeske, R. and Grobler, H.J.F., 2016. Rearing and finishing Angus/Jersey calves in a pasture-based beef production system. Proc. 51th annual *Grassland Society of Southern Africa* congress. Wilderness, Western Cape, South Africa. 3–8 July.
- Meeske, R., Grobler, H.J.F. and van Wyngaard, J.D.V., 2016. Intensified calf rearing system – from multiple suckling to finishing on pasture. Proc. 7th Annual Departmental Extension and Advisory Services Symposium. Percheron hall, Elsenburg, Stellenbosch, Western Cape, South Africa. 13–15 Jul.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2017. Carbon tax and the need for carbon sequestration and offset. Proc. 52nd annual *Grassland Society of Southern Africa* congress. Wits Rural Facility, Hoedspruit, Mpumalanga-Limpopo Border, RSA. 23–28 July.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J., 2018. High concentrate feeding level reduces enteric methane emissions of grazing dairy cows. Proc. 53rd annual *Grassland Society of Southern Africa* congress. Roodeplaat, Pretoria, Gauteng, RSA. 23–27 July.

PLATFORM PRESENTATIONS (Formal invitations – 18+)

- van Wyngaard, J.D.V., Meeske, R. & Erasmus, L.J., 2012. Palm Kernel Expeller as supplement for dairy cows grazing kikuyu/ryegrass pasture. Outeniqua Research Farm Information Day: Sustainable milk production from planted pastures. Outeniqua Research Farm, George, Western Cape Province. 30 Oct.
- van Wyngaard, J.D.V., Meeske, R., Erasmus, L.J. & Brönn, P., 2012. Palm Kernel Expeller (PKE) as supplement for dairy cows in pasture-based production systems. Intelact Consultant Conference, Hamilton, New Zealand. 29 Nov.
- van Wyngaard, J.D.V. and Meeske, R., 2013. Sustainable beef production systems in the southern Cape. Proc. Red Meat Work Team Meeting. Oudtshoorn Research Farm, Oudtshoorn, Western Cape Province. 19 Jun.
- van Wyngaard, J.D.V., Meeske, R., Botha, P.R. & Grobler, H.J.F., 2014. Intensive and extensive beef calf rearing systems using Jersey X Angus cows on pasture. Farmers Day: Beef Calf Rear and Pasture Day. Outeniqua Research Farm, George, Western Cape Province. 6 Feb.
- Meeske, R., Van Wyngaard, J.D.V., Botha, P.R. & Grobler, H.J.F., 2014. Outeniqua Beef Research. Beef Workshop. Outeniqua Research Farm, George, Western Cape Province. 13 Jun.
- van Wyngaard, J.D.V. and Meeske, R., 2014. Palm kernel expeller inclusion in dairy concentrates. Outeniqua Research Farm Information Day: Milk production from planted pastures. Outeniqua

Research Farm, George, Western Cape Province. 15 Oct.

- van Wyngaard, J.D.V., Meeske, R. and Brönn, P., 2014. South African research report: The effect of PKE supplements on production performance of early lactation Jersey cows grazing kikuyu pasture during summer. Intelact Consultant Conference, Hamilton, New Zealand. 28 Nov.
- van Wyngaard, J.D.V., 2015. Evaluating an intensive beef calf rearing system using Jersey and Angus/Jersey cows on pasture. Farmers Day: Calf Rearing. Outeniqua Research Farm, George, Western Cape Province. 10 Feb.
- van Wyngaard, J.D.V., Meeske, R. and Grobler, H.J.F., 2015. Multiple suckling calf rearing system: Jersey and Angus/Jersey nurse cows. Calf Rearing Workshop and Performance Feedback. Outeniqua Research Farm, George. 27 Aug.
- van Wyngaard, J.D.V., Meeske, R., and Grobler, H.J.F., 2016. Rearing and finishing Angus/Jersey calves in a pasture-based beef production system. Beef Day. Outeniqua Research Farm, George. 16 Feb.
- van Wyngaard, J.D.V., Meeske, R., and Grobler, H.J.F., 2016. Intensified calf rearing system: from multiple suckling to finishing on pasture. Intermediate Pasture Course. Outeniqua Research Farm, George. 15 Sept.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2016. Is carbon tax a reality for dairy farmers?. Outeniqua Research Farm Information Day: Milk production from planted pastures. Outeniqua Research Farm, George. 19 Oct.
- van Wyngaard, J.D.V., Meeske, R. and Erasmus, L.J., 2016. How to reduce on-farm enteric methane production. Outeniqua Research Farm Information Day: Milk production from planted pastures. Outeniqua Research Farm, George. 19 Oct.
- van Wyngaard, J.D.V., Meeske, R., and Grobler, H.J.F., 2017. A profitable cross calf rearing and finishing system on pasture. Beef Day. Outeniqua Research Farm, George. 21 Feb.
- van Wyngaard, J.D.V., 2018. *Proteïen in herkouervoeding*. Voermol Feeds Sales Congress, Sun City. 17–20 Jul.
- van Wyngaard, J.D.V., 2018. *Voeding: om doelwitte en wins te behaal*. Springbok Landbouvereniging Boeredag, Montevideo. 15 Aug.
- van Wyngaard, J.D.V., 2019. *Tradisionele koei-kalf stelsel: wat jy moet weet en moontlike alternatiewe*. Bultfontein Studiegroep, Bultfontein. 5 Mar.
- van Wyngaard, J.D.V., 2019. *Strategiese voeding van dragtige ooie*. OverbergAgri Boeredag, Bredasdorp. 13 Mar.
- The rest can be provided on request.

