



American College of Surgeons ASSET Course Instructor	01/2013
American College of Surgeons 21st Annual Surgeons as Educators Course	09/2014
American College of Surgeons	

**ACADEMIC APPOINTMENTS**

03/2006-06/2015	Associate Professor, University of South Carolina School of Medicine, Clinical Surgery, Columbia, SC.
2012-Present	Advanced Trauma Life Support Instructor, American Board of Surgeons.
2013-2015	Adjunct Faculty, Clemson University, Bioengineering, Clemson, SC.
2015-Present	Senior Design Mentor, Clemson University, Bioengineering, Clemson, SC.
11/2015-Present	Clinical Faculty, Clemson University, School of Health Research, Clemson, SC.
04/2017-Present	Professor of Clinical Surgery, USC School of Medicine - Greenville, Greenville, SC.

**HOSPITAL ADMINISTRATIVE APPOINTMENTS**

07/1999-02/2001	Physician, Tuomey Regional Medical Center Staff Surgeon Surgery, Sumter, South Carolina
01/2010-05/2015	Division Chief Vascular Surgery, Greenville, South Carolina
07/2010-Present	Program Director-Vascular Surgery Fellowship, Greenville, South Carolina
06/2015-Present	Vascular Medical Director, Clemson University CVT Leadership Program, Greenville, South Carolina
09/2016-Present	Medical Director-Vascular Lab, Prisma Medical Director-Vascular Lab, Greenville, South Carolina

**OTHER PROFESSIONAL POSITIONS**

09/2016-Present	Medical Director, Prisma Health, Vascular Lab, Greenville, SC.
08/2010-Present	Medical Director, Clemson University, Cardiovascular Imaging Leadership Concentration, Clemson, SC.

**AWARDS AND HONORS**

**Greenville Health System**

2014	Spence Taylor Outstanding Surgical Educator Award Greenville Health System
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**University**

1994	Resident of the Year University of South Carolina School of Medicine
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**State**

February 1995	Clinical Research Award South Carolina Chapter of American College of Surgeons
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**MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES**

2000-2018	Southeastern Surgical Congress Member
2001-2005	South Carolina Surgical Society Member
2001-Present	Vascular Endovascular Surgery Society Member

2002-Present	American College of Surgeons Fellow
2002-Present	Society for Vascular Surgery Member
2002-Present	South Carolina American College of Surgeons Member
2002-Present	South Carolina Vascular Surgical Society Member
2003-Present	Society for Clinical Vascular Surgery Member
2004-Present	Southern Association of Vascular Surgery Member
2015-Present	Vascular Access Society of the Americas Member

## **SERVICE**

### **INVITED REVIEWER**

### **PROFESSIONAL SOCIETIES**

01/2018-01/2018 Moderator, Scientific Paper Presentations, Southern Association for Vascular Surgery, Scottsdale, AZ

### **PEER-REVIEWED LECTURES AND PRESENTATIONS GIVEN**

#### **International**

Carsten III, C. G., Cull, J. D., Cull, D. L., Taylor, S. M., Snyder, B. A., Youkey, J. R., Langan III, E. M., Blackhurst, D. W., "Prosthetic Thigh Arteriovenous Access: A Reappraisal of Outcome Using the ASVS/AAVS Reporting Standards for Arteriovenous Access," Society for Vascular Surgery/American Association for Vascular Surgery, Toronto, Ontario, Canada. (June 8, 2003 - June 11, 2003).

Carsten III, C. G., Kalbaugh, C. A., Taylor, S. M., Blackhurst, D. W., Gray, B. H., Mackrell, P. J., Langan III, E. M., Cull, D. L., Snyder, B. A., Stanbro, M. D., Youkey, J. R., "The LEGS Score as a Predictor of Best Interventional Therapy for Chronic Limb Ischemia: a Six-Month Prospective Outcomes Study," Society for Vascular Surgery/American Association for Vascular Surgery, Toronto, Ontario, Canada. (June 8, 2003 - June 11, 2003).

Carsten III, C. G., Gucwa, A. L., Cull, D. L., "Description and Outcomes of a Simple Surgical Technique for Treating Arteriovenous Fistula Pseudoaneurysms," Vascular Access Society of the Americas, Dallas, TX. (May 2, 2014 - May 3, 2014).

Carsten, C., "Indications and Outcomes of Nonhemodialysis Arteriovenous Fistulas in Pediatric Patients," Vascular Access for Hemodialysis XIV Symposium, Vascular Access Society of the Americas, Chicago, IL. (May 12, 2016 - May 14, 2016).

Carsten, C., "Pediatric Arteriovenous Fistula Maturation Utilizing Ultrasound Guided Liposuction: A Case Report," Vascular Access for Hemodialysis XIV Symposium, Vascular Access Society of the Americas, Chicago, IL. (May 12, 2016 - May 14, 2016).

#### **National**

Carsten, C., Taylor, S., Langan, E., "Factors Associated with Limb Loss Despite a Patent Infrainguinal Bypass Graft," Southeastern Surgical Congress, Southeastern Surgical Congress, Nashville, TN. (February 5, 1997).

Carsten, C., "Use of Limited Color-Flow Duplex for a Carotid Screening Project," Annual Meeting, Society for Clinical Vascular Surgery, Orlando, Florida. (March 1999).

