

Curriculum Vitae

KEITH W. LAWHORN, MD, F.A.A.O.S

3620 Joseph Siewick Drive, Suite 100

Fairfax, Virginia 22033

Office (703) 810-5223

Fax 703-264-3913

PROFESSIONAL: Orthopaedic Surgeon – OrthoVirginia (formerly Commonwealth Orthopaedics and Rehabilitation), Fairfax Virginia – January 2010 – present
Secretary/Treasurer - OrthoVirginia (formerly Commonwealth Orthopaedics and Rehabilitation), Fairfax Virginia – June 2014 – present
Selected to Virginia Council of Delegates American Orthopaedic Society Sports Medicine (AOSSM) 2012 – 2015
Selected Panel Member for the Arthroscopy Association of North America’s Copernicus Project for Knee ACL metrics and online self-study learning modules 2015
Board of Directors – OrthoVirginia (formerly Commonwealth Orthopaedics and Rehabilitation), Fairfax Virginia - June 2012-present
Board of Directors – Northern Virginia Surgery Center - April 2011- Jan 2015
Orthopaedic/Medical Advisor – Chantilly Youth Association (CYA) 2012 - present
American Academy of Orthopaedic Surgeons (**AAOS**) Sports Medicine/Arthroscopy Program Subcommittee member 2009-2012
Arthroscopy Committee Member - International Society of Arthroscopy, Knee Surgery and Sports Medicine (**ISAKOS**) – 2008-2010
Editorial Board of the *Arthroscopy* Journal- Jan 2006 – Dec 2010
Orthopaedic Surgeon – Advanced Orthopedics and Sports Medicine Institute, Fairfax Virginia - August 2005 – Dec 2009
Orthopaedic Surgeon – Fair Oaks Orthopedic Associates, Inc., Fairfax, Virginia, September 2004 – March 2005
Orthopaedic Surgeon - Orthopaedic Specialty Clinic, Fredericksburg, Virginia, April 2005 – July 2005
Assistant Professor of Surgery, Uniformed Services University of the Health Sciences, Bethesda, Md., Feb 2002 – July 2004
Peer Reviewer of Scientific publications for *Arthroscopy*- Nov 2002-present
Peer Reviewer of Scientific publications for *The American Journal of Sports Medicine*- Dec 2001 – present
Peer Reviewer of Scientific publications for *Knee Surgery, Sports Traumatology, Arthroscopy* - Dec 2013 - present
Staff Orthopaedic Surgeon, Malcolm Grow Medical Center, Andrews AFB, Md., Dec 2000- Aug 2004
Staff Orthopaedic Surgeon, David Grant Medical Center, Travis AFB, Ca. Aug.1996 - Dec. 2000
Arthroscopy Association (**AANA**) Knee Faculty Lab Instructor 2009-present
Design Surgeon for Maxfire Meniscal Repair System and Technique

Orthopaedic Consultant – Biomet Sports Medicine – Sept 1999 - present
Instructor for Advanced Knee and Shoulder Arthroscopy Techniques
Sports Medicine Research Group, University of California, Davis and the Clinical
Investigational Facility, Travis AFB, Ca. Sept 1997- Dec 2000
Orthopaedic Surgery Preceptor and Teaching Staff:
Primary Care Sports Medicine Fellowship - January 2002 - Aug 2004
Resident and Medical Student clinical clerkships - Aug 1996 - Aug 2004
Physician Assistant Specialty Fellowship in Orthopaedics - Aug 1996 - Aug
2004
Surgical Team Chief in support of President George Bush and First Lady -
Banner Mission to Senegal and Uganda, Africa – July 2003

**EDUCATION/
DEGREES:**

University of Virginia School of Medicine (UVA) 1987-1991
Doctor of Medicine
University of Virginia College of Arts and Sciences 1983-1987
B.A. Chemistry – Distinction

RESIDENCY: Medical College of Virginia/Chief Resident Orthopaedic Surgery 1995-1996
Medical College of Virginia/Orthopaedic Surgery 1992-1996
Medical College of Virginia/ General Surgery Internship 1991-1992
Diplomate National Board of Medical Examiners, 1992

BOARD

CERTIFICATION: American Board of Orthopaedic Surgeons, Board Certified – July 1998
American Board of Orthopaedic Surgeons, Sports Medicine Recertification Exam
April 2006 – 2018
Subspecialty Certification **Sports Medicine** – Nov 2008 –Dec 2018

AWARDS:

Selected a **Top Doctor 2015** International Association of Orthopedic
Surgeons (IAO) published in *The Leading Physicians of the World*
Selected a **Top Doctor 2015** Consumer Checkbook Magazine
Selected a **Top Doctor 2014** Washingtonian Magazine
Selected a **Best Doctor in America 2014** Northern Virginia Magazine
Selected a **Best Doctor in America 2013** Northern Virginia Magazine
Selected a **Best Doctor in America 2012** Northern Virginia Magazine
Selected a **Best Doctor in America 2011** Northern Virginia Magazine
Selected a **Best Doctor in America 2010** Northern Virginia Magazine
Distinguished Service Award Fair Oaks Hospital, Oct 2005 - Dec 2005
United States Air Force Meritorious Service Medal 2004
Runner-up “Reviewer of the Year 2003” *Arthroscopy* Journal
United States Air Force Commendation Medal 2000

Certificate of Merit Award for a Scientific Exhibit at the 1999 Radiological Society of North America Meeting (RSNA)
Distinguished Graduate Military Indoctrination Medical Service Officer Course 1996
Medical College of Virginia Orthopaedic Resident Research Award 1994
United States Air Force Health Professions Scholarship 1987-1991
Merck Index Award for Outstanding UVA Chemistry Graduate 1987
United States Air Force Pre-Health Professions Scholarship 1984-1987
Intermediate Honors for Academic Excellence UVA 1985
Alpha Epsilon Delta – Premedical Honor Society 1985
University of Virginia Echols Scholar 1984-1987
United States Air Force ROTC Scholarship 1983
Courtland High School Valedictorian 1983

HONOR

SOCIETIES: Alpha Omega Alpha (Medical Honor Society)
Phi Beta Kappa
Alpha Epsilon Delta (Pre-Medical Honor Society)

PROFESSIONAL

SOCIETIES: Fellow, American Academy of Orthopaedic Surgeons (**AAOS**)
American Orthopaedic Society for Sports Medicine (**AOSSM**) – active member
Arthroscopy Association of North America (**AANA**) – active member
International Society of Arthroscopy, Knee Surgery and Sports Medicine (**ISAKOS**)
Virginia Orthopaedic Society – active member

MEDICAL

LICENSURE: Virginia Board of Medicine #0101048300 – active
Medical Board of California #G084633 - inactive

TEAM

PHYSICIAN: Northern Virginia Community College 2013-present
Oakton High School, Fairfax Virginia 2014-present
Centreville High School, Fairfax, Virginia 2015
Washington Bayhawks Major League Professional Lacrosse Team 2007-2009
South County Secondary School, Fairfax, Virginia 2005-2014
Freedom High School, Loudoun, Virginia 2005-present
Highland Springs HS, Highland Springs, Virginia 1992-1996

**RESEARCH/
PUBLICATIONS:**

Lawhorn, KW and Norton, D: Biomechanical Comparison of Suture-based and Polymer-based Meniscal Fixators in both Human and Porcine Meniscal Tissue (paper in progress)

Lawhorn, KW and Howell, SM : Femoral EZLOC Fixation: Rationale and Technique. **The Anterior Cruciate Ligament: Reconstruction and Basic Science, 2nd Edition, Prodomos ed, Elsevier (in progress)**

Lawhorn, KW and Howell, SM : Tibial WasherLoc Fixation: Optimizing Tibial Fixation. **The Anterior Cruciate Ligament: Reconstruction and Basic Science, 2nd Edition, Prodomos ed, Elsevier (in progress)**

Howell, SM and Lawhorn, KW: Point/Counterpoint – Graft Choices for patients under 25: Allografts are a Good Choice, AANA Newsletter Winter 2012

Lawhorn, KW and Howell, SM : Chapter 74 : ACL Reconstruction using Hamstring Tendons and a Transtibial Tunnel Technique **Surgical Techniques of the Shoulder, Elbow, and Knee in Sports Medicine, 2nd Edition , Cole and Sekiya eds, Elsevier 2012**

Lawhorn, KW, Howell, SM, Gottlieb, J, Traina, S, Freedberg, H, and Meade, T : The Effect of Graft Tissue on Anterior Cruciate Ligament Outcomes: A Multicenter, Prospective, Randomized Controlled Trial Comparing Autograft Hamstrings With Fresh-Frozen Anterior Tibialis Allograft. *Arthroscopy: The Journal of Arthroscopic and Related Surgery, Vol 28, No 8 (August), 2012: pp 1079-1086*

Lawhorn KW: All Inside Meniscal Repair : *Arthroscopic Surgical Techniques: Meniscal Repair and Replacement*. AAOS Video DVD July 2011

Lawhorn KW: Surgical Technique: All Inside Meniscal Repair using Maxfire Suture Repair System

Lawhorn, KW : Rotator Cuff Repair : What's New? – *In the Know*- INOVA Physical Therapy and Sports Therapy Newsletter – March 2009

