

VITAE:**Ronald P. Del Vecchio**

Current Status: Professor and Head – Agricultural Department
Born: August 1, 1957 - Rhode Island
Citizen of: United States of America
Marital Status: Married, Two Children
Activities: Jogging, Horseback Riding, Weight Lifting

Office Address: 100D, University Teaching and Outreach Center
2900 University Avenue
Crookston, MN 56716
Phone: (218) 281-8109; Fax: (218) 281-8694
Email: rdelve004@umn.edu

Education:

Ph.D. - 1989. Animal Science-Physiology of Reproduction, Texas A&M University, College Station, TX.
M.S. - 1986. Animal Science-Physiology of Reproduction, Texas A&M University, College Station, TX.
B.S. - 1982. Animal and Veterinary Science, University of Rhode Island, Kingston, RI.

Professional Employment:

Professor and Head, Agricultural Department, University of Minnesota-Crookston, Crookston, MN. July 2003 – Present
Adjunct Professor, Univ. of Minnesota – College of Veterinary Med., Dept. of Veterinary Population Medicine, St. Paul, MN.
Dec. 2004 - Present
Professor, Department of Animal Sciences, Louisiana State University, Baton Rouge, LA. Jan. 1998 – June 2003.
Research Scientist, Agriculture & Agri-Food Canada Research Center, Brandon, Manitoba. Sept. 1992 - Dec. 1997.
Instructor, Assiniboine Community College, Brandon, Manitoba, Canada. Nov. 1995 - Dec. 1997.
Postdoctoral Research Associate, Dept. of Vet. Sci., Louisiana State Univ., Baton Rouge, LA. July 1991 -Sept. 1992.
Postdoctoral Research Associate, Dept. of Anim. Sci., Virginia Tech. Univ., Blacksburg, VA. April 1989 - June 1991.
Teaching and Research Assistant, Dept. of Anim. Sci., Texas A&M Univ., College Station, TX. Jan. 1984 - March 1989.

Societies/Associations:

American Society of Animal Science
American Quarter Horse Association
American Paint Horse Association

Society Offices/

Education Awards Committee Member - Southern Section ASAS, 2000-2005.

Committee Assignments:

President - Canada West Society for Reproductive Biology, 1995-1996.
Vice President - Canada West Society for Reproductive Biology, 1994-1995.
Editorial Board Member - Journal of Animal Science, 1993-1996.

Recognition/Awards:

UMC Ag-Arama Appreciation Award for Faculty Advisement, 2004, 2005
Floyd S. Edmiston Award for Outstanding Educational Programming, LSU AgCenter, 2000.
Graduate Faculty Member - Louisiana State University, 1998-present.
Beef Cattle Research Program Leader - Brandon Research Center, 1995-1997.
Swine Research Program Leader - Brandon Research Center, 1996-1997.
Adjunct Professor - Univ. of Manitoba, Anim. Sci. Dept., 1994-1997.
Outstanding Young Men of America Award, 1987.
President - Texas A&M Moo Duk Kwan Tae Kwon Do Club, 1987-1988; Exemplary Dedication Award, 1988.
Over Forty Invited Seminars/Presentations.
Requested Member and Chairman of Numerous Committees.

Teaching Experience Summary:

- 1) University of Minnesota-Crookston, Course Titles: a) Animal Anatomy and Physiology, b) Seminar, c) Reproduction, AI and Lactation
- 2) Louisiana State University, Course Titles: a) Reproductive Physiology, b) Contemporary Issues; c) Beef Production.
- 3) Assiniboine Community College, Course Title: a) Reproductive Physiology and Management of Swine.
- 4) Virginia Tech University, Course Title: a) Sheep Management.
- 5) Texas A&M University, Course Titles: a) Reproduction in Farm Animals, b) Artificial Breeding of Livestock.

Publication Summary:

1) Research Publications	37	3) Reports and Technology Transfer Documents	114
2) Proceedings and Abstracts	43	4) Project and Grant Proposals	27

PUBLICATION LISTING

Research Publications

- 1) **Del Vecchio R.P.**, R.D. Randel, D.A. Neuendorff and L.A. Peterson. 1988. Effect of alfaprostol, lasalocid and once daily suckling on postpartum interval in Brahman and Brahman crossbred cattle. *Theriogenology* 30:797-809.
- 2) Randel, R.D., **R.P. Del Vecchio**, D.A. Neuendorff and L.A. Peterson. 1988. Effect of alfaprostol on postpartum reproductive efficiency in Brahman cows and heifers. *Theriogenology* 29:657-670.
- 3) Bastidas, P., D.W. Forrest, **R.P. Del Vecchio** and R.D. Randel. 1990. Comparison of biological and immunological luteinizing hormone activity in postpartum cows losing or maintaining body condition. *J. Anim. Sci.* 68:2771-2778.
- 4) **Del Vecchio, R.P.**, C.C. Chase, Jr., P. Bastidas and R.D. Randel. 1990. Oxytocin-induced changes in plasma 13,14-dihydro-15-keto prostaglandin $F_{2\alpha}$ concentrations on days 10, 20 and 30 postpartum in the bovine. *J. Anim. Sci.* 68:4261-4266.
- 5) **Del Vecchio, R.P.**, R.G. Sasser and R.D. Randel. 1990. Effect of pregnancy-specific protein B on prostaglandin release by day 16 perfused bovine endometrial tissue. *Prostaglandins* 40:271-282.
- 6) **Del Vecchio, R.P.**, C.C. Chase, Jr., R.D. Randel and F.D. Tibbitts. 1991. Oxytocin-induced prostaglandin release from perfused bovine caruncular and intercaruncular endometrial tissues on days 20, 30 and at first estrus postpartum. *Prostaglandins* 41:407-417.
- 7) **Del Vecchio, R.P.**, D.A. Neuendorff and R.D. Randel. 1991. Plasma 13,14-dihydro-15-keto-prostaglandin $F_{2\alpha}$ concentrations in prepubertal dairy heifers challenged with oxytocin. *Domest. Anim. Endocrinol.* 8:521-526.
- 8) Chase, C.C., Jr., **R.P. Del Vecchio**, S.B. Smith and R.D. Randel. 1992. In vitro energy metabolism by bovine reproductive tissues obtained during the estrous cycle and postpartum period. *J. Anim. Sci.* 70:1496-1508.
- 9) **Del Vecchio, R.P.**, K.M. Maxey and G.S. Lewis. 1992. A quantitative solid phase enzymeimmunoassay for 13,14-dihydro-15-keto-prostaglandin $F_{2\alpha}$ in plasma. *Prostaglandins* 43:321-330.
- 10) Johnson S.K., **R.P. Del Vecchio**, E.C. Townsend and E.K. Inskeep. 1992. Role of prostaglandin $F_{2\alpha}$ in follicular development and subsequent luteal life span in early postpartum beef cows. *Domest. Anim. Endocrinol.* 9:49-56.
- 11) **Del Vecchio, R.P.**, D.A. Neuendorff, R.C. Stahringer and R.D. Randel. 1992. Concentrations of 13,14-dihydro-15-keto-prostaglandin $F_{2\alpha}$, estradiol-17 β and progesterone during the peripubertal period in heifers. *Theriogenology* 38:419-429.
- 12) **Del Vecchio, R.P.**, D.J. Matsas, T.J. Inzana, D.P. Sponenberg and G.S. Lewis. 1992. Effect of intrauterine bacterial infusions and subsequent endometritis on prostaglandin $F_{2\alpha}$ metabolite concentrations in postpartum beef cows. *J. Anim. Sci.* 70:3158-3162.
- 13) **Del Vecchio, R.P.**, E.E. Custer, W.E. Beal and G.S. Lewis. 1992. Jugular plasma concentrations of 13,14-dihydro-15-keto-prostaglandin $F_{2\alpha}$ in prepubertal beef heifers treated with progestogen then challenged with oxytocin. *Prostaglandins* 44:509-518.
- 14) Thibodeaux, J.K., **R.P. Del Vecchio** and W. Hansel. 1993. Role of platelet-derived growth factor in development of in vitro matured and in vitro fertilized bovine embryos. *J. Reprod. Fertil.* 98:61-66.
- 15) Thibodeaux, J.K., **R.P. Del Vecchio**, J.R. Broussard, J.F. Dickey and W. Hansel. 1993. Stimulation of development of in vitro-matured and in vitro-fertilized bovine embryos by platelets. *J. Anim. Sci.* 71:1910-1916.
- 16) **Del Vecchio, R.P.**, D.J. Matsas, S. Fortin, D.P. Sponenberg and G.S. Lewis. 1994. Spontaneous uterine infections are associated with elevated prostaglandin $F_{2\alpha}$ metabolite concentrations in postpartum dairy cows. *Theriogenology* 41:413-421.
- 17) **Del Vecchio, R.P.**, J.K. Thibodeaux and W. Hansel. 1994. Interactions between large and small bovine luteal cells in a

sequential perfusion co-culture system. J. Anim. Sci. 72:963-968.

