Dear Colleague,

As President of the Southern Thoracic Surgical Association, it is my great pleasure to extend this invitation to you to attend the STSA 65th Annual Meeting, November 7-10, 2018 at the Omni Amelia Island Plantation Resort in Amelia Island, FL. Please take a few minutes to review the educational listings in this Advance Program. We are maintaining the same, highly acclaimed schedule as 2017, with one important addition. Wednesday night programming has been reincorporated to the schedule for 2018. Check in to the hotel, come as you are, and attend the first half of the STSA Postgraduate Program featuring complex case presentations and interactive discussions from STSA experts’ reflection on “I Wish I Could Have Done That Case Over.” The program will begin with a welcome reception and informal dinner featuring wings, pizza, and refreshments. The STSA Program Committee carefully considered topic suggestions received from last year’s attendees when creating the 2018 program. Changes to this year’s schedule reflect suggestions direct from our membership and aim to better address the educational needs of our STSA members.

Thursday morning, Nov. 8, will kick off with the Ethics Debate and the Basic Science Forum, followed by General Sessions featuring outstanding paper and video presentations and a lecture by special guest, Coach Lou Holtz. You will not want to miss this engaging presentation from a sports legend! Concurrent subspecialty breakouts on Friday, Nov. 9 will feature cardiac, thoracic, congenital, and surgical transcatheter intervention topics. All sessions have been scheduled to allow for thorough and thoughtful discussion.

We are also pleased to announce that due to the overwhelming submission of video abstracts received, the STSA Program Committee determined it would be beneficial to include the additional highly favored videos as supplemental education during the meeting’s break times. Be sure to review the program for details and visit the Exhibit Hall for these interactive video presentations.

The meeting will conclude with the second half of the Postgraduate Program to be held Saturday morning, Nov. 10. The session titled, “The Past, Present and Future,” will feature invited guest, Dr. Wayne Sotile, discussing the topic of Physician Resilience. Breakfast will be served and spouses are encouraged to attend. The Postgraduate Program will feature another living legend in cardiothoracic surgery. I am thrilled that this year’s spotlight will be on Dr. Alec Patterson from Washington University School of Medicine. The program will close with a special presentation from Dr. David Shahian who will review the issues surrounding surgeon-specific performance in a talk titled “Surgeon Performance Metrics: Why, What, and When?”

In addition to the educational sessions, don’t miss this year’s social events. The All Attendee Luncheon will be held on Thursday, Nov. 8, and medical students and residents are encouraged to attend the Residents Reception later that evening. Immediately following is the President’s Mixer, where all attendees are welcome to attend and catch up with their colleagues. On Friday, Nov. 9, I invite you to join me at the Dinner Gala which will feature evening music from a local band, this year’s award presentations, and plenty of time to socialize with fellow members and their families. Although black tie is always in fashion, you are welcome to wear cocktail attire.

Please bring your family and enjoy the amenities and activities offered at the beautiful Omni Amelia Island Plantation Resort. It’s the perfect setting for STSA members, family and friends. The luxury resort is nestled on 50 acres at the top of a barrier island just off the Northeast Florida coast offering unparalleled views of the Atlantic Ocean in every room, accompanied by a multi-tiered pool deck, shopping, restaurants and a number of kid-friendly activities.

Make plans now to join your STSA colleagues this November. You can register at www.stsa.org. I look forward to seeing you at the Omni Amelia Island!

Sincerely,

Kevin D. Accola, MD
STSA President

Special thanks to the members of the Program Committee, the and Postgraduate Committee, and all abstract reviewers who volunteered their time, energy, and expertise in developing the STSA 65th Annual Meeting program.

REGISTER TODAY AT WWW.STSA.ORG
As a sponsor of continuing medical education accredited by the Accreditation Council for Continuing Medical Education (ACCME), The Society of Thoracic Surgeons requires that any individual who is in a position to control the content of an educational activity must disclose all relationships with commercial interests (including known relationships of his or her immediate family, department, and partners). The ACCME defines a commercial interest as “any entity producing, marketing, reselling, or distributing health care goods or services consumed by, or used on, patients. The ACCME does not consider providers of clinical service directly to patients to be commercial interests.”

