



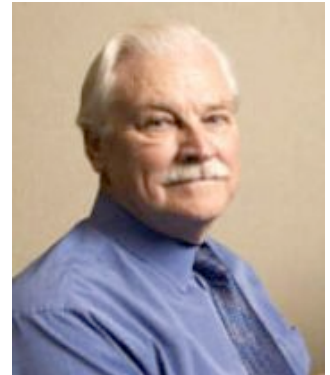
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Appointments

Appointment	Organization
Emeritus (Active) Professor	Information Resources & Technology - Learning Technology/SUMMIT
Emeritus Faculty, Acad Council	Obstetrics & Gynecology

Graduate & Fellowship Program Affiliations

Obstetrics and Gynecology;

Honors & Awards

Title	Organization	Date(s)
SATAVA Award	MMVR – Medicine Meets Virtual Reality	Jan 2003

Administrative Appointments

Title	Organization	Start Year	Start Year
Associate Director	SUMMIT	2002	-
Affiliate	Stanford Medical Informatics	2001	-

Professional Education

Degree	Awarding Institution	Field of Study	Graduation Date
M.D.	University of Oklahoma	Medicine	1958
M.S., Ph.D.	University of Oregon	Biochemistry (Steroids)	1967

Web Site Links

Research/Lab website: <http://summit.stanford.edu>, <http://workshops.stanford.edu>

Research Interests

Distributed learning of anatomy and laparoscopic surgery; surgical simulation; team-training in virtual environments;

Community and International Work

- Simulator Validation, *SUMMIT*

Publications

1. Heinrichs WL, Youngblood P, Harter PM, Dev P "Simulation for Team Training and Assessment: Case Studies of Online Training with Virtual Worlds." *World J Surg.* 2008;
2. Heinrichs WL, Lukoff B, Youngblood P, Dev P, Shavelson R, Hasson HM, Satava RM, McDougall EM, Wetter PA "Criterion-based training with surgical simulators: proficiency of experienced surgeons." *JSLS.* 2007 Jul-Sep; 11: 3: 273-302.
3. **Youngblood P, Hedman L, Creutzfeld J, Fellander-Tsai L, Stengard K, Hansen K, Dev P, Srivastava S, Kusumoto L, Hendrick A, Heinrichs WL "Virtual Worlds for Teaching the New CPR to High School Students." *Stud Health Technol Inform.* 2007; 125: 515-9.**

4. Dev P, Youngblood P, Heinrichs WL, Kusumoto L "Virtual worlds and team training." *Anesthesiol Clin*. 2007; 25: 2: 321-36.
5. Lewis LA, Zaritsky E, Heinrichs WL, Nezhat C "Comparison of two-dimensional and three-dimensional camera systems in laparoscopic surgery." *Obstet Gynecol*. 2006; 107: 4 Suppl: 78S.
6. Youngblood PL, Srivastava S, Curet M, Heinrichs WL, Dev P, Wren SM "Comparison of training on two laparoscopic simulators and assessment of skills transfer to surgical performance." *J Am Coll Surg*. 2005; 200: 4: 546-51.
7. Srivastava S, Youngblood PL, Rawn C, Hariri S, Heinrichs WL, Ladd AL "Initial evaluation of a shoulder arthroscopy simulator: establishing construct validity." *J Shoulder Elbow Surg*. 2004 Mar-Apr; 13: 2: 196-205.
8. **Heinrichs WL, Srivastava S, Dev P, Chase R. "LUCY,v2.6: A 3D pelvic model for surgical simulation." *Journal of the American Association of Gynecologic Laparoscopists*. 2004; 11: No. 3: 326-331.**
9. Heinrichs WL, Srivastava S, Montgomery K, Dev P "The fundamental manipulations of surgery: a structured vocabulary for designing surgical curricula and simulators." *J Am Assoc Gynecol Laparosc*. 2004; 11: 4: 450-6.
10. Heinrichs WL, Srivastava S, Dev P, Chase RA "LUCY: a 3-D pelvic model for surgical simulation." *J Am Assoc Gynecol Laparosc*. 2004; 11: 3: 326-31.
11. **Dev P, Montgomery K, Senger S, Heinrichs WL, Srivastava S, Waldron K "Simulated medical learning environments on the Internet." *J Am Med Inform Assoc*. 2002 Sep-Oct; 9: 5: 437-47.**
12. Pugh CM, Srivastava S, Heinrichs WL "Visual representations of physical abilities: reverse haptic technology?" *Stud Health Technol Inform*. 2002; 85: 380-1.
13. Dev P, Heinrichs WL, Srivastava S, Montgomery KN, Senger S, Temkin B, Hasser C, Latombe JC, Heegaard J, Youngblood P, Friedman CP, Waldron K "Simulated learning environments in anatomy and surgery delivered via the next generation internet." *Medinfo*. 2001; 10: Pt 2: 1014-8.
14. **Pugh CM, Srivastava S, Shavelson R, Walker D, Cotner T, Scarloss B, Kuo M, Rawn C, Dev P, Krummel TH, Heinrichs LH "The effect of simulator use on learning and self-assessment: the case of Stanford University's E-Pelvis simulator." *Stud Health Technol Inform*. 2001; 81: 396-400.**
15. **Heinrichs, L, Montgomery, K; Bruyns, C; Wildermuth, S; Hasser, C; Ozenne, S; Bailey, D; ""Surgical Simulator for Diagnostic and Operative Hysteroscopy", in Proc.15th Annual Int'l Computer-Assisted Radiology & Surgery (CARS)" H. Lemke ed:) Elsevier Science Press, Amsterdam, The Netherlands. 2001;**
16. Acosta E, Temkin B, Krummel TM, Heinrichs WL "G2H--graphics-to-haptic virtual environment development tool for PC's." *Stud Health Technol Inform*. 2000; 70: 1-3.
17. Heinrichs WL, Henzl MR "Human issues and medical economics of endometriosis. Three- vs. six-month GnRH-agonist therapy." *J Reprod Med*. 1998; 43: 3 Suppl: 299-308.
18. Dev P, Pichumani R, Walker D, Heinrichs WL, Karadi C, Lorie W "Formative design of a virtual learning environment." *Stud Health Technol Inform*. 1998; 50: 392-8.
19. **Heinrichs WL, Pichumani R, Mather R, Dev P "Information frames: a new multimedia approach to Web-based learning of biology and medicine." *Stud Health Technol Inform*. 1998; 50: 370-2.**
20. **Tsai CL, Heinrichs WL "Acquisition of Eye-hand Coordination Skills for Videoendoscopic Surgery" *J Am Assoc Gynecol Laparosc*. 1994; 1: 4, Part 2: S37.**
21. Simón C, Piquette GN, Frances A, Westphal LM, Heinrichs WL, Polan ML "Interleukin-1 type I receptor messenger ribonucleic acid expression in human endometrium throughout the menstrual cycle." *Fertil Steril*. 1993; 59: 4: 791-6.
22. **Heinrichs WL, Fong P, Flannery M, Heinrichs SC, Crooks LE, Spindle A, Pedersen RA "Midgestational exposure of pregnant BALB/c mice to magnetic resonance imaging conditions." *Magn Reson Imaging*. 1988 May-Jun; 6: 3: 305-13.**
23. Steele CR, Zhou LJ, Guido D, Marcus R, Heinrichs WL, Cheema C "Noninvasive determination of ulnar stiffness from mechanical response--in vivo comparison of stiffness and bone mineral content in humans." *J Biomech Eng*. 1988; 110: 2: 87-96.