Carsten, C., "Elastase is not Sufficient to Induce Experimental Abdominal Aortic Aneurysms," 28th Annual Meeting, Society for Clinical Vascular Surgery, Rancho Mirage, CA. (March 2000).

Cull, D. L., Taylor, S. M., Carsten, C. G., Youkey, J. R., Snyder, B. A., Sullivan, T. M., Langan, E. M., "The Fistula Elevation Procedure: A Valuable Technique for Maximizing Arteriovenous Fistula Utilization," Peripheral Vascular Surgery Society Spring Meeting, Peripheral Vascular Surgery Society, Baltimore, MD. (June 9, 2001).

Bolton, W. D., Cull, D. L., Taylor, S. M., Langan, E. M., Sullivan, T. M., Snyder, B. A., Youkey, J. R., Gray, B. H., Carsten, C. G., "The Use of Cryopreserved Femoral Vein Grafts for Hemodialysis Access in Patients at High Risk for Infection: A Word of Caution," Southern Association for Vascular Surgery, Southern Association for Vascular Surgery, Miami Beach, FL. (January 16, 2002).

Langan III, E. M., Mackrell, P. J., Sullivan, T. M., Gray, B. H., Taylor, S. M., Cull, D. L., Snyder, B. A., Youkey, J. R., Carsten III, C. G., "Management of Renal Artery Stenosis: Effects of a Shift from Surgical to Percutaneous Therapy on Indications and Outcomes," Annual Meeting, Peripheral Vascular Surgical Society, Boston, MA. (June 8, 2002).

Patel, A. P., Cull, D. L., Taylor, S. M., Langan, E. M., Snyder, B. A., Sullivan, T. M., Youkey, J. R., Carsten, C. G., "The Chest Wall Arterio-Venous Graft: An Alternative Tertiary Access Procedure," 96th Annual Scientific Assembly of the Southern Medical Association, Southern Medical Association, Washington, DC. (November 13, 2002).

Patel, A. P., Langan, E. M., Sullivan, T. M., Gray, B. H., Taylor, S. M., Carsten, C. G., Cull, D. L., Snyder, B. A., Youkey, J. R., "A Comparison of Standard Open Surgical Repair and Endovascular Repair of Abdominal Aortic Aneurysms in Octogenarians," Southeastern Surgical Congress, Southeastern Surgical Congress, Savannah, GA. (February 9, 2003).

Carsten III, C. G., Taylor, S. M., Cull, D. L., Langan, E. M., Snyder, B. A., Jackson, M. R., Youkey, J. R., Caldwell, R. A., "The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access," Winter Meeting, Peripheral Vascular Surgery Society, Steamboat Springs, CO. (January 30, 2004 - February 1, 2004).

Carsten III, C. G., Kalbaugh, C. A., Taylor, S. M., Gray, B. H., Blackhurst, D. W., Langan III, E. M., Patel, A. P., Caldwell, R. A., "Does the Presence of Diabetes Mellitus Affect the Results of Percutaneous Transluminal Angioplasty for Chronic Limb Ischemia?," American College of Cardiology, New Orleans, LA. (March 7, 2004 - March 10, 2004).

Carsten III, C. G., Patel, A. P., Langan III, E. M., Taylor, S. M., Snyder, B. A., Cull, D. L., Youkey, J. R., Jackson, M. R., "Carotid Endarterectomy in a High-risk Patient Population: Examination of Postoperative Stroke, Death and Myocardial Infarction," Society for Clinical Vascular Surgery, Rancho Mirage, CA. (March 10, 2004 - March 14, 2004).

Carsten III, C. G., Taylor, S. M., Cull, D. L., Langan, E. M., Snyder, B. A., Jackson, M. R., Youkey, J. R., Caldwell, R. A., "The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access," Society for Clinical Vascular Surgery, Rancho Mirage, CA. (March 10, 2004 - March 14, 2004).

Carsten III, C. G., Androes, M. P., Kalbaugh, C. A., Taylor, S. M., Blackhurst, D. W., McClary Jr, G. E., Gray, B. H., Langan III, E. M., Cull, D. L., Snyder, B. A., Jackson, M. R., Caldwell, R. A., Youkey, J. R., "Does a Standardization Tool to Direct Invasive Therapy of Symptomatic Lower Extremity Peripheral Artery Disease Improve Outcomes?," Society for Vascular Surgery, Anaheim, CA. (June 3, 2004 - June 6, 2004).

Carsten III, C. G., Cull, D. L., Hanover, T. M., McClary, G. E., Taylor, S. M., Youkey, J. R., Snyder, B. A., Jackson, M. R., Langan III, E. M., "The Vascular Access Score: A Tool for Standardizing Patient Selection for Arteriovenous Access Site and Procedure," Society for Vascular Surgery, Anaheim, CA. (June 3, 2004 - June 6, 2004).

Carsten, C., "Pearls in Access Surgery," 90th Annual Clinical Congress, American College of Surgeons, New Orleans, LA. (October 10, 2004 - October 14, 2004).

Carsten III, C. G., Androes, M. P., Langan III, E. M., Kalbaugh, C. A., Blackhurst, D. W., Gray, B. H., Hanover, T. M., Jones, W. T., Taylor, S. M., York, J. W., Jackson, M. R., Cull, D. L., Snyder, B. A., Youkey, J. R., "Is Incidental Renal Angiography Justified in a Population of Patients with Symptomatic Peripheral Arterial Disease?," Southern Association for Vascular Surgery, Marco Island, FL. (January 19, 2005 - January 22, 2005).