Lawhorn, KW : Autologous Chondrocyte Implantation (ACI) – *In the Know*- INOVA Physical Therapy and Sports Therapy Newsletter August 2008

Lawhorn, KW : Advances in Arthroscopic Management of Rotator Cuff Disease: Are Two Rows better than One? Newsletter - International Society of Arthroscopy, Knee Surgery and Sports Medicine (**ISAKOS**) Summer 2008

Prodomos, C. C.; Fu, F. H.; Howell, S. M.; Johnson, D. H.; and Lawhorn, K.W.: Controversies in Soft-tissue Anterior Cruciate Ligament Reconstruction:

Grafts, Bundles, Tunnels, Fixation, and Harvest. *J Am Acad Orthop Surg*, 16(7): 376-84, 2008.

Lawhorn, KW : Surgical Technique - MaxFire Mensical Repair System. An All-suture, All-inside, Knotless Meniscal Repair Technique. *Biomet Sports Medicine* Jan 2008

Lawhorn, KW and Howell, SM : Principles for Using Hamstring Tendons for ACL Reconstruction : *Clinics in Sports Medicine* 26 (2007) 567-585.

Lawhorn, KW and Howell, SM : Avoiding ACL Graft Impingement: Principles for Tunnel Placement using the Transtibial Tunnel Technique. Douglas W. Jackson (Ed.), *Reconstructive Knee Surgery*, 3rd edition, **Master Techniques in Orthopaedic Surgery**. Philadelphia, Lippincott Williams & Wilkins, 2008

Lawhorn, KW and Howell, SM : Autograft and Allograft Anterior Cruciate Ligament Reconstruction: Construct Rationale. In Eppley B., Pietrzak W. (Eds.), **Musculoskeletal Tissue Regeneration: Biological Materials and Methods**.

Lawhorn, KW and Howell, SM : ACL Reconstruction: The Use of Soft Tissue Grafts: *In* Harner C., El Attrache N., Mirzayan R., and Sekiya J. (Eds.), **Surgical Techniques in Sports Medicine**. Philadelphia, Lippincott Williams & Wilkins, 2007

Howell, SM and Lawhorn, KW: Gravity Reduces the Tibia When Using a Tibial Guide that Targets the Intercondylar Roof - *The American Journal of Sports Medicine* Vol 32, No. 7: 1702-1710; Oct/Nov 2004

Lawhorn, KW and Howell, SM : Evaluation and Treatment of ACL Injury using Hamstring Tendons *In* Miller M.D. and Cole B.J. (Eds.), **Textbook of Arthroscopy**. Philadelphia, W.B. Saunders, 2003

Lawhorn, KW and Howell, SM: Correct Placement of Tibial and Femoral Tunnels Using the Transtibial Technique for Anterior Cruciate Ligament Reconstruction. *Techniques in Knee Surgery* 2(1): 43-52; Mar 2000

Lawhorn, KW and Howell, SM : Scientific Justification and Technique for Anterior Cruciate Ligament Reconstruction using Autogenous Hamstring Tendons and Allogeneic Soft Tissue Grafts. *Orthopedic Clinics of North America* Vol 34, Issue 1 pp. 19-30, January 2003

Singhatat, W, Lawhorn, KW, Howell, SM, Hull, ML: How Four Weeks of Implantation Affect the Strength and Stiffness of a Tendon Graft in a Bone Tunnel: A Study of Two Fixation Devices in an Extraarticular Model in Ovine. *The American Journal of Sports Medicine* Vol 30, No. 4 July/August 2002

Zacharias, IJ, Howell, SM, Hull, ML, Lawhorn, KL: Fixation Device Transducer(FDT) to Measure Anterior Cruciate Graft Forces in an In-Vivo Sheep Model. *Journal of Biomechanical Engineering* Vol **123**: 355-361 August 2001

Sanders TG, Medynski MA, Feller JF, Lawhorn KW: Bone Contusion Patterns of the Knee at MR Imaging: Footprint of the Mechanism of Injury. *Radiographics* Oct 2000: Vol **20**, Special Issue, pp. S135-S151

Sanders,TG, Linares,RC, Lawhorn,KW, Tirman, PF, Houser,C: Oblique meniscomeniscal ligament: Another Potential Pitfall for a meniscal tear—Anatomic Description and Appearance at MR imaging in three cases. *Radiology*, **213**(1):213-6, 1999 Oct.

Wayne, JS, Lawhorn, KW, Davis, KE, Prakash, K, Adelaar, RS : The Effect of Tibiotalar Fixation on Foot Biomechanics. *Foot Ankle* **18**:792-797, 1997 Dec.

