

## **CURRICULUM VITAE**

**JOHN J. BAUER, M.D.**

### **PERSONAL DATA**

Date of birth: 9-Apr-60  
Place of birth: Bad Kreuznach, Germany  
Marital status: Married, Kimberly A. Bauer  
Children: Jonathan (12y/o), Joshua (9y/o)  
e-mail: [jbauer@flinturology.com](mailto:jbauer@flinturology.com)

### **EDUCATION AND DEGREES**

**UNDERGRADUATE**  
1978-1982  
University of Detroit  
Detroit, Michigan  
B.S. (Chemistry/Computer Science)  
Summa Cum Laude  
ROTC Scholarship (Distinguished Military Student)

**MEDICAL SCHOOL**  
1983-1987  
Wayne State University  
Detroit, Michigan  
M.D.  
Army Health Professional Scholarship Program (HPSP)  
Graduated top 15%

**INTERNSHIP**  
1987-1988  
Tripler Army Medical Center  
Honolulu, Hawaii  
Transitional/Surgical Intern

**RESIDENCY**  
1992-1997  
Walter Reed Army Medical Center  
Washington D.C.  
Urology Resident

**POST-GRADUATE UROLOGY  
RESEARCH FELLOWSHIP**  
1997-1999  
Johns Hopkins University  
Baltimore, Maryland  
Emphasis: Medical Informatics/Telemedicine/Telepresence Surgery  
(POC Dr. Louis R. Kavoussi, M.D.)

**POSTGRADUATE TRAINING**  
1997-1999  
Walter Reed Army Medical Center  
Washington, D.C.  
Urodynamics and Female Urology  
(POC Dr. Burkhardt H. Zorn, M.D.)

### **MILITARY SERVICE/MEDICAL JOB EXPERIENCE**

1987-1988  
Tripler Army Medical Center, Honolulu, Hawaii  
(Transitional/Surgical Internship)

1988-1992  
7th Special Forces (Airborne), Ft. Bragg, North Carolina  
(Battalion and Group Surgeon)-General Practice

1992-1997  
Walter Reed Army Medical Center, Washington D.C.  
(Urology Resident)

1993-2001  
Center for Prostate Disease Research (CPDR)  
Principal Investigator, Bethesda/Rockville, Maryland

1997-2001  
USA Medical Research and Materiel Command (MRMC)  
Telemedicine and Advanced Technology Research Center  
Ft. Detrick, Maryland

(Director, Surgical Technology)

1997-2001  
Walter Reed Army Medical Center, Washington D.C.  
Director, Urology Telemedicine and Advanced Technology  
(Staff Attending Urologist)

1999-2000  
Research Coordinator for Science and Technology Evaluation  
Plan (STEP T, Medical Simulation Training Initiative)  
of the US Army Combat Casualty Care Program  
-appointed by Commanding General and the Joint Technology  
Coordinating Group-6 of the Armed Services Biomedical  
Research and Evaluation Management Committee

2000-2001  
Walter Reed Army Medical Center, Washington, D.C.  
Director, Infertility and Impotence  
(Staff Attending Urologist)

2000-2001  
Private Practice (Solo)  
Michigan Urology Associates, P.C.  
Flint, Michigan

2001- Present  
Private Practice (Group)  
Urology Services, P.C.  
Flint, Michigan

#### **PROFESSIONAL DEVELOPMENT COURSES**

1987  
1988  
1988  
1988  
1989  
1990  
1990  
1991  
1994  
1995  
1996  
1988  
1999  
  
1999  
2000  
2000  
2001  
2001  
2001

Officer Basic Course (OBC)  
Combat Casualty Care Course (C4)  
Flight Surgeons Course (Aviation Medicine)  
Airborne Course (Honor Graduate)  
Officer Advanced Course (OAC)  
Dive Medical Officer (DMO) Course (Undersea Medicine)  
Scuba Diver Course  
ATLS Instructor Course  
Cryosurgery Course (USUHS)  
Laparoscopic Surgery Course (USUHS)  
Laser Certification Course (WRAMC)  
Dept. of Clinical Investigations (DCI) Research Course (WRAMC)  
Medical Informatics: Computer Applications in Health Care  
(Stanford University)  
Preceptorship, Radical Perineal Prostatectomy, Traverse City, MI  
Contigen Implant Training Program, PIN# 50072, 2/16/2000  
Medical Effects of Ionizing Radiation (MEIR)  
Interstitial Laser Coagulation Course, Cincinnati, OH  
Tension Free Vaginal Tape Course, Cincinnati, OH  
Prostate Radioactive Seed Placement Course, Cincinnati, OH

#### **SECURITY CLEARANCE**

1988-present  
Top Secret with Background Investigation (TSBI)

#### **MILITARY AWARDS**

1983  
1987  
1988  
1988  
1988

Distinguished Military Student Award (Top ROTC Cadet)  
Service Ribbon  
Overseas Ribbon  
Flight Surgeons Badge  
Airborne Badge

1988	William T. Ryder Award (Honor Graduate Airborne School)
1988	Army Achievement Medal (Bolivia)
1989	Army Achievement Medal-1st OLC (Honduras)
1989	Army Achievement Medal-2nd OLC (Bolivia)
1990	Army Commendation Medal (Shock Trauma, Baltimore)
1990	Scuba Diver Badge
1991	Defense Service Ribbon (Gulf War)
1992	Meritorious Service Medal (Special Forces, Green Berets)
1997	Army Commendation Medal-1st OLC (finalist, Bailey K. Ashford Research Award)
1998	Army Commendation Medal-2nd OLC, (USA-MRMC)
1999	Cold War Recognition Certificate
1999	ATA Conference, Salt Lake City, Utah, May 1999 Special Recognition Award, from MG John Parker
2000	Meritorious Service Medal (Medical Research and Materiel Command)
2001	Meritorious Service Medal (Walter Reed AMC)

### **PROFESSIONAL AWARDS**

1995	Joseph H. Baugh Resident Research Essay Competition 1st Prize- clinical manuscript presentation
1995	Mid-Atlantic AUA Resident Essay Competition (Bermuda) 2nd Prize- clinical manuscript presentation
1996	Washington Urological Society Resident Competition 2nd Prize- case presentation
1996	AUA Resident Prize Essay Competition (Orlando) 3rd Prize- clinical essay contest
1996	Joseph H. Baugh Resident Research Essay Competition 2nd Prize- clinical manuscript presentation
1996	Mid-Atlantic AUA Resident Essay Competition(Washington DC) 2nd Prize- basic science manuscript presentation
1997	Washington Urological Society Resident Competition 2nd Prize- clinical manuscript presentation
1997	Joseph H. Baugh Resident Research Essay Competition finalist- clinical manuscript presentation
1997	Bailey K. Ashford Research Award (top military resident/fellow researcher)- finalist
1997	Mid-Atlantic AUA Resident Essay Competition(Hot Springs, Va) 1st Prize- clinical manuscript essay contest (2nd author)
1998	Washington Urological Society Resident Competition 1st Prize- clinical manuscript presentation (2nd author)
1999	Washington Academy of Surgery, Washington, D.C. 1st Prize- clinical Manuscript (Senior Author) Virtual Prostate Simulation for Assessment of Proper Biopsy Technique with Clinical Correlation
1999	3rd Annual Baltimore-Washington GU Jeopardy Competition 1st-prize: \$500 dollars (by TAP)

### **APPOINTMENTS**

## **Hospital Appointments**

2000- present  
McLaren Regional Medical Center  
Flint, Michigan  
Full Privileges

2000- present  
Genesys Regional Medical Center  
Flint, Michigan  
Full Privileges

2000-present  
Hurley Regional Medical Center  
Flint, Michigan  
Full Privileges

2000-present  
Surgery Center  
Flint, Michigan  
Full Privileges

2001-2002  
McLaren Medical Center  
Lapeer, Michigan  
Courtesy Privileges

## **Faculty Appointments**

1995-1999  
Instructor in Surgery  
Uniformed Services University of the Health Sciences  
Bethesda, Maryland

1997-2001  
Staff Attending Urologist  
Walter Reed Army Medical Center  
Washington D.C.