ORAL PRESENTATIONS (Radio – 5+)

- van Wyngaard, J.D.V., 2013. Title: *Gepersde palm-oliekoek is 'n uitstekende aanvulling vir suiwelkoeie!*. Radio Elsenburg, RSG. 15 Feb.
- van Wyngaard, J.D.V., 2013. Title: *Uilhokke: Stig gratis biologiese knaagdierbeheer*. Radio Elsenburg, RSG. 26 Apr.
- van Wyngaard, J.D.V., 2014. Title: *Metaangasproduksie van suiwelkoeie op weiding*. Radio Elsenburg, RSG. 4 Apr.
- van Wyngaard, J.D.V., 2018. *Produksielekke*. RSG Landbou. 20–23 August.
- van Wyngaard, J.D.V., 2018. *Kruipvoeding by lammers*. RSG Landbou. 29 Oct – 1 Nov.
- The rest can be provided on request

ORAL PRESENTATIONS (Technology transfer events - 17)

- van Wyngaard, J.D.V., 2014. *Oorsig van Jersey X Angus kruiskoeie en kalfgrootmaak-studie*. Farmers Day: Beef Calf Rear and Pasture Day. Outeniqua Research Farm, George, Western Cape Province. 6 Feb.

- van Wyngaard, J.D.V., 2014. Overview of study: Palm kernel expeller supplementation for Jersey cows grazing kikuyu. NMMU student visit. Outeniqua Research Farm, George, Western Cape Province. 14 Feb.
- van Wyngaard, J.D.V., 2014. Overview of study: Production potential of palm kernel expeller for Jersey cows grazing kikuyu. Outeniqua Dairy Farmer Study Group visit. Outeniqua Research Farm, George, Western Cape Province. 26 Mar.
- van Wyngaard, J.D.V., 2014. Partial replacement of maize with palm kernel expeller. SASAE Conference 2014: Outeniqua Research Farm visit. Outeniqua Research Farm, George, Western Cape Province. 11 Jun.
- van Wyngaard, J.D.V., 2014. PKE aanvulling vir weidende suiwelkoeie. Weidingskursus 2014. Outeniqua Navorsingsplaas, George, Wes-Kaap Provinsie. 13–14 Aug.
- van Wyngaard, J.D.V., 2014. Kalfgrootmaakstelsels vir vleis x melkkalwers. Praktiese Weidingskursus vir Beginners 2014. Outeniqua Navorsingsplaas, George, Wes-Kaap Provinsie. 4 Sep.
- van Wyngaard, J.D.V., 2014. Intensive rearing of beef x dairy calves. Practical Pasture Course for Beginners 2014. Outeniqua Research Farm, George, Western Cape Province. 10 Sep.
- van Wyngaard, J.D.V., 2015. Overview of study: Quantification of enteric methane emissions from grazing Jersey cows. Outeniqua Dairy Farmer Study Group visit. Outeniqua Research Farm, George, Western Cape Province. 18 Feb.
- van Wyngaard, J.D.V., 2015. Research Project Visit: Intensive Calf Rearing on Planted Pastures. Farmers Day: Calf Rearing. Outeniqua Research Farm, George, Western Cape Province. 10 Feb.
- van Wyngaard, J.D.V., 2015. Estimation of enteric methane emissions from grazing dairy cows. NMMU student visit. Outeniqua Research Farm, George, Western Cape Province. 8 May.
- van Wyngaard, J.D.V., 2015. Evaluation of a multiple suckling calf rearing system with grazing Jersey and Angus/Jersey nurse cows. Van Stadens Farmers Association Visit. Outeniqua Research Farm, George. 15 Sep.
- van Wyngaard, J.D.V., 2015. Beef Research Outeniqua. New Era Producers: Grain SA Visit. Outeniqua Research Farm, George. 19 Nov.
- van Wyngaard, J.D.V., 2016. Methane research at Outeniqua. Natal Study Group visit, booklet. Outeniqua Research Farm, George. 13 Jun.
- van Wyngaard, J.D.V., 2016. Measuring methane from grazing dairy cows. Planted pastures mid-congress tour, Proc. 51th annual *Grassland Society of Southern Africa* congress. Outeniqua Research Farm, George. 6 Jul.
- van Wyngaard, J.D.V., 2016. Intensiewe kalfgrootmaakstelsels vir vleis x melkkalwers. Praktiese Weidingskursus vir Beginners. Outeniqua Navorsingsplaas, George, Wes-Kaap Provinsie. 17 Aug.
- van Wyngaard, J.D.V., 2016. Intensive rearing of beef x dairy calves. Practical Pasture Course for Beginners 2016. Outeniqua Research Farm, George, Western Cape Province. 7 Sep.