Carsten III, C. G., Androes, M. P., Langan III, E. M., Kalbaugh, C. A., Blackhurst, D. W., Gray, B. H., Hanover, T. M., Jones, W. T., Taylor, S. M., York, J. W., Jackson, M. R., Cull, D. L., Snyder, B. A., Youkey, J. R., "Is Incidental Renal Angiography Justified in a Population of Patients with Symptomatic Peripheral Arterial Disease?," Winter Meeting, Peripheral Vascular Surgery Society, Steamboat Springs, CO. (January 28, 2005 - January 31, 2005).

Carsten III, C. G., Androes, M. P., Langan III, E. M., Kalbaugh, C. A., Blackhurst, D. W., Gray, B. H., Hanover, T. M., Jones, W. T., Taylor, S. M., York, J. W., Jackson, M. R., Cull, D. L., Snyder, B. A., Youkey, J. R., "Is Incidental Renal Angiography Justified in a Population of Patients with Symptomatic Peripheral Arterial Disease?," Society for Clinical Vascular Surgery, Coral Gables, FL. (March 9, 2005 - March 13, 2005).

Carsten III, C. G., Jones III, W. T., Langan III, E. M., Kalbaugh, C. A., Taylor, S. M., Cull, D. L., Snyder, B. A., Gray, B. H., Jackson, M. R., York, J. W., Youkey, J. R., "A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease," Peripheral Vascular Surgery Society, Chicago, IL. (June 17, 2005 - June 18, 2005).

Carsten, C., Taylor, S. M., Kalbaugh, C. A., Blackhurst, D. W., Cass, A. L., Trent, E. A., Langan III, E. M., Cull, D. L., Snyder, B. A., Gray, B. H., "Functional Outcome After Revascularization for Critical Limb Ischemia--An Analysis of 1000 Consecutively Treated Lower Extremities," Southern Association for Vascular Surgery, Phoenix, AZ. (January 18, 2006 - January 21, 2006).

Carsten III, C. G., Jones III, W. T., Langan III, E. M., Kalbaugh, C. A., Taylor, S. M., Cull, D. L., Snyder, B. A., Gray, B. H., Jackson, M. R., York, J. W., Youkey, J. R., "A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease," Winter Meeting, Peripheral Vascular Surgery Society, Park City, UT. (January 27, 2006 - January 29, 2006).

Carsten III, C. G., Kalbaugh, C. A., Taylor, S. M., Jackson, M. R., Blackhurst, D. W., Dellinger, M. B., Gray, B. H., Langan III, E. M., "One Year Prospective Quality of Life Outcomes in Patients Treated With Angioplasty for Symptomatic Peripheral Arterial Disease," Winter Meeting, Peripheral Vascular Surgery Society, Park City, UT. (January 27, 2006 - January 29, 2006).

Carsten III, C. G., York, J. W., Kalbaugh, C. A., Blackhurst, D. W., Hall, L. T., Gray, B. H., Langan III, E. M., Jackson, M. R., Cull, D. L., Taylor, S. M., "SFA Angioplasty for Limb Salvage in Patients With Critical Limb Ischemia: A 6-Year Experience," Winter Meeting, Peripheral Vascular Surgery Society, Park City, UT. (January 27, 2006 - January 29, 2006).

Palmer, R. M., Cull, D. L., Kalbaugh, C. A., Carsten, C. G., Snyder, B. A., Jackson, M. R., York, J. W., Langan, E. M., Blackhurst, D. W., Taylor, S. M., "Is Surgical Thrombectomy to Salvage Failed Native Arteriovenous Fistulae Worthwhile?," Southeastern Surgical Congress, Southeastern Surgical Congress, Lake Beuna Vista, FL. (February 18, 2006).

Scott, J. D., Cull, D. L., Kalbaugh, C. A., Carsten, C. G., Blackhurst, D. W., Taylor, S. M., Snyder, B. A., Jackson, M. R., York, J. W., Langan, E. M., "The Mid-Thigh Loop Arteriovenous Graft: Patient Selection, Technique and Results," Southeastern Surgical Congress, Southeastern Surgical Congress, Lake Beuna Vista, FL. (February 18, 2006).

Carsten III, C. G., Jones III, W. T., Langan III, E. M., Kalbaugh, C. A., Taylor, S. M., Cull, D. L., Snyder, B. A., Gray, B. H., Jackson, M. R., York, J. W., Youkey, J. R., "A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease," Southeastern Surgical Congress, Lake Buena Vista, FL. (February 18, 2006 - February 21, 2006).

Carsten III, C. G., Jones III, W. T., Langan III, E. M., Kalbaugh, C. A., Taylor, S. M., Cull, D. L., Snyder, B. A., Gray, B. H., Jackson, M. R., York, J. W., Youkey, J. R., "A Contemporary Look at the Iliofemoral Bypass for Unilateral Iliac Disease," Society for Clinical Vascular Surgery, Las Vegas, NV. (March 8, 2006 - March 11, 2006).