Presentations/Faculty Instructor:

Lawhorn,KW: Allograft is Effective and Reliable. Arthroscopy Association of North America 34th Fall Course. Grapevine, Texas Nov 13, 2015.

Lawhorn,KW: Transtibial Femoral Tunnel is Better. Arthroscopy Association of North America 34th Fall Course. Grapevine, Texas Nov 13, 2015

Lawhorn,KW: Focus Demonstration Moderator: ACL Reconstruction : IDEAL Tunnel Placement. Arthroscopy Association of North America 34th Fall Course. Grapevine, Texas Nov 12, 2015.

Lawhorn,KW,: Instructor: Latin America ZimmerBiomet Upper Extremity Sports Medicine and Comprehensive Shoulder Reconstruction Course, Jacksonville, Florida, Sept 24 – 25, 2015

Lawhorn,KW,: Instructor: ZimmerBiomet Sports Medicine and Comprehensive Shoulder Reconstruction Course, Celebration, Florida Sept 17 – 18, 2015

Lawhorn,KW,: Anterolateral Ligament Revisited: When do we treat? ZimmerBiomet Sports Medicine and Comprehensive Shoulder Reconstruction Course, Celebration, Florida Sept 17 – 18, 2015

Lawhorn,KW: Technological Advances in Reconstructive Shoulder Surgery – Presented at **INOVA Fair Oaks “Ask the Expert” Lecture Series**, August 19, 2015, Fairfax Virginia

Lawhorn,KW: Associate Master Instructor – Arthroscopy Association of North America Masters Experience Advanced Knee Reconstruction Course, Orthopaedic Learning Center (OLC) Chicago, Illinois, June 5-6, 2015

Lawhorn,KW,: Instructor: Biomet Sports Medicine and Comprehensive Shoulder Reconstruction Course, Las Vegas Nevada, June 4 – June 5, 2015

Lawhorn,KW,: Instructor: Biomet Sports Medicine and Comprehensive Shoulder Reconstruction Course, Atlanta, Georgia, April 30-May 1, 2015

Lawhorn,KW: Invited Guest Speaker: Optimizing Tunnel Placement for ACL Reconstruction using Transtibial Tunnel Drilling. Controversies Across the Commonwealth: Sports Medicine & Upper Extremity, Pennsylvania Orthopedic Society. JW Marriott Camelback Resort Inn and Spa, Scottsdale, AZ April 10-11, 2015.

Lawhorn,KW: Invited Guest Speaker: Why I use Hamstring Tendons for ACL Reconstruction. Controversies Across the Commonwealth: Sports Medicine & Upper Extremity, Pennsylvania Orthopedic Society. JW Marriott Camelback Resort Inn and Spa, Scottsdale, AZ April 10-11, 2015.

Lawhorn,KW : Faculty Instructor : Brazil Upper Extremity Sports Medicine and Total Joints Surgical Skills Workshop. The Evolution of Soft Anchor Technology. Warsaw Indiana, Oct 29, 2014

Lawhorn,KW : Faculty Instructor : Brazil Upper Extremity Sports Medicine and Total Joints Surgical Skills Workshop. Controlling Tension using Zip Loop Technology. Warsaw Indiana, Oct 29, 2014

Lawhorn,KW: Faculty Instructor – Knee “Multi-Ligament” Reconstruction Course, Mayo Clinic, Rochester Minnesota, September 17-18, 2014 (*Mayo Clinic CME Course of the Year 2014*)

Lawhorn,KW,: Anterior Cruciate Ligament Reconstruction: Does Graft Source Matter? Biomet Sports Medicine Surgical Skills Workshop, September 5-6, 2014, Tampa, Florida

Lawhorn,KW,: Technological Advances in Shoulder Instability Surgery using Soft Anchors. Biomet Sports Medicine Surgical Skills Workshop, September 5-6, 2014, Tampa, Florida

Lawhorn,KW,: Acromioclavicular Reconstruction and Repair. Biomet Sports Medicine Surgical Skills Workshop, September 5-6, 2014, Tampa, Florida

Lawhorn,KW,: Management of Shoulder Fractures 2014. Biomet Sports Medicine Surgical Skills Workshop, September 5-6, 2014, Tampa, Florida

Lawhorn,KW,: Instructor: Latin America Shoulder Arthroscopy and Reconstruction Course, Biomet Sports Medicine Surgical Skills Workshop, March 20-21, 2014, Warsaw, Indiana

Lawhorn,KW,: Technological Advances in Shoulder Arthroscopy using Soft Anchor Technology : Operative Technique and Scientific Rationale. Latin America Shoulder Arthroscopy and Reconstruction Course, Biomet Sports Medicine Surgical Skills Workshop, March 20-21, 2014, Warsaw, Indiana