1997-2001  
Staff Urologist  
Kimbrough Army Community Hospital  
Ft. Meade, Maryland

1997-2001  
Staff Urologist  
National Naval Medical Center  
Bethesda, Maryland

1999-2001  
Adjunct Assistant Research Professor  
Department of Radiology  
Georgetown University  
School of Medicine  
Washington D.C.

1999-present  
Assistant Professor  
Department of Surgery  
Uniformed Services University of the Health Sciences  
Bethesda, Maryland

## **Committee Appointments**

1998-2000  
Executive Committee, National-CIMIT  
National Centers for Innovative Minimally Invasive Therapies  
(DOD, MIT, Harvard, Draper Labs, Mass Gen. Hospital and  
Brigham and Women's Hospital)  
Boston, Massachusetts

1998-2000	Consultant, Technology Assessment Council, Special Committee, American Urological Association (AUA)
1998-1999	Member, Surgical Simulation Committee, component of the American Urological Association (AUA) Technology Assessment Council
1998-1999	Member, Committee on Robotics, Telemedicine and Informatics component of the American Urological Association (AUA) Technology Assessment Council
1998-present	Member, Committee on Alternative Medicine of the American Urological Association (AUA)
1998-1999	Member, Program Committee for Battlefield Biomedical Technologies, part of SPIE's International Symposium on Aerosense conference, Orlando FL, April 1999
1998-1999	Member, Program Committee for Medical Imaging Display, part of SPIE's International Symposium on Medical Imaging 1999 conference, San Diego, CA, February 20-26, 1999.
1998-1999	International Co-Chairman, Advisory Chair Telemedicine '99 Conference, Lucknow, India
1999	Advisory Board, Medical University of South Carolina Charleston, South Carolina, Coastal Carolina Cancer Project
1999-2000	Member, Program Committee for Medical Imaging Display, part of SPIE's International Symposium on Medical Imaging 2000 conference, San Diego, CA, February 12-18, 2000.
1999-2001	Member, Scientific Committee Center for Prostate Disease Research (CPDR) Congressionally Appropriated Prostate Cancer Research Program Bethesda, Maryland
1999-2000	Member, Program Committee for Battlefield Biomedical Technologies II, part of SPIE's International Symposium on Aerosense conference, Orlando FL, April 2000
1998-2000	Member, Committee on Surgical Simulation, Telemedicine and Robotics, component of the American Urological Association (AUA) Technology Assessment Council
1999-2000	Novartis Oncology, Prostate Cancer Advisory Board
1999-2000	Novartis Oncology Aredia Team, Consultant
1999-2000	Chair, Volume Visualization and Clinical Applications II, Program Committee for Medical Imaging Display part of SPIE's International Symposium on Medical Imaging 2000 conference, San Diego, CA, February 12-18, 2000.
2000	Chair, Medical Modeling & Simulation Integrated Research Team Telemedicine and Advanced Research Center (TATRC) New Market, Maryland, 16-18 Feb 2000

**Journal Manuscript Expert Reviewer**

1997- 2002	Journal of Urology
------------	--------------------

1998- 2002	Urology Journal
1999- present	British Journal of Cancer
2000-present	Telemedicine Journal

**PROFESSIONAL MEMBERSHIPS**

1985-2000	Association of Military Surgeons of the U.S. (AMSUS)
1987-present	Wayne State University, School of Medicine, Alumni Association
1992-1999	American Urological Association (AUA)- candidate member
1992-1999	Mid-Atlantic Urological Association- candidate member
1992-2000	Society of Government Service Urologists (SGSU)- member
1992-1999	Washington Urological Society- member
1992-2000	Uniformed Services Urology Research Group (USURG)
1998-2000	International Consortium of Ocular Telehealth (ICOT)
1999-present	Mid-Atlantic Urological Association- active member
1999-present	American Urological Association (AUA)- active member
1999-2000	Washington-Computer Assisted Surgery (CAS) Society
2000-present	FACS (Fellow, American College of Surgeons)
2000-present	American Medical Association
2000-present	Michigan State Medical Society
2000-present	Genesee County Medical Society

**PROFESSIONAL LICENSES AND BOARDS**

1988		Diplomat National Board of Medical Examiners
1988-present		Medical License- Michigan #4301053705
1997-2000		Medical License- Maryland #D0052497
1997	1st -pass	Part I - Urology Boards (June 6,1997; Johns Hopkins University, Baltimore, Maryland), 71st percentile, Candidate # 2610
1998-1999		Medical License- Washington, D.C. #
1999	1st -pass	Part II - Urology Boards (Feb 18-20,1999; Dallas, Texas)
1999		Certified Diplomat of the American Board of Urology (3/17/1999)
1999	member	The Official ABMS Directory of Board Certified Medical Specialists

**PRESS COVERAGE**

1990	"Urban Combat", Special Forces Trauma Doctor Baltimore Sun (front page lead story) November 19, 1990 issue
1997	"Tele-view of Medical Future" Fort Detrick and Fort Richie STANDARD August 7, 1997 issue
1998	"Adventures in Science" (Adv. Tech. on Mt. Everest) Walter Reed Army Medical Center STRIPE (front page lead story) June 5, 1998, Vol. 54, No. 22
1998	"Live From The Top Of The World" The MERCURY, Army Medical Department July 1998, Vol. 25 No. 10
1999	SIGNAL, AFCEA's International Journal, July 1999 issue Telemedicine: Exploring Inner Space Injury Evaluation Deepens With Echo Arcing Technique, p.45-46.

**COMMUNITY SERVICE**

1997 (Spring)	Olney Boys and Girls Club (OBGC) Instructional soccer coach
---------------	--

1997 (Fall)	Olney Boys and Girls Club (OBGC) Pee Wee soccer coach
1998 (Spring)	Olney Boys and Girls Club (OBGC) Pee Wee soccer coach
1998 (Fall)	Olney Boys and Girls Club (OBGC) Bantam soccer coach
1999	Army Emergency Relief (AER) Fund raising Campaign, Unit Representative
1999 (Spring)	Olney Boys and Girls Club (OBGC) Bantam soccer coach
1999 (Fall)	Olney Boys and Girls Club (OBGC) Bantam soccer coach
2000 (Spring)	Olney Boys and Girls Club (OBGC) Bantam soccer coach

### **HUMANITARIAN MEDICAL MISSIONS**

1988	Villa Montes, Bolivia 21 Nov-17 Dec, 1988
1989	Soto Cano, Honduras 21 Apr- 15 Jun, 1989
1989	Camiri, Bolivia 15 Oct- 8 Dec, 1989
1990	Guatemala City, Guatemala 9 Feb- 13 Feb, 1990
1990	Camiri, Bolivia 29 May- 1 Jul, 1990
1990	Chimore, Bolivia 5 Sept- 30 Sept, 1990
1991	Quito, Ecuador 25 Jul- 27 Aug, 1991
1997	Nepalese-American Workshop on Kidney Stone Management Endourological and Percutaneous Surgical Techniques Katmandu, Nepal 28 Feb- 11 Mar, 1997

### **CME MANUSCRIPTS**

- 1.) Heidenberg HB, Bauer JJ, McLeod DG, Moul JW, Srivastava S: The role of p53 tumor suppressor gene in prostate cancer: a possible biomarker? Urol., 48:971-9, 1996.
- 2.) Bauer JJ, Zorn B, Moul JW: Benign prostatic hyperplasia: new concepts in the 1990's. Fed. Prac., 14(4):24-36, 1997.
- 3.) Bauer JJ, Moul JW: Prostatitis: diagnostic and treatment challenges. Fed. Prac., 14(9):10-15, 1997.
- 4.) Bettencourt MC, Bauer JJ, Sesterhenn IA, Connelly RA, McLeod DG, Moul JW: CD34 Immunohistochemical assessment of angiogenesis as a prognostic marker for prostate cancer recurrence after radical prostatectomy. J. Urol, 160:459-465, 1998.

