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EDUCATION

- Post-Doc** (2000-01) **Physiology**, Karl-Franzens-University Graz, Austria, Department of Physiology, School of Medicine and the Department of Exercise Science, Graz, Austria
- PhD** (1987) **Applied/Exercise Physiology** (Mentor: R. Donald Hagan, Ph.D., FACSM)
Texas College of Osteopathic Medicine, University of North Texas Health Science Center, Ft. Worth, Texas.
Higher Education Administration (Mentor: James Miller, Dean)
University of North Texas, Denton, Texas
- 1977-80 **Exercise Physiology** (Mentor: Herbert A. deVries, Ph.D., FACSM)
University of Southern California, Los Angeles, CA (ABD, financial exigency)
- MS** (1977) **Physical Education**
State University of New York, College at Cortland, NY
- BS** (1974) **Physical Education and German**
State University of New York, College at Cortland, NY
- Diploma** (1972) **Physical Education and Sport Science**
Deutsche Sporthochschule, Köln, Germany
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Books published or In Progress):

1. **Linda M. LeMura and Serge P. von Duvillard (Editors)**

"Clinical Exercise Physiology: Application and Physiological Principles".

Lippincott, Williams & Wilkins, Publishers, **ISBN: 0-7817-2680-8** (649 pages and 200 illustrations). **Textbook published in January 2004.**

2. **von Duvillard, Serge P., Editor (In Preparation).**

"Testing, Training and Performance in Nordic and Alpine Skiing: An International Perspective"

with contributions from: Erich Müller and, Elmer Kornexl (Austria), Carmelo Bosco (Italy), Per Tesch and Hans Berg (Sweden), Joachim Mester (Germany), Paavo Komi (Finland), Bengt Saltin (Denmark), Robert Hintermeister, David Bacharach and others.

3. Serge P. von Duvillard, Roberst Delia, Ralph Beneke and Renate Leithäuser, Authors (In Preparation)

"Common Biochemical Assays in Exercise Physiology"

(Lippincott Willaims and Wilkins Publishers)

4. von Duvillard, Serge P. (Editor)

"Blood Lactate: Testing, Training and Performance in Sports".

(To be published in 2005) Sports Resource Group Publishers, New York.

Publications:

Scientific Literature

Book Chapters

1. **Serge P. von Duvillard** and William Knowles, Part Two: Fitness Testing and Training in Skiing: *"Relationship of anaerobic performance tests to competitive alpine skiing events"* In **Science in Skiing**; E. Müller, H. Schwameder, E. Kornexl and C. Raschner (Editors). E & FN Spon, Chapman and Hall Publisher, London, 1997, pp 297-308.
2. **Serge P. von Duvillard**, David W. Bacharach and Kenneth W. Rundell. *"Biomechanics of Alpine and Nordic Skiing"* in **Textbook of Sports Medicine** (William E. Garrett and Donald T. Kirkendall, editors). William and Wilkins Publishers, Baltimore, MD, 2000, Chap. 40, pp. 617-637.

3. **Serge P. von Duvillard**, Peter Hofmann, Günther Schwabegger, Rochus Pokan, Nanna Meyer, and Wolfgang Rausch. *Metabolic changes resulting from a series of consecutive supra-maximal laboratory tests in competitive alpine ski racers*. In ***Science in Skiing II***; E. Müller, H. Schwameder, C. Raschner, S. Lindinger and E. Kornexl (Editors). Dr. Kovac Publisher, Hamburg, Germany; pp 469 – 479, 2001.
4. Peter Hofmann, **Serge P. von Duvillard**, Nanna Meyer, Günther Schwabegger, Heimo Traninger, Christian Leitner, Rochus Pokan. *EMG, power and blood potassium changes resulting from a series of consecutive supra-maximal laboratory tests in competitive alpine ski racers*. In ***Science in Skiing II***; E. Müller, H. Schwameder, C. Raschner, S. Lindinger and E. Kornexl (Editors). Dr. Kovac Publisher, Hamburg, Germany; pp 458 – 468, 2001.
5. Nanna L. Meyer, Stephen C. Johnson, E. Wayne Askew, **Serge P. von Duvillard**, Peter Hofmann, Ronald W. Kipp, and Melinda M. Manore. *Nutritional Issues in Alpine Ski Racing during the Preparatory Phase*. In ***Science in Skiing II***; E. Müller, H. Schwameder, C. Raschner, S. Lindinger and E. Kornexl (Editors). Dr. Kovac Publishers, Hamburg, Germany; pp 620-632, 2001.
6. **Serge P. von Duvillard**. *Oxygenation and deoxygenation of thigh muscle tissue during isometric and dynamic exercise in junior male and female competitive alpine ski racers*. In ***Science of Skiing III***. Erich Müller, David W. Bacharach, Riggs Klika, Stefan Lindinger, Hermann Schwameder (Editors). Oxford-Meyer & Meyer Sport (UK) Ltd (ISBN 1-84126-177-7) Published in 2005.
7. **Serge P. von Duvillard**. *Blood lactate in Competitive Alpine Ski Racing*. In ***“Blood Lactate: Testing, Training and Performance in Sports”***. Serge P. von Duvillard, (Editor). Publisher Sports Resource Group, New York (In Press)
8. **Serge P. von Duvillard** and R. Larry Durstine. *Chapter 3: Utilization of Fats in Energy Production*. In ***“Sports Nutrition: Energy Metabolism and Exercise”***, Ira Wolinsky and Judy A. Driskell, Editors, Taylor & Francis, UK, CRC Series Books

Manuscripts in Journal Supplements

9. Theresa Nicklas, **Serge P. von Duvillard**, Gerald S. Berenson. *“Tracking of serum lipids and lipoproteins from childhood to dyslipidemia in adults: The Bogalusa Heart Study”* (Willem van Mechelen and Han C.G. Kemper, Editors). In: ***“Longitudinal studies from youth into adulthood: Is youth lifestyle relevant for adult health?”*** ***International Journal of Sports Medicine Supplement*** 23:39-43, 2002.
10. Peter Hofmann, **Serge P. von Duvillard**, R. Pokan. *Prediction of maximal lactate steady by turn point concepts*. ***European Journal of Applied Physiology*** (In Press).