- 18) **Del Vecchio, R.P.**, J.K. Thibodeaux and W. Hansel. 1995. Contact-associated interactions between large and small luteal cells during the estrous cycle. Domestic Anim. Endocrinol. 12:25-33.
- 19) **Del Vecchio, R.P.**, J.K. Thibodeaux and W. Hansel. 1995. Interactions between large and small luteal cells collected during the mid- or late-luteal stages of the bovine oestrous cycle. Reprod. Fertil. Dev. 7:35-40.
- 20) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1995. Effect of pregnancy-specific protein B on luteal cell progesterone, prostaglandin and oxytocin production during two stages of the bovine estrous cycle. J. Anim. Sci. 73:2662-2668.
- 21) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1995. Prostaglandin F₂α, progesterone and oxytocin production by cultured bovine luteal cells treated with prostaglandin E₂ and pregnancy-specific protein B. Prostaglandins 50:137-150.
- 22) **Del Vecchio, R.P.**, W.D. Sutherland and M.L. Connor. 1995. A solid-phase enzymeimmunoassay for the determination of progesterone in bovine, ovine and porcine plasma. Can. J. Anim. Sci. 75:525-529.
- 23) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1996. Bovine luteal cell production of prostaglandin E₂, oxytocin and progesterone in response to pregnancy-specific protein B and prostaglandin F₂α. J. Reprod. Fertil. 107:131-136.
- 24) **Del Vecchio, R.P.** 1997. The role of steroidogenic and nonsteroidogenic luteal cell interactions in regulating progesterone production. Seminars in Reproductive Endocrinology 15:409-420.
- 25) **Del Vecchio, R.P.** and W.D. Sutherland. 1997. Prostaglandin and progesterone production by bovine luteal cells incubated in the presence or absence of accessory cells of the corpus luteum and treated with interleukin-1β, indomethacin and luteinizing hormone. Reprod. Fertil. Dev. 9:651-658.
- 26) Small, J.A., D.M. Veira, **R.P. Del Vecchio** and D.R. Ward. 1999. Strategies for finishing steers. Can. J. Anim. Sci. 79:592.
- 27) Small, J.A., **R.P. Del Vecchio**, W.P. McCaughey, D.R. Ward and W.D. Sutherland. 2000. The effects of bull exposure and lasalocid on the development of replacement beef heifers. Can. J. Anim. Sci. 80:615-624.
- 28) Fallah-Rad, A.H., M.L. Connor and **R.P. Del Vecchio**. 2001. Effect of transient early hyperthyroidism on onset of puberty in Suffolk ram lambs. Reproduction 121:639-646.
- 29) Dunn, J.R, J.E. Keen, **R.P. Del Vecchio**, T.E. Wittum, and R.A. Thompson. 2004. *Escherichia coli* O157:H7 in a cohort of weaned, preconditioned range beef calves. J. Food Prot. 67:2391-2396.
- 30) Gentry, L.R., D.L. Thompson, G.T. Gentry, **R.P. Del Vecchio** and P.M. Del Vecchio. 2004. The relationship between body condition score and ultrasonic backfat measurements in mares of high versus low body condition. J. Equine Vet. Sci. 24:198-203.
- 31) Cartmill, J.A., D.L. Thompson, Jr., **R.P. Del Vecchio** and W.A. Storer. Leptin secretion in horses: Effects of dexamethasone, gender and testosterone. Domestic Animal Endocrinology. Submitted.
- 32) Martinson, K., M. Hathaway, P. Peterson, J.H. Wilson, **R.P. Del Vecchio** and B. Gilkerson. University of Minnesota horse owner survey: Exploring a new extension audience. J. Extension. Submitted.
- 33) Fallah-Rad, A.H., M.L. Connor and **R.P. Del Vecchio**. Transient hypothyroidism suppressed testicular function in prepubertal Suffolk ram lambs. Can. J. Anim. Sci. In Review/Preparation.
- 34) **Del Vecchio, R.P.**, W.D. Sutherland and T.R. Lewandoski. Effects of recombinant bovine interleukin-1β, luteinizing hormone and indomethacin on progesterone, prostaglandin F₂α and E₂ production by bovine luteal cells incubated in a perfusion culture system. Theriogenology. In Review/Preparation.

- 35) Gentry, G.T., **R.P. Del Vecchio** and R.A. Godke. Effect of the presence of a male on the synchronized and natural estrous cycles of crossbred heifers. J. Anim. Sci. In Review/Preparation
- 36) Gentry, G.T., **R.P. Del Vecchio** and R.A. Godke. Categorization of estrous of prostaglandin-induced and naturally cycling recipient females from a commercial embryo transfer facility. Theriogenology. In Review/Preparation.
- 37) Roberts, J.L., **R.P. Del Vecchio**, G.T. Gentry, Jr, and R.A. Godke. Priming effect of melengestrol acetate (MGA) and rumensin supplementation on the attainment of puberty and subsequent reproductive performance of crossbred beef heifers. J. Anim. Sci. In Preparation.

Theses

- 1) **Del Vecchio, R.P.** 1986. Effect of alfaprostol, lasalocid and once daily suckling on postpartum interval in Brahman and Brahman crossbred cattle. M.S. Thesis, Texas A&M University, College Station, Texas.
- 2) **Del Vecchio, R.P.** 1989. Oxytocin-induced prostaglandin release from uterine tissues: In vivo and in vitro studies. Ph.D. Dissertation, Texas A&M University, College Station, Texas.

Reports and Technology Transfer Documents

- 1) **Del Vecchio, R.P.**, D.A. Neuendorff, R.C. Stahringer and R.D. Randel. 1990. The onset of puberty in the bovine: Uterine and ovarian inter-relationships. Texas A&M University, Overton Experiment Station, Forage and Livestock Research Report 90:215.
- 2) **Del Vecchio, R.P.**, C.A. Grant and P.M. McMullan. 1993. Study review system. Report for the Management Committee, Brandon Research Center.
- 3) **Del Vecchio, R.P.**, L. Bailey and W.D. Sutherland. 1993. Station laboratory guidelines. Report for the Director and Research Scientists, Brandon Research Center.
- 4) **Del Vecchio, R.P.** 1993. Uterine and ovarian relationships in beef cows. BRC Tech. Trans. 93-05.
- 5) **Del Vecchio, R.P.** 1993. The relationship between prostaglandin F₂α metabolite concentrations and postpartum endometritis. BRC Tech. Trans. 93-06.
- 6) **Del Vecchio, R.P.** 1993. Reproductive success depends on interaction between the uterus and ovaries. Brandon Research Center, Newsnote #114.
- 7) **Del Vecchio, R.P.** 1993. Uterine and ovarian relationships have significant impact on lifetime reproductive performance. The Central Manitoba Farmer. July 1993, pg 11.
- 8) **Del Vecchio, R.P.** 1994. Improving reproductive performance in heifers. BRC Tech Trans. 94-03.
- 9) **Del Vecchio, R.P.** 1994. Enzymeimmunoassays for quantitative hormone determination. BRC Tech. Trans. 94-14.
- 10) **Del Vecchio, R.P.** 1994. Studies on uterine and ovarian function in cattle. BRC Tech. Trans. 94-19.
- 11) **Del Vecchio, R.P.** 1994. Understanding uterine and ovarian function for improved reproductive performance. BRC Tech. Trans. 94-20.
- 12) **Del Vecchio, R.P.** 1994. Pregnancy Recognition in Beef Cattle Reproduction. Page 6 in Ramsay, S., ed. Review of Results 1992. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 33 pp.
- 13) **Del Vecchio, R.P.** 1994. Development of Enzymeimmunoassays. Page 6 in Ramsay, S., ed. Review of Results 1992. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 33 pp.
- 14) **Del Vecchio, R.P.** 1994. Developing heifers to maximize reproductive efficiency: Proper nutrition and growth. Brandon Research Center, Newsnote # 133.