- 5.) Bauer JJ, Srivastava S, Connelly RR, Sesterhenn IA, McLeod DG, Moul JW: Significance of familial prostate cancer on traditional prognostic variables, genetic biomarkers, and outcome after radical prostatectomy. *Urology*, 51:970-6, 1998.
- 6.) Zorn B, Bauer JJ, Moul JW: Benign prostatic hyperplasia: new concepts for the millenium. *The American Journal of Managed Care*, 5(7):911-924, 1999.
- 7.) Stackhouse GB, Sesterhenn IA, Bauer JJ, Mostofi FK, Connelly RR, Moul JW: p53 and bcl-2 Immunohistochemistry in pretreatment prostate needle biopsies to predict recurrence of prostate cancer after radical prostatectomy. *J. Urol.*,

#### **ABSTRACTS, PRESENTATIONS and INVITED TALKS**

- 1.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: p53 Nuclear protein expression is an independent prognostic marker in clinically localized prostate cancer patients undergoing radical prostatectomy. Mid- Atlantic AUA, Bermuda, Oct 1995.
- 2.) Bettencourt MC, Bauer JJ, Moul JW, Mostofi FK, Davis CJ, Sesterhenn IA: Ki-67 expression and prognostic significance in clinically localized prostate cancer. *Lab Investigation*, 74(1):70, Abstract #400, 1996.
- 3.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: p53 and bcl-2 protein expression in the primary tumor are independent prognostic biomarkers in surgically treated clinically localized prostate cancer patients. *Am. Assoc. Cancer Res. (AACR)*, 37:572, Abstract #3922, 1996.
- 4.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: Elevated levels of apoptosis regulator proteins p53 and bcl-2 are independent prognostic biomarkers in surgically treated clinically localized prostate cancer patients. 1996 International Symposium on Biology of Prostate Cancer Growth, 1:91, Abstract # 91, 1996.
- 5.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: Elevated levels of apoptosis regulator proteins p53 and bcl-2 are independent prognostic biomarkers in surgically treated clinically localized prostate cancer patients. *J. Urol.*, 155(suppl.): Abstract #964, 1996.
- 6.) Moul JW, Bauer JJ, Connelly RR, Sesterhenn IA, Bettencourt MC, Srivastava S, Mostofi KF, McLeod DG: Biostatistical modeling using traditional prognostic variables and genetic biomarkers p53, bcl-2 and Ki-67 (MIB-1) in the selection of men at high risk for disease recurrence after radical prostatectomy. *Eur. Urol.*, 30 (suppl. 2):144, Abstract #509, 1996.
- 7.) Moul JW, Bettencourt MC, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Bauer JJ: p53, bcl-2 and Ki-67 (MIB-1) protein expression as prognostic biomarkers in surgically treated clinically localized prostate cancer. 75th Annual Meeting of the Society of University Surgeons, Washington D.C., Feb 8-10, 1996.
- 8.) Sesterhenn IA, Bauer JJ, Mostofi KF, McLeod DG, Srivastava S, Moul JW: Apoptosis regulator proteins are independent prognostic biomarkers in surgically treated clinically localized prostate cancer patients. XXI International Congress of the International Academy of Pathology and 12th World Congress of Academic and Environmental Pathology, Budapest, Hungary, p. 104, Abstract # 42, Oct 20-25, 1996.
- 9.) Sesterhenn IA, Bettencourt MC, Bauer JJ, Moul JW, Mostofi FK, Davis CJ: Ki-67 expression and prognostic significance in clinically localized prostate cancer. XXI International Congress of the International Academy of Pathology and 12th World Congress of Academic and Environmental Pathology, Budapest, Hungary, p.216, Abstract #123, Oct 20-25, 1996.
- 10.) Bauer JJ, Connelly RR, Sesterhenn IA, Bettencourt MC, McLeod DG, Srivastava S, Moul JW: Traditional variables and genetic biomarkers for predicting risk for prostate cancer recurrence after radical retropubic prostatectomy. 54th Mid-Atlantic AUA, Washington D.C., Abstract # 6,



Oct 27-30,1996.

- 11.) Bauer JJ: Pediatric Nephrolithiasis. Washington Children's Hospital, 7 Mar 1996, Washington, D.C.
- 12.) Bauer JJ, Connelly RR, Sesterhenn IA, Bettencourt MC, McLeod DG, Srivastava S, Moul JW: Biostatistical modeling using traditional prognostic variables in the selection of men at high risk for prostate cancer recurrence after radical prostatectomy. J. Urol., 157(suppl.):298, Abstract #1162, 92nd AUA, New Orleans, LA, April 12-17, 1997.
- 13.) Bettencourt MC, Bauer JJ, Sesterhenn IA, Connelly RR, McLeod DG, Moul JW: Angiogenesis is a prognostic marker of prostate cancer recurrence after radical prostatectomy. J. Urol., 157(suppl.):297, Abstract #1156, 92nd AUA, New Orleans, LA, April 12-17, 1997.
- 14.) Bauer JJ, Jackman SV, Schulam PG, Kaufman HS, Moore RG, Kavoussi LR: Laparoscopy for the acute abdomen in the postoperative period. 15th World Congress on Endourology, Edinburgh, Scotland, Aug 31- 3 Sept, 1997.
- 15.) Bauer JJ, Connelly RR, Sesterhenn IA, McLeod DG, Srivastava S, Moul JW: Statistical modeling using pre-operative prognostic variables in predicting extracapsular extension and progression after radical prostatectomy for prostate cancer. 55th Mid-Atlantic AUA, Hot Springs, Virginia, Abstract # 23, Sept.28- Oct. 1, 1997.
- 16.) Preston DM, Bauer JJ, Halligan JB, Leifer ES, McLeod DG, Moul JW: External beam radiation therapy for prostate cancer in the PSA era (1988-1995). 55th Mid-Atlantic AUA, Hot Springs, Virginia, Abstract # 4, Sept.28- Oct. 1, 1997.
- 17.) Bauer JJ, Connelly RR, Sesterhenn IA, McLeod DG, Srivastava S, Preston DM, Moul JW: Significance of familial prostate cancer on traditional prognostic variables, genetic biomarkers and outcome after radical prostatectomy. SGSU Kimbrough, San Francisco, CA, Abstract # 98, Nov.16- 21, 1997.
- 18.) Bauer JJ, Connelly RR, Sesterhenn IA, McLeod DG, Srivastava S, Moul JW: Statistical modeling using pre-operative prognostic variables in predicting extracapsular extension and progression after radical prostatectomy for prostate cancer. SGSU Kimbrough, San Francisco, CA, Abstract # 96, Nov. 16-21, 1997.
- 19.) Bettencourt MC, Bauer JJ, Sesterhenn IA, Connelly RR, Moul JW: CD 34 Immunohistochemical assessment of angiogenesis as a prognostic marker of prostate recurrence after radical prostatectomy. SGSU Kimbrough, San Francisco, CA, Abstract # 39, Nov 16-21, 1997.
- 20.) Stackhouse GB, Sesterhenn IA, Bauer JJ, Moul JW: p53 and bcl-2 Immunohistochemical staining in prostate biopsies does not correlate with Immunohistochemical staining of prostatectomy specimens or with PSA recurrence. SGSU Kimbrough, San Francisco, CA, Abstract # 117, Nov 16-21, 1997.
- 21.) Bauer JJ: Military Surgery in the 21st Century. 11th Annual WRAMC/USUHS Cardiothoracic Surgery Symposium, 19 Feb, 1998, Washington D.C.
- 22.) Bauer JJ: Capital Area Telesurgical Test Bed. Healthcare Information and Management System Society (HIMSS) conference "The '98 Future", 23-26 Feb, 1998, Orlando, Florida.
- 23.) Bauer JJ: Capital Area Telesurgical Test Bed. Commanders Conference, 2-5 Mar 1998, San Antonio, Texas.
- 24.) Bauer JJ: New Concepts in Tele-Urology. Uniformed Services Urology Research Group (USURG) Conference, 5-8 Mar, 1998, Denver, Colorado.
- 25.) Bauer JJ: Establishment of a Capital Area Telesurgical Test Bed. American Telemedicine Association (ATA) conference, 4-8 April 1998, Orlando, Florida.