REVIEWER

- Abstracts for Proc. Annual *Grassland Society of Southern Africa* congress (2016–current)
- Abstracts for Proc. Annual *South African Society for Animal Science* congress (2017–current)
- Research papers for *Journal of Animal Physiology and Animal Nutrition*.
- Research papers for *Animal: An International Journal of Animal Biosciences*.

COUNCIL AND COMMITTEE MEMBER

- Congress organizing committee: 51st Annual *Grassland Society of Southern Africa* congress (2015/2016).
- Council member – appointment as Publications Editor: Grassroots, *Grassland Society of Southern Africa* (2016–2018).

- Congress scientific committee: Annual *Grassland Society of Southern Africa* congress (2016-current).

ACADEMIC HONOURS AND AWARDS

- 2009 and 2010: Academic Bursary on Merit (University of the Free State)
- 2015: The Norman Rethman Planted Pastures Award for the Best Platform Presentation in Planted Pasture, entitled: Evaluation of grazing Jersey and Angus/Jersey nurse cows in a multiple suckling calf rearing system. Proc. 50th annual *Grassland Society of Southern Africa* congress. Royal Agricultural Showgrounds, Pietermaritzburg. 19–23 July
- 2015: The Best Student Nutrition Poster Award for the poster presentation, entitled: Effect of palm kernel expeller supplementation on rumen fermentation of Jersey cows grazing kikuyu-based pasture. Proc. 48th annual *South African Society for Animal Science* congress. Umfolozi Hotel, Casino and Conference Resort, Empangeni, KZN. 21–23 Sept.
- 2016: Animal Feed Manufacturers Association (AFMA) Research Article of the Year entitled: Palm kernel expeller supplementation. 11 Oct.
- 2017: Award for the Best Poster Presentation, entitled: Seasonal effect on quality, dry matter yield and botanical composition of cultivated beef pasture. Proc. 52nd annual *Grassland Society of Southern Africa* congress. WITS Rural Facility, near Hoedspruit. 23–28 Jul.
- 2017: Award for the Best Platform Presentation, entitled: Carbon tax and the need for carbon sequestration and offset. Proc. 52nd annual *Grassland Society of Southern Africa* congress. WITS Rural Facility, near Hoedspruit. 23–28 Jul.
- 2019: Bronze Medal Award from the *South African Society for Animal Science* in the Research category for a meritorious thesis.

LEADERSHIP

- 2009–2010: Agricultural Student Association Sub-committee (University of the Free State)
- 2013–2014: Conservational Coordinator (SA Hunters & Game Conservation Association)

MEMBERSHIP TO PROFESSIONAL BODIES/COMMITTEES

- South African Council for Natural Scientific Professions (SACNASP)
Membership no 100032/13; since 2013
Email: sarnap@geoscience.org.za, Tel: +27 (0) 12 841 1090
- Golden Key International Honour Society – GKID no 11957420; since 2014
Email: dparsons@goldenkey.org, Tel: + 27 (0) 12 807 7117
- South African Society of Animal Science (SASAS) – Student Membership no 4519; since 2012
Email: secretary@sasas.co.za, Tel: + 27 (0) 12 420 5017
- Grassland Society of Southern Africa (GSSA) – since 2015
Email: info@grassland.org.za, Tel: + 27 (0) 49 842 4335

REFERENCES

Available upon request