

## **PAUL E. MENNICK, DVM**

**Owner, Pacific International Genetics, 25725-68<sup>th</sup> Ave., Los Molinos, CA 96055  
Telephone (530) 529-0703, facsimile (530) 529-1698, pager (530) 899-6327, e-mail  
[pacintgen@worldnet.att.net](mailto:pacintgen@worldnet.att.net), website [www.pacintgen.com](http://www.pacintgen.com).**

**Located 9 miles southeast of Red Bluff, the facility consists of 72 acres designed for the housing and breeding of farm animals. Adjacent to the 10,000 acre Dye Creek Preserve, it has 70 acres of irrigated pasture with many large shade trees and numerous paddocks and smaller pens having high-quality custom fence. Five stallion pens of about a half acre of pasture each are double-fenced from one another and each has a 16x16 foot stall. Most paddocks have six foot fencing; the special "Olympic Paddock" has 7.5 foot fencing. The facility has been USDA inspected and approved as a quarantine facility for semen export and serves as one of the three national genetic storage banks for the American Livestock Breeds conservancy. Primary services include the diagnosis and treatment of fertility problems, stallion and broodmare management, monitored parturition, bull breeding soundness examinations, semen shipping and cryopreservation, embryo transfer and cryopreservation, bovine and caprine laparoscopic AI and ET, import and export services and canine ovulation timing.**

### ***EDUCATION***

**DVM, University of California at Davis School of Veterinary Medicine (Equine Track), June, 1985**

**BA, Biology, Highest Honors, university of California at Santa Cruz, June, 1979  
Honors awarded senior thesis research project, "A Study of the Truman Meadows and While Mountain Wild Horse Populations of California and Nevada with an Analysis of Hoof Condition and the Incidence of Lameness in Wild horses Captured by the Bureau of Land Management.**

### ***AFFILIATIONS / LICENSES***

**California Veterinary Medical Association  
American Association of Equine Practitioners  
Society for Theriogenology – Frozen Semen Committee  
American Livestock Breeds Conservancy – Board of Directors 1996-98  
American Senepol cattle Breeders Association  
Active veterinary licenses in California and Oregon  
Inactive licenses in Washington and New Zealand**

### ***WORK EXPERIENCE***

**Owner, Pacific International Genetics, June 1988 to Present**

**Seasonal Associate, Briarwood Equine Clinic, Portola Valley, California, April-September, 1987. Ambulatory work consisting of small breeding farms, boarding stables, training centers and "backyard" horses. Cases included Ehrlichiosis, enteroliths, renal calculi and severe impactions.**

**Seasonal Associate, Dr. Jon Greathead and Associates, Muswellbrook, N.S.W. Australia, September 1987 – February 1988. Seven-doctor multispecies hospital**

**in Hunter Valley with full surgical facilities for small and large animals. Primary responsibility for one Standardbred and one Thoroughbred farm breeding about 160 mares; shared responsibility for Carrington Stud, breeding over 200 mares to five Thoroughbred stallions, including Zephyr Bay, Twig Moss and Tate Gallery. Cases included CID, NMS, chronic seminal vesiculitis and the successful management of chronic infertility (seven years) in a famous race mare (Leilani).**

**Season Associate, Ballard Canyon Equine Practice, Los Olivos, California, May – September 1986. Ambulatory, breeding farm and surgical clinic work including assistance with anesthesia and surgery and in-house intensive care. Cases included splenic fracture with secondary DIC, metaldehyde poisoning, hemospermia, mycotic pneumonias and mycotic corneal infections.**

**Resident Veterinarian, Nevele R Stud, Christchurch, New Zealand, September – March breeding seasons, 1985-86 and 1986-87. Largest horse breeding farm in Australasia and one of the ten largest in the world. Responsible for the reproductive management of over 1100 Standardbred mares, 750 foals and eight stallions by artificial insemination. Achieved and 82.8% live-foaling rate after the first season. Worked closely with Professor C.H.G. Irvine of nearby Lincoln College on various research projects and assisted with the practical laboratory training sessions of the annual New Zealand AL course and Certification program. Cases included periparturient aortic rupture, hepatic failure, neonatal isoerythrolysis, hypothermia, uterine prolapse, granulomatous enteritis and both XO and XY sex-reversal syndromes.**