The question of whether a disclosed conflict situation could represent undue influence on the educational activity by a commercial interest or whether the disclosed information is sufficient to consider an abstract, presentation, or other educational enduring material to represent potentially biased information must be resolved prior to an individual’s involvement in STS educational programming.

Required disclosures include (1) a financial interest of any amount (e.g., through ownership of stock, stock options, or bonds) (2) the receipt of any amount of cash, goods or services within the current 12-month period (e.g., through research grants, employment, consulting fees, royalties, travel, or gifts) or (3) a nonremunerative position of influence (e.g., as officer, director, trustee or public spokesperson). EXCLUDED from this disclosure requirement are blind trusts or other passive investments such as mutual funds. In the case of a financial or other relationship disclosure, the company, product/service, and specific nature of the relationship must be noted. Disclosure is mandatory for any person involved in the planning, management, presentation, and/or evaluation of STS educational activities.

Failure to disclose all relationships with commercial interests disqualifies the individual from being a planning committee member, a teacher, or an author of educational materials, and this individual cannot have any responsibility for the development, management, presentation, or evaluation of STS educational activities. This requirement is intended neither to imply any impropriety of such relationships nor to prejudice any individual planner, presenter or author. It is merely to identify such relationships through full disclosure, and to allow STS to assess and resolve potential influences on the educational activity prior to the planning and implementation of an educational activity. If no relationships with commercial interests exist, the individual must indicate this on the disclosure form.

Additionally, the fact that the presentation, paper, or other educational product describes (a) the use of a device, product, or drug that is not FDA approved or (b) an off-label use of an approved device, product, or drug must also be disclosed. This requirement has been adopted in response to FDA policy and case law involving medical societies, and is not intended to prohibit or inhibit independent presentation or discussion regarding the uses of devices, products, and drugs as described in (a) or (b) above.

For live presentations, all disclosures must be stated orally and on a slide at the beginning of the presentation and will be noted in published material related to the activity. Slides, handouts, and other materials utilized as part of an educational activity cannot contain any advertising, trade names or a product group message. Speakers are required to disclose that they have nothing to disclose if this is the case.

Amended by the STS Executive Committee: April 11, 2012

**SCHEDULE**

**WEDNESDAY, NOVEMBER 7, 2018**

**STSA POSTGRADUATE PROGRAM**

CME Credits Available: 2.00

6:00 pm – 7:00 pm

WELCOME RECEPTION

Join us Wednesday evening for the meeting’s official kick-off with an informal session with “wings n’ things.” Many of you will have just arrived to the resort; drop your bags, come as you are and participate in a casual session titled “I Wish I Could Have Done That Case Over.” Wings, pizza and refreshments will be served.

8:00 pm – 8:30 pm
Thoracic: Complex Lung Resections: Does Approach Matter?
*M. Blair Marshall
MedStar Georgetown University Hospital, Washington, DC

*Daniela Molena
Memorial Sloan Kettering Cancer Center, New York, NY

8:30 pm – 9:00 pm
TAVR: Sometimes the Simple Becomes Complicated... Lessons Learned and Pitfalls to Avoid
*Vinod H. Thourani
MedStar Heart Institute/Washington Hospital Center, Washington, DC

*Michael J. Reardon
Methodist DeBakey Heart & Vascular Center, Houston, TX

**GENERAL SESSION**

I Wish I Could Have Done That Case Over: Complex Case Presentations and Interactive Discussions
Moderators: *Kirk R. Kanter and *Daniel L. Miller

7:00 pm – 7:30 pm
Adult Cardiac: Complicated Endocarditis: Timing, Approaches and Creative Techniques
*Bradley Leshnower
Emory University, Atlanta, GA

*Tomas D. Martin
Florida Hospital, Orlando, FL

7:30 pm – 8:00 pm
Thoracic: Management of Esophageal Perforation: Stent or Primary Repair?
*Richard K. Freeman
St. Vincent’s Health and Hospital System, Indianapolis, IN

*Allan Pickens
Emory University Hospital Midtown, Atlanta, GA

**STSA 65th ANNUAL MEETING ADVANCE PROGRAM | 3**
THURSDAY, NOVEMBER 8, 2018

10:00 am - 12:00 pm
EXHIBITS OPEN

7:00 am - 7:50 am
ETHICS DEBATE
CME Credits Available: 1.0
Moderator: *Robert M. Sade
7:00 am - 7:05 am
Case Introduction: The Devoted Grandma: Social Indication for TAVR