Carsten III, C. G., Taylor, S. M., Kalbaugh, C. A., Blackhurst, D. W., Trent, E. A., Cull, D. L., Langan III, E. M., Snyder, B. A., York, J. W., Youkey, J. R., "Does Percutaneous Transluminal Angioplasty for Critical Limb Ischemia Benefit Physiologically Impaired Patients Unsuitable for Open Surgery?," Society for Vascular Surgery, Philadelphia, PA. (June 1, 2006 - June 4, 2006).

Carsten III, C. G., Taylor, S. M., Kalbaugh, C. A., Blackhurst, D. W., Trent, E. A., Cull, D. L., Langan III, E. M., Snyder, B. A., York, J. W., Youkey, J. R., "Does Percutaneous Transluminal Angioplasty for Critical Limb Ischemia Benefit Physiologically Impaired Patients Unsuitable for Open Surgery?," Spring Meeting, Peripheral Vascular Surgery Society, Philadelphia, PA. (June 2, 2006 - June 3, 2006).

Jones, W. B., Cull, D. L., Kalbaugh, C. A., Cass, A. L., Taylor, S. M., Carsten, C. G., "Surgical Revascularization in Patients with End-Stage Renal Disease: A New Paradigm in Outcomes Assessment," Southeastern Surgical Congress, Southeastern Surgical Congress, Savannah, GA. (February 9, 2007).

Kendall, T. W., Cull, D. L., Kalbaugh, C. A., Cass, A. L., Taylor, S. M., Carsten, C. G., "The Axillo-Axillary Arteriovenous Graft: Technique and Outcomes in the Obese Patient," The Society for Clinical Vascular Surgery, The Society for Clinical Vascular Surgery, Orlando, FL. (March 21, 2007).

Langan III, E. M., Joels, C. S., York, J. W., Kalbaugh, C. A., Cull, D. L., Snyder, B. A., Cass, A. L., Carsten III, C. G., Taylor, S. M., "Does Early Failed Endovascular Treatment of the Superficial Femoral Artery Affect Subsequent Revascularization Options and Patient Outcomes?," Vascular Annual Meeting, Society for Vascular Surgery, Baltimore, MD. (June 7, 2007 - June 10, 2007).

Bronder, C. M., Cull, D. L., Kuper, S. G., Kalbaugh, C. A., Cass, A. L., Carsten, C. G., York, J. W., Youkey, J. R., Taylor, S. M., "The Fistula Elevation Procedure as an Adjunct for AV Fistulae Maturation: Experience with 295 Consecutive Cases," Southern Surgical Association, Southern Surgical Association, Hot Springs, VA. (December 2, 2007).

Morse, B. C., Cull, D. L., Kalbaugh, C. A., Cass, A. L., Carsten, C. G., Taylor, S. M., "Through-Knee Amputation in Patients with Peripheral Arterial Disease: A Review of 50 Cases," Southern Association for Vascular Surgery, Southern Association for Vascular Surgery, Naples, FL. (January 16, 2008).

Cull, D. L., Carsten, C. G., Kalbaugh, C. A., York, J. W., Campbell, T. R., Cass, A. L., Taylor, S. M., "Reverse J A-V Grafts for Hemodialysis Access: Rationale, Technique and Outcomes," Southeastern Surgical Congress, Southeastern Surgical Congress, Birmingham, AL. (February 9, 2008).

Webb, K. M., Cull, D. L., Carsten, C. G., Johnson, B. L., Taylor, S. M., "Outcomes of the Viabahn Endoprosthesis to Salvage Failed Arteriovenous Accesses," Peripheral Vascular Surgery Society Winter Meeting, Peripheral Vascular Surgery Society, Steamboat Springs, CO. (January 30, 2009).

Carsten, C., "Complex/Exotic Access Procedures," Vascular Annual Meeting, SVS, Denver, CO. (June 10, 2009).

Carsten, C., "Chronically Ill Patients with Poor Vascular Access: Options and Care," Association for Vascular Access, Washington, D.C. (September 24, 2010 - September 26, 2010).

Carsten, C., "Understanding Hemodialysis," Association for Vascular Access, Washington, D.C. (September 24, 2010 - September 26, 2010).

Carsten III, C. G., Keahey, G., Cull, D. L., "Arteriovenous Access for Plasmapheresis," Vascular Access for Hemodialysis XIII Symposium, Vascular Access Society of the Americas, Orlando, FL. (May 9, 2012 - May 11, 2012).

Carsten III, C. G., Langan III, E. M., Johnson, B. L., Dunphy, K., Taylor, S. M., "Patient Radiation Exposure: Can Duplex Ultrasound Replace Routine CT Scan for EVAR Surveillance," Spring Meeting, Peripheral Vascular Surgery Society, Washington, D.C. (June 6, 2012).

Carsten III, C. G., Langan III, E. M., Androes, M. P., Boster, A. H., Taylor, S. M., "Is Surveillance of Peripheral Arteries for Aneurysm Development Necessary for Patients with Abdominal Aortic Aneurysms," The Society for Vascular Surgery, National Harbor, MD. (June 7, 2012 - June 9, 2012).

Carsten III, C. G., Bordoli, S. J., Cull, D. L., Johnson, B. L., Taylor, S. M., "Radiation Safety Education in Vascular Surgery Training: An Unmet Requirement," Society for Clinical Vascular Surgery, Miami, FL. (March 12, 2013 - March 16, 2013).