Lawhorn,KW,: Instructor: Latin America Knee Arthroscopy and Reconstruction Course, Biomet Sports Medicine Surgical Skills Workshop, January 23-24, 2014, Warsaw, Indiana

Lawhorn,KW : Faculty Instructor : Upper Extremity Sports Medicine Skills Workshop, Warsaw Indiana, Sept 5, 2013

Lawhorn,KW : Shoulder Instability and Use of a Bone Conserving Anchor Technique, Biomet Sports Medicine Fall Symposium, Tampa Florida Sept 6-7, 2013

Lawhorn,KW : Patellofemoral Instability : Role of MPFL Repair and Reconstruction, Biomet Sports Medicine Fall Symposium, Tampa Florida Sept 6-7, 2013

Lawhorn,KW : Graft Choices for Anterior Cruciate Ligament Reconstruction, Biomet Sports Medicine Fall Symposium, Tampa Florida Sept 6-7, 2013

Lawhorn,KW,: LIVE Moderated Global Webcast : The Use of Soft Anchor Technology for Reconstructive Shoulder Surgery: Operative Technique and Scientific Rationale, Biomet Surgeon Network August 14, 2013

Lawhorn,KW: Associate Master Instructor – AANA Masters Experience Knee “Multi-Ligament” Reconstruction Course Orthopaedic Learning Center (OLC) Chicago, Illinois, June 2013

Lawhorn,KW,: Podium Presentation : The Effect of Graft Tissue on Anterior Cruciate Ligament Outcomes: A Multicenter, Prospective, Randomized Controlled Trial Comparing Autograft Hamstrings with Fresh-Frozen Anterior Tibialis Allograft. Ninth Biennial International Society of Arthroscopy, Knee Surgery and Sports Medicine Meeting (**ISAKOS**), Toronto, Canada 2013

LawhornKW: Point/Counter Point presentation: Transtibial vs. Medial Portal ACL Reconstruction, Virginia Orthopedic Society Meeting, Washington, DC May 5, 2013

Lawhorn,KW,: LIVE International Webcast : ACL Reconstruction Using ToggleLoc with Ziploop and TunneLoc Fixation: Operative Technique and Scientific Rationale, Biomet Surgeon Network January 30, 2013

Lawhorn,KW,: Instructor: South America Knee and Shoulder Course, Biomet Sports Medicine Surgical Skills Workshop, January 24-25, 2013, Miami, Florida

Lawhorn,KW,: Instructor: Brazil Knee and Shoulder Course, Biomet Sports Medicine Surgical Skills Workshop, January 16-18, 2013, Warsaw, Indiana

Lawhorn,KW,: Instructor: Australia/New Zealand Knee Course, Biomet Sports Medicine Surgical Skills Workshop, August 3, 2012, Plano, Texas

LawhornKW: Point/Counter Point presentation: Transtibial vs. Medial Portal ACL Reconstruction, AOSSM Meeting, Baltimore, MD July 2012

Lawhorn,KW,: Autograft vs. Allograft: The Effect of Graft Tissues on ACL Reconstruction Outcomes. **Orthopaedic Surgery Grand Rounds : VCU Medical Center**, Richmond Virginia, July 12, 2012

Lawhorn,KW: Moderator : **"Sports Medicine Arthroscopy IV: Patellofemoral and Meniscus** AAOS Annual Meeting, San Francisco, CA. Feb 09, 2012

Lawhorn,KW,: Instructor: Latin America Knee Course, Biomet Sports Medicine Surgical Skills Workshop, January 16, 2012, Warsaw, Indiana

LawhornKW,: Knee Faculty Instructor: **Arthroscopic knee ligament reconstruction and meniscal repair techniques**. Fall AANA Course, Palm Desert, California Nov 2011

Lawhorn,KW,: Instructor: Biomet Sports Medicine Surgical Skills Workshop, August 29-30, 2011, Warsaw, Indiana

Lawhorn,KW,: Arthroscopic Shoulder Surgery: What's New? **Fairfax Family Practice Residency Lecture Series**, July 2011, Fairfax, Virginia

Lawhorn,KW: (*Chairman*) - Instructional Course Lecture (ICL)#22 : The Management and Treatment of Meniscal Tears including Meniscal Transplantation: **8th Biennial ISAKOS Meeting**, Rio De Janeiro, Brazil, May 2011

Lawhorn,KW,: Technological Advances in Arthroscopic Shoulder Surgery. Rio De Janeiro, Brazil, May 2011