- 26.) Bauer JJ, Zeng J, Sesterhenn IA, Moul JW, Mun SK: 3-D computer simulation of prostate biopsy protocols. PACMEDTek Conference, 16-21 August 1998, Honolulu, Hawaii.
- 27.) Zeng J, Bauer JJ, Kaplan C, Sesterhenn IA, Moul JW, Mun SK: Visualization and evaluation of prostate needle biopsy. First International Conference on Medical Image Computing and Computer-Assisted Intervention. 11-13 Oct 1998, Boston, MA.
- 28.) Smith CV, Bauer JJ, Foley J, Thrasher JB, Kusuda L, Kane CJ, Seay TM, Moul JW: Prostate cancer in men 50 years of age or less: A review of the CPDR multicenter prostate cancer database. 56th Mid- Atlantic AUA, Palm Beach, FL, Abstract #24, Oct 4, 1998.
- 29.) Smith CV, Bauer JJ, Bloom JG, Bridges JD, Pinto AG, Koch JL, Moul JW: Comparison of disease progression in pT3 prostate cancer receiving adjuvant or salvage Radiotherapy following radical prostatectomy. 56th Mid-Atlantic AUA, Palm Beach, FL, Abstract #34, Oct 4, 1998.
- 30.) Bauer JJ: Current endoscopic surgical simulation technology: can it be applied to urology? SGSU Kimbrough, Williamsburg, VA, Abstract # 56, Oct 11-16, 1998.
- 31.) Bauer JJ, Sesterhenn IA, Zeng J, Mun SK, Moul JW: Comparison of sextant and 5-region systematic prostate biopsy techniques using a 3-D computer simulation of step-sectioned radical prostatectomy specimens. SGSU Kimbrough, Williamsburg, VA, Abstract #95, Oct 11-16, 1998.
- 32.) Bauer JJ, Lee BR, Stoianovici D, Young C, Partin A, Kavoussi LR: Robotic telesurgery: Effect of time delay on surgical performance. SGSU Kimbrough, Williamsburg, VA, Abstract# 58, Oct 11-16, 1998.
- 33.) Bauer JJ, Stackhouse GB, Sesterhenn IA, McLeod DG, Moul JW: Update: p53 and bcl-2 continue to be independent predictors of PSA recurrence after radical prostatectomy for localized prostate cancer. SGSU Kimbrough, Williamsburg, VA, Abstract # 84, Oct 11-16, 1998.
- 34.) Bauer JJ, Bishoff JT, Moore RG, Chen RN, Iverson AJ, Kavoussi LR: Laparoscopic vs open pyeloplasty: assessment of long-term objective and subjective outcome. SGSU Kimbrough, Williamsburg, VA, Abstract # 57, Oct 11-16, 1998.
- 35.) Bauer JJ, Sesterhenn IA, Zeng J, Mun SK, Moul JW: Comparison of needle core tumor volume to total tumor volume using sextant and 5-region systematic prostate biopsy techniques in a 3-D computer simulation of step sectioned radical prostatectomy specimens. SGSU Kimbrough, Williamsburg VA, Abstract # 96, Oct 11-16, 1998.
- 36.) Bishoff JT, Stoianovici D, Lee BR, Bauer JJ, Taylor RH, Whitcomb LL, Cadeddu JA, Chan D, Kavoussi LR: RCM-PAKY: Clinical application of a new robotic system for precise needle placement. J. Endourology, 12:S82, 1998.
- 37.) Bauer JJ: Physicians office of the future. Demonstration for Health and Medical Technology Pavilion 1998 Maryland Technology Showcase, Baltimore, Maryland, Dec 8-10, 1998.
- 38.) Perkable TL, Bauer JJ: A telementored trans-rectal ultrasound guided prostate biopsy. Medicine Meets Virtual Reality (MMVR) 7.0, San Francisco, CA, Jan 20-23, 1999.
- 39.) Zeng J, Bauer JJ, Zhang W, Sesterhenn IA, Moul JW, Mun SK: Prostate biopsy schemes: 3-D visualization based evaluation. Medicine Meets Virtual Reality (MMVR) 7.0, San Francisco, CA, Jan 20-23, 1999.
- 40.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Moul JW, Mun SK: Optimization of prostate biopsy. SPIE's International Symposium " Medical Imaging 1999", San Diego, CA,

- 41.) Bauer JJ: Application of telemedicine for remote surgical mentoring. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # 18, April 18-21,1999. Telemedicine Journal, 5(1):7,1999.
- 42.) Bauer JJ, Lee BR, Bishoff J, Caddeu JA, Schulman P, Docimo S, Janetschek G, Macali S, Stoianovici D, Kavoussi LR: International telesurgical mentoring: early experience. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract #18A, April 18-21, 1999, Telemedicine Journal, 5(1):26,1999.
- 43.) Bauer JJ, Stoianovici D, Lee BR, Bishoff J, Caddeu JA, Whitcomb LL, Taylor RH, Macali S, Kavoussi LR: Transcontinental telesurgical robotic percutaneous renal access: case study. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # 18D, April 18-21, 1999, Telemedicine Journal, 5(1):27,1999.
- 44.) Bauer JJ, Lee BR, Stoianovici D, Young C, Partin AW, Kavoussi LR: Effect of time delay on telesurgical robotic manipulation. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # 18C, April 18-21, 1999, Telemedicine Journal, 5(1):26,1999.
- 45.) Bauer JJ, Purkable T: Teleproctored transrectal ultrasound prostate biopsy: initial experience. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # 18B, April 18-21, 1999, Telemedicine Journal, 5(1):26,1999.
- 46.) Bauer JJ, Weghorst S, Airola C, Oppenheimer P, Edmond CV, Heskamp D, Miller J: Endosinus Surgical Simulator (EES): Clinical Validation. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # P9, April 18-21, 1999, Telemedicine Journal, 5(1):80,1999.
- 47.) Bauer JJ, Mourant JR, Bigio IJ: Elastic-scattering spectroscopy (EES): a potential minimally invasive technology for optical tissue biopsy. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # P8, April 18-21, 1999, Telemedicine Journal, 5(1):79,1999.
- 48.) Bauer JJ, Illi O, Cancio L, Nissman DB, McCartney ML, Kizakevich P: Trauma Patient Simulator: a patient assessment and trauma care simulator. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # P10, April 18-21, 1999, Telemedicine Journal, 5(1):80,1999.
- 49.) Bower KS, Thatch AB, Ward TP, Stutzman R, Bauer JJ, Simon D: Teleophthomology in the evaluation of ocular trauma in an animal model. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # P15, April 18-21, 1999 Telemedicine Journal, 5(1):83,1999.
- 50.) Bower KS, Trudo ED, Ward TP, Stutzman R, Kramer KK, Niemi E, Channing E, Bauer JJ: Clinical evaluation of a high resolution digitized stereo video slit-lamp for use in teleophthomology. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, abstract # 26, April 18-21, 1999, Telemedicine Journal, 5(1):31,1999.
- 51.) Channing ES, Olson RJ, Imbrescia WA, Bower KS, Bauer JJ: International consortium on ocular telehealth (ICOT). American Telemedicine Association (ATA) conference, Salt Lake City, Utah, April 18-21, 1999, Telemedicine Journal, 5(1):86,1999.
- 52.) Calcagni DE, Bauer JJ, Beck C, Channing E, Poropatich R, Tebo S: What's new in medical advanced technology in the department of defense. American Telemedicine Association (ATA) conference, Salt Lake City, Utah, April 18-12, 1999, Telemedicine Journal, 5(1):85,1999.
- 53.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: Lateral prostate biopsys increase the detection rate of prostate cancer in 3-D computer simulated prostate models. 94th annual AUA meeting, Dallas, Texas, abstract # 364, J. Urol., 161:97, May 1-6, 1999.
- 54.) Burke HB, Bauer JJ, Moul JW: Predicting recurrence in early detected prostate cancer using p53.