- 15) **Del Vecchio, R.P.** 1994. Developing heifers to maximize reproductive efficiency: Understanding the effects of bull exposure. Brandon Research Center, Newsnote # 138.
- 16) **Del Vecchio, R.P.** 1994. Developing heifers to maximize reproductive efficiency: Measuring pelvic area. Brandon Research Center, Newsnote #141.
- 17) **Del Vecchio, R.P.** 1994. Recognition of pregnancy in Beef Cattle. Page 5 in Ramsay, S., ed. Review of Results 1993. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 35 pp.
- 18) **Del Vecchio, R.P.** 1994. Alternate Methods of Measuring Hormones. Page 5 in Ramsay, S., ed. Review of Results 1993. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 35 pp.
- 19) **Del Vecchio, R.P.** 1994. Heifers that produce calves. Manitoba Beef. November 1994, Vol. 2, No. 2, pg.8-9.
- 20) **Del Vecchio, R.P.** 1995. An overview of current research in reproductive physiology. BRC Tech Trans. 95-03.
- 21) **Del Vecchio, R.P.** 1995. Breeding and genetics, pasture management and reproductive physiology research at the Brandon Research Center: An overview. BRC Tech. Trans. 95-08.
- 22) **Del Vecchio, R.P.** 1995. Enzymeimmunoassays: The environmental choice for measuring hormones. Brandon Research Center, Newsnote # 151.
- 23) **Del Vecchio, R.P.** 1995. Possible role for pregnancy-specific protein B in pregnancy maintenance. Page 6 in Ramsay, S., ed. Review of Results 1994. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 41 pp.
- 24) **Del Vecchio, R.P.** 1995. Radioimmunoassays are out, Enzymeimmunoassays are in. Page 6 in Ramsay, S., ed. Review of Results 1994. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 41 pp.
- 25) **Del Vecchio, R.P.** 1995. Enhancing in vitro technology for improved cell culture systems. Page 7 in Ramsay, S., ed. Review of Results 1994. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man. 41 pp.
- 26) **Del Vecchio, R.P.** 1995. Research projects-beef cattle reproductive physiology. Area of study: Understanding uterine and ovarian function. BRC Tech. Trans. 95-15.
- 27) **Del Vecchio, R.P.** and McCaughey, P. 1996. Beef and Pasture Tour Set for July 17 at Brandon Research Center. Brandon Research Center Newsnote # 162.
- 28) **Del Vecchio, R.P.** 1996. Cattle Producers Benefit from Beef Research at Brandon. Brandon Research Center, Newsnote # 164.
- 29) **Del Vecchio, R.P.** 1996. Beef herd efficiency - reproductive function. BRC Tech. Trans. 96-01.
- 30) **Del Vecchio, R.P.** 1996. Uterine and ovarian relationships in reproduction. BRC Tech. Trans. 96-02.
- 31) **Del Vecchio, R.P.** 1996. Pregnancy Maintenance in Cattle. Review of Results 1995. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man.
- 32) **Del Vecchio, R.P.** 1996. Measuring Hormones with Enzymeimmunoassays. Review of Results 1995. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man.
- 33) **Del Vecchio, R.P.** 1996. Improving Cell Culture Systems. Review of Results 1995. Research Center, Research Branch, Agriculture and Agri-Food Canada, Brandon, Man.
- 34) **Del Vecchio, R.P.** 1996. Ovarian Follicular Waves and Fertility. Review of Results 1995. Research Center, Research

Branch, Agriculture and Agri-Food Canada, Brandon, Man.

- 35) **Del Vecchio, R.P.** 1996. Synchronization of Estrus in Cattle. BRC Tech. Trans. 96-04.
- 36) **Del Vecchio, R.P.** 1997. Application of Reproductive Physiology Research to a Systems Approach to Beef Production. BRC Tech. Trans. 97-07.
- 37) **Del Vecchio, R.P.** 1997. Priority Areas in Reproductive Physiology/Reproductive Management of Beef Cattle. BRC Tech. Trans. 97-10.
- 38) **Del Vecchio, R.P.** 1997. The National, Regional and Future Outlook of the Beef Industry. BRC Tech Trans. 97- 14.
- 39) **Del Vecchio, R.P.** 1998. Beef Cattlemen's Corner - Phase IX of the Louisiana Calf to Carcass Project. The Louisiana Cattleman, August, pg. 8.
- 40) **Del Vecchio, R.P.** 1998. Beef Cattlemen's Corner - The Louisiana Forage Bull Test Program. The Louisiana Cattleman, August, pg 12.
- 41) **Del Vecchio, R.P.** 1998. Beef Cattlemen's Corner - Developing Replacement Heifers to Maximize Reproductive Efficiency: Proper Nutrition and Growth. The Louisiana Cattleman, September, pg 10.
- 42) **Del Vecchio, R.P.** 1998. Beef Cattlemen's Corner - Developing Heifers to Maximize Reproductive Efficiency: Understanding the Effects of Bull Exposure. The Louisiana Cattleman, October, pg 13.
- 43) **Del Vecchio, R.P.** 1998. Beef Cattlemen's Corner - Developing Heifers to Maximize Reproductive Efficiency: Measuring Pelvic Area. The Louisiana Cattleman, November, pg 30.
- 44) **Del Vecchio, R.P.** 1998. Beef Cattlemen's Corner - Managing First-Calf Heifers for Continued Reproductive Success. The Louisiana Cattleman, December, pg 8.
- 45) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - General Overview of Maternal Versus Terminal Breeding Programs. The Louisiana Cattleman, January, pg 28.
- 46) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Selecting Bulls to Improve Reproductive Performance in Their Female Offspring. The Louisiana Cattleman, February, pg 16.
- 47) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Louisiana Forage Bull Test Program Update, The Louisiana Cattleman. February, pg 27.
- 48) Chapman, H.D. and **R.P. Del Vecchio.** 1999. Selecting and Developing Replacement Heifers. Louisiana State University Agricultural Center, LCES Publication # 2739.
- 49) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner – Don't Underestimate the Importance of Selecting Quality Herd Sires. The Louisiana Cattleman, March, pg 40.
- 50) P. Morris and **R.P. Del Vecchio** 1999. Beef Cattlemen's Corner - Feeder Calf Grades, The Louisiana Cattleman, April, pg 38.
- 51) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Body Condition Scoring of Beef Cows. The Louisiana Cattleman, May, pg 19.
- 52) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Louisiana Forage Bull Test Program Test Year 1998-1999 Final Report. The Louisiana Cattleman, June, pg 12.
- 53) **Del Vecchio, R.P.** 1999. Phase X of the Louisiana Calf to Carcass Project. The Louisiana Cattleman, July, pg 18.
- 54) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Crossbreeding Versus Mixed-Breeding Programs. The Louisiana Cattleman, August, pg 23.

- 55) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Preconditioning Calves for Added Value. The Louisiana Cattleman, September, pg 18.
- 56) Chapman, H.D., G. Gentry, Jr., and **R.P. Del Vecchio**. 1999. Factors Affecting Reproduction in Beef Cattle. Louisiana State University Agricultural Center, LCES Publication # 2308.
- 57) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Cull Cow Selection. The Louisiana Cattleman, October, pg 12.
- 58) **Del Vecchio, R.P.**, P. Humes, D.G. Morrison, H.D. Chapman and W. Wyatt. 1999. Body Condition Scoring of Beef Cows. Louisiana State University Agricultural Center, LCES Publication, In Preparation.
- 59) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Stress Management of Cattle. The Louisiana Cattleman, November, pg 26.
- 60) **Del Vecchio, R.P.** 1999. Beef Cattlemen's Corner - Avoid Calving Problems. The Louisiana Cattleman, December, pg 20.
- 61) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Estrus Detection Methods and Artificial Insemination in Beef Cattle (Part 1). The Louisiana Cattleman, January, pg 6.
- 62) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Estrus Detection Methods and Artificial Insemination in Beef Cattle (Part 2) The Louisiana Cattleman, February, pg 14.
- 63) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Information Can Equal Dollars to Producers. The Louisiana Cattleman, March, pg 12.
- 64) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Breeding Soundness of Bulls. The Louisiana Cattleman, April, pg 12.
- 65) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - First Annual Louisiana Beef-Forage Short Course. The Louisiana Cattleman, May, pg 14.
- 66) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Using Implants in Beef Calves and Stocker Cattle. The Louisiana Cattleman, June, pg 12.
- 67) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Louisiana Forage Bull Test Program 1999-2000 Final Report. The Louisiana Cattleman, July, pg 16.
- 68) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - A Successful Debut for the First Annual Louisiana Beef-Forage Short Course. The Louisiana Cattleman, August, pg 16.
- 69) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Not Just Trash - Realizing More Value from Cull Animals. The Louisiana Cattleman, September, pg. 16.
- 70) **Del Vecchio, R.P.**, G.T. Gentry, D.F. Coombs and D.A. Hylan. 2000. Information based Programs are Invaluable to the Future Success of Beef Producers. Louisiana Agriculture, Fall 2000. pg 16.
- 71) Gentry, G.T., **R.P. Del Vecchio** and R.A. Godke. 2000. The Effect of Synchronization on Beef Cattle Estrus. Louisiana Agriculture, Fall 2000. pg 28.
- 72) Gentry, G.T., J. Lamb, **R.P. Del Vecchio**, B.M. Olcott and R.A. Godke. 2000. Synchronizing Beef Females for Artificial Insemination. Louisiana Agriculture, Fall 2000. pg 29.
- 73) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Developing Replacement Heifers to Maximize Reproductive Efficiency: Proper Nutrition and Growth. The Louisiana Cattleman, October, pg18.
- 74) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Developing Heifers to Maximize Reproductive Efficiency:

Understanding the Effects of Bull Exposure. The Louisiana Cattleman, November, pg 24.