11. Rochus Pokan, Peter Schmid, **Serge P. von Duvillard**, Peter Hofmann. *Performance diagnostics in cardiovascular diseased patients. European Journal of Applied Physiology* (In Press).
 12. Andrea Rohrer, Rochus Pokan, **Serge P. von Duvillard**. *Aspects of performance diagnostics in heart transplant patients. European Journal of Applied Physiology* (In Press).
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Refereed manuscripts (published, in press, or in review) in reverse order:

13. **von Duvillard, S.P.** (1983) *Training Periods, Training Cycles and Intensity in Competitive Alpine Skiing. Journal of Professional Ski Coaching and Instruction*, 1983; Sept.: 57-59.
14. **von Duvillard, S.P.** (1983) *Anabolic Steroids. Texas Coach*, 1983; Nov.: 54-55.
15. **von Duvillard, S.P.**, (1984) *Basic Physiology of Skeletal Muscle Contraction. Texas Coach*.
16. **von Duvillard, S.P.** (1984) *Training and Work-out Methods in Competitive Alpine Skiing. Journal of Professional Ski Instruction*, 1984; Sept.:32-36.
17. **von Duvillard, S.P.** (1986) *Important Technical and Tactical Foundations of the Soccer Game. Journal of the United States Soccer Coaches Association*.
18. **von Duvillard, S.P.** (1988) *Lactate Threshold: An Important Training Concept in Competitive Alpine Skiing. American Ski Coach*, 1988;3: 33-34.
19. **von Duvillard, S.P.**, Luszinski, J. (1989) *Anabolic Steroids. NIS Scientific Journal*, India, 1989;Vol.124:15-22
20. **von Duvillard, S.P.**, Moses, K.A. (1989) *Anaerobic Threshold: Review of Current Concepts and Trends. NIS Scientific Journal*, India, 1989;Vol. 23:1-12.
21. **von Duvillard, S.P.**, Jones K., Vetro, V., Flynn, D. *Plyometrics. NIS Scientific Journal*, India. 1989; Vol. 23:4:1-10.
22. **von Duvillard, S.P.**, Heidel, K., Shola, J. *Massage. NIS Scientific Journal*, India. 1989;Vol. 23:31-39.
23. LeMura, L. M., **von Duvillard, S. P.**, Bacharach, D. W. *Central vs. Peripheral Adaptations for the Enhancement of Functional Capacity (FC) in Cardiac Patients: A Meta-Analytic Review. Journal of Cardiopulmonary Rehabilitation*, Vol 6;(1990) 217 - 223.
24. **von Duvillard, S.P.**, Redman, D., Newman, A. *Nutrition in the Restorative Cycle. The American Ski Coach*, 1990;Vol.6:36-38.

25. **von Duvillard, S.P.** *Plyometrics. Scholastic Coach*, 1990;Vol 58:80-81.
26. von Duvillard, S. P., L.M. Le Mura, Schachte, M., Cestero, I.E. The Importance of Dietary Carbohydrate to the Endurance Athlete Involved in the High-Intensity Training and Competition. *Journal of Applied Research in Athletics and Conditioning* (1990);1:183-199.
27. Rowland, T.W. and von Duvillard, S. P. Exercise Cardiac Contractility in Men and Boys; A Recovery Echocardiographic Study. *International Journal of Sports Medicine*, Vol 11, No 4, pp 308-311, 1990.
28. **von Duvillard, S. P.** and Piviroto, J.M. *The Effects of Handrail Support on Treadmill Exercise in Healthy Females. Journal of Cardiopulmonary Rehabilitation*, (1991);11:164-168.
29. **von Duvillard, S.P.** and Chan, P. C. *Soccer Conditioning: Model for Consideration and Implementation During Pre-Season Training. Journal of the National Soccer Coaches Association of America*, 1991;36(4): 25-29.
30. **von Duvillard, S. P.**, Stucchi, A.F., Terpstra, A.H.M. Nicolosi, R.J. *The Effect of Dietary Casein and Soybean Protein on Plasma Lipid Levels in Cebus Monkeys Fed Cholesterol-Free or Cholesterol-Enriched Semipurified Diets. Journal of Nutritional Biochemistry*, Vol. 3; (1992) 71-74.
31. LeMura, L.M., **von Duvillard, S. P.**, Bacharach, D.W. *Enhancement of Functional Power in Patients with Coronary Artery Disease by Circuit Interval Training. International Journal of Sports Medicine, Training and Rehabilitation*, Vol 3; (1992) 307-315.
32. **von Duvillard, S. P.**, Houseman D.G., LeMura, L. M. *The Assessment of Swimming Protocol to Estimate Intensity using Target Heart Rates of Fitness Swimmers. Journal of Applied Research in Athletics and Conditioning* (1992); 1:116-127
33. **von Duvillard, S. P.**, LeMura, L.M., Lee, B., Lee, T., Lie, S. *Calcium and Iron Deficiency in the Female Athletes. Journal of Applied Research in Athletics and Conditioning* (1992); 1:146-159.
34. **von Duvillard, S. P.**, LeMura, L.M., Szmedra, L., Di Vico, P. *Interrelationship Between Plasma Potassium Concentration, Pulmonary Ventilation, and Electrocardiographic Change During and After Highly Intense Exercise. Journal of Manipulative and Physiological Therapeutics* (1993), Vol 16, No 4:238-244.
35. **von Duvillard, S. P.**, Le Mura, L.M., Bacharach, D.W., Di Vico, P. *Determination of Lactate Threshold by Respiratory Gas Exchange Measures and Blood Lactate Levels During Incremental Load-Work. Journal of Manipulative and Physiological Therapeutics* (1993); Vol.16, No 5:312-318.

36. Bacharach, W.D., **von Duvillard, S. P.**, Rundell, K.W., Meng, J., Cring M.R. Szmedra, L.A. & Castle, J.M. *Carbohydrate Drinks and Cycling Performance. Journal of Sports Medicine and Physical Fitness* (1994); 34:161-168.
37. **von Duvillard, S. P.** and Hagan, R.D. *Independence of Ventilation and Blood Lactate Responses During Graded Exercise. European Journal of Applied Physiology* (1994) No 4; Vol. 68:298-302.
38. Bacharach, D.W. and **von Duvillard, S. P.** *Intermediate and Long-Term Anaerobic Performance of Elite Alpine Skiers. Medicine and Science in Sports and Exercise* Vol. 27, No. 3:303-304 and 305-309, 1995.
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42. Davidson, M.H., Testolin L.M., Maki, K.C., **von Duvillard, S. P.**, Drennan, K.B. (1997). *A Comparison of Estrogen Replacement, Pravastatin, or Combination Therapy for the Management of Hypercholesterolemia in Postmenopausal Women. Archives of Internal Medicine* 1997;157:1186-1192.
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45. **Serge P. von Duvillard** and Frank Stanek. *Performance assessment of elite women alpine ski competitors based on laboratory tests. Coaching and Sport Science Journal*, Italian Society of Sport Science, Vol. 2;4:35-39, 1997.

46. **Serge P. von Duvillard.** *Introduction to Symposium: lipids and lipoproteins in diet and exercise. **Medicine and Science in Sports and Exercise**, 1997, Vol. 29 No. 11, pp 1414-1415.*
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54. Linda M. LeMura, **Serge P. von Duvillard**, and Richelle Carlonas. *Can exercise training improve maximal aerobic power (VO_{2max}) in children: A meta-analytic review. **Journal of Exercise Physiology-Online** Vol. 2 No 3, 2(3):1-22, 1999.*
55. Plaud, Joseph J., Deborah Muench-Plaud, and **Serge P. von Duvillard.** *Human behavioral momentum in a sample of older adults. **Journal of General Psychology** 126 (2), 165-175, 1999.*
56. Rochus Pokan, P. Hofmann, **S. P. von Duvillard**, G. Smekal, R. Högler, H. Tschan, R. Baron, P. Schmid and N. Bachl. *The heart rate turn point: reliability and methodological aspects. **Medicine and Science in Sports and Exercise**, Vol 31, No. 6, pp. 903-907, 1999.*