Carsten III, C. G., Cull, D. L., Langan III, E. M., Taylor, S. M., Tong, A., Johnson, B., "The Influence of a Vascular Surgery Hospitalist Program on Physician and Patient Satisfaction, Resident Education, and Resource Utilization," Society for Clinical Vascular Surgery, Miami, FL. (March 12, 2013 - March 16, 2013).

Carsten, C., "The Greenville Health System Simulation Experience," Association for Program Directors in Vascular Surgery, Rosemont, IL. (March 22, 2013 - March 23, 2013).

Carsten, C., "Alternative Access for the Very Long Term," Association for Vascular Access, Nashville, TN. (September 20, 2013 - September 23, 2013).

Claudeanos, K. T., Cull, D. L., Keahey, G., Hudgins, J., Carsten, C. G., "Fistulas in Octogenarians: Are They Beneficial?," Peripheral Vascular Surgery Society, Peripheral Vascular Surgery Society, Steamboat Springs, CO. (January 30, 2014).

Carsten, C., "Dealing with the Problem Trainee," Association of Vascular Surgery Coordinators, Chicago, IL. (March 29, 2014).

Carsten, C., "Contemporary Management of Access Related Limb Ischemia," Annual Clinical Congress, American College of Surgeons, San Francisco, CA. (October 26, 2014 - October 30, 2014).

Gandhi, S., Eidt, J., Carsten, C., "Triple Barrel Aortic Dissection: A Case Report," Vascular Interventional Advances (VIVA), Las Vegas, NV. (November 2014).

Carsten III, C. G., Walker, E. J., "Atypical Profunda Femoral Artery Pseudoaneurysm," Society for Vascular Ultrasound, Las Vegas, NV. (July 16, 2015 - July 18, 2015).

Carsten III, C. G., Saaoud, F., Davis, L. A., Shazly, T., Fan, D., Snyder, B. A., Lessner, S. M., "MicroRNA-155 Gene Expression is Elevated in Symptomatic Carotid Plaques," Society for Clinical Vascular Surgery, Las Vegas, NV. (March 12, 2016 - March 15, 2016).

Carsten III, C. G., Hudgins, J. A., Keahey, G. P., Ewing, J. A., Hale, A. L., Cull, D. L., "Nonhemodialysis Arteriovenous Fistulas for Permanent Venous Access: Reevaluation of an Old Idea," Society for Clinical Vascular Surgery, Las Vegas, NV. (March 12, 2016 - March 15, 2016).

Carsten III, C. G., Gandhi, S. S., Blas, J., Lee, S., Eidt, J. F., "Evaluation of Nonoperative Management of Grade III Blunt Thoracic Aortic Injuries," Vascular Annual Meeting, Society for Vascular Surgery, National Harbor, MD. (June 8, 2016 - June 11, 2016).

Powell, B., Carsten, C., "Pediatric Arteriovenous Fistula Utilizing the Operating Microscope," American College of Surgeons 2017 Clinical Conference, American College of Surgeons, San Diego, CA. (October 22, 2017 - October 26, 2017).

Powell, B. C., Webb, K., Freeman, B., Carsten, C., Gandhi, S., "Ligation of Common Iliac Artery Mycotic Aneurysm in a Neonate and Review of the Literature," Southern Association for Vascular Surgery, Southern Association for Vascular Surgery, Scottsdale, AZ. (January 17, 2018 - January 20, 2018).

M, F. B., S, T. J., Hale, A., Cull, D., Carsten, C., "The Inside-Out Technique: A Vascular Surgeon's Guide to Complex Catheter Placement," The Southern Association for Vascular Surgery, The Southern Association for Vascular Surgery, Scottsdale, AZ. (January 17, 2018 - January 20, 2018).

Jones, B. J., Groot, S. J., Gandhi, S., Gray, B., Carsten, C., "The ValueVac -- Cost-Saving Incisional Management System (Winner of the resident poster competition)," 44th Annual Meeting, Southern Association of Vascular Surgery, Palm Beach, FL. (January 2020).

Sticco, A., Gandhi, S., Knoedler, B., Marston, G., Ewing, J. A., Langan, E., Carsten, C., "Current Outcomes of Blunt Vertebral Artery Injuries," The Southern Association for Vascular Surgery, Palm Beach, FL. (January 8, 2020).

Fatula, L., Fleming, T., Jones, B., Carsten, C., "Mycotic Right Subclavian Artery Aneurysm: A Rare and Challenging Pathology," The Southern Association for Vascular Surgery, Palm Beach, FL. (January 8, 2020).

Barton, V. R., Groot, S. J., Jones, B. J., Carsten, C., "CASE REPORT: SPONTANEOUS ARTERIAL RUPTURE AND AIRWAY COMPROMISE IN A PATIENT WITH NEUROFIBROMATOSIS," Southeastern Surgical Congress, New Orleans, LA. (February 9, 2020).

DeLallo, J., Carsten, C., "A RARE PRESENTATION OF MULTIPLE VISCERAL ARTERY ANEURYSMS," Southeastern Surgical Congress, New Orleans, LA. (February 10, 2020).

Metzger, A., Tingen, J. S., Carsten, C., "OPERATING MICROSCOPE SKIN BURN DURING ARTERIOVENOUS FISTULA CREATION IN A PEDIATRIC PATIENT," Southeastern Surgical Congress, New Orleans, LA. (February 10, 2020).