Lawhorn,KW: Advances in Rotator Cuff Repair Surgery: Two Rows are Better than One – Presented at INOVA Fair Oaks “Ask the Expert” Lecture Series, April 25, 2011, Fairfax Virginia

Lawhorn,KW,: Associate Master Instructor – AANA Masters Experience Course Knee “Ligament” Reconstruction Chicago, Illinois Mar 2011

Lawhorn,KW: Moderator : “**Sports Medicine Arthroscopy V: Hip Disorders/Arthroscopy**” AAOS Annual Meeting, San Diego, CA. Feb 17, 2011

Lawhorn,KW: Meniscal Injury and Repair. **Advances in Knee and Shoulder Arthroscopy Course**, Henderson, Nevada Nov 2010

Lawhorn,KW: Rotator Cuff Repair Constructs: Indications and Rationale. **Advances in Knee and Shoulder Arthroscopy Course**, Henderson, Nevada, Nov 2010

Lawhorn,KW,: Shoulder Faculty Instructor: **Arthroscopic shoulder reconstruction and rotator cuff repair techniques**. Fall AANA Course, Palm Desert, California Nov 2010

Lawhorn,KW: The Management and Treatment of Meniscal Tears : Japanese Sports Medicine Society Meeting (JAOSSM), Yokohama, Japan Sept 11, 2010

Lawhorn,KW: Maxfire Meniscal All-Inside Repair : Lecture and Surgical Demonstration : **Japanese Sports Medicine Society Meeting (JAOSSM)**, Yokohama, Japan Sept 11, 2010

Lawhorn,KW: Knee Faculty Instructor : AOSSM and ISAKOS sponsored **Current Concepts in Sports Medicine Surgery: A Global Perspective on the Treatment of Sports Injuries**. Providence, Rhode Island July 2010

Lawhorn,KW: Maxfire MarXmen Meniscal Repair. Course Chairman: **Advances in Shoulder and Knee Arthroscopy**, Long Island, NY May 2010

LawhornKW: Moderator : “**Sports Medicine Arthroscopy V: Hip Disorders/Arthroscopy**” AAOS Annual Meeting, New Orleans, LA. March 12, 2010

LawhornKW,: Focus Demonstration: **Arthroscopic Meniscal Repair using knotless suture based fixation device**. Fall AANA Course, Palm Desert, California Nov 2009

Lawhorn,KW: Faculty Knee Lab Instructor. Fall AANA Course, Palm Desert, California Nov 2009

Lawhorn,KW: Meniscal Injury and Repair. **Advances in Knee and Shoulder Arthroscopy Course**, Henderson, Nevada Nov 2009

Lawhorn,KW: Rotator Cuff Repair Constructs: Indications and Rationale. **Advances in Knee and Shoulder Arthroscopy Course**, Henderson, Nevada, Nov 2009

Lawhorn,KW: Shoulder Labral Repair: Indications and Techniques, DaVinci Shoulder Surgical Lab Course, June 12, 2009, Miami, Florida

Lawhorn,KW: Optimizing Tunnel Placement for ACL Reconstruction, DaVinci Knee Surgical Lab Course, June 13, 2009, Miami, Florida

Lawhorn,KW: ACL Graft Tissues: Does it Matter? DaVinci Knee Surgical Lab Course, June 13, 2009, Miami, Florida

Lawhorn,KW: Maxfire Meniscal Repair System, DaVinci Knee Surgical Lab Course, June 13, 2009, Miami, Florida

Lawhorn,KW: Associate Master Instructor – AANA Masters Experience Course Knee “Ligament” Course #704 Chicago, Illinois Mar 2009

Lawhorn,KW: Master Instructor – Fall AANA Course - Knee Ligament Reconstruction, Phoenix, Arizona Nov 2008

Lawhorn,KW: (*Chairman*): Shoulder Arthroscopy – Normal Shoulder Anatomy DVD Presentation : International Society of Arthroscopy, Knee Surgery and Sports Medicine (**ISAKOS**), Osaka Japan 2009

Lawhorn,KW : Rotator Cuff Disease: Advances and Treatment Rationale – **INOVA Sports Medicine** Physician Continuing Education Course: May 28, 2008, Tysons Corner, Virginia

Lawhorn,KW: Course Chairman - Knee and Shoulder Arthroscopy Surgical Skills Workshop, May 9, 2007, Celebration, Florida

Lawhorn, KW: ACL Injury in the Female Athlete - **INOVA Sports Medicine CEU Workshop**, March 2008, Alexandria Virginia

Lawhorn, KW: Sports-Related Hip Injury – Presented at **INOVA Sports Medicine Lecture Series**, INOVA Loudoun Hospital, Lansdowne Campus, February 2008, Loudoun Virginia