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58. **Serge P. von Duvillard** and Peter Hofmann. Lipide und Lipoproteine bei Diät und körperlicher Belastung. *Österreichisches Journal für Sportmedizin* (Austrian Journal of Sports Medicine). Vol. 29; No 1-2:59-61, 1999
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60. Anton H.M. Terpstra, C.W.J.M. Brandt, R. Opitz, A. van Tol, **Serge P. von Duvillard**, H. Vosmeer and A.C. Beynen. Permanent cannulation of the jugular vein in the hamster. *Journal of Laboratory Animals*, 1999, Vol. 33; pp 68-70.
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92. Gerhard Smekal, **Serge P. von Duvillard**, Rochus Pokan, Karl Lang, Ramon Baron, Harald Tschan, Peter Hofmann and Norbert Bachl. *Respiratory gas exchange and lactate accumulation during competitive off-road orienteering.* **Medicine and Science in Sports and Exercise**, Vol. 35, No. 4, pp. 682-689, 2003.
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3. **von Duvillard, S.P.** (1989) *Speaker. The Importance of Exercise in Prevention of Coronary Heart Disease*. The Burlington Heartbeat, Burlington, Massachusetts.
4. **von Duvillard, S.P.** (1989) *Presider. National Academy of Exercise Physiology*. The AAHPERD National Convention, Boston, Massachusetts.
5. **von Duvillard, S.P.** (1990) *Presenter. Chronic Ambulatory Peritoneal Dialysis and Functional Capacity*. Presented at The 3rd Annual Conference on CAPD, Westford, MA
6. LeMura, M.L. and **von Duvillard, S.P.** (1990) *Presenters. The Meta-Analytic Technique. State System of Higher Education of Pennsylvania*. Presented at the Applied Research Conference, Westchester University, Westchester, Pennsylvania.
7. **von Duvillard, S.P.** (1990) *Presentation. From Research to Practice: Training and Conditioning the Athlete*. Presented to the National Coaches Council. American Alliance for Health, Physical Education, Recreation and Dance, New Orleans, Louisiana.
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174. Alfred Primus, Rochus Pokan, Peter Hofmann, **Serge P. von Duvillard**, Peter Schmid, Manfred Wonisch, Gerhard Smekal, Norbert Bachl. *Maximal lactate steady state in patients with coronary heart disease in healthy subjects and sport students*. **European College of Sport Science Meeting**, Belgrade, Serbia and Monte-Negro, July 2005.
175. R. Reer, M. Ziegler, V. Nagel, **S. P. von Duvillard**, K.-M. Braumann. *The influence of knee brace application on proprioception among different age groups*. **European College of Sport Science Meeting**, Belgrade, Serbia and Monte-Negro, July 2005.
176. **Serge P. von Duvillard**, Branks Dale, Doppelmayr Hildegard, Doppelmayr Michael, Finkernagel Holger, Leithäuser Renate M, Roth Heinz J, Beneke Ralph. *Red blood cell or total protein based calculation of plasma volume changes under marathon conditions in extreme heat*. **European College of Sport Science Meeting**, Belgrade, Serbia and Monte-Negro, July 2005.
177. Leithäuser RM, Doppelmayr H, Doppelmayr M, Finkernagel H, **von Duvillard SP**, Roth HU, Beneke R. *Hinweis auf eingeschränkte kardiale Funktion ohne Myokardschädigung während und nach Ultramarathon in extremer Hitze*. Presented at the Society for Sports Medicine and Prevention in September 14-17, 2005, Hamburg, Germany. **Deutsche Zeitschrift für Sportmedizin 7-8**, No 165, pp 201, 2005.
178. Alfred Primus, Rochus Pokan, Peter Hofmann, **Serge P. von Duvillard**, Peter Schmid, Manfred Wonisch, Gerhard Smekal, Norbert Bachl. *Heart rate behavior at and above the MLSS in patients with CAD and healthy subjects*. **The American College of Sports Medicine National Convention**, Denver, CO, 2006.
179. Rochus Pokan, Alfred Primus, Peter Hofmann, **Serge P. von Duvillard**, Manfred Wonisch, Gerhard Smekal, Norbert Bachl, Peter Schmid. *Maximal lactate steady state in patients with coronary heart disease in contrast to healthy subjects*. **The American College of Sports Medicine National Convention**, Denver, CO, 2006.
180. Peter Hofmann, Christian Hartleb, Manfred Wonisch, Günther Schwabegger, Rochus Pokan, **Serge P. von Duvillard**. *Lactate-Minimum and Lactate Turn Points*. **The American College of Sports Medicine National Convention**, Denver, CO, 2006.
181. Gerhard Smekal, **Serge P. von Duvillard**, Peter Frigo, Tina Tegelhofer, Rochus Pokan, FACSM, Peter Hofmann, Harald Tschan, Manfred Wonisch, Karin Renezeder, Johannes Huber and Norbert Bachl. *Menstrual Cycle and Exercise Testing: The Effect on Cardiorespiratory Variables and Blood Lactate Concentration*. **The American College of Sports Medicine National Convention**, Denver, CO, 2006.

182. Manfred Wonisch, Silke Kranz, Peter Hofmann, Rochus Pokan, Gerhard Smekal, Friedrich M. Fruhwald, Norbert Watzinger, Rheinhard Maier, **Serge P. von Duvillard**. *Non-Invasive Determination of Homodynamic Variables and their Relationship to the Anaerobic Threshold. The American College of Sports Medicine National Convention*, Denver, CO, 2006.
183. **Serge P. von Duvillard**, Robert Berent; Dietmar Fries, Markus Mittermayer, Stephen F. Crouse, Egon Humpeler, Sven Greie, Anton Klingler, Wolfgang Schobersberger, Reinhard Spiesberger, Rochus Pokan, Peter Hofmann, Manfred Wonisch, Peter Schmid. *Metabolic Syndrome: The Effect of Low and Moderate Altitude on Blood Pressure and Heart Rate. The American College of Sports Medicine National Convention*, Denver, CO, 2006.
184. Silke Kranz, Manfred Wonisch, Peter Hofmann, **Serge P. von Duvillard**, Friedrich M Fruhwald, Guenther Schwabeger, Norbert Watzinger, Robert Maier and Rochus Pokan. *Influence of Cardioselective Beta-Blockade to the Occurrence of Exercise Induced Arterial Hypoxemia. The American College of Sports Medicine National Convention*, Denver, CO, 2006.
185. Rüdiger Reer, Marc Ziegler, **Serge P. von Duvillard**, Klaus-Michael Braumann. *Proprioceptive Abilities between Different Age Groups with and without a Knee Brace. American College of Sports Medicine National Convention*, Denver, CO, 2006.
186. Stephen F Crouse, Robert Berent, **Serge P von Duvillard**, Peter Schmid. *Four weeks of exercise rehabilitation improves exercise capacity and coronary risk in men with CVD. Experimental Biology Meeting*, San Francisco, April 1-5, 2006.
187. Primus A., Pokan R., Hofmann P., **von Duvillard S. P.**, Wonisch M., Smekal G., Bachl N. *Blood lactate concentration at the anaerobic threshold and the respiratory compensation point in comparison to the maximal blood lactate steady state in patients with different cardiovascular diseases and healthy subjects. 4th Congress of the European Interdisciplinary Society for Clinical and Sports Application 2006, Graz, Austria.*
188. I. Steiger, R. Pokan, G. Smekal, P. Hofmann, M. Wonisch, **S. P. von Duvillard**, N. Bachl. *Comparison of laboratory and on-court endurance testing in 6 to 10 year old children. 4th Congress of the European Interdisciplinary Society for Clinical and Sports Application 2006, Graz, Austria.*
189. I. Schamp, R. Pokan1, **S. P. von Duvillard**, G. Smekal, P. Hofmann, M. Wonisch, N. Bachl. *The effect of different wind forces on heart rate behavior during freestyle windsurfing. 4th Congress of the European Interdisciplinary Society for Clinical and Sports Application 2006, Graz, Austria.*
190. J. Kern , R. Pokan , G. Smekal, P. Hofmann, M. Wonisch, **S. P. von Duvillard**, N. Bachl. *School sports and osteoporosis prevention: A meta analysis. 4th Congress of the European Interdisciplinary Society for Clinical and Sports Application 2006, Graz Austria.*