94th Annual AUA meeting, Dallas, Texas, abstract # 942, J. Urol., 161:244, May 1-6, 1999.

- 55.) Moul JW, Connelly RR, McLeod DG, Mooneyhan R, Bauer JJ, Frazier HA, Friedrichs P, Schenkman N, Thrasher JB, Marquis T, Porter J, Kusuda L, Wilhite D, Kane C: Nomogram based on sextant positive biopsy cores, Gleason sum and pre-biopsy PSA to predict organ confinement in radical prostatectomy patients- a Center for Prostate Disease Research (CPDR) Multi-center study. 94th Annual AUA meeting, Dallas, Texas, abstract # 344, J. Urol., 161:245, May 1-6, 1999.
- 56.) Bauer JJ, Illi O, Cancio L, Nissman DB, McCartney ML, Kizakevich P: Trauma Patient Simulator: a patient assessment and trauma care simulator. Aerospace Medical Association (AsMA) conference, Detroit, Michigan, abstract # 269, May 16-20, 1999, Aviation, Space, and Environmental Medicine Journal, 70(4):415,1999.
- 57.) Bauer JJ, Lee BR, Stoianovici D, Young C, Partin AW, Kavoussi LR: Effect of time delay on telesurgical robotic manipulation. Aerospace Medical Association (AsMA) conference, Detroit, Michigan, abstract # 307, May 16-20, 1999, Aviation, Space and Environmental Medicine Journal, 70(4):424, 1999.
- 58.) Bauer JJ, Connelly RR, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: Biostatistical modeling using traditional pre-operative and pathological prognostic variables in the selection of men at high risk for prostate cancer recurrence after radical prostatectomy for prostate cancer. Extended Abstract in Hormonal Therapy in Andrology and Urology, International Update on Leuprorelin, No. 4 1999. Special Interview, J.W. Moul, MD.
- 53.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: A systematic approach to the 10-core prostate biopsy pattern to increase the detection rate of carcinoma: 3-D computer simulation and clinical correlation. Mid-Atlantic Urological Association conference, Hilton Head, South Carolina, abstract #24, Oct 3-7, 1999.
- 54.) Moul JW, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Bauer JJ: Comparison of prostate cancer tumor location in black and white radical prostatectomy patients using simulated computer biopsy of three- dimensional reconstructed models. Urological Association conference, Hilton Head, South Carolina, abstract # P10, Oct 3-7, 1999.
- 55.) Bauer JJ, Lee BR, Stoianovici D, Bishoff JT, Janetschek G, Bunyaravej P, Kamolpronwijiit W, Ratchanon S, O'Kelly S, Cadeddu JA, Micali S, Micali F, Li MK, Goh P, Png D, Kavoussi LR: Remote telesurgical mentoring: feasibility and efficacy. IEEE Proceedings, HICSS-33 conference, p. 123, Maui, Hawaii, Jan 3-8, 2000.
- 56.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: Simulation leads to an improved systematic technique for the detection of prostate cancer: clinical correlation. Medicine Meets Virtual Reality (MMVR 2000), Final Program, p.43, Newport Beach, CA, Jan 27-30, 2000.
- 57.) Tasto JL, Verstreken K, Brown M, Bauer JJ: Preop Endoscopic simulator: From bronchoscopy to ureteroscopy. Medicine Meets Virtual Reality (MMVR 2000), Final Program, p. 157 Newport Beach, CA, Jan 27-30, 2000.
- 58.) Zeng J, Bauer JJ, Yao X, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Moul JW, Mun SK: Investigating 3D tumor distribution for optimized diagnosis of prostate cancer. Medicine Meets Virtual Reality (MMVR 2000), Final Program, p. 175, Newport Beach, CA, Jan 27-30, 2000.
- 59.) Jensen J, Bauer JJ: Telepresence microsurgery system development. Medicine Meets Virtual Reality (MMVR 2000), Final Program, p. 81, Newport Beach, CA, Jan 27-30, 2000.

- 60.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW:  
Simulated prostate biopsy: prostate cancer distribution and clinical correlation.  
SPIE's International Symposium " Medical Imaging 2000", San Diego, CA,  
Feb 13-18, 2000.
- 61.) Zeng J, Bauer JJ, Yao X, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Moul JW, Mun SK:  
Building an accurate 3D map of prostate cancer using computerized models of 280 whole-  
mounted radical prostatectomy specimens. SPIE's International Symposium " Medical  
Imaging 2000", San Diego, CA, Feb 13-18, 2000.
- 62.) Bauer JJ: Clinical Implications of Bone Metastasis in Prostate Cancer. Novartis Prostate Cancer  
Advisory Board meeting, Dallas, Texas, 7-8 Oct 1999.
- 63.) Bauer JJ: PSA-Only Local Therapy Failures: Definitions, Diagnosis and Treatment Options.  
US-Too International Meeting, Moline, Illinois, 15 Oct 1999.
- 64.) Bauer JJ: What's New in Prostate Cancer Diagnosis and Therapy. US-Too International meeting,  
Moline, Illinois, 16 Oct 1999.
- 65.) Dean R, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW, Bauer JJ:  
Virtual Prostate Simulation for Assessment of Proper Biopsy Technique with Clinical  
Correlation, Washington Academy of Surgery, Cosmos Club, Washington, DC, Nov 3, 1999.
- 66.) Magee H, Moses G, Bauer JJ: Medical Simulation Training Initiative (MSTI), AeroSense SPIE  
Conference, Part of SPIE Vol. 4037B, 24-28 April 2000.
- 67.) Moul JW, Zeng J, Weir J, Zhang W, Sesterhenn IA, Mun SK, Bauer JJ: 3-D Simulated Prostate  
Cancer Distribution Using 280 Whole-Mounted Step-Sectioned Radical Prostatectomy  
Specimens. J. Urol., 163(4):273, Abstract # 1211, 2000.
- 68.) Niemi EW, Bower KS, Trudo E, Kramer K, Olson RJ, Teske MP, Namalis N, Bauer JJ: Clinical  
evaluation of a high-resolution digitized stereo video slit lamp for use in teleophthalmology.  
ATA 2000, Phoenix, AZ, May 21-24, 2000.
- 69.) Steiner CP, Hahn JF, Bauer JJ: Electronic Surgical Record. ATA 2000, Phoenix, AZ,  
May 21-24, 2000.
- 70.) Cleary K, Mun SK, Freedman M, Zeng J, Choi JJ, Lindisch D, Hum B, Watson V, Gary K,  
Bauer JJ: Image-guided, minimally invasive spine procedures: Intraoperative imaging  
3D visualization and robotics. ATA 2000, Phoenix, AZ, Poster # 50, page 37,  
May 21-24, 2000.
- 71.) Hazard CR, Lockwood GR, Bauer J: Real-time 3D ultrasound for remote imaging applications.  
ATA 2000, Phoenix, AZ, Poster # 51, page 37, May 21-24, 2000.
- 72.) Tasto JL, Bauer JJ, Verstreken K, Brown JM, Merrill G: Training simulator for endoscopic  
procedures: ATA 2000, Phoenix, AZ, poster #52, page 37, May 21-24, 2000.
- 73.) Niemi EW, Bower KS, Trudo E, Kramer K, Olson RJ, Blanchard D, Bauer JJ: A standardized  
digital slit lamp exam for the anterior segment in teleophthalmology. ATA 2000, Phoenix,

AZ, Poster # 75, page 38, May 21-24, 2000.