7:05 am - 7:15 am
Pro: *Andrea J. Carpenter
University of Texas Health Science Center, San Antonio, TX
7:15 am - 7:25 am
Con: William M. Novick
University of Tennessee, Collierville, TN
7:25 am - 7:30 am
Pro Rebuttal: *Andrea J. Carpenter
University of Texas Health Science Center, San Antonio, TX
7:30 am - 7:35 am
Con Rebuttal: William M. Novick
University of Tennessee, Collierville, TN
7:35 am - 7:50 am
Discussion

7:00 am - 7:50 am
BASIC SCIENCE FORUM
CME Credits Available: 1.0
Moderators: *David R. Jones and *Scott A. LeMaire
7:00 am - 7:08 am
1B. A 40-Year Analysis of NIH-Funded Cardiac Transplantation Research: Surgeons Lead the Way
University of Virginia, Charlottesville, VA
7:08 am - 7:16 am
2B. VA ECMO Exacerbates LV Distension and Promotes Lung Edema While a LVAD Unloads LV in Severe Cardiogenic Shock: A Numerical Simulation Study
Po-Lin Hsu1, Yuxin Zhu1, Dongfang Wang1, Cherry Ballard-Croft1, Michael Sekela1, *Joseph B. Zwischesken2,3
1Shaozou University, Suzhou, China; 2University of Kentucky, Lexington, KY
7:16 am - 7:24 am
3B. High Inflammatory Markers in Peripheral Blood are Associated With Recurrence in Patients With pT1 Non-Small Cell Lung Cancer Undergoing Surgical Resection
Anita Sulibhavi1, Jesse Schacht1, Benedict Daly1, Hiran C. Fernando1, *Virginia R. Little1, Kei Suzuki1
1Boston University School of Medicine, Boston, MA; 2Boston Medical Center, Boston, MA; 3Inova Fairfax Hospital, Fairfax, VA

7:24 am - 7:32 am
4B. 3D Printed Cardiac Path Plug Augments Angiogenesis and Reduces Scar Tissue Formation in Vivo
Enoch Yeung, Fukunishi Takumia, Yang Bai, Dajhida Bedja, Isaree Pitaktong, Gunnar Mattson, Cecilia Lui, Chi Siang Ong, Hiroshi Matsushita, Taka Inoue, Narutoshi Hibino
Johns Hopkins University, Baltimore, MD
7:32 am - 7:40 am
5B. FDG-PET SUVm Does Not Correlate With Glucose Metabolism in Non-Small Cell Lung Cancer
*Kemp H. Kernstine, Brandon Faubert, Christopher Hensley, Ling Cai, Jose Torreala, Dwight Oliver, Robert E. Lenkinski, Craig R. Malloy, Ralph J. Deberardinis
UT Southwestern Medical Center, Dallas, TX
7:40 am - 7:48 am
6B. Cardiac Biomarkers sST-2 and NT-proBNP Predict Long-Term Survival After Cardiac Surgery
Nivedita Ramkumar1, *Jeffrey P. Jacobs2, Richard B. Berman1, Devin M. Parker1, Todd MacKenzie1, Donald S. Liskosky1, Anthony DiScipio1, Jeremiah Brown1
1The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH; 2Johns Hopkins All Children’s Hospital, St. Petersburg, FL; 3University of Michigan, Ann Arbor, MI
7:48 am - 8:00 am
DISCUSSION

7:00 am - 10:30 am
FIRST SCIENTIFIC SESSION
CME Credits Available: 2.5
Moderators: *Kevin D. Accola and *Daniel L. Miller
8:00 am - 8:15 am
1. Procedural Volume Does Not Correlate With Publicly Reported Outcomes in Adult Cardiac Operations
University of Pittsburgh Medical Center, Pittsburgh, PA
8:15 am - 8:30 am
2V. Unicuspid Aortic Valve Repair Using Geometric Ring Annuloplasty
*John V. Contie1, S. Michael Roberts2, *J.S. Rankin1, *Vinay Badhwar1
1Western Virginia University, Morgantown, WV; 2Penn State University, Hershey, PA
8:30 am - 8:45 am
3. Minimally Invasive Esophagectomy is Associated With Superior Long-Term Survival Compared to Open Esophagectomy in a Propensity Matched Analysis of the National Cancer Database
*Mickey Ising, Jaimin R. Trivedi, Robert C. Martin, Prejesh Philips, Victor van Berkel, Matthew Fox
University of Louisville, Louisville, KY