191. Robert Berent, Stephen F Crouse, **Serge P. von Duvillard**, Johann Auer, Peter Schmid. *Four weeks of exercise rehabilitation improves exercise capacity and coronary risk in men with coronary heart disease. Presented at the World Congress in Cardiology (ESC) Barcelona, Spain 2006.*
192. Robert Berent, Johannes Auer, **Serge P. von Duvillard**, Stephen F. Crouse, Harald Kritz, Dietmar Steinbrenner, Florian Schmid, Helmut Sinzinger. *Platelet response to acetylsalicylic acid (ASA) is unchanged in coronary heart disease patients during 5 years treatment with 50 and 100 mg. Presented at the World Congress in Cardiology (ESC) Barcelona, Spain 2006.*
193. Hofmann P., Jürimäe T., Jürimäe J., Purge P., Mäestu J., Wonisch M., Pokan R., **von Duvillard S.P.** *Validity of Heart Rate Turn Point to set target Heart rate for Prolonged Ergometer Rowing Exercise and Single Sculling. European College of Sport Science International Congress, July 5-8, Lausanne, Switzerland 2006*
194. Hofman P, Hartleb C, Wonisch M, Schwaberger G, Pokan R, **von Duvillard S P.** *Lactate-Minimum and Lactate Turn Point. European College of Sport Science International Congress, July 5-8, Lausanne, Switzerland 2006*
195. **Serge P. von Duvillard**, Jeff Bell, Ines Dieckmann, Jena Hamra, Ken Alford, Frank Miskevich and John P. Slovak. *Determination of Lactate Turn Points by Gas Exchange, Salivary α -Amylase and Testosterone in Male Subjects. The American College of Sports Medicine National Convention, New Orleans, LA, 2007.*
196. Stephen F. Crouse, Robert Berent, **Serge P. von Duvillard**, Peter Schmid, John S. Green. *Four weeks of residential rehabilitation improves exercise capacity and coronary risk in women with CVD. Experimental Biology, Washington, D.C., April 28-May 2, 2007*
197. Daniel R. Irwin, Ken Alford, and **Serge P. von Duvillard**. Different saddle heights, cardiorespiratory, heart rate, and blood lactate responses during cycle ergometry. *The American College of Sports Medicine National Convention, New Orleans, LA, 2007*
198. Frank Stanek, Kelly Gefroh, Daniel R. Irwin, **Serge P. von Duvillard**. Determination of maximal and time at maximal performance in young elite male alpine ski racers. *The American College of Sports Medicine National Convention, New Orleans, LA, 2007*
199. John S. Green, R. Berent, S.P. von Duvillard, P. Schmidt, and S.F. Crouse. *Age, Cholesterol Status, and Bypass Surgery Discriminate as to Whether Patients Develop Postoperative Atrial Fibrillation. The American College of Sports Medicine National Convention, New Orleans, LA, 2007.*
200. Ruediger Reer, Christoph Ramcke, Marc Ziegler, Serge P. von Duvillard, Klaus-Michael Braumann. *Spiroergometry in the Swim Flume: Comparison of Stroke Rate Between Sprint and Endurance Swimmers. The American College of Sports Medicine National Convention, New Orleans, LA, 2007.*

Invited Presentations at Regional, National and International Meetings:

1. **ACSM SYMPOSIUM 1994 (Indianapolis, IN):**

Serge P. von Duvillard, Ph.D., FACSM

Symposium Chair, William Paterson College, Wayne, NJ

"Interdisciplinary Approach to the Science of Alpine Skiing"

Speakers: Steve Johnson, Ph.D., University of Utah, UT
Richard J. Steadman, M.D., U.S. Ski Team Physician, Vail, CO
Charles Dillman, Ph.D., Steadman & Hawkins Sport. Med. Foundation, CO
David W. Bacharach, Ph.D. St. Cloud State University, MN
Per Tesch, Ph.D. FACSM, Karolinska Institute, Sweden
Serge P. von Duvillard, Ph.D., FACSM, William Paterson College, NJ

2. **Free University Berlin, Germany**

Sports Medicine Colloquium (June 1995)

Ralph Beneke, M.D., Ph.D., MPH., FACSM

Colloquium Chair

"Cholesterol Transport in Human and Animal Models"

Speakers: **Serge P. von Duvillard, Ph.D.**, William Paterson College, NJ, USA
Anton H.M. Terpstra, Ph.D., University of Utrecht, The Netherlands

3. **ACSM COLLOQUIUM 1995 (Minneapolis, MN):**

Serge P. von Duvillard, Ph.D., FACSM

Colloquium Chair, William Paterson University, Wayne, NJ

"Performance Assessment of Competitive Alpine Skiers"

Speakers: Charles J. Dillman, Ph.D., Steadman & Hawkins Sports Medicine
Steven C. Johnson, Ph.D., University of Utah, UT
David W. Bacharach, Ph.D., FACSM, St. Cloud State University, MN
Serge P. von Duvillard, Ph.D., FACSM, William Paterson University, NJ

4. **ACSM SYMPOSIUM 1996 (Cincinnati, OH)**

Serge P. von Duvillard, Ph.D., FACSM

Symposium Chair

"Cholesterol, Lipids and Lipoproteins in Diet and Exercise"

Speakers: Laurel Traeger Mackinnon, Ph.D., FACSM, *Queensland University, Australia.*
Warren K. Palmer, Ph.D., FACSM, *University of Illinois at Chicago, IL.*
Paul D. Thompson, M.D., FACSM, *Montefiore Hospital, Pittsburgh, PA*
Gale C. Carey, Ph.D., FACSM, *University of New Hampshire, NH.*
Robert J. Nicolosi, Ph.D., *University of Mass.-Lowell, Lowell, MA.*