- 75) **Del Vecchio, R.P.** 2000. Beef Cattlemen's Corner - Developing Heifers to Maximize Reproductive Efficiency: Measuring Pelvic Area to Manage Dystocia. The Louisiana Cattleman, December, pg 12.
- 76) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Reproductive Tract Scoring-A Method for Improving Reproductive Efficiency? The Louisiana Cattleman, January , pg 12.
- 77) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Overview of Maternal Versus Terminal Breeding Strategies. The Louisiana Cattleman, February, pg 20.
- 78) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Selecting Quality Herd Sires for Your Breeding Program. The Louisiana Cattleman, March, pg 32.
- 79) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Evaluation of Breeding Soundness of Potential Herd Sires. The Louisiana Cattleman, April, pg 32.
- 80) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Second Annual Louisiana Beef-Forage Short Course. The Louisiana Cattleman, May, pg 12.
- 81) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Body Condition Scoring of Beef Cows. The Louisiana Cattleman, June, pg 8.
- 82) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Louisiana Forage-Based Bull Test Program. The Louisiana Cattleman, July, pg 16.
- 83) Gentry, G.T., **R.P. Del Vecchio**, D. Faber, and R.A. Godke. 2001. The effect of prostaglandin F_{2α} (Lutalyse) on the behavioral estrus patterns in beef cattle. The Louisiana Cattleman, July, pg 5.
- 84) Chapman, H.D., K.M. Andries, J. Baldwin, D. Combs, **R.P. Del Vecchio**, D. Franke, L. Hannaman, C. Hutchison, S. Nicholson, E. Twidwell, K. Wegenhoft and J. Williams. 2001. Beef Cattle Production in Louisiana - A Handbook.
- 85) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Time to Consign your Calves to the Louisiana Calf to Carcass Program. The Louisiana Cattleman, August, pg 12.
- 86) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Ultrasound Use in Cattle Reproduction. The Louisiana Cattleman, September, pg 12.
- 87) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - Managing Pregnant-Dry Cows for the Upcoming Calving and Breeding Season. The Louisiana Cattleman, October, pg 20.
- 88) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - The Importance of Quality Drinking Water in Cattle Production, The Louisiana Cattleman, November, pg 6.
- 89) **Del Vecchio, R.P.** 2001. Beef Cattlemen's Corner - LCES Beef Cattle Educational Program Update, The Louisiana Cattleman, December, pg 12.
- 90) Gentry, G.T., **R.P. Del Vecchio**, D. Faber, and R.A. Godke. 2001. Estrual Behavior Patterns in Prostaglandin-Induced and Naturally Cycling Recipient Females from a Commercial Embryo Transfer Center. Louisiana State University AgCenter Beef Research Report, pg 5.
- 91) **Del Vecchio, R.P.**, and G.T. Gentry. 2001. Louisiana Calf to Carcass Program. Louisiana State University AgCenter Beef Research Report, pg 57.
- 92) **Del Vecchio, R.P.** 2001. Results from the Louisiana Forage Bull Test Program. Louisiana State University AgCenter Beef Research Report, pg 61.
- 93) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner - Preparation for the Upcoming Calving Season, The Louisiana

Cattleman, January 2002, pg 10.

- 94) Gentry, G.T., **R.P. Del Vecchio**, and R.A. Godke. 2002. The Effect of Different Types of Spotter Animals on Estrus and Pregnancy Rates after Artificial Insemination in Beef Cattle. The Louisiana Cattleman, February pg 18.
- 95) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner - Care and Management of the Newborn Beef Calf. The Louisiana Cattleman, February 2002, pg 16.
- 96) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner - Management Preparations for the Breeding Season. The Louisiana Cattleman, March 2002, pg, 14.
- 97) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner - Postpartum Management for Continued Reproductive Success. The Louisiana Cattleman, April 2002, pg, 16.
- 98) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner - Frame Score Determination for Bulls and Heifers. The Louisiana Cattleman, May 2002, pg, 8.
- 99) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner – 2002 Forage-Based Performance Bull Test Results. The Louisiana Cattleman, June 2002, pg, 6.
- 100) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner – Once Again It's Time to Consign your Calves to the Louisiana Calf to Carcass Program. The Louisiana Cattleman, July 2002, pg, 10.
- 101) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner – Weaning Strategies for Reduced Stress. The Louisiana Cattleman, August 2002, pg, 14.
- 102) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner – Stress Level and Temperament Influence Productivity. The Louisiana Cattleman, September 2002, pg, 14.
- 103) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner – Feedyards Look for Improvements in Feeder Cattle from the South. The Louisiana Cattleman, November 2002, pg, 12.
- 104) **Del Vecchio, R.P.** 2002. Beef Cattlemen's Corner – Delayed Castration versus Implanting Suckling Calves. The Louisiana Cattleman, December 2002, pg, 8.
- 105) **Del Vecchio, R.P.** 2003. Beef Cattlemen's Corner – Preparing Replacement Heifers for their First Breeding Season. The Louisiana Cattleman, January 2003, pg, 14.
- 106) **Del Vecchio, R.P.** 2003. Beef Cattlemen's Corner – Relationship between Cow Nutrition, Progeny Health and Carcass Quality. The Louisiana Cattleman, February 2003, pg, 6.
- 107) **Del Vecchio, R.P.** 2003. Vet's Voice – Postpartum Management for Continued Reproductive Success. The Gulf Coast Cattleman, February 2003, pg, 9.
- 108) **Del Vecchio, R.P.** 2003. Beef Cattlemen's Corner – Announcing Two Outstanding Educational Programs for Beef Producers to Participate. The Louisiana Cattleman, March 2003, pg, 10.
- 109) **Del Vecchio, R.P.**, and G.T. Gentry. 2003. The 2001-2002 Louisiana Calf to Carcass Program. Louisiana State University AgCenter Beef Research Report, pg In Press.
- 110) **Del Vecchio, R.P.** 2003. Results of the 200-2001 and 2001-2002 Louisiana Forage-Based Bull Test Program. Louisiana State University AgCenter Beef Research Report, pg In Press.
- 111) McMillin, K.W., **R.P. Del Vecchio**, and C.A. Perret. 2003. Study of Electronic Identification for Cattle and Beef through Marketing Channels. Louisiana State University AgCenter Beef Research Report, pg.
- 112) **Del Vecchio, R.P.** 2003. Beef Cattlemen's Corner – Are You Crossbreeding or Mix-Breeding? The Louisiana Cattleman, April 2003, pg 8.

- 113) **Del Vecchio, R.P.** 2003. Beef Cattlemen's Corner – Is Our Selection Pressure for Carcass Traits Adversely Affecting Maternal Traits? The Louisiana Cattleman, May 2003, pg 12.
- 114) **Del Vecchio, R.P.** 2003. Beef Cattlemen's Corner – Managing Heat Stress in Your Cattle is Critical. The Louisiana Cattleman, June 2003, pg 10.