Carsten, C., "Hemodialysis Access," Audible Bleeding Podcast, Vascular Surgery Educational Project, <https://youtu.be/RLIGw6AfXxc>. (April 21, 2020).

## **Regional**

Langan, E. M., Miller, R. S., Casey, W. J., Carsten, C. G., Graham, R. M., Taylor, S. M., "Prophylactic Inferior Vena Cava filters in Thigh-Risk Trauma Patients: Follow-up and Risk/Benefit Assessment," Southern Association for Vascular Surgery, Naples, FL. (January 27, 1999 - January 30, 1999).

Langan, E. M., Mackrell, P. J., Sullivan, T. M., Taylor, S. M., Snyder, B. A., Cull, D. L., Gray, B. H., Carsten, C. G., Youkey, J. R., "Endovascular Repair of Aortic Bypass Graft Pseudoaneurysms: Insight into Management Decisions and Technical Factors," Southern Association for Vascular Surgery, Miami Beach, FL. (January 16, 2002 - January 19, 2002).

Langan, E. M., Sullivan, T. M., Taylor, S. M., Blackhurst, D. W., Cull, D. L., Carsten, C. G., Gray, B. H., Snyder, B. A., Youkey, J. R., "Has Endovascular Surgery Reduced the Number of Open Vascular Operations Performed by an Established Surgical Practice?," Southern Association for Vascular Surgery, Miami Beach, FL. (January 16, 2002 - January 19, 2002).

Langan, E. M., Patel, A. P., Taylor, S. M., Snyder, B. A., Cull, D. L., Sullivan, T. M., Youkey, J. R., Gray, B. H., Carsten, C. G., "Obturator Bypass: A Classic Approach for the Treatment of Contemporary Groin Infection," Southeastern Surgical Congress, Nashville, TN. (February 3, 2002 - February 5, 2002).

Carsten III, C. G., Sullivan, T. M., Patel, A. P., Gray, B. H., Langan III, E. M., Taylor, S. M., Snyder, B. A., Cull, D. L., Mackrell, P. J., Youkey, J. R., "Selective Extracranial Carotid Angiography Performed by the Vascular Surgery Service: Indications, Technique, and Results," Midwestern Vascular Surgical Society, Madison, WI. (September 13, 2002).

Carsten III, C. G., Taylor, S. M., Kalbaugh, C. A., Gray, B. H., Mackrell, P. J., Langan, E. M., Cull, D. L., Snyder, B. A., Stanbro, M. D., Youkey, J. R., "The LEGS Score: A Reproducible Scoring System to Grade and Treat Chronic Lower Extremity Ischemia," Southern Surgical Association, Palm Beach, FL. (December 1, 2002 - December 4, 2002).



Carsten III, C. G., Mackrell, P. J., Kalbaugh, C. A., Langan III, E. M., Taylor, S. M., Gray, B. H., Sullivan, T. M., Snyder, B. A., Cull, D. L., Youkey, J. R., "Can the Perclose Suture Mediated Closure System be Used Sately in Patients Undergoing Diagnostic and Therapeutic Angiography for Chronic Lower Extremity Ischemia?," Southern Association for Vascular Surgery, Tucson, AZ. (January 15, 2003 - January 18, 2003).

Carsten III, C. G., Patel, A. P., Langan III, E. M., Taylor, S. M., Snyder, B. A., Cull, D. L., Youkey, J. R., Gray, B. H., "Has the Emergence of Endovascular Treatment for Aneurysmal and Occlusive Aortic Disease Increased the Complexity and Difficulty of of Open Aortic Operations?," The Southern Association for Vascular Surgery, Tucson, AZ. (January 15, 2003 - January 18, 2003).

Langan III, E. M., Patel, A. P., Taylor, S. M., Gray, B. H., Carsten III, C. G., Cull, D. L., Snyder, B. A., Stanbro, M. D., Youkey, J. R., Sullivan, T. M., "An Analysis of Standard Open and Endovascular Surgical Repair of Abdominal Aortic Aneurysms in Octogenarians," Southeastern Surgical Congress, Savannah, GA. (February 2003).

Carsten III, C. G., Bolton, W. D., Langan III, E. M., Puls, L. E., Taylor, S. M., Sullivan, T. M., Hunter, J. E., Cull, D. L., Snyder, B. A., Youkey, J. R., Gray, B. H., "Inferior Venacaval Filters as Pulmonary Embolism Prophylaxis in Women Undergoing Surgery for Pelvic Gynecological Malignancies," Annual Scientific Meeting, Southeastern Surgical Conference, Savannah, GA. (February 9, 2003 - February 11, 2003).

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Carsten III, C. G., Taylor, S. M., Cull, D. L., Langan, E. M., Snyder, B. A., Jackson, M. R., Youkey, J. R., Caldwell, R. A., "The Surgically Created Arteriovenous Fistula: A Forgotten Alternative to Venous Access," Southeastern Surgical Congress, Atlanta, GA. (January 31, 2004 - February 3, 2004).

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Carsten, C., "Advances in Arterial Trauma Therapy," 8th Annual Southeastern Trauma Symposium, Columbia, SC. (November 4, 2005).