## ***CONSULTATION / SPECIAL PROJECTS***

**Hamilton-Thorn Research, November 1999. Special consultation with their Head of Research and Development at our facility to assist with improving software and user-compatibility of the IVOS Sperm Mobility Analyzer.**

**Rocky Mountain Warmbloods, Encinitas, California, October and November 1999. Reproductive consultation on semen shipping and special extenders for four Warmblood stallions including a member of the U.S. Equestrian team; provided consultation on the use of the Hamilton-Thorn Sperm Motility Analyzer and assisted with the design and setup of a new breeding laboratory.**

**Juan Romero Huxley and Bilberto Romero, Rancho Las Nutria, Monterrey, Mexico, May and June 1998. Reproductive and nutritional management of a group of ten Andalusian mares for insemination with frozen semen reported from France. Advance consultation regarding stock design; provided ultrasound and microscope equipment, purchased supplies and inseminated the mares as appropriate. Performed castrations and hernia repair, froze semen from several Charolais bulls, performed penile deviation/teaser bull surgeries, diagnosed congenital epididymal apiasia and testicular atrophy in one bull and performed over one hundred pregnancy examinations. Provided consultation on foaling, barn design and overall nutritional management and arranged for shipping of a feed additive for fly control from California.**

**Andrology Laboratory Services, Inc., Chicago, Illinois, Ongoing consultation beginning December 1997. Provide advice for the development of techniques to successfully cryopreserve semen from the endangered White Rhinoceros and develop better laboratory methods to preserve epididymal sperm shipped from recently deceased or euthanized donors from around the world.**

**Oasis Genetics, Hermiston, Oregon, December 1996-February 1997. perform bull collections, semen freezing work and Breeding Soundness Examinations at the only such facility in the Pacific Northwest during an ownership transition. Hired Dr. Donald Peter, Diplomat of the American College of Theriogenologists, to permanently operate the facility and custom-designed a replacement bovine reproduction facility.**

**Dr. Danilo Cianzio and Dr. John Fernandez-Van Cleve, College of Agriculture, University of Puerto Rico, Mayaguez, January and February 1996. Diagnosed Leptospirosis as the probable cause of sporadic abortions in a research herd of Senepol cattle, performed BSE's on herd bulls, trained one graduate student in methods of bovine semen cryopreservation and assisted with teaching undergraduate wet-labs in bovine reproduction.**

**Hawkeye Breeders Service, Adel, Iowa, October 1995. Assisted attending veterinarian with diagnosis and management of vesiculitis in bulls.**

**Joan Irvine Smith, "The Oaks", San Juan Capistrano, California, October 1993 – February 1994. Consulted regarding breeding laboratory design and setup, purchased all equipment and supplies, set up a complete AL, chilled semen and semen cryopreservation lab, trained the attending veterinarian to perform cryopreservation procedures on both semen and embryos, froze semen from 14 Hoistenier stallions and assisted with production of a promotional videotape.**

**Cascade Cashmere, Co., Silver Creek, Washington, May-December 1990. Embryo transfer veterinarian for an SBIR Grant project with imported and transferred about 750 frozen goat embryos from Tasmania and implanted them into recipients in five states. Assisted with embryo import, vasectomized 18 teaser bucks, thawed, prepared and transferred embryos via laparoscope.**

**Tasmanian harness Racing Council, December 1989 – January 1990. Consultant on the scientific and recordkeeping aspects of chilled equine semen transport.**

**Dr. Bonnie Buntain DVM, Waimanalo, Hawaii, January 1989. Assisted Hawaii's only Board Certified equine practitioner in her daily rounds as she recovered from a leg fracture.**

**Dr. John Turner, Physiology Department, Medical College of Ohio, summer of 1989. Provided consultation and assistance with field research on horseback in my original feral horse study area to a researcher investigating methods of population control.**

## **PRESENTATIONS**

**Equine Semen Cryopreservation, An Update, Society for Theriogenology Annual Conference, September 19, 1997, Montreal, Quebec, Canada.**

**“Techniques in Canine Artificial Insemination and Equine Embryo Transfer”, Central California Veterinary Medical Association Dinner Meeting, September 9, 1997, Fresno, California.**