Proceedings and Abstracts (All abstracts listed below were presented at scientific meetings)

- 1) **Del Vecchio, R.P.**, R.D. Randel, D.A. Neuendorff and L.A. Peterson. 1985. Effect of alfaprostol, lasalocid and once daily suckling on postpartum interval in Brahman and Brahman crossbred cattle. J. Anim. Sci. 61(Suppl. 1):420.
- 2) Randel, R.D., D.A. Neuendorff, **R.P. Del Vecchio** and L.A. Peterson. 1985. Effect of alfaprostol on postpartum reproductive efficiency in Brahman cows and heifers. J. Anim. Sci. 61(Suppl. 1):419.
- 3) **Del Vecchio, R.P.**, M.J. Guthrie and R.D. Randel. 1988. Oxytocin stimulated prostaglandin F₂α release in perfused postpartum bovine caruncular and intercaruncular uterine endometrial tissues. J. Anim. Sci. 66(Suppl. 1):402.
- 4) Chase, C.C., Jr., **R.P. Del Vecchio**, S.B. Smith and R.D. Randel. 1989. In vitro glucose metabolism by postpartum bovine uterine endometrial tissue. J. Anim. Sci. 67(Suppl. 1):372.
- 5) **Del Vecchio, R.P.**, C.C. Chase, Jr., P. Bastidas and R.D. Randel. 1989. Plasma 13, 14-dihydro-15-keto prostaglandin F₂α concentrations in response to oxytocin challenge on days 10, 20 and 30 postpartum in the bovine. J. Anim. Sci. 67(Suppl. 1):374.
- 6) **Del Vecchio, R.P.**, R.D. Randel and F.D. Tibbitts. 1989. Oxytocin-induced prostaglandin release from perfused bovine caruncular and intercaruncular uterine endometrial tissues on days 20, 30 and at first estrus postpartum. J. Anim. Sci. 67(Suppl. 1):59.
- 7) **Del Vecchio, R.P.**, R.G. Sasser and R.D. Randel. 1989. Effect of pregnancy-specific protein B on prostaglandin release by day 16 perfused bovine uterine endometrial tissue. J. Anim. Sci. 67(Suppl. 1):325.
- 8) Tibbitts, F.D., L. Formigli, **R.P. Del Vecchio**, W.D. Foote and R.D. Randel. 1989. A suggested role for mast cell heparin in prostaglandin synthesis in bovine endometrium. J. Anim. Sci. 67 (Suppl. 2):196.
- 9) Tibbitts, F.D., L. Formigli, **R.P. Del Vecchio**, W.D. Foote and R.D. Randel. 1989. A Suggested role for mast cell heparin in prostaglandin synthesis in bovine endometrium. J. Anim. Sci. Proceedings, Western Section 40:196.
- 10) **Del Vecchio, R.P.**, D.A. Neuendorff and R.D. Randel. 1990. Effect of oxytocin administration on plasma 13,14-dihydro-15-keto-prostaglandin F₂α concentrations in prepubertal heifers. J. Anim. Sci. 68(Suppl. 1):448.
- 11) **Del Vecchio, R.P.**, D.A. Neuendorff, R.C. Stahringer and R.D. Randel. 1990. Progesterone, estrogen and 13,14-dihydro-15-keto-prostaglandin F₂α concentrations during the onset of puberty in dairy heifers. J. Anim. Sci. 68(Suppl. 1):18.
- 12) **Del Vecchio, R.P.**, D.J. Matsas, T.J. Inzana and G.S. Lewis. 1991. Induced endometritis elevates prostaglandin F₂α metabolite concentrations in postpartum beef cows. J. Anim. Sci. 69(Suppl. 1):180.
- 13) **Del Vecchio, R.P.**, E.E. Custer, G.S. Lewis and W.E. Beal. 1992. Effects of progestogen treatment on changes in plasma 13,14-dihydro-15-keto-prostaglandin F₂α in prepubertal beef heifers challenged with oxytocin. J. Anim. Sci. 70(Suppl. 1):24.
- 14) **Del Vecchio, R.P.**, D.J. Matsas, S. Fortin and G.S. Lewis. 1992. Prostaglandin F₂α metabolite concentrations in postpartum dairy cows with endometritis. J. Anim. Sci. 70(Suppl. 1):250.
- 15) Thibodeaux, J.K., **R.P. Del Vecchio** and W. Hansel. 1992. The role of platelet derived growth factor (PDGF) in development of early bovine embryos. Biol. Reprod. 46(Suppl.1):76.

- 16) Thibodeaux, J.K., **R.P. Del Vecchio** and W. Hansel. 1992. Inhibition of inner cell mass (ICM) development with platelet derived growth factor (PDGF) antibodies. J. Reprod. Fertil. Abstract Series No. 9:21.
- 17) Thibodeaux, J.K., **R.P. Del Vecchio** and W. Hansel. 1992. Stimulation of development of in vitro fertilized bovine embryos with platelets. IX Ovarian Workshop, Serono Symposia, pg. 59.
- 18) **Del Vecchio, R.P.**, J.K. Thibodeaux, R.D. Randel and W. Hansel. 1993. Interactions between large and small bovine luteal cells in a perfusion culture system. J. Anim. Sci. 71(Suppl. 1):223.
- 19) **Del Vecchio, R.P.**, J.K. Thibodeaux and W. Hansel. 1994. Interactions between large and small bovine luteal cells collected during mid- and late stages of the estrous cycle. J. Anim. Sci. 72(Suppl. 1):80.
- 20) **Del Vecchio, R.P.**, J.K. Thibodeaux and W. Hansel. 1994. Effect of contact between large and small bovine luteal cells on progesterone secretion. J. Anim. Sci. 72(Suppl. 1):101.
- 21) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1994. Effect of pregnancy-specific protein B (PSPB) on bovine luteal cell progesterone production. J. Anim. Sci. 72(Suppl. 1):80.
- 22) **Del Vecchio, R.P.**, W.D. Sutherland and W. Hansel. 1994. Validation of a solid-phase enzymeimmunoassay for progesterone. CWSRB abstr. #6.
- 23) **Del Vecchio, R.P.**, W.D. Sutherland and T.R. Lewandoski. 1995. Effect of different cholesterol analogues on progesterone (P4) production by bovine luteal cells. CWSRB abstr. #8.
- 24) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1995. Bovine luteal cell progesterone, prostaglandin and oxytocin production in response to pregnancy-specific protein B (PSPB) and LH. J. Anim. Sci. 73:(Suppl. 1):87.
- 25) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1995. Effect of prostaglandin E₂ (PGE₂) and pregnancy-specific protein B (PSPB) on luteal cell progesterone (P4), prostaglandin F_{2α} (PGF_{2α}) and oxytocin secretion. J. Anim. Sci. 73:(Suppl. 1):91.
- 26) **Del Vecchio, R.P.**, W.D. Sutherland and R.G. Sasser. 1995. Progesterone, prostaglandin E₂ (PGE₂) and oxytocin secretion by cultured bovine luteal cells treated with prostaglandin F_{2α} (PGF_{2α}) and pregnancy-specific protein B (PSPB). J. Anim. Sci. 73:(Suppl. 1):216.
- 27) **Del Vecchio, R.P.** and W.D. Sutherland. 1996. In vitro prostaglandin and progesterone production by bovine luteal cells incubated in the presence or absence of accessory cells of the corpus luteum and treated with interleukin-1β, indomethacin and LH. J. Anim. Sci. (Suppl. 1):73.
- 28) **Del Vecchio, R.P.**, R.G. Sasser, W.D. Sutherland and T.R. Lewandoski. 1996. In vitro bovine luteal cell endocrine function in response to pregnancy-specific protein B. CWSRB Research Review III, 18th Annual Winter Workshop Proceedings pg 13.
- 29) **Del Vecchio, R.P.** and W.D. Sutherland. 1996. Progesterone and prostaglandin production by bovine luteal cells incubated in a perfusion culture system and treated with recombinant bovine interleukin-1β, LH and indomethacin. J. Anim. Sci. (Suppl 1):219.
- 30) **Del Vecchio, R.P.** and W.D. Sutherland. 1997. Effect of hydroxycholesterol (OHC) analogues on progesterone (P4) production by bovine luteal cells. J. Anim. Sci. (Suppl 1):228.
- 31) Fallah-Rad, A.H., M.L. Connor and **R.P. Del Vecchio**. 1997. Effects of transient neonatal hypothyroidism on testicular function, and serum concentration of metabolic and sex hormones in Suffolk ram lambs. J. Anim. Sci. (Suppl. 1):214.
- 32) **Del Vecchio, R.P.** and W.D. Sutherland. 1998. In vitro oxytocin (OT) and progesterone (P4) production by bovine luteal tissue incubated in a perfusion system and treated with prostaglandin F_{2α} (PGF). J. Anim. Sci. (Suppl. 1):234.
- 33) Hebert, M.C. and **R.P. Del Vecchio**. 1999. Lafourche parish select heifer sale. American Society of Animal Science-Southern Section Invited Presentation, Special Session Supplement. pgs 1-4.