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Langan III, E. M., Hartley, M. C., Taylor, S. M., Johnson, B., Androes, M. P., Carsten III, C. G., "Clinical outcome Trends of Type B Aortic Dissections in South Carolina," 34th Annual Meeting, Southern Association for Vascular Surgery, Paradise Island, Bahamas. (January 20, 2010 - January 23, 2010).

Carsten, C., "Vascular Patients with Poor Vasculature?," Vascular Access Options and Care, Foothills Association for Vascular Access, Asheville, NC. (February 10, 2011).

Carsten III, C. G., Bordoli, S. J., Cull, D. L., Johnson, B. L., Taylor, S. M., "Radiation Safety Education in Vascular Surgery Training: An Unmet Requirement," Southern Association for Vascular Surgery, Paradise Island, Bahamas. (January 23, 2013 - January 26, 2013).

Carsten, C. G., Traxler, L. B., Johnson, B. L., Nichols, D., Merchant, P., "Central Lines Versus PICC's: Are Surgeons Abandoning Central Line Placement?," Southeastern Surgical Congress, Jacksonville, FL. (February 9, 2013 - February 12, 2013).

Carsten III, C. G., Hudgins, J., Claudeanos, K. T., Cull, D. L., "Fistulas in Octogenarians: Is the Juice Worth the Squeeze?," Southern Association for Vascular Surgery, Palm Beach, FL. (January 15, 2014 - January 18, 2014).

Carsten, C., "Open Access Construction in the Obese Patient: A Practical Guide," Southern Association for Vascular Surgery, Palm Beach, FL. (January 15, 2014 - January 18, 2014).

Carsten III, C. G., Hudgins, J. A., Keahey, G. P., Ewing, J. A., Hale, A. L., Cull, D. L., "Nonhemodialysis Arteriovenous Fistulas for Permanent Venous Access: Reevaluation of an Old Idea," Southern Association for Vascular Surgery, Cancun, Mexico. (January 20, 2016 - January 23, 2016).

Carsten III, C. G., Gandhi, S. S., Blas, J. V., Lee, S., Eidt, J. F., "Nonoperative Management of Grade III Thoracic Aortic Injuries," Southern Association for Vascular Surgery, Cancun, Mexico. (January 20, 2016 - January 23, 2016).

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## **State**

Carsten, C., "The Routine Use of Implantable Subcutaneous Infusion Ports in Cancer Patients: A Complication and Cost Analysis," Chapter Meeting, South Carolina Chapter of the American College of Surgeons, Charleston, SC. (February 1995).

Carsten, C., "Claudication in the Young Adult: A Case Report and Review," Chapter Meeting, South Carolina Chapter of American College of Surgeons, Greenville, SC. (March 1996).

Carsten, C., "Prophylactic Vena Cava Interruption: Safety, Efficacy, and Long-term Follow-up," Chapter Meeting, South Carolina Chapter of American College of Surgeons, Columbia, SC. (March 1997).

Carsten, C., "Lower Extremity Revascularization Based on Intraoperative Angiography and Noninvasive Vascular Lab Exam," South Carolina Surgical Society Meeting, South Carolina Surgical Society, Sea Island, Georgia. (June 1997).

Langan, E. M., Carsten, C. G., Taylor, S. M., Snyder, B. A., "Lower Extremity Revascularization Based on Intra-operative Angiography and Non-Invasive Vascular Lab Exam," South Carolina Surgical Society, Sea Island, Georgia. (June 7, 1997).

Carsten, C., "The Fistula Elevation Procedure: A Valuable Technique for Maximizing Arteriovenous Fistula Utilization," South Carolina Surgical Society Meeting, South Carolina Surgical Society, Sea Island, Georgia. (July 13, 2001).

Carsten, C., "Carotid Angioplasty: A Vascular Surgeons Persepctive," Second Annual General Surgery Update, University of South Carolina School of Medicine, Columbia, SC. (June 6, 2002).

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Carsten, C., "Access & Closure for Infringuinal Procedures: Pearls and Pitfalls," 4th Annual Sanctuary of Endovascular Therapy, Kiawah Island, SC. (February 18, 2010 - February 20, 2010).

Carsten, C., "Advanced Endo Options: Is It Worth It?," The 5th Annual Sanctuary of Endovascular Therapy, Kiawah Island, SC. (February 18, 2010 - February 20, 2010).

Carsten, C., "Non-Dialysis AV Access-Who, When, and Why?," The 5th Annual Sanctuary of Endovascular Therapy, Kiawah Island, SC. (February 18, 2010 - February 20, 2010).

Carsten III, C. G., McGill, E. S., "Trauma Evaluation and Management: An Overview," 2nd Annual Spring Fling Educational Workshop, South Carolina State of Assembly of Surgical Technologists, Greenville, SC. (April 5, 2013).

Carsten, C., "The AV Fistula: An Alternative to the Port," Annual Meeting, Hemophilia of South Carolina Organization. (June 6, 2014 - June 7, 2014).

Carsten, C., "The AV Fistula: An Alternative to the Port," Annual Meeting, Hemophilia of South Carolina Organization, Hemophilia of South Carolina Organization, Greenville, SC. (June 6, 2018).

Carsten, C., "AV Fistulas for Apheresis," SC Vascular Surgical Society Annual Meeting, SC Vascular Surgical Society, Myrtle Beach, SC. (July 13, 2018).