- 74.) Niemi EW, Bower KS, Trudo E, Bauer JJ: The use of digital imaging to assist in pre-operative planning in a corneal rotational autograft. ATA 2000, Phoenix, AZ, Poster # 76, page 38, May 21-24, 2000.
- 75.) Simon D, Thach AB, Bauer JJ: Remote diagnosis of ocular trauma with digital imaging. ATA 2000, Phoenix, AZ, Poster # 83, page 39, May 21-24, 2000.
- 76.) Zeng J, Bauer JJ, Sofer A, Yao X, Opell B, Zhang W, Sesterhenn IA, Moul JW, Lynch J, Mun SK: Distribution of prostate cancer for optimized biopsy protocols. 3rd International Conference on Medical Image Computing and Computer Assisted Interventions, Proceedings of SPIE, (accepted 2000)
- 77.) Magee JH, Moses G, Bauer JJ, Leitch R, Dawson SL: Military medical modeling and simulation in the 21st Century, I/ITSEC conference, November 27-30, 2000, Orlando, Florida, Manuscript # EC-076.

#### **PUBLICATIONS (Journals, Proceedings, Book Chapters)**

- 1.) Bauer JJ, Sesterhenn IA, Costabile R: Myxoid liposarcoma of the scrotal wall. *J. Urol.*, 153: 1938-9, 1995.
- 2.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: p53 Nuclear protein expression is an independent prognostic marker in clinically localized prostate cancer patients undergoing radical prostatectomy. *Clin. Cancer Res.*, 1:1295-1300, 1995.
- 3.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: p53 Nuclear protein expression is an independent prognostic marker in clinically localized prostate cancer patients undergoing radical prostatectomy. *Tumor Marker Update*, 8(1):11, 1996.
- 4.) Bauer JJ, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: Elevated levels of apoptosis regulator proteins p53 and bcl-2 are independent prognostic biomarkers in surgically treated clinically localized prostate cancer patients. *J. Urol.*, 156:1511-6, 1996.
- 5.) Bettencourt MC, Bauer JJ, Sesterhenn IA, Mostofi FK, McLeod DG, Moul JW: Ki-67 (MIB-1) expression is an independent prognostic marker of recurrence in patients with organ confined prostate cancer after radical prostatectomy. *J. Urol.*, 156:1064-8, 1996.
- 6.) Bauer JJ, McLeod DG, Moul JW: Prostate cancer: diagnosis and treatment options and experience at one tertiary military care center 1989 and 1994. *Mil. Med.*, 160:646-53, 1996.
- 7.) Heidenberg HB, Bauer JJ, McLeod DG, Moul JW, Srivastava S: The role of p53 tumor suppressor gene in prostate cancer: a possible biomarker? *Urol.*, 48:971-9, 1996.
- 8.) Moul JW, Bettencourt MC, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Bauer JJ: Protein expression of p53, bcl-2 and ki-67(MIB-1) as prognostic biomarkers in patients surgically treated, clinically localized prostate cancer. *Surgery*, 120:159-67, 1996.
- 9.) Bauer JJ, McLeod DG, Moul JW: Prostate cancer: review of diagnosis and treatment options. *Fed. Prac.*, 13:72-90, 1996.
- 10.) Bauer JJ, Finger MJ, Heidenberg HB, Moses FM, Preston DM, Watson RA, Irby PB: Incidence of stool guaiac conversion following extracorporeal shock wave lithotripsy (ESWL). *Urol.*, 50:192-4, 1997.
- 11.) Bauer JJ, Zorn B, Moul JW: Benign prostatic hyperplasia: new concepts in the 1990's. *Fed. Prac.*, 14(4):24-36, 1997.

- 12.) Bauer JJ, Connelly RR, Sesterhenn IA, Bettencourt MC, McLeod DG, Srivastava S, Moul JW: Biostatistical modeling using traditional variables and genetic biomarkers for predicting risk for prostate cancer recurrence after radical prostatectomy. *Cancer*, 79:952-62, 1997.
- 13.) Bauer JJ, Connelly RR, Sesterhenn IA, DeAussen J, Srivastava S, McLeod DG, Moul JW: Equation stratifies risk of recurrence after radical prostatectomy. *Urol. Grand Rounds*, 2(2):11, 1997.
- 14.) Bauer JJ, Heidenberg HB: Immediate radical prostatectomy for incidentally found prostate cancer after open prostatectomy for benign prostatic hyperplasia. *Tech. Urol.*, 3(3):172-5, 1997.
- 15.) Bauer JJ, Moul JW: Prostatitis: diagnostic and treatment challenges. *Fed. Prac.*, 14(9):10-15, 1997.
- 16.) Moul JW, Bauer JJ, Srivastava S, Colon E, Sesterhenn IA, Ho CH, McLeod DG: Perineal seeding of prostate cancer as the only evidence of recurrence 14 years after needle biopsy and radical prostatectomy: molecular correlation. *Urology*, 51(1):158-160, 1998.
- 17.) Bauer JJ, Connelly RR, Sesterhenn IA, McLeod DG, Srivastava S, Moul JW: Statistical modeling using pre-operative prognostic variables in predicting extracapsular extension and progression after radical prostatectomy for prostate cancer. *Mil. Med.*, 163(9):615-619, 1998.
- 18.) Bauer JJ, Connelly RR, Sesterhenn IA, Mostofi KF, McLeod DG, Srivastava S, Moul JW: Biostatistical modeling using traditional pre-operative and pathological prognostic variables in the selection of men at high risk for prostate cancer recurrence after radical prostatectomy for prostate cancer. *J. Urol.*, 159:929-933, 1998.
- 19.) Bauer JJ, McLeod DG: Hepatic subcapsular abscess extension of pelvic lymphocele after radical retropubic prostatectomy. *Urology*, 51:846-8, 1998.
- 20.) Bauer JJ, Schulam PG, Kaufman HS, Moore RG, Irby PB, Kavoussi LR: Laparoscopy for the acute abdomen in the postoperative period. *Urol.*, 51:917-9, 1998.
- 21.) Bauer JJ, Srivastava S, Connelly RR, Sesterhenn IA, McLeod DG, Moul JW: Significance of familial prostate cancer on traditional prognostic variables, genetic biomarkers, and outcome after radical prostatectomy. *Urology*, 51:970-6, 1998.
- 22.) Moul JW, Bauer JJ, Sesterhenn IA, Stackhouse B, Srivastava S: p53 protein and gene alteration in pathologic stage C prostate carcinoma. *J. Urol.*, 159(5):1648-9, 1998.
- 23.) Bettencourt MC, Bauer JJ, Sesterhenn IA, Connelly RA, McLeod DG, Moul JW: CD34 Immunohistochemical assessment of angiogenesis as a prognostic marker for prostate cancer recurrence after radical prostatectomy. *J. Urol.*, 160:459-465, 1998.
- 24.) Bauer JJ, Zeng J, Sesterhenn IA, Moul JW, Mun SK: Comparison of prostate biopsy protocols using 3-D computer simulation. PACMEDTek Conference, 17-20 August 1998, Honolulu, Hawaii, Proceedings: Pacific Medical Technology Symposium. Rosemary Nelson, Anthony Gelish, Seong K. Mun (Eds.), IEEE Computer Society, California, 1998, pg 109-114.
- 25.) Preston D, Bauer JJ, Connelly RR, Halligan J, Sawyer T, Leifer ES, McLeod DG, Moul JW: External beam radiation therapy for prostate cancer in the PSA era (1988-1995) at Walter Reed Army Medical Center. *Urol.*, 53(1):131-138, 1999.
- 26.) Zeng J, Bauer JJ, Kaplan C, Sesterhenn IA, Moul JW, Mun SK: Visualization and evaluation of prostate needle biopsy. First International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI'98 SPIE proceedings. Boston, MA, Oct 11-13, Lecture Notes in Computer Science, 1496: 285-292, 1998.