- 34) Small, J.A., D.M. Veira, **R.P. Del Vecchio** and D.R. Ward. 1999. Strategies for finishing steers. Proceedings of the Agriculture Institute of Canada-Canadian Society of Anim. Sci. (AIC-CSAS) Annual Meeting, pg 247.
- 35) Small, J.A., **R.P. Del Vecchio**, W.P. McCaughey, D.R. Ward and W.D. Sutherland. 2000. The effects of bull exposure and lasalocid on pubescent estrus and timed AI conception rates in crossbred beef heifers. ASAS Mid-Western Section Meetings, J. Anim. Sci. 78(Suppl. 1):74.
- 36) Gentry, G.T., Jr., **R.P. Del Vecchio** and R.A. Godke. 2001. Effect of the presence of a male on the characteristics of estrus of synchronized and naturally cycling crossbred heifers. J. Anim. Sci. 79(Suppl. 2):3.
- 37) Gentry, G.T., B.M. Olcott and **R.P. Del Vecchio, R.P.** 2001. Ultrasound Use in Cattle Reproduction. Louisiana Beef-Forage Short Course Proceedings, pg 70.
- 38) Olcott, B.M., G.T. Gentry, G.T. and **R.P. Del Vecchio, R.P.** 2001. Breeding Soundness Examination of Herd Sires. Louisiana Beef-Forage Short Course Proceedings, pg 75.
- 39) Gentry, G.T., Jr, **R.P. Del Vecchio** and R.A. Godke. 2002. Use of the heat watch system to evaluate estrous behavior in teaser bull-exposed mature beef females. Theriogenology 57:377.
- 40) **Del Vecchio, R.P.** 2002. Retained ownership through the Louisiana Calf to Carcass Program. Louisiana Veterinary Medical Association Conference Proceedings. pgs. 85-97.
- 41) **Del Vecchio, R.P.** and D. Goodwin. 2003. Synchronization of estrus, estrus detection, and artificial insemination in beef cattle. Louisiana Beef-Forage Short Course Proceedings, pgs. 23-32.
- 42) Roberts, J.L, **R.P. Del Vecchio**, G.T. Gentry, Jr., D. Sanders, P.E. Humes and R.A. Godke. 2005. Effect of Melengestrol Acetate (MGA) and Monensin Supplementation on Puberty and Pregnancy Rates in Crossbred Beef Heifers. J. Anim. Sci. In Press.
- 43) **Del Vecchio, R.P.** Utilizing a forage-based program as an effective method for performance testing bulls in the southeast United States. J. Anim. Sci.(Suppl.): In Preparation.

Project and Grant Proposals (Funded Amounts are Shown):

- 1) Lewis, G.S. and **R.P. Del Vecchio**. 1989. Prostaglandin F Metabolite: Evaluation as an Indicator of Uterine Infection. Animal Health and Disease Program.
- 2) Lewis, G.S. and **R.P. Del Vecchio**. 1989. Uterine Infections: Can They be Detected Early? VA Cattle Industry Board.
- 3) **Del Vecchio, R.P.** and G.S. Lewis. 1989. Effects of Exogenous Progesterone on Uterine Prostaglandin F₂α, Prostaglandin E₂ and 6-keto-prostaglandin F₁α and Ovarian Oxytocin Release in Ewes During the Time of Expected Luteal Regression. Biomedical Research Support Grant Awards.
- 4) **Del Vecchio, R.P.** and G.S. Lewis. 1990. Effect of Exogenous Progestogen Treatment on Uterine Prostaglandin F₂α Release in Prepubertal Beef Heifers Challenged With Oxytocin. Biomedical Research Support Grant Awards.
- 5) **Del Vecchio, R.P.** and W.E. Beal. 1991. Effects of Progestogen and Oxytocin on Endometrial Prostaglandin F₂α Release in Prepubertal Heifers. Biomedical Research Support Grant Awards.
- 6) **Del Vecchio, R.P.**, W. Hansel, R.G. Kousoulas and R.A. Godke. 1991. Introduction of Foreign Genes into Bovine Corpora Lutea. Louisiana Education Quality Support Fund.
- 7) **Del Vecchio, R.P.**, J.K. Thibodeaux and W. Hansel. 1992. Identification of Apoptosis in Bovine Luteal Cells: A Potential Mechanism for Luteolysis. United States Department of Agriculture.
- 8) **Del Vecchio, R.P.** 1993. Enzymeimmunoassays: An Alternative to Radioimmunoassays for Quantitative Measurement of Hormones. Canadian Green Plan Organization. (\$35,000)

- 9) **Del Vecchio, R.P.** 1993. Uterine and Ovarian Interrelationships in Beef Heifers and Cows. Brandon Research Center Project Proposal # 93-01.
- 10) **Del Vecchio, R.P.** 1994. The Effect of Follicular Wave Number on Reproductive Efficiency of Cows and Heifers. Ontario Cattlemen's Association.
- 11) **Del Vecchio, R.P.** 1994. The Impact of Ovarian Follicular Wave Number During the Estrous Cycle on Reproductive Efficiency of Cows and Heifers. Alberta Cattle Commission.
- 12) **Del Vecchio, R.P.** 1996. Management of Heifers and Steers for Improved Production Efficiency. Brandon Research Center Project Proposal # 96-06.
- 13) **Del Vecchio, R.P.** and D. Earn. 1997. Evaluation of Liquavet LA: A Bioequivalence Study. Brandon Research Center and Dominion Veterinary Laboratories. (\$54,000)
- 14) **Del Vecchio, R.P.** and J. Leader. 1997. Evaluation of Biotin Supplementation on Hoof Health in Cattle. Brandon Research Center and Hoffman-La Roche, Animal Nutrition Group.
- 15) Kemp, R.A., J.P. Kastelic and **R.P. Del Vecchio**. 1997. Genetics of Early-Life Indicator Traits for Female Fertility and Reproductive Efficiency. Alberta Beef Industry Development Fund.
- 16) Kennedy, A.D., D.M. Veira, R.J. Christopherson, T.A. McAllister and **R.P. Del Vecchio**. 1997. Feeding Strategies to Reduce Winter Maintenance Energy Requirements of Feedlot Cattle. Alberta Beef Industry Development Fund. (\$313,646)
- 17) **Del Vecchio, R.P.** 1998-2002. Louisiana Calf to Carcass Program - Preconditioning Plan. Submitted to: Fort Dodge Animal Health, Elanco Animal Health, Cargill-Nutrena Feeds Division, Shering-Plough Animal Health and Pfizer Animal Health. (\$10,000 per year in product donation).
- 18) **Del Vecchio, R.P.** 1998-2002. Louisiana Forage Bull Test Program. Louisiana Department of Public Safety and Correction, Prison Enterprises, Fort Dodge Animal Health, Moorman Feeds, Lansco Nutritional Services and Merial Animal Health. (\$5,000 per year in product donation)
- 19) McMillan, K.W. and **R.P. Del Vecchio**. 2000. Identification of Cattle and Beef Through Production and Marketing Channels. USDA Federal-State Marketing Improvement Project. (\$60,675)
- 20) Gentry, G.T., Jr., **R.P. Del Vecchio**, B.M. Olcott and R.A. Godke. 2000/2001. A New Estrus Synchronization Protocol Utilizing no Heat Detection. Louisiana Beef Industry Council.
- 21) **Del Vecchio, R.P.** and G.T. Gentry. 2001/2002. Priming Effect of Melengestrol Acetate (MGA) on the attainment of Puberty and Subsequent Reproductive Performance of Beef Heifers. Louisiana Beef Industry Council.
- 22) **Del Vecchio, R.P.** 2002-2007. Effect of Modifying Management Techniques on Production Efficiency of Beef Heifers and Steers, Louisiana Agricultural Experiment Station (\$2,000 per year for 5 years).
- 23) **Del Vecchio, R.P.** and G.T. Gentry. 2002/2003. Effect of Age at Castration and Implant Use on Production Efficiency of Beef Steers. Louisiana Beef Industry Council.
- 24) **Del Vecchio, R.P.** and G.T. Gentry. 2002/2003. Priming Effect of Melengestrol Acetate (MGA) and Rumensin on the attainment of Puberty and Subsequent Reproductive Performance of Crossbred Beef Heifers. Louisiana Beef Industry Council.
- 25) **Del Vecchio, R.P.**, R.A. Godke and D.E. Sanders. 2003-2008. Development of Management Practices for Efficient Farmed Red Deer Production as an Alternative Livestock Species in South Louisiana. Louisiana Agricultural Experiment Station. (Approved, State Funds awarded \$5,000.00 per year for 5 years).
- 26) Elf, P.K. and **R.P. Del Vecchio***. 2003. Sex Differences in Yolk Hormone Levels during Development in the Leghorn

Chicken. Grant-In-Aid of Research, Artistry and Scholarship.