5. **ACSM CURRENT ISSUES 1996 (Cincinnati, OH)**

Serge P. von Duvillard, Ph.D., FACSM

Current Issues Chair

B. "Training and Overtraining of World Class Athletes: An Interdisciplinary and International Perspective."

Speakers: Univ. Prof. Dr. Erich Müller, *University of Salzburg, Austria*
Univ. Prof. Dr. Hans Berg, *Karolinska Institut, Stockholm, Sweden*
Dr. Ulrich Hartmann, *Deutsche Sporthochschule Köln, Germany*
Univ. Prof. Dr. Camelo Bosco, *Italian National Ski Team, Rome, Italy*
Serge P. von Duvillard, Ph.D., FACSM, William Paterson College, NJ

6. **Sport Medicine and Sport Sciences Symposium (January 1996)**

Free University of Berlin (Invited International Lecture Series)

Ralph Beneke, M.D., MPH., FACSM

Symposium Chair

"Sports Medicine and Science in Selected Winter Sports"

Speakers: David W. Bacharach, Ph.D. St. Cloud State University, St. Cloud, MN.
Dieter Böning, M.D., Freie Universität Berlin, Germany
Dieter Ehrig, Dr. rer. nat., Institut für angewandte Trainingswissenschaft, Germany
Jürgen Erasmus, M.D., Landesinstitut für Sportmedizin, Germany
Serge P. von Duvillard, Ph.D., William Paterson College, NJ.
Conrad Reinke, M.D., Institut für Angewandte Trainingswissenschaft, Germany.
Robert Hintermeister, Ph.D., Steadman & Hawkins Sports Medicine Foundation, Vail, Colorado.

7. **Invited speaker:** Northland Chapter of the American College of Sports Medicine (October 1 & 2) at Mankato State University, Minnesota, 1998.

Speaker: **Serge P. von Duvillard, Ph.D., FACSM**

University of North Dakota

"Physiology of Alpine Skiing."

8. **Invited speaker** at the Northwest ACSM meeting (February 6 & 7) at Whitefish, Montana, 1998.

Speaker: **Serge P. von Duvillard, Ph.D., FACSM**

University of North Dakota

"Children in Alpine Skiing."

"Physiologic Testing in Alpine Skiing."

9. **ACSM SYMPOSIUM 1998 (Orlando, Florida)**
Serge P. von Duvillard, Ph.D., FACSM
Mini-Symposium Chair
"Winter Sport Science"
- Speakers:** Gerald Smith, Ph.D., FACSM, Oregon State University
Michael Brocko, Ed.D, Institute for Hockey Research, Calgary, Canada
Kenneth W. Rundell, Ph.D., FACSM, Lake Placid Olympic Center, NY
10. **Invited speaker:** Northland Chapter of the American College of Sports Medicine (March 26-27) at St. Cloud State University, Minnesota, 1999.
Speaker: **Serge P. von Duvillard, Ph.D., FACSM**
University of North Dakota
"Anaerobic Performance: Lessons from practical experience"
11. **ACSM SYMPOSIUM 1999 (Seattle, Washington)**
Serge P. von Duvillard, Ph.D., FACSM
Symposium Chair
- "Exercise Lactate Levels: Simulation and Reality of Aerobic and Anaerobic Metabolism"**
- Speakers:** Ralph Beneke, M.D., FACSM, *Free University of Berlin, Germany*
Alois Mader, M.D., Ph.D., *German Sports University, Cologne, Germany*
Arend Bonen, Ph.D., *University of Waterloo, Canada*
Carsten Juel, Ph.D., *August Krogh Institute, Copenhagen, Denmark*
12. **Invited speaker:** Northland Chapter of the American College of Sports Medicine (March 31, 2000) at St. Cloud State University, Minnesota, 2000.
- Speaker:** **Serge P. von Duvillard, Ph.D., FACSM**
University of North Dakota
- Topic:** *"Atherosclerosis in Children"*
13. **Invited speaker:** ATKL International Symposium, University of Vienna, Vienna, Austria (2000) (Austrian Society for Clinical Exercise Physiology)
- Speaker:** **Serge P. von Duvillard, Ph.D., FACSM**
University of North Dakota
- Topic:** *"Metabolic changes in repeated high - intensity laboratory tests in alpine ski racers."*
14. **Invited speaker:** Northland Chapter of the American College of Sports Medicine (April 4-5, 2002) at St. Cloud State University, Minnesota, 2002.
- Speaker:** **Serge P. von Duvillard, Ph.D., FACSM**
University of North Dakota
- Topic:** *"How to present an effective poster and slide presentation"*

“Common measures of biochemical markers of performance in exercise physiology laboratory setting”

15. **Invited Speaker:** ATKL Congress (Applied Theoretical and Clinical Sports Medicine) (Vienna, Austria December 5-7, 2002)

Speaker: Serge P. von Duvillard, Ph.D., FACSM

California State Polytechnic University, Pomona, CA

Topic: *“Changes in lipoprotein (a), apolipoprotein A-1 and apolipoprotein B, insulin, and lipids resulting from an acute bout of marathon in altitude”.*

16. **Invited Keynote Speaker:** Sigma Xi Research Society (Texas A&M University-Commerce) April 21, 2005.

Speaker: Serge P. von Duvillard, Ph.D., FACSM

Texas A&M University-Commerce

Topic: *“Lipids, Lipoproteins and Exercise”*

17. **Invited Speaker:** Graduate Seminar in Exercise Science. Sponsored by the Sydney and J.L. Huffines Institute for Sports Medicine and Human Performance at Texas A&M University, College Station (November 9, 2005)

Speaker: Serge P. von Duvillard, Ph.D., FACSM

Texas A&M University-Commerce

Topic: *“Metabolic changes in supramaximal performance”*

18. **ACSM SPECIAL EVENT 2006 (Denver, CO):**

Serge P. von Duvillard, Ph.D., FACSM

Special Event Chair: Texas A&M University-Commerce, TX

“Joint stability, muscular-skeletal complaints, and rehabilitation in patients and athletes: A European Perspective”.

Speakers: Albert Gollhofer, Ph.D., University of Freiburg, Germany

Frank Meyer, MD, University of Freiburg, Germany

Anton Wicker, MD, Ph.D., Paracelsus University Salzburg, Austria.

Research Grants and Funding (awarded, submitted, not-funded and/or pending):

Determination of aerobic and anaerobic threshold by blood lactate turn points, salivary lactate, and salivary alpha-amylase. Texas A&M University-Commerce Internal Grant 2004. **Serge P. von Duvillard, Principal Investigator. Funded \$ 600.00**

A Physiological Comparison of Shaped and Traditional Side Cut Alpine Skis. John G. Seifert (Principal Investigator), David W. Bacharach, **Serge von Duvillard**, Ronald Kipp, and Anton Wicker Co-Investigators (\$ 6,647.00) Human Performance Laboratory St. Cloud State University St. Cloud, MN 56301. Funded by the office of Sponsored Research of St. Cloud State University, St. Cloud, MN. **Funded \$ 6,647.00.**

Child neglect: causation factor in rural/frontier/reservation communities. NIH (PHS-398) 1999-2004. James T. Decker et al. Principal Investigator (PI), **Serge P. von Duvillard** Co-Principal Investigator (5 year study \$ 2,354,000.00). **Not funded**-revised submission requested by NIH.