- 27.) Zorn BH, Bauer JJ, Ruiz HE, Thrasher JB: Randomized trial of safety and efficacy of TURP using contact laser vs. electrosurgery. *Tech. Urol.*, 5(4):198-201, 1999.
- 28.) Perkable TL, Bauer JJ: A telementored trans-rectal ultrasound guided prostate biopsy. *Medicine Meets Virtual Reality*, J.D. Westwood et al. (Eds.), IOS Press, Amsterdam, 1999, pg 275-277.
- 29.) Zeng J, Bauer JJ, Zhang W, Sesterhenn IA, Moul JW, Mun SK: Prostate biopsy schemes: 3-D visualization based evaluation. *Medicine Meets Virtual Reality*, J.D. Westwood et al. (Eds.), IOS Press, 1999, Amsterdam, pg 390-391.
- 30.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: 3-D computer simulated prostate models: lateral prostate biopsys increase detection rate of prostate cancer. *Urol.*, 53(5):961-967, 1999.
- 31.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Moul JW, Mun SK: Optimization of prostate biopsy. SPIE's International Symposium " Medical Imaging 1999", San Diego, CA, Feb 20-26, 1999, Proceedings of SPIE, 3658:300-307, 1999.
- 32.) Bauer JJ, Bishoff JT, Chen RN, Moore RG, Iverson AJ, Kavoussi LR: Laparoscopic pyeloplasty vs open pyeloplasty: Assessment of long-term objective and subjective outcome. *J. Urol.*, 162:(3);692-695, 1999.
- 33.) Bauer JJ, Moul JW: Assessment of risk of prostate cancer: Algorithms for diagnosis, staging and prognosis. In: M Resnick, IM Thompson (Eds.). Advanced Therapy of Prostatic Disease, B.C. Decker, Hamilton, London, Ontario, Canada pp 34-43, 2000.
- 34.) Moul JW, Zeng J, Mun SK, Connelly RR, Zhang W, Sesterhenn IA, Mostofi FK, McLeod DG, Bauer JJ: Comparison of prostate cancer tumor location in black and white radical prostatectomy patients using simulated computer biopsy of three-dimensional reconstructed models. *J. Urol.*, (submitted 1999).
- 35.) Rosin A, Bauer JJ, Costabile RA: Surgical implications of multicentricity in renal cell carcinoma. *Mil. Med.*, 165(9):670-671, 2000.
- 36.) Lee BR, Stoianovici D, Bishoff JT, Micali S, Micali F, Bauer JJ, Whitcomb LL, Taylor RH, "TelePAKY: A new robotic system for remote active telesurgery. *Lancet*, (submitted 1998).
- 37.) Stackhouse GB, Sesterhenn IA, Bauer JJ, Mostofi FK, Connelly RR, Moul JW: p53 and bcl-2 Immunohistochemistry in pretreatment prostate needle biopsies to predict recurrence of prostate cancer after radical prostatectomy. *J. Urol.*, 162(6):2040-2045, 1999.
- 38.) Bauer JJ, Moul JW: When prostate biopsy is necessary? *Primary Care & Cancer*, 19(8):17-18, 1999.
- 39.) Smith CV, Bauer JJ, Connelly RR, Seay TM, Kane C, Foley J, Thrasher JB, Kusuda L, Moul JW: Prostate cancer in men 50 years of age or less: A review of the Department of Defense Center for Prostate Disease Research (CPDR) multicenter prostate cancer database. *J. Urol.*, 164(6):1964-1967, 2000.
- 40.) Zeng J, Bauer JJ, Mun SK: Modeling and mapping of prostate cancer. *Computers and Graphics An International Journal*, 24(5):, 2000.
- 41.) Zorn B, Bauer JJ, Moul JW: Benign prostatic hyperplasia: new concepts for the millenium. *The American Journal of Managed Care*, 5(7):911-922, 1999.
- 42.) Bauer JJ, Moul JW: What the primary care provider should know about Prostate-Specific Antigen (PSA). *Primary Care & Cancer*, 19(8):14-16, 1999.



- 43.) Bauer JJ, Lee BR, Stoianovici D, Bishoff JT, Janetschek G, Bunyararavej P, Kamolpronwijit W, Ratchanon S, O'Kelly S, Cadeddu JA, Micali S, Micali F, Li MK, Goh P, Png D, Kavoussi LR: Remote telesurgical mentoring: feasibility and efficacy. IEEE Proceedings of the 33rd Annual Hawaii International Conference on System Sciences (HICSS-33), Abstracts and CD ROM of Full Papers, Maui, Hawaii, page 123, Jan 4-7, 2000.
- 44.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: 3-D Computer simulation and interactive prostate biopsy simulation leads to an improved systematic technique for the detection of prostate cancer: clinical correlation. Medicine Meets Virtual Reality (MMVR 2000), J.D. Westwood, et al, (Eds.), IOS Press, Amsterdam, 70:20-25, 2000.
- 45.) Tasto JL, Verstreken K, Brown M, Bauer JJ: Preop Endoscopic simulator: From bronchoscopy to ureteroscopy. Medicine Meets Virtual Reality (MMVR 2000), J.D. Westwood, et al.(Eds.), IOS Press, Amsterdam, 70:344-349, 2000.
- 46.) Zeng J, Bauer JJ, Yao X, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Moul JW, Mun SK: Investigating 3D tumor distribution for optimized diagnosis of prostate cancer. Medicine Meets Virtual Reality (MMVR 2000), J.D. Westwood, et al, (Eds.) IOS Press, Amsterdam, 70:392-398, 2000.
- 47.) Bauer JJ, Lee BR, Bishoff JT, Janetschek G, Bunyararavej P, Kamolpronwijit W, Ratchanon S, O'Kelly S, Cadeddu JA, Micali S, Micali F, Li MK, Goh P, Png D, Kavoussi LR: International surgical telementoring using a robotic arm. Telemedicine Journal, 6(1):25-31, 2000.
- 48.) Bauer JJ, Lee BR, Stoianovici D, Bishoff JT, Micali S, Micali F Kavoussi LR: Remote percutaneous access using a new automated telesurgical robotic system: a case report. Telemedicine Journal and e-Health, July Issue, 7(3):341-346, 2002.
- 49.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: Simulated prostate biopsy: prostate cancer distribution and clinical correlation. SPIE's International Symposium "Medical Imaging 2000", San Diego, CA, Proceedings of SPIE, Volume:3976, Feb 13-18, 2000.
- 50.) Zeng J, Bauer JJ, Yao X, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Moul JW, Mun SK: Building an accurate 3D map of prostate cancer using computerized models of 280 whole-mounted radical prostatectomy specimens. SPIE's International Symposium " Medical Imaging 2000", San Diego, CA, Feb 13-18, 2000, Proceedings of SPIE, 3976:466-477, 2000.
- 51.) Bauer JJ, Zeng J, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Mun SK, Moul JW: Lateral biopsies added to the traditional sextant prostate biopsy pattern increases the detection rate of prostate cancer. Prostate Cancer and Prostate Diseases, 3:43-46, 2000.
- 52.) Magee H, Moses G, Bauer JJ: Medical Simulation Training Initiative (MSTI), AeroSense SPIE Conference, Part of SPIE Vol. 4037B, 24-28 April 2000. SPIE proceedings.
- 53.) Micali S, Virgili G, Vannozzi E, Grassi N, Bauer JJ, Kavoussi LR, Vespasiani G: Feasibility of Telesurgery Between Baltimore (USA) and Rome (ITALY): The First 5 Cases. J. Endourology, 14(6):493-496, 2000.
- 54.) Rosen A, Bauer JJ, Swanson SJ, Spevak M, Costabile R: Changing Trends in Partial Nephrectomy at Walter Reed Army Medical Center. Mil. Med., (submitted 2000).
- 55.) Bauer JJ, Zeng J, Weir J, Zang W, SesterhennIA, Connelly RR, Mun SK, Moul JW: Three-dimensional computer-simulated prostate models. AFIP Letter, 159(1):19, 2000.