Lawhorn,KW: Co-Chair Knee and Shoulder Arthroscopy Surgical Skills Workshop, Medical Education and Research Institute of Nevada, January 29, 2008, Henderson Nevada

Lawhorn,KW: Meniscal Repair demonstrating the Maxfire Meniscal Repair System, Medical Education and Research Institute of Nevada, January 29, 2008, Henderson Nevada

Lawhorn,KW: Rotator Cuff Repair – Introducing a Novel Device and Technique, Medical Education and Research Institute of Nevada, Biomet Sports Medicine January 29, 2008, Henderson Nevada

Lawhorn,KW: Treatment of Common Sports Related Injuries – Presented at **INOVA Fair Oaks “Ask the Expert” Lecture Series**, January 22, 2008, Fairfax Virginia

Lawhorn,KW: Optimizing Single Tunnel ACL Reconstruction and Soft Tissue Graft Fixation : Live Cadaveric Focus Demonstration **26th Fall AANA Course**. Orlando, Florida 2007

Lawhorn,KW: Arthroscopic Advances in Rotator Cuff Surgery *Advances in Total Joint Arthroplasty and Sports Medicine* Meeting. Pinehurst, North Carolina Oct 2007

Lawhorn,KW: Arthroscopic Management of Shoulder Labral Tears *Advances in Total Joint Arthroplasty and Sports Medicine* Meeting. Pinehurst, North Carolina Oct 2007

Lawhorn,KW : ACL Tunnel Placement and Soft Tissue Graft Fixation *Advances in Total Joint Arthroplasty and Sports Medicine* Meeting. Pinehurst, North Carolina Oct 2007

Lawhorn,KW : Advances in Meniscal Repair Techniques *Advances in Total Joint Arthroplasty and Sports Medicine* Meeting. Pinehurst, North Carolina Oct 2007

Lawhorn,KW : Meniscal Injury and Treatment Options – *University of Colorado Fall Sports Symposium*, Boulder, Colorado Sept 14, 2007

Lawhorn,KW : Optimizing Single Tunnel ACL Reconstruction – *University of Colorado Fall Sports Symposium*, Boulder, Colorado Sept 14, 2007

Lawhorn,KW : Hamstring ACL Reconstruction and Knee Biomechanics – *Advanced Knee and Shoulder Arthroscopy Course*, Faculty Instructor, Utrecht, Netherlands, June 19-21, 2007

Lawhorn,KW : Meniscal Injury and Treatment Options – *Advanced Knee and Shoulder Arthroscopy Course*, Faculty Instructor, Utrecht, Netherlands, June 19-21, 2007

Lawhorn, KW : Complex Multi-Ligament Knee Injuries – *Advanced Knee and Shoulder Arthroscopy Course*, Faculty Instructor, Utrecht, Netherlands, June 19-21, 2007

Lawhorn, KW : Evaluation and Management of Acute Knee Injuries – *Advanced Knee and Shoulder Arthroscopy Course*, Faculty Instructor, Utrecht, Netherlands, June 19-21, 2007

Lawhorn, KW : Evaluation and Management of Patellofemoral Instability – *Advanced Knee and Shoulder Arthroscopy Course*, Faculty Instructor, Utrecht, Netherlands, June 19-21, 2007

Lawhorn, KW : Principles for Use of Soft Tissue Grafts for ACL Reconstruction – Presented at: **A Knee Innovation Summit: From Birth to Death, Breakout Session – Cleveland Clinic**, Cleveland, Ohio, April 2007

Lawhorn, KW : Evaluation and Management of Knee Pain – *Lecture Series at the Freedom Center*, George Mason University, Prince William, Virginia April 10, 2007

Lawhorn, KW : Evaluation and Management of Shoulder Pain – Presented at **INOVA Sports Medicine CEU Workshop**, March 2007, Alexandria Virginia

Lawhorn, KW : Prevention of Throwing Injuries in Little League Baseball Players – Presented at **INOVA Sports Medicine Lecture Series**, Fair Oaks Hospital, February 2007, Fairfax Virginia

Lawhorn, KW : Advances in the Arthroscopic Management of Shoulder Injuries – Presented at **INOVA Fair Oaks “Ask the Expert” Lecture Series**, November 2006, Fairfax Virginia

Lawhorn, KW : Evaluation and Management of Shoulder Pain - Presented at the **Fairfax Family Practice Residency Lecture Series**, October 2006, Fairfax, Virginia

Lawhorn, KW : Injury Prevention in Little League Baseball Players – Presented at the **Chantilly Youth Association (CYA) Managers Meeting**, March 2006, Chantilly, Virginia