**Alberta Veterinary Medical Association two-day seminar on Equine Reproductive Management Utilizing Fresh-chilled and Frozen Semen, including wet-labs, February 28 and March 1, 1997, Spruce Meadows, Calgary, Alberta, Canada.**

**“Modern Reproductive Technologies to Preserve genetic Diversity”, A workshop on Genetic Management of horse and Donkey Breeds, sponsored by the American Livestock breeds Conservancy and the Kentucky Horse park, June 29, 1996, Lexington, Kentucky.**

**“A Veterinary Practitioner’s Current Perspective of Cattle and Horse Reproduction”, seminar at the College of Agriculture, University of Puerto Rico, Mayaguez, Puetro Rico, February 13, 1996.**

**“Cryopreservation of Germ Cells and Embryos in Livestock Conservation”, Third Global Conference on Conservation of Domestic Animal Genetic Resources, sponsored by Agriculture Canada and Rare Breeds International, August 3, 1994, Kingston, Ontario, Canada.**

**“Freezing and Utilization of Stallion and Jack Semen”, Society for Theriogenology Annual Conference, August 11, 1991, San Diego, California.**

**“Practical Short Course in Equine Semen Freezing and Embryo Transfer Technology”, co-taught by Robert A. Godke Jr. BS MS PhD, Past-President International Embryo Transfer Society and Professor of Reproductive Physiology, Louisiana State University, Baton Rouge. Two day courses given: December 9-10, 1989, at Animal Genetic Services Ltd. And Treehaven Equestrian Centre, Morington, Victoria, Australia.**

**December 20-21 at Ambreed NZ Ltd., South Island Breeding Centre, Kaiapoi, New Zealand.**

**Several custom courses over the years including two courses (1997 and 1999) of five to eleven days to U.S. and Canadian veterinarians in our unique methods of equine semen cryopreservation; a custom course for a Board-Certified professor from a University in Kentucky on surgical embryo transfer in goats; a custom course in canine reproduction and semen freezing for a technician from Portugal; bovine embryo transfer courses to technicians and veterinarians from the U.S., Mexico and Australia; and custom training in semen collection and processing for several clients.**

## **PUBLICATIONS**

**“DR. Paul Mennick, Frozen Semen”, and interview with Arabian horse World (1996) 36 (4) 458-480.**

**“Changes in Plasma Progesterone concentrations from Days 17 to 42 of Gestation in mares maintaining of Losing Pregnancy”, Equine Veterinary Journal (1990) 22 (2) 104-106. Coauthored with C.H. G. Irvine, P. Sutton, and J.E. Turner.**

**“CID” (research portion), Arabian Horse World (1986) 26 (7) 328-335.**

**“Nutrition”, Arabian Horse World (1985) 25 (7) 350-352.**

**“Stud Management” (portion), Arabian Horse World (1984) 24 (4) 417-425.**

**“Piroplasmosis”, Arabian Horse World (1984) 24 (2) 226, 486-500.**

**“Current Developments in Embryo Transfer, Arabian Horse World (1984) 23 (12) 431-433.**

## **CONTINUING EDUCATION**

- 1999 - Society for Theriogenology Annual Conference, Nashville, Tennessee, September 24-26, 19 hours.**
- **Society for Theriogenology, Semen Cryopreservation Symposium, Nashville, Tennessee, September 22-24, 18 hours.**
  - **American Association of Bovine Practitioners Annual Convention, Nashville, Tennessee, September 22-25, selected presentations, 4 hours.**
- 1997 - Society of Theriogenology Annual Conference, Montreal, Quebec, Canada, September 17-20, 21 hours.**
- **Society for Theriogenology Canine Male Reproduction Symposium, Montreal, Quebec Canada, September 16-17, 20 hours.**
- 1996 - American Embryo Transfer Association Annual Convention, Portland, Oregon, October 17-19, 12 hours.**
- **Society for Theriogenology Annual Conference, Kansas City, Missouri, August 15-17, 18 hours.**
  - **Society for Theriogenology Swine Reproduction Symposium, Kansas City, Missouri, August 13-15, 13 hours.**
- 1995 - American Association of Bovine Practitioners Annual Conference (portion), San Antonio, Texas, September 16-17, 6.5 hours.**
- **Society for Theriogenology Annual Conference, San Antonio, Texas, September 13-15, 15.5 hours.**
  - **Society of Theriogenology Bovine Short Course, San Antonio, Texas, September 12-13, 14 hours.**