Influence of additional carbohydrate intake on anaerobic performance during a simulated and on snow giant slalom training sessions. United States Olympic Committee Science and Technology Grant 2004-2005. **Serge P. von Duvillard**, Principal Investigator, David W Bacharach, John Seifert, Nanna Meyer co-investigators. To be submitted in the spring of 2004 (estimated cost of \$ 18,000.00)

The effect of glycerol ingestion on blood biochemical markers, lipids and lipoproteins, cardiovascular changes, and thermoregulation in endurance trained subjects. College of Education and Human Development, Faculty Creative and Research Activity Program, University of North Dakota 1999. **Serge P. von Duvillard**, Principal Investigator. **Funded** (\$ 3,000.00).

The Effect of Oral Creatine Monohydrate Supplementation on Androgens, Lipids and Lipoproteins, Testosterone/Epitestosterone Ratios, Strength, and Power. EAS Corporation, Golden, Colorado. **Serge P. von Duvillard**, Principal Investigator. **Funded** (8,040.00).

North Dakota - EPSCoR (IIP) Infrastructure Improvement Program for Equipment (\$ 55,900.00). **Serge P. von Duvillard**, Principal Investigator. **Not funded**

Equipment grant for purchase of Micro-Stat Multiassay Analyzer-Analox P-GM-7 (1998). College of Education and Human Development (\$ 5,250.00), Office of Research and Program Development (\$ 5,250.00), North Dakota Experimental Program to Stimulate Competitive Research NSF grant #OSR09452892, (\$ 3,000). **Serge P. von Duvillard. Funded** \$ 13,500.00.

Equipment grant for purchase of Woodway-Desmo Treadmill (1998). College of Education and Human Development and Department of Health, Physical Education, and Recreation. **Funded** \$ 10,900.00.

Changes in lipid and lipoproteins, specifically HDL subclasses, as a result of cardiac rehabilitation program (1998). American Heart Association-North Dakota Affiliate (2 year study). **Serge P. von Duvillard**, Principal Investigator. **Not funded**, \$ 47,900.00.

- Behavioral, hemodynamic, and lipid changes in overweight and obese subjects resulting from a yearly exercise program (1998).* North Dakota Experimental Program to Stimulate Competitive Research (ND-EPSCoR) Grant 1998 (2 year study). **Serge P. von Duvillard**, *Principal Investigator*, Robert C. Eklund and James Whitehead Co-Investigators. **Not funded** \$69,420.00.
- Instruction of Graduate Computer Technology (1997).* Faculty Instructional Development Committee Award. University of North Dakota. **Serge P. von Duvillard**, **Funded** \$750.00.
- Development of graduate lecture manual, instructional material and case studies (1997).* Summer Instructional Development Professorship Award, Office of Instructional Development, University of North Dakota. **Serge P. von Duvillard**, *Principal Author*. **Funded** \$ 2,700.00.
- Cholesteryl ester metabolism in exercising and non-exercising miniature swine (1997)* (continuation of the pig model study). Faculty Research and Creative Activity Committee, Office of Research and Program Development, University of North Dakota. **Serge P. von Duvillard**, *Principal Investigator*. **Funded** \$ 2,290.00.
- Travel award money (1997).* Faculty Research and Creative Activity Committee, Office of Research and Program Development, University of North Dakota. **Funded** \$ 300.00.
- Equipment award-matching funds (1996).* North Dakota Experimental Program to Stimulate Competitive Research, (ND-EPSCoR) through NSF Grant # OSR-9452892 and the Office of Research and Professional Development. **Serge P. von Duvillard**, *Principal Investigator*. **Funded** \$ 4,480.00.
- Cardiophobia and resumption of sexual activity in post operative myocardial patients (1997).* NIH-IDEA Center for Behavior and Health Sciences Research. Start-up money. **Serge P. von Duvillard** and Joseph J. Plaud, *Co-Principal Investigators*. **Funded** \$ 3,500.00.
- Equipment award (1996).* North Dakota Experimental Program to Stimulate Competitive Research (ND-EPSCoR) through NSF Grant # OSR-9452892. **Funded** \$ 2,500.
- Cholesteryl Ester Metabolism in Exercising and Non-Exercising Miniature Swine (1996).* Principal Investigator. American College of Sports Medicine Research Foundation, Senior Researcher Gatorade Grant Award. **Serge P. von Duvillard** and Thomas Foxall, *Principal Co-Investigators*, Anton H. M. Terpstra, and Arthur F. Stucchi, Co-Investigators. **Funded** \$ 10,000.00.
- Predicting Performance of US Alpine Ski Team Based on Laboratory and Field Tests.* United States Olympic Committee Science and Technology Grant (1995). **Serge P. von Duvillard**, *Principal Investigator*. **Funded** \$ 6,846.00.
- Lactate Accumulation During Laboratory and Field Testing in the Competitive Elite Alpine Ski Racers.* Boehringer-Mannheim Corporation Grant, Indianapolis, IN (1995). **Serge P. von Duvillard**, *Principal Investigator*. **Funded** \$ 4,668.00.

- Lactate Production and Removal During and After Repeated Bouts of the Wingate Tests with Active and Passive Recovery.* Sports Resource Group Grant, Garden City, NY. **Serge P. von Duvillard, Principal Investigator. Funded \$ 5,866.00.**
- Lipoprotein Cholesteryl Ester Metabolism in Normo- and Hypercholesterolemic Ponies (1995).* Principal Investigator. Summer Research Award. William Paterson College and the University of Utrecht, The Netherlands. **Serge P. von Duvillard, Principal Investigator. Funded \$4,000.00**
- William Paterson University Alumni Association Equipment Grant (1994).* **Funded \$ 4,765.00.**
- Conjugated Estrogen Hormone Replacement Pravastatin or Combination Therapy for Postmenopausal Women with Hypercholesterolemia.* Chicago Center for Clinical Research, Chicago, IL, Wyeth-Ayerst Laboratories, Philadelphia, PA and Incstar Corporation, Stillwater, MN. Mike Davidson, Principal Investigator. **Serge P. von Duvillard, Co-Investigator (1993-94). Funded \$ 238,000.00**
- Anaerobic Performance and Lactate Production During Laboratory and Field Tests in the Elite Youth Alpine Skiers.* Green Mountain Ski Racing Academy, VT and St. Cloud State University, St. Cloud, MN (1994). **Serge P. von Duvillard, Principal Investigator. Funded \$ 2,300.00.**
- Lipid and Lipoprotein Metabolism.* American College of Sports Medicine, Visiting Scholar Award 1994. William Paterson College, Center for Cardiovascular Disease Control, Department of Clinical Sciences, University of Massachusetts in Lowell, Lowell, MA. **Serge P. von Duvillard, Principal Investigator. Funded \$ 1,800.00.**
- Muscle Power and Lactate Levels During Active and Passive Recovery in Developmental Alpine Ski Racers.* William Paterson College, Wayne, NJ. Mini-Grant Program. **Serge P. von Duvillard, Principal Investigator (1993). Funded \$ 650.00.**
- Seasonal Changes in Intermediate and Long-Term Anaerobic Performance of Elite Youth Alpine Skiers.* University of Illinois at Chicago, Chicago, IL, 1992-1993. **Serge P. von Duvillard, Principal Investigator (1993). Funded \$ 800.00.**
- Changes in Lp(a), Apo A-I, and Apo B in Cardiac Patients.* University of Illinois at Chicago and Rush Medical Center, Chicago, IL and Incstar Corporation, Stillwater, MN 1993. **Serge P. von Duvillard, Principal Investigator. Funded \$ 8,200.00.**
- Muscle Power and Lactate Production During and After Consecutive Bouts of Wingate Tests.* University of Illinois at Chicago, Chicago, IL, 1992. **Serge P. von Duvillard, Principal Investigator. Funded \$ 500.00.**
- Determination of Lipoprotein (a) an Atherosclerotic and Heart Disease Marker in Cross Country Runners and Sedentary Individuals.* University of Massachusetts at Lowell, 1991. **Serge P. von Duvillard, Principal Investigator. Funded \$ 16,000.00.**