- 56.) Zeng J, Bauer JJ, Sofer A, Yao X, Opell B, Zhang W, Sesterhenn IA, Moul JW, Lynch J, Mun SK:  
Distribution of prostate cancer for optimized biopsy protocols. 3rd International Conference  
on Medical Image Computing and Computer Assisted Interventions, Proceedings of SPIE,  
(accepted 2000)
- 57.) Opell BM, Zeng J, Bauer JJ, Connelly RR, Zhang W, Sesterhenn IA, Moul JW, Mun SK, Lynch JH:  
Mapping the distribution of prostate cancer using 281 3-D computer radical prostatectomy  
specimen models. (sent to Urology 2000).
- 58.) Moul JW, Ester TA, Bauer JB: Implementation of a web-based prostate cancer decision site.  
Seminars in Urologic Oncology, 18(3):241-244, 2000.
- 59.) Moul JW, Connelly RR, Lubeck DP, Bauer JJ, Sun L, Flanders SC, Grossfeld GD, Carroll PR:  
Predicting risk of PSA-recurrence after radical prostatectomy using Center for Prostate  
Diseases (CPDR) and CaPSURE databases. J. Urol., (accepted 2000).
- 60.) Magee JH, Moses G, Bauer JJ, Leitch R, Dawson SL: Military medical modeling and simulation  
in the 21st Century, I/ITSEC conference, November 27-30, 2000, Orlando, Florida,  
Manuscript # EC-076. Conference Proceedings Interservice/Industry Simulation  
and Education Conference.
- 61.) Zeng J, Bauer JJ, Yao X, Zhang W, McLeod DG, Sesterhenn IA, Connelly RR, Moul JW, Mun SK:  
Investigating 3D tumor distribution for optimized diagnosis of prostate cancer.  
Stud. Health Technol. Inform., 70:392-398, 2000.
- 62.) Tasto JL, Verstreken K, Brown M, Bauer JJ: Preop Endoscopic simulator: From bronchoscopy to  
ureteroscopy. Stud. Health Technol. Inform., 70:344-349, 2000.
- 63.) Bauer JJ, Zeng J, Weir J, Zhang W, Sesterhenn IA, Connelly RR, Mun SK, Moul JW:  
3-D Computer simulation and interactive prostate biopsy simulation  
leads to an improved systematic technique for the detection of prostate  
cancer: clinical correlation. Stud. Health Technol. Inform., 70:20-25, 2000.
- 64.) Perkable TL, Bauer JJ: A telementored trans-rectal ultrasound guided prostate biopsy.  
Stud. Health Technol. Inform., 62:275-277, 1999.
- 65.) Moul JW, Connelly RR, Lubeck DP, Bauer JJ, Sun L, Flanders SC, Grossfeld GD, Carroll PR:  
Predicting risk of prostate specific antigen recurrence after radical prostatectomy with the  
center for prostate disease research and cancer of the prostate strategic urological  
research endeavor database. J. of Urol., 166:1322-1327, 2001.

### **PROJECT MANAGEMENT PORTFOLIO**

Director, Surgical Technology  
U.S. Army Medical Research and Materiel Command  
Ft. Detrick, Maryland

#### **1997**

- |  |             |                  |
|--|-------------|------------------|
| 1.) Trauma Patient Simulator<br>Research Triangle Institute<br>Charlotte, North Carolina                     | \$630,000   | 1 year duration  |
| 2.) ENT Endosinus Surgical Simulator<br>Lockheed-Martin<br>Madigan Army Medical Center<br>Tacoma, Washington | \$2,750,000 | 2 years duration |
| 3.) Telesurgical Mentoring (primary investigator)<br>Walter Reed Army Medical Center                         | \$850,000   | 3 years duration |

Washington, D.C.

**1998**

4.) Prostate Imaging Henry Jackson Foundation Walter Reed Army Medical Center Washington, D.C.	\$5,000,000	2 years duration
5.) Teleophthomology (video stereo slit lamp development) Moran Eye Institute Salt Lake City, Utah	\$503,527	2 year duration
6.) National Centers for Innovative Minimally Invasive Therapies (CIMIT) (DOD, MIT, Harvard, Draper Labs, Mass Gen. Hospital and Brigham and Women's Hospital) Boston, Massachusetts	\$13,000,000	2 year duration
7.) Teleophthomology- Ocular Trauma Walter Reed Army Medical Center Washington, D.C.	\$80,000	1 year duration
8.) Mount Everest Expedition Yale University, NASA Walter Reed AMC Washington, D.C.	\$50,000	3 months duration
9.) Carolina Coastal Cancer Project (consultant) Medical University of South Carolina Charleston, South Carolina	\$5,000,000	2 years duration
10.) Computer Assisted Minimally Invasive Surgery Cleveland Clinic Cleveland, Ohio	\$2,500,000	2 years duration
11.) 3-D Ultrasound Imaging Initiative Cleveland Clinic Cleveland, Ohio	\$3,500,000	3 years duration
12.) Optical Biopsy for Diagnosis of Breast Lesions Los Alamos National Laboratory Los Alamos, New Mexico	\$517,500	2 years duration
13.) Perioscopic Spine Surgery Georgetown University/WRAMC Washington, D.C.	\$3,500,000	2 years duration
14.) The Technical Requirements for Image-Guided Therapy (IGT) Georgetown University Washington, D.C.	\$50,000	6 months duration

**1999**

15.) National Centers for Innovative Minimally Invasive Therapies (CIMIT) (DOD, MIT, Harvard, Draper Labs, Mass Gen. Hospital and Brigham and Women's Hospital) Boston, Massachusetts	\$11,000,000	2 year duration
16.) Virtual Workbench for Surgical Simulation	\$248,500	1 year duration

(Meta-Analysis and Planning of SIMTRAUMA:  
 Medical Simulation for Combat Trauma Training)  
 Tech Med, Inc.  
 Annapolis, Maryland

17.) Endoscopic Simulator Development HT Medical Inc. Rockville, Maryland	\$364,000	1 year duration
18.) Telepresence Microsurgery System for USUHS Stanford Research Institute Menlo Park, California	\$250,000	1 year duration
19.) Simulation Technologies for Advanced Trauma Care (STATCARE) Research Triangle Institute Charlotte, North Carolina	\$508,000	1 year duration
20.) Teleophthomology- Clinical Trials for video stereo slit lamp Walter Reed Army Medical Center Washington, D.C.	\$87,500	1 year duration
20.) Teleophthomology- Diabetic retinopathy screening Walter Reed Army Medical Center Washington, D.C.	\$78,600	1 year duration
21.) Enabling Technologies for Medical Simulation CIMIT (DOD, MIT, Harvard, Draper Labs, Mass Gen. Hospital and Brigham and Women's Hospital) Boston, Massachusetts	\$999,813	1 year duration
22.) Automated Robotic System for Percutaneous Access Johns Hopkins University Urobotics lab Baltimore, Maryland	\$243,500	2 year duration
23.) Prostate Tumor Volume: In-vivo Estimation Based on Clinically Correlated 3-D Visualization co-investigator Georgetown University, School of Medicine Washington, D.C.	\$210,000	3 year duration