- **25<sup>th</sup> Anniversary UC Davis VMTH Continuing Education Seminar, Davis, California, August 12, 6 hours.**
  - **Equine Practitioner's Nutrition Short Course, Modesto, California, January 24, 6 hours.**
- 1994 - Society for Theriogenology Annual Conference, Kansas City, Missouri, August 25-27, 17 hours.**
- **Society for Theriogenology, Small Ruminant Short Course, Kansas City, Missouri, August 24-25, 13.5 hours.**
- 1993 - Society for Theriogenology Canine Short Course, Jacksonville, Florida, August 15-16, 13 hours.**
- **Society for Theriogenology Annual Conference, Jacksonville, Florida, August 12-14, 19.5 hours.**
  - **AB Technology Embryo Sexing Seminar, Hughson, California, July 15, 3 hours.**
- 1992 - American Association of Equine Practitioners Annual Convention, Orlando, Florida, November 29-December 2, 30.5 hours.**
- **Society for theriogenology Annual Conference, San Antonio, Texas, August 13-15, 14 hours.**
  - **Society for theriogenology Equine Short Course, San Antonio, Texas, August 10-12, 14.5 hours.**
- 1991 - American Association of Equine Practitioners Annual Convention, San Francisco, California, December 1-4, 30 hours.**
- **4<sup>th</sup> Annual UC Davis Symposium on Advances in Clinical Veterinary Medicine, Davis, September 21-22, 6 hours.**
  - **Society for Theriogenology Annual Conference, San Diego, California, August 10-11, 14.5 hours.**
- 1990 - 3<sup>rd</sup> Annual US Davis Symposium on Advances in Clinical Veterinary medicine, Davis, California, September 22-23, 6 hours.**
- **2<sup>nd</sup> International Conference on Boar Semen Preservation, Beltsville, Maryland, August 19-22, 26 hours.**
- 1989 - Society for Theriogenology Annual Conference, Couer d'Alene, Idaho, September 28-30, 13 hours, plus one-day side trip to University of Idaho to discuss current research on accessory sex-gland function and oviductal embryonic transport with Dr. James Weber and Dr. Doug Freeman.**
- **2<sup>nd</sup> Annual Veterinary Clinical research Symposium, Davis, California, September 23-24, 8 hours.**
  - **2<sup>nd</sup> International Symposium on Equine Embryo Transfer, Banff, Alberta, Canada, February 1-5, 16 hours.**
  - **International Embryo Transfer Society Annual Convention, San Diego, California, January 15-17, 18 hours.**

- 1988 - American Association of Equine Practitioners Annual Convention, San Diego, California, December 3-6, 28 hours.**
- **American Embryo transfer Association Annual convention, Reno, Nevada, October 27-29, 12 hours.**
  - **First Annual Veterinary Clinical Research Symposium, Davis, California, September 24-25, 8 hours.**
  - **Riverina Artificial Breeders, Albury, N.S.W., Australia, February 12. Personal instruction in the details of collecting, freezing, handling and thawing of bovine semen for export.**
  - **Maquarie Artificial breeders, Dubbo, N.S.W., Australia, January 19 & 22. Personal instruction in the details of collecting, freezing, handling and thawing of ovine semen; and in the laparoscopic method of ewe insemination using frozen-thawed semen.**
- 1987 - Hunter Valley Equine Research Foundation, Hoof Problems Seminar, Hunter Valley N.S.W., Australia, November 14-15, 16 hours.**
- **Society for Theriogenology Annual Conference, Austin, Texas, September 16-18, 17 hours.**
- 1986 - American Veterinary Medical Association Annual Convention, Atlanta, Georgia, July 20-24, 26.5 hours.**
- **Green Hills Farm/Performance Horse International, Aiken, South Carolina, July 18-19. Personal instruction in the details of freezing, handling and thawing of equine semen using the “Colorado” and “German” methods.**
  - **Hunter Valley Stud Medicine Symposium, Sydney University Post-Graduate Foundation in Veterinary Science, hunter Valley, N.S.W., Australia, March 15-16, 12 hours.**