Comparison of Selected Carbohydrate Supplementation Drinks on Blood Glucose and Lactate During Cycling Performance. Syracuse University and Perk, Ltd. Co. 1989. **Serge P. von Duvillard**, Co-Principal Investigator. **Funded** \$ 18,000.00.

Determination of Lactate Threshold by Respiratory Gas Exchange Measures and Blood Lactate Levels During Incremental-Load Work. SUNY Plattsburgh, 1986. **Serge P. von Duvillard**, Principal Investigator. **Funded** \$ 1,000.00.

Post-doctoral experience and bench research:

1. **Visiting Professor and Senior Researcher (Summer 2005).** University of Hamburg, Department of Exercise Science with Klaus Michael Braumann, MD, Dean and Rüdiger Reer, MD to conduct several lectures on metabolism of exercise, biochemistry of exercise, pediatric sports physiology and collaborate on various research projects as well as conduct independent research at the German Olympic Training Center in Hamburg. Specifically, to collect, measure, and determine saliva biochemical markers in real time in competitive swimmers in the swim-flume. Comparing these to blood samples and measuring respiratory gas exchange measures in the water. Numerous biochemical markers will be analyzed using numerous instruments including HPLC, CG, etc...
2. **Post-Doc 2000-2001.** Karl-Franzens-University-Graz and University of Vienna, Austria, Department of Sport Sciences with Peter Hofmann, Ph.D. (Graz) and Rochus Pokan, M.D. (Vienna), University of Graz Medical School, Lipid Laboratory (mentor: Gert Kostner, MD, Ph.D.) experience in invasive and non-invasive measures of plasma volume shifts Department of Physiology (mentor: Helmut Hingshofer-Salzkay, MD, Ph.D.). Conducting collaborative and independent research projects, write grants, participate and conduct bench research. Learning new information and gaining new knowledge in lipid and lipoprotein isolation, separation, and determination of various classes and subclasses of lipids and lipoproteins associated with cardiovascular risks and obesity. Echocardiographic and stress testing measurements in healthy and heart diseased population including heart transplant patients. Measuring and assessing plasma volume shifts resulting from short and long-term endurance tests in healthy subjects and competitive athletes. Publish data in refereed journals
3. **Visiting Scientist 1998.** Karl-Franzens University Graz, Austria, Department of Sport Sciences; University of Utrecht, The Netherlands, Department of Animal Veterinary Sciences; German Sports University at Köln, Germany, Department of Sport Sciences; Karolinska Institute, Stockholm, Sweden, University of Rome, Italy, Department of Biomedical Sciences.
4. **Senior Research Award 1996.** Winner of the ACSM Senior Gatorade Sports Nutrition Research Award.
5. **ACSM Visiting Scientist 1996 and 1997.** The University of New Hampshire, Department of Animal Nutritional Sciences, Durham, NH. Collaborating in research project of lipid and lipoprotein metabolism (cholesteryl ester metabolism in exercising and non-exercising miniature swine). ¹⁴C, ¹²⁵I, and ¹³¹I labeling and analysis of LCAT and primary, secondary and

tertiary antioxidants of exercising and non-exercising miniature swine utilizing a variety of investigative instrumentation and numerous assays.

6. **Visiting Research Fellow 1995.** The University of Utrecht, The Netherlands. Three months full-time experience in the Department of Animal Laboratory Sciences, Faculty of Veterinary Medicine (summer 1995). Mentor, Anton H.M. Terpstra, Ph.D. Laboratory experience and competencies in radiolabeling (^{125}I , ^{14}C , and ^{131}I) of proteins (HDL and LDL) studying cholesteryl ester metabolism in small and large animals, ultracentrifugation, lipoprotein separation and microsurgery.
7. **ACSM Visiting Scholar Award 1994.** Center for Cardiovascular Disease Control, University of Massachusetts-Lowell, MA. Mentor, Robert J. Nicolosi, Ph.D., Director of the Cardiovascular Research Laboratory, Department of Clinical Sciences. Three-months fulltime hands-on experience (summer 1994). Conducted independent investigations, participated in lipid and lipoprotein metabolism studies, wet-lab analyses associated with determination of atherosclerosis in animal species and human samples.

Proficiency and competencies in use of scientific instrumentation:

Respiratory gas exchange equipment - Sensormedics; Quinton; Ametek; Med-Graphics (with various models of mechanical and electronic ergometers), body composition; ECG. Blood chemistry - spectrophotometric and/or automated analysis for lactate, CPK, Hb, Hp, LDH, HCO_3^- , pH, Fe^{++} etc. Familiarity with plasma antioxidant analysis - HPLC, GC. Lipid and lipoprotein analysis (human and animal) - ultracentrifugation and rotor (LS-70, LS-60 Beckman); Branson sonifer; liquid scintillation; Helena densitometer; Agarose, polyacrylamide and isoelectric focusing gel electrophoresis; ELISA system; Altex Fraction collector; conjugated diene assay; oxidation assays; Lowery and Branford assays. Radiolabeling of HDL, LDL and cholesterol for the *in vivo* studies of cholesteryl ester and ethers in selected animal species, etc....

Research interest area:

1. Lipid and lipoprotein biochemistry and metabolism, lipid oxidation, isolation and analysis of atherosclerotic markers, labeling, subfractioning of various lipids and lipoproteins, gas chromatography, high pressure liquid chromatography, conjugated dienes, ultracentrifugation and use of various techniques for quantification of lipids and lipoproteins, and human insulin.
2. Applied Physiology and adaptations to exercise training - concerned with cardiovascular, metabolic, hematological, biochemical, and overtraining markers associated with physical performance and conditioning of athletes.
3. Coronary Heart Disease Risk Factors (CHD) and preventive interventions - concerned with CHD factors to disease and reduction of risk factors through exercise and preventive measures and practices in children and older adults.