- 27) Elf, P.K. and **R.P. Del Vecchio***. 2004. Sex Differences in Yolk Hormone Levels during Development in the Leghorn Chicken. Grant-In-Aid of Research, Artistry and Scholarship.
- 28) **Del Vecchio, R.P. 2004.** Comparative Effectiveness of Aspen Bedding Pellets, Green Sawdust and Shavings as Bedding for Horses. Lone Tree Manufacturing, \$2,500.00.

* Cooperative Involvement

Teaching Experience:

- 1) University of Minnesota-Crookston, Course Title: Animal Anatomy and Physiology. Re-designed this course, serve as the head instructor. Responsibilities include everything from preparing and giving lectures and laboratory instruction, to making up and grading quizzes, worksheets and exams, keeping student's records, etc.
- 2) University of Minnesota-Crookston, Course Title: Animal Science Seminar. Re-designed this course, served as the head instructor. Responsibilities include everything from preparing and giving lectures and example seminars to grading papers and oral presentations, keeping student's records, etc.
- 3) University of Minnesota-Crookston, Course Title: Reproduction, AI and Lactation. Re-designed this course, serve as the head instructor. Responsibilities include everything from preparing and giving lectures and laboratory instruction to making up and grading quizzes, worksheets and exams, keeping student's records, etc.
- 4) Louisiana State University, Course Title: Reproductive Physiology. Developed this graduate level course, serve as the head instructor. Responsibilities include everything from preparing and giving lectures to making up and grading exams, keeping student's records, etc.
- 5) Louisiana State University, Course Title: Contemporary Issues. Guest lectured to students. Responsibilities include preparing and giving lectures and assisting in making up exams.
- 6) Louisiana State University, Course Title: Beef Production. Guest lectured to students. Responsibilities include preparing and giving lectures.
- 7) Louisiana State University, Course Title: Introduction to Animal Science. Guest lectured to students. Responsibilities include preparing and giving lectures.
- 8) Louisiana State University, Biology of Gametes and Embryos. Helped teach the laboratory portion of this graduate level course and gave guest lectures on research activities which dealt with ovarian cell culture systems and the development of an enzymeimmunoassay for quantitative hormone determination.
- 9) Assiniboine Community College, Course Title: Reproductive Physiology. Participated in the development of this course and served as the head instructor. Responsibilities include everything from preparing and giving lectures to making up and grading exams, keeping student's records, etc.
- 10) Virginia Tech University, Course Title: Sheep Management. Guest lectured on reproductive management of sheep and assisted in other aspects of teaching the course as mentioned above.
- 11) Texas A&M University, Course Title: Artificial Breeding of Livestock. Responsibilities included preparing and giving lectures, organizing and teaching laboratory portions of courses, making up, administering and grading exams and quizzes, keeping student records, answering student's questions during office hours, etc.
- 12) Texas A&M University, Course Title: Reproduction in Farm Animals. Responsibilities were similar to those above.

Invited Seminars/Presentations:

- 1) Graduate School Opportunities. 1989. Animal and Veterinary Science Career Day, Univ. of Rhode Island, Kingston.

- 2) Uterine Function in Cattle: Studies in Postpartum Endometritic Cows and Prepubertal Heifers. 1991. Virginia Polytechnic Institute and State University, Blacksburg.
- 3) Prostaglandin F₂α Metabolite Concentrations in Postpartum Endometritic Cows and Prepubertal Heifers. 1991. Louisiana State University, Baton Rouge.
- 4) Uterine Endocrine Function in Cattle: in Vivo and in Vitro Studies. 1991. New Mexico State University, Las Cruces.
- 5) Solid Phase Enzymeimmunoassays as an Alternative to Radioimmunoassays. 1992. Louisiana State University, Baton Rouge.
- 6) Evaluation of Prostaglandin F₂α Metabolite (PGFM) Concentrations as an Indicator of Uterine Infection. 1992. Agriculture & Agri-Food Canada Research Center, Brandon, Manitoba.
- 7) The Relationship Between Prostaglandin F₂α Metabolite Concentrations and Postpartum Endometritis in Cattle. 1993. University of Manitoba, Winnipeg.
- 8) Uterine and Ovarian Relationships in Beef Cattle. 1993. Agriculture & Agri-Food Canada Research Center, Brandon, Manitoba.
- 9) Improving Reproductive Performance in Heifers. 1994. Agricultural Extension Center, Brandon, Manitoba.
- 10) Enzymeimmunoassays for Quantitative Hormone Determination. 1994. Agriculture & Agri-Food Canada Research Center, Brandon, Manitoba. Technology Management Seminar.
- 11) Studies on Uterine and Ovarian Function in Cattle. 1994. Manitoba Cattle Producers Association. Brandon, Manitoba.
- 12) Understanding Uterine and Ovarian Function for Improved Reproductive Performance. 1994. National Young Canadian Beef Conference. Brandon, Manitoba.
- 13) An Overview of Current Research in Reproductive Physiology. 1995. Miniota and Area Beef Producers, Arrow River, Manitoba.
- 14) Current Research in Breeding and Genetics, Pasture-grazing Management and Reproductive Physiology. 1995. University of Manitoba Animal Science Students. Brandon, Manitoba.
- 15) Beef Cattle Reproductive Physiology Research Projects: Understanding Uterine and Ovarian Function. 1995. Beef Producers and Extension Representatives Meeting. Brandon, Manitoba.
- 16) Uterine and Ovarian Relationships in Reproduction. 1996. Biology Department, Quinnipiac College, Hamden, CT.
- 17) Beef Herd Efficiency - Reproductive Function. 1996. District 5 ADD Board Beef Producers and Saskatchewan Agriculture Representatives. Kenosee Lake, Saskatchewan.
- 18) In Vitro Bovine Luteal Cell Endocrine Function in Response to Pregnancy-specific Protein B. 1996. Invited review by the Canada West Society for Reproductive Biology. Vancouver, British Columbia.
- 19) Synchronization of Estrus in Cattle. 1996. Department of Animal Science, Delaware Valley College, Doylestown, Pennsylvania.
- 20) Application of Reproductive Physiology Research to a Systems Approach to Beef Production. 1996. Department of Animal Science, University of Florida, Gainesville, Florida.
- 21) Philosophy of Teaching. 1996. Department of Animal Science, University of Florida, Gainesville, Florida.
- 22) Effect of Pregnancy-Specific Protein B on Bovine Luteal Cell Endocrine Function. 1996. Department of Animal Science, University of Kentucky, Lexington, Kentucky.