Lawhorn, KW : Evaluation and Management of Rotator Cuff Disease - Presented to INOVA Hospital Physical Therapy Staff, October 2005, Fairfax, Virginia

Lawhorn, KW : Current Concepts in ACL Reconstruction – Presented at the **Orthopedic Surgery Residency Program Grand Rounds, University of Virginia**, May 2005, Charlottesville Virginia

Lawhorn, KW : The Use of Soft Tissue Grafts for ACL Reconstruction – Presented to INOVA Hospital Physical Therapy Staff, February 2005, Fairfax, Virginia

Lawhorn,KW : Current Concepts in ACL Reconstruction – Presented at the **Orthopedic Surgery Residency Program Grand Rounds, Bethesda Naval Hospital** December 2004, Bethesda Maryland

Lawhorn,KW : Athletic Injuries of the Foot and Ankle: Part I – Presented at the **Fairfax Family Practice Residency Lecture Series**, November 2004, Fairfax, Virginia

Lawhorn,KW : Athletic Injuries of the Foot and Ankle: Part II – Presented at the **Fairfax Family Practice Residency Lecture Series**, November 2004, Fairfax, Virginia

Lawhorn,KW : Anterior Shoulder Instability – Presented to INOVA Hospital Physical Therapy Staff, October 2004, Fairfax, Virginia

Lawhorn, KW : Shoulder Instability: Evaluation and Treatment – Presented to INOVA Fair Oaks ER Staff, October 2004, Fairfax, Virginia

Lawhorn,KW : Tunnel Placement for Anterior Cruciate Reconstruction – Presented at *Advances in Total Joint Arthroplasty and Sports Medicine* meeting April 2003, Key West Florida

Lawhorn,KW : Bone Mulch Screw/Washerloc Screw ACL Reconstruction Technique - Presented at *Advances in Total Joint Arthroplasty and Sports Medicine* meeting April 2003, Key West Florida

Lawhorn,KW : The Importance of Fixation for Soft Tissue Graft ACL Reconstruction - Presented at *Advances in Total Joint Arthroplasty and Sports Medicine* meeting April 2003, Key West Florida

Howell,SM, Lawhorn,KW, Traina,SM : Hamstring Anterior Cruciate Ligament Reconstruction Using Three Surgical Techniques: An Outcome Analysis Comparing Women and Men – Poster presentation at the **International Society of Arthroscopy, Knee Surgery and Sports Medicine, Auckland, New Zealand** March 2003

Lawhorn,KW: Tibial WasherLoc: The Scientific Justification of Hamstring ACL Reconstruction– **Orthopaedic Learning Center, Femoral Cross Pin/Hamstring ACL Course** January 2003

Lawhorn,KW : How Four Weeks of Implantation Affect the Strength and Stiffness of a Tendon Graft in a Bone Tunnel: A Study of Two Fixation Devices in an Extraarticular Model in Ovine. Presented at the **21st Annual AANA Meeting** April 2002, Washington D.C.

Lawhorn,KW: Recognizing Posterolateral Corner Laxity in the ACL Deficient Knee – Presented at the **American Academy of Orthopaedic Physicians Assistants Meeting** Oct 2001, Charleston, South Carolina

Lawhorn,KW, Singhatat,W, Howell,SM, Hull,ML : How Four Weeks of Implantation Affect the Strength and Stiffness of a Tendon Graft in a Bone Tunnel: A Study of Two Fixation Devices in an Extraarticular Model in Ovine. Presented at the **International Society of Arthroscopy, Knee Surgery and Sports Medicine (ISAKOS), Montreaux, Switzerland** May 2001

Lawhorn,KW : A Review of the Approaches to ACL Reconstruction – Presented at the American Academy of Physicians Assistants Meeting May 2000, Chicago, Illinois

Lawhorn,KW, Zacharias,IJ, Howell,SM, Hull,ML : Fixation Device Transducer(FDT) to Measure Anterior Cruciate Graft Forces in an In-Vivo Sheep Model – Presented at the **Society of Military Orthopaedic Surgeons Meeting** 1999, Williamsburg, Virginia

Lawhorn,KW, Young,CD : Comparison of Percutaneous Anterior and Lateral Pinning of the Proximal Humerus – An Anatomic Study – Presented at Annual Resident’s Day Meeting Medical College of Virginia 1996

Lawhorn,KW, Wayne,JS, Davis,KE, Prakash,K, Adelaar,RS : The Effect of Tibiotalar Fixation on Foot Biomechanics. – Presented at the **Summer Meeting Foot and Ankle Society**, June 1994

Hobbies: Men’s Tennis Team: International Country Club 2010, 2011
Downhill skiing, golf, circuit training