8:45 am - 9:00 am
4. Impact of Microbiological Organism Type on Surgically Managed Endocarditis
1WakeMed Health and Hospitals, Raleigh, NC; 2Duke University, Durham, NC; 3Rex/UNC Hospital, Raleigh, NC; University of Maryland School of Medicine, Baltimore, MD
5:00 am - 5:15 am
1Johns Hopkins University School of Medicine, Baltimore, MD; 2Johns Hopkins All Children’s Hospital, St. Petersburg, Tampa and Orlando, FL; 3Duke Clinical Research Institute, Duke University, Durham, NC; 4University of Louisville, Louisville, KY; 5Norton Children’s Hospital, Louisville, KY; 6The Children’s Hospital of Philadelphia, Philadelphia, PA; 7University of Southern California, Los Angeles, CA; 8Children’s National Health System, Washington, DC; 9University of Michigan, Ann Arbor, MI; 10Alfred I. duPont Hospital for Children, Wilmington, DE; 11University of Missouri-Kansas City School of Medicine, Kansas City, MO; 12The Hospital for Sick Children, Toronto, Ontario, Canada; 13Harvard University, Boston, MA

9:15 am - 9:30 am
6. Outcomes of Repair of Kommerell Diverticulum
Cleveland Clinic, Cleveland, OH
9:30 am - 9:45 am
7. The Efficacy of Re-Resection is Superior to Non-Surgery for Recurrence/Secondary Primary Lung Cancer After Initial Curative Treatment
Haitao Zhou, Xiaozheng Kang, Liang Dai, Wanpu Yan, Ke-Neng Chen
Peking University Cancer Hospital, Beijing, China
9:45 am - 10:00 am
8. Cardiac Surgery Trainees as “Skin-to-Skin” Operating Surgeons: Midterm Outcomes
Massachusetts General Hospital, Boston, MA

*Indicates STSA Member  V indicates STSA/CTSNet surgical video
10:00 am - 10:15 am
9. Progress in Heart Transplantation for Pediatric and Congenital Cardiac Disease: A Comparison of Two Eras Over 22 Years and 179 Transplants at a Single Institution
Genevieve C. Tuite1,2, Alfred Asante-Korang1,3, Sharon R. Ghazarian1, Bethany Wisotzkey1, Shawn M. Shah1,4, Gary Stapleton1, Jamie Decker1, Carrie Herbert1,2, Vyasa Kartha1, Plato Alexander1, Jennifer Carapellucci1, *Diane Krasnopero1, Jade Hanson1, Neil Goldenberg1,3, *Constantine Mavroudis1,3, Tom R. Karl1,3, *James A. Quintessenza1, *Jeffrey P. Jacobs1,3
1Johns Hopkins All Children’s Hospital, St. Petersburg, FL; 2University of Notre Dame, Notre Dame, IN; 3Johns Hopkins University, Baltimore, MD; 4University of Virginia, Charlottesville, VA

10:15 am - 10:30 am
10. Improved Mortality Associated With the Use of Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation
University of Colorado Denver, Aurora, CO

10:30 am - 10:45 am
BREAK – VISIT EXHIBITS

10:45 am - 11:20 am
President’s Invited Lecturer – Reflections on Leadership
Coach Lou Holtz

11:20 am - 12:00 pm
Presidential Address - Reflection on a Career in Cardiothoracic Surgery: Maintaining Humanistic Values in a Changing Environment
*Kevin D. Accola
Cardiovascular Surgical PA, Orlando, FL

12:00 pm
ALL ATTENDEE LUNCHEON
Dessert served in the Exhibit Hall from 1:30 pm - 2:00 pm

1:30 pm - 2:00 pm
BREAK – VISIT EXHIBITS

2:00 pm - 3:00 pm
SECOND SCIENTIFIC SESSION
CME Credits Available: 1.0
Moderators: *Faisal G. Bakaeen and *Elizabeth A. David