- 23) Priority Areas in Reproductive Physiology/Reproductive Management of Beef Cattle. 1996. Department of Animal Science, University of Kentucky, Lexington, Kentucky.
- 24) Studies on Luteal Cell Interactions in Cattle. 1997. Department of Animal Science, North Carolina State University, Raleigh, North Carolina.
- 25) Beef Cattle Research Activities at the Brandon Research Center. 1997. Texas A&M University Agricultural Research and Extension Center, Overton, Texas.
- 26) The National, Regional and Future Outlook of the Cattle Industry. 1997. Louisiana State University, Baton Rouge, Louisiana.
- 27) Programming Areas for Louisiana Beef Cattle Producers. 1998. Louisiana Cooperative Extension Service, Presented at Over 35 County/Area Cattlemen's Association Meetings and Research Station Field Days.
- 28) Overview of Louisiana Calf to Carcass and Forage Bull Test Programs. 1998. Department of Public Safety and Corrections - Prison Enterprises National Conference/Meetings. Baton Rouge, Louisiana.
- 29) Extension Education Programming Areas for Louisiana Beef Cattle Producers. 1999. Louisiana Cooperative Extension Service, Presented at Numerous County/Area Cattlemen's Association Meetings and Field Days.
- 30) Lafourche Parish Select Heifer Sale. 1999. American Society of Animal Science-Southern Section Invited Presentation, Memphis, Tennessee.
- 31) Extension Education Programs for Louisiana Beef Cattle Producers. 2000. Louisiana Cooperative Extension Service, Presented at Numerous County/Area Cattlemen's Association Meetings and Field Days.
- 32) Louisiana Calf to Carcass Program. 2000. Fort Dodge Animal Health National Marketing Meeting, Colorado Springs, CO. (Invited Speaker for the Large Animal Division).
- 33) The Value of Basic Science Research. 2000. New Reproductive Technologies for the Livestock Producer Meetings, St. Gabriel, LA.
- 34) Current Evolution of the Louisiana Calf to Carcass Program. 2001. Louisiana Farm Bureau Federation Meetings. New Orleans, LA.
- 35) Numerous Presentations on Various Extension Educational Programs for Louisiana Beef Cattle Producers. 2001. Louisiana Cooperative Extension Service, Presented at Numerous County/Area Cattlemen's Association Meetings and Field Days.
- 36) The Louisiana Calf to Carcass Retained Ownership Program and Marketing on the Grid. 2001. McNeese State University, Lake Charles, LA
- 37) Retained Ownership Through the Louisiana Calf to Carcass Program. 2002. Louisiana Veterinary Medical Association Conference, Baton Rouge, LA
- 38) The Role of Steroidogenic and Nonsteroidogenic Luteal Cell Interactions in Regulating Luteal Endocrine Function. 2002. Physiology Department, University of Massachusetts, Worcester, MA.
- 39) Presentations on Various Topics Related to Beef Production. 2002. Louisiana Cooperative Extension Service Presented at Numerous County/Area Cattlemen's Association Meetings and Field Days.
- 40) Performance Testing Bulls on Forage-1998 to 2002 Results. 2002. The Louisiana Farm Bureau Federation Convention. New Orleans, LA.
- 41) Presentations on Various Topics Related to Beef Production. 2003. Louisiana Cooperative Extension Service Presented at Numerous County/Area Cattlemen's Association Meetings and Field Days.

- 42) Career Opportunities in Animal and Equine Science. 2004. Crookston Area Chamber of Commerce - Career Day 2004, University of Minnesota, Crookston.

Committee Memberships (Current and Previous):

- 1) Institutional Animal Care and Use Committee, University of Minnesota. Duties: review research proposals for adherence to animals use guidelines, perform site inspections of University animal facilities, etc.
- 2) Minnesota State Horse Committee. Duties: providing outreach such as updates on the MN horse industry, publishing relevant information for the horse owners; collaborate with others within the University of MN and industry clientele, etc.
- 3) University of Minnesota-Crookston, Curriculum Committee. Duties: reviewing and approving / not approving campus based curriculum changes, etc.
- 4) University of Minnesota-Crookston, Vice Chancellor of Enrollment Management Search Committee. Duties: position description development, advertisement, review of applicants, interviewing applicants, etc.
- 5) University of Minnesota-Crookston, Academic Coordination Committee. Duties: providing campus-wide leadership on issues concerning academic plans and appointments.
- 6) University of Minnesota-Crookston, Promotion and Tenure Committee (Department and Campus based committees). Duties: review of promotion and tenure document files for consideration as well as summarization of comments and recommendations.
- 7) University of Minnesota-Crookston, Course Fee Policy Committee. Duties: providing campus-wide leadership on issues concerning the inclusion of course fees, including evaluating individual requests.
- 8) University of Minnesota-Crookston, Chemistry Faculty Search Committee. Duties: position description development, advertisement, review of applicants, interviewing applicants, etc.
- 9) University of Minnesota-Crookston, Vice Chancellor of Academic Affairs Search Committee. Duties: position description development, advertisement, review of applicants, interviewing applicants, etc.
- 10) University of Minnesota-Crookston, Program Improvement Audit Committee – Equine Science, Chair. Duties: provide leadership in the discussion and possible implementation of ideas for improvement of the UMC Equine Science Program improvement.
- 11) University of Minnesota-Crookston, Program Improvement Audit Committee – Animal Science, Chair. Duties: provide leadership in the discussion and possible implementation of ideas for improvement of the UMC Animal Science Program improvement.
- 12) Louisiana State University, Animal Sciences Department Biotechnology and Awareness Team, Duties: educating field personnel, consumers and other faculty about biotechnology.
- 13) Louisiana State University, Animal, Dairy and Poultry 10-Year Planning Committee. Duties: development of a strategic plan to guide the AgCenter's research and extension animal, dairy and poultry programs.
- 14) American Society of Animal Science Education Awards Committee Member, 2000-2005. Duties: evaluation of applications and selection of the award recipient.
- 15) Louisiana State University AgCenter 2002 Annual Conference Awards Committee. Duties: Review and rank the nominees for three distinct awards.
- 16) Louisiana State University, Best Management Practices Committee-Beef, Co-Chairman. Duties: To develop the best management practice for beef producers in Louisiana.
- 17) Louisiana State University Ag Center Beef Advisory Committee, Co-Chairman. Duties: As Co-Chairman, I assist in coordinating regular meetings among beef industry members to identify and address the needs of beef cattle

producers in Louisiana.

- 18) Louisiana State University, Graduate College - Dean Representative, Duties: Serve as the Deans= Representative on a Ph.D. student=s graduate committee at the LSU College of Veterinary Medicine.
- 19) Louisiana State University Ag Center Response Committee to the USDA/EPA Draft Unified National Strategy on Animal Feeding Operations. Duties: To formulate an appropriate response to the aforementioned proposal.
- 20) Louisiana State University Research Station Field Day Organization Committee. Duties: To plan, organize and implement research station field days and tours for producers and the general public.
- 21) Louisiana Calf to Carcass Committee, Chairman. Duties: As Chairman, I am responsible for the overall supervision of the Calf to Carcass Program.
- 22) Louisiana Forage Bull Test Committee, Chairman. Duties: As Chairman, I am responsible for the overall supervision of the Forage Bull Test Program.
- 23) Louisiana State University Beef Research Advisory Committee. Duties: Ensure that the research being conducted has strong scientific merit and is applicable.
- 24) Louisiana State University Forage Research Advisory Committee. Duties: Ensure that the research being conducted has strong scientific merit and is applicable.
- 25) Louisiana State University Animal Science-Livestock Specialty Committee. Duties: Provide guidance and training to personnel who are pursuing additional training in a specialty area.
- 26) Louisiana State University Beef-Forage Short Course Committee. Duties: Chairman of beef program development.
- 27) Brandon Research Center Management Committee. Duties: As the Beef Program Leader, I represented the beef cattle research programs on the Research Center's Management Committee.
- 28) Brandon Research Center Laboratory Committee, Chairperson. Duties: General supervision over the Research Center's Animal Science laboratory operations.
- 29) Brandon Research Center Animal Care Committee. Duties: Ensure that research animals are cared for in accordance with the Canadian Council on Animal Care Guidelines.
- 30) Brandon Research Center Library Committee. Duties: I served as a representative of the beef cattle program in all issues related to purchasing of books, journal subscriptions, employment of term positions, etc.
- 31) Brandon Research Center Ad Hoc Laboratory Renovation Committee. Duties: To coordinate laboratory renovations and space allocations to accommodate expanding research activities.
- 32) Brandon Research Center Search Committees, Chairperson. Duties: I served to oversee the staffing of numerous positions within the beef program such as new scientists, beef foreman, research technicians, general laborers, etc.

Requested Reviewer:

Journals:

- 1) Journal of Animal Science, Editorial Board Member, 1993-1996; Invited Reviewer
- 2) Canadian Journal of Animal Science, Invited Reviewer
- 3) Prostaglandins, Invited Reviewer
- 4) Reproduction Fertility and Development, Invited Reviewer
- 5) Theriogenology, Invited Reviewer

- 6) American Journal of Reproductive Immunology, Invited Reviewer
- 7) Louisiana State University, Peer Review of Scientific Manuscripts
- 8) United States Department of Agriculture, Peer Review of Scientific Manuscripts
- 9) Agriculture & Agri-Food Canada Research Center, Peer Review of Scientific Manuscripts

Research Grants:

- 1) United States Department of Agriculture Enhancing Reproductive Efficiency Program, part of the National Research Initiative Competitive Grants Program.
- 2) United States Department of Agriculture Small Business Innovation Research Program.
- 3) Binational Agricultural Research and Development Fund.
- 4) Louisiana State University, Peer Review of Competitive Research Grants.
- 5) Agriculture & Agri-Food Canada Research Center, Brandon, Manitoba. Competitive Research Grants.
- 6) The Alberta Agricultural Research Institute, Alberta Beef Industry Development Fund Research Proposals, Edmonton, Alberta.

List of References:

Available upon request.