Powell, B. C., Carsten, C., "Drug Coated Balloon Utilization," SC Vascular Surgical Society Annual Meeting, SC Vascular Surgical Society, Myrtle Beach, SC. (July 13, 2018).

### **Local**

Carsten, C., "Pathophysiology of Cerebrovascular Disease," Vascular Symposium, Greenville, SC. (June 1996).

Langan, E. M., Carsten, C. G., Taylor, S. M., Snyder, B. A., "Lower Extremity Revascularization Based on Intra-operative Angiography and Non-Invasive Vascular Lab Exam," 5th Annual J.D. Ashmore Lectureship, Greenville, SC. (June 20, 1997).

Carsten, C., Youkey, J. R., "Aorto-iliac Occlusive Disease: the Aorto-bifemoral Bypass and the Horse and Buggy," Fifth Annual Vascular Symposium, Greenville Memorial Hospital, Greenville, SC. (November 9, 2001).

Carsten, C., "Carotid Artery Disease: Symptoms, Diagnosis, and Treatment Options," 6th Annual Vascular Symposium, Greenville Memorial Medical Center, Greenville, SC. (October 11, 2002).

Carsten, C., "Vascular Disease and Surgery," Clemson University, Clemson, SC. (April 14, 2004).

Carsten, C., "Imaging-Carotids," Second Annual Cardiovascular Symposium, GHS, Greenville, SC. (February 17, 2005 - February 18, 2005).

Carsten, C., "New Age Vascular Imaging," Vascular Disease for the Primary Care Physician, Greenville, SC. (March 14, 2008).

Carsten, C., "What Imaging/When? NIVL-CTA/MRA-Angiography," 2nd Annual Vascular Disease Seminar for the Primary Care Physician, Greenville Memorial Hospital, Greenville, SC. (March 13, 2009).

Carsten, C., "Is Surveillance of Peripheral Arteries for Aneurysm Development Necessary for Patients with Abdominal Aortic Aneurysms," 19th Annual JD Ashmore Lectureship, Greenville, SC. (June 17, 2011).

Carsten, C., "Ultrasound Evaluation of AAA and EVAR," Vascular Symposium, GHS, Greenville, SC. (August 6, 2011).

Carsten, C., "Alternative uses for AV Fistulas," Upstate Infusion Nurses Society, Greenville, SC. (January 12, 2012).

Carsten, C., "Abdominal Duplex Examination for Follow-up of AAA Stent Graft Exclusions," Cardiovascular Symposium, Greenville Hospital system, Greenville, SC. (October 9, 2013).

Carsten, C., "Essential Duplex Ultrasound Capabilities to Identify and Treat Venous Disorders," Cardiovascular Symposium, Greenville Hospital system, Greenville, SC. (October 9, 2013).

Carsten, C., "Hemodialysis Access Trouble Shooting," Greenville County EMS, Greenville, SC. (May 6, 2014).

Carsten, C., "Temporal Arteritis," GHS Vascular Testing Symposium, Greenville Health System, Greenville, SC. (March 24, 2018).

## **COMMITTEE SERVICE**

### **University Service**

2016-Present      Committee Member, Early Assurance Committee, USCSOM - Greenville  
07/2019            Committee Member, Thesis Committee, Clemson University  
                          PhD defense for Saketh Karamched

### **Prisma Health Service**

2006-2014        Committee Member, Pharmacy and Therapeutics Committee  
2010-Present    Committee Member, Graduate Medical Education Committee  
2011-Present    Committee Member, USCSOMG Admissions Committee  
2012-Present    Committee Member, Radiation Safety Committee  
2014-Present    Committee Member, OR Ops Subcommittee

### **Professional Service**

2004-2010        Secretary/Treasurer, South Carolina Vascular Surgical Society, SC

2010-2015        Exam Development Task Force Representative, American Registry for diagnostic  
                          Medical Sonography

2011-2014        Vascular Technology Exam Development Task Force Chair and Representative,  
                          American Registry for diagnostic Medical Sonography

2012                Associate Examiner, American Board of Surgery

2012-2013        Officer, President/Elect/Past, South Carolina Vascular Surgical Society, SC

2012-2016        Instructor, ATLS

2013-2015        Item Writer, Vascular Education Self-Assessment Plan

2013-Present     Instructor, ASSET

2014                Associate Examiner, American Board of Surgery

2015-2016        Item Review Working Group Lead, American Registry for diagnostic Medical  
                          Sonography

02/2015-Present   Peer reviewer, UpToDate  
                          Thrombosis associated with chronic hemodialysis vascular catheters

2016-Present     Advanced Surgical Skills for Exposure in Trauma Instructor, American College of  
                          Surgeons

2016-Present     Radiation Question Writer, Vascular Education Self-Assessment Plan

04/2017-04/2020   Committee Member, APDVS Issues Committee

03/2019-06/2019   VESAP 5 question writer, Society for Vascular Surgery  
                          Question writer for VESAP 5 Radiation Safety Module Outline

## COMMUNITY SERVICE ACTIVITIES

2007-2010

Session Member, Westminster Presbyterian Church

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19. Patel AP, Langan, 3rd EM, Taylor S, Gray BH, Carsten C, Cull D, et al. An analysis of standard open and endovascular surgical repair of abdominal aortic aneurysms in octogenarians. *The American surgeon*. 2003 Sep 1;69(9):744–7; discussion 748. PMID: 14509320
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