4. Exercise conditioning - concerned with the effects of exercise on the metabolic, nutritional and dietetic factors associated with lipids, lipoproteins, atherosclerosis, and sports nutrition in humans and animal models.
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Administrative experience :

- **Coordinator for Exercise Physiology at the University of Massachusetts at Lowell (1989-91).** Responsible for 240 undergraduate students. Teaching all undergraduate exercise physiology courses and laboratory experiences, research, advising, curriculum design and implementation, clinical and corporate site coordination, project coordinator, administration and budgetary matters, laboratory and teaching equipment purchases, director of the human performance laboratory.
- **University of North Dakota-Director of Human Performance Laboratory (1996 to 2002).** Responsible for all purchases of scientific equipment (currently over \$ 250,000.00), research, advising, directing laboratory projects, directing graduate and undergraduate exercise physiology curricula, grant procurement, etc.
- **University of North Dakota-Graduate Program Director (1996-2000).** Responsible for administrating the graduate curriculum, maintaining all graduate student records, recruiting, finding internship sites at the regional, national and international level, marketing of our graduate program in all concentrations (exercise physiology, sport and exercise psychology and wellness/fitness). Administer budget, supervise graduate teaching and research assistants, coordinating and implementing departmental, university, and Graduate School policies and changes. Closely working with the chair, the Graduate Dean, and Provost.
- **One-year administrative intern with the University of North Dakota Provost, Dr. Marlene Strathe (1997-98).** Participated in college and university governance, attended and participated in open and closed-door sessions of various administrative and executive sessions of the University of North Dakota administrators.

Adjunct and Visiting Professor Appointments:

- Visiting Professor: University of Graz, Department of Exercise Science, Graz, Austria.
 - Visiting Professor: University of Vienna, Department of Sports Physiology, Vienna, Austria.
 - Adjunct Professor: University of Essex, Department of Department of Biological Sciences, Center of Sports and Exercise Science, Essex, UK.
 - Visiting Professor: University of Hamburg, Department of Sports Medicine and Exercise Science, Hamburg, Germany.
 - Professor of Physiology: University of North Dakota, School of Medicine and Health Sciences, Grand Forks, ND.
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Professional organizations:

- American Physiological Society (APS)
- Federation of American Societies for Experimental Biology (FASEB)
- American College of Sports Medicine (ACSM)
- European College of Sports Science (ECSS)
- American Heart Association (AHA)
- Canadian Society for Applied Physiology, Nutrition, and Metabolism
- American Alliance for Health, Physical Education, Recreation and Dance
- International Congress on Science and Skiing (ICSS)
- Southwest Chapter of the American College of Sports Medicine
- United States Ski and Snowboard Association (USSSA)
- Professional Ski Instructors of America
- United State Ski Coaches Association

Certifications

- Certified CPR and First Aid Instructor (American Red Cross)
- ACSM Test Technologist
- Numerous US and German Coaching Licenses (soccer, alpine skiing, track & field)

Honors and awards:

- **Fellow of the American College of Sports Medicine** (1990)
- **Fellow of European College of Sport Science** (2000)
- **Past President 2001/2002**, Northland Chapter, American College of Sports Medicine.
- **President 2000/2001** Northland Chapter, American College of Sports Medicine.
- **President Elect 1999/2000**, Northland Chapter, American College of Sports Medicine.
- **Co-recipient of Prof. Dr. Wildor Holmann Award 2000 of the International Federation of Sports Medicine (FIMS) for the best Sports Cardiology paper in Paris, France** co-recipients Rohrer A, Pokan R, Hofmann P, Quittan M, **von Duvillard S. P.**, Smekal G, Bachl N, Pacher R.
- **National Senior Investigator Award 1996**, American College of Sports Medicine, "*Gatorade Sports Nutrition Research Recipient.*"
- **Editorial Board Member and Consulting Associate Editor** of the **Journal of Medicine and Science in Sports and Exercise** (1995 to 1997)
- **ACSM Senior Investigator Research Grant 1996**, the American College of Sports Medicine, Cincinnati, OH
- **United States of America representative** to the **International Olympic Committee**, Steering Group "*Science in Winter Sports,*" **World Commission for Sports Biomechanics of ICSSPE**, Status "A" in UNESCO (1995 - 2000).
- **Visiting Scholar Award 1994**, The American College of Sports Medicine.
- **International Congress on Skiing and Science.** Member of the Executive Committee 1994-2000.

- **Member of the Scientific Committee** for the *1st, 2nd and 3rd International Congress on Science in Skiing 1996, 2000 and 2004*. St. Christoph am Arlberg, Austria and Snowmass at Aspen, Colorado.
 - **Chair - ACSM Interest Group "Science in Winter Sports"**, 1994 to 2000.
 - **ACSM FIMS Ad Hoc Committee** (FIMS Congress). Member from 1994-98 (International Sports Medicine Congress), 1993 - 1996.
 - **ACSM Research Review Committee**. Appointed by the American College of Sports Medicine 1994-96.
 - **ACSM Research Awards Committee**. Appointed to by the American College of Sports Medicine (1996-1999).
 - **ACSM Liaison to European College of Sport Science**. Appointed by the American College of Sports Medicine (1997-2000)
 - **ACSM Ad Hoc Committee on Interest Groups**. Appointed by the American College of Sports Medicine (1997-2006)
 - **ACSM International Relations Committee**. Appointed by the American College of Sports Medicine (1997-2000)
 - **ACSM Constitution Bylaws and Operating Code Committee**. Appointed by the American College of Sports Medicine (2002-2005)
 - **North Dakota Representative and Member of the Executive Committee** for the Northland Chapter of the American College of Sports Medicine (since 1996)
 - **AAHPERD, Graduate Folio Reviewer for NASPE/ NCATE** (1993-present).
 - **New York Academy of Sciences**. Member.
 - **Sigma Xi**, The Scientific Research Society, full membership status since 1991.
 - **ACSM International Relations Committee**. Appointed by the American College of Sports Medicine (2004-2007)
 - **International Congress on Science and Skiing, Aspen 2004**. Co-Chair of the Scientific Committee and member of the Organizing Committee.
 - **Golden Leaves Award 2004**. Research and Sponsored Programs saluting book authors. California State Polytechnic University-Pomona.
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Editorial Board Membership and Peer Reviewer for:

- Consulting Associate Editor and Editorial Board Member of the *Journal of Medicine and Science in Sports and Exercise* (1995-97)
- Associate Editor for the *British Journal of Sports Medicine*
- Reviewer for *Medicine and Science in Sports and Exercise*
- Reviewer for *International Journal of Cardiology*
- Reviewer for *European Heart Journal*
- Reviewer for *Journal of Lipids*
- Reviewer for *Metabolism Clinical and Experimental*
- Reviewer for *Journal of Applied Physiology*
- Reviewer for the *European Journal of Applied Physiology*
- Reviewer for the *International Journal of Sports Medicine*

- Reviewer for the *International Journal of Sports Nutrition and Exercise Metabolism*
- Reviewer for the *Journal Ergonomics*
- Reviewer for the *Journal of Clinical Endocrinology and Metabolism*
- Reviewer for *American Journal of Clinical Nutrition*
- Reviewer for *Slovenian Biophysical Society*
- Member of the editorial board of the *Journal of Coaching and Sport Science*, Italian Society of Sport Science, Rome, Italy.
- Manuscript and abstract reviewer for the *International Congress on Science in Skiing*
- Abstract Reviewer for the *Southwest Chapter of the American College of Sports Medicine*
- Abstract Reviewer for the *American College of Sports Medicine*
- Book Reviewer for the *Exercise Physiology Books* for Mosby Year Books, Inc. Publishing Company, St. Louis, MO.