2:00 pm - 2:15 pm
11. 30 Day Surgical Readmission Risk Score in a Statewide Database: Validation of a New Multivariate Risk Model
1Inova Heart and Vascular Institute, Falls Church, VA; 2University of Virginia, Charlottesville, VA; 3Va Commonwealth University, Richmond, VA; 4East Carolina Heart Institute, Greenville, NC

2:15 pm - 2:30 pm
12. Surveillance Patterns After Treatment of Non-Small Cell Lung Cancer With Lobectomy and Stereotactic Body Radiotherapy
University of Texas, MD Anderson Cancer Center, Houston, TX

2:30 pm - 2:45 pm
13. Norwood Palliation in High Risk Neonates With Hypoplastic Left Heart Syndrome
*Vincent K. Tam, Lisa Roten, Eldad Erez, Vinod Sebastian, Hisashi Nikaidoh, *Phil Burch, James Kuo
Cook Children’s Medical Center, Fort Worth, TX

2:45 pm - 3:00 pm
14V. Rheumatic Double Valve Repair Using Two Remodeling Annuloplasty Rings
*Richard S. Downey2, *J. S. Rankin1, Lawrence M. Wei1, *Vinay Badhwar1
1West Virginia University, Morgantown, WV; 2University of Michigan, Muskegon, MI

3:00 pm - 3:30 pm
BREAK – VISIT EXHIBITS

3:10 pm - 3:23 pm
NEW - VIDEO ABSTRACT PRESENTATION IN EXHIBIT HALL
Break-V1. VATS Resection for Extralobar Pulmonary Sequestration With a Large Aberrant Artery After Endoluminal Stenting and Plug Occlusion
Gopal Singh, Bianca Bromberger, Richard Green, *Joshua R. Sonett
New York Presbyterian/ Columbia University, New York, NY

*Indicates STSA Member  V indicates STSA/CTSNet surgical video
THURSDAY, NOVEMBER 8, 2018 (CONTINUED)

3:30 pm - 5:30 pm
THIRD SCIENTIFIC SESSION

CME Credits Available: 2.0
Moderators: *M. Blair Marshall and *Vinod H. Thourani

3:30 pm - 3:45 pm
15. Acute Type A Dissection Repair: The Role of Individual Surgeon Experience Versus High Volume Center
University of Texas Health Science Center at Houston, Houston, TX

3:45 pm - 4:00 pm
Gopal Singh, Patricia Jellen, Maureen Carrol, Daniel Lambert, John Vandenberge, Byron Thomashow, *Joshua R. Sonett, Mark Ginsburg
New York Presbyterian/Columbia University, New York, NY

4:00 pm - 4:15 pm
17. Readmission Following Pediatric Cardiopulmonary Surgery: An Analysis of The Society of Thoracic Surgeons Congenital Heart Surgery Database
*Brian Kogon1, Matthew E. Oster2, Wallace Amelia3, Chiswell Karen1, Hill Kevin1, Morgan L. Cox1, *Jeffrey P. Jacobs2, Sara Pasquali1, Tara Karamlou2, Marshall Jacobs1
1University of Mississippi Medical Center, Jackson, MS; 2Duke University, Durham, NC; 3Johns Hopkins University School of Medicine, Baltimore, MD; 4University of Michigan, Ann Arbor, MI; 5Mayo Clinic, Scottsdale, AZ; 6Children’s Healthcare of Atlanta/Emory University, Atlanta, GA

4:15 pm - 4:30 pm
18. Current Outcomes With Isolated Surgical Mitral Valve Replacement: A Benchmark for Transcatheter Mitral Valve Replacement Technologies
1University of Virginia, Charlottesville, VA; 2Virginia Commonwealth University, Richmond, VA; 3Inova Fairfax Hospital, Falls Church, VA; 4UCSIQ, Richmond, VA

4:30 pm - 4:45 pm
Chi-fu Jeffrey Yang2, Nicholas R. Mayne1, Adaora P. Nwosu1, Vignesh Raman1, *Thomas A. D’Amico1, *Mark Berry2
1Duke University Medical Center, Durham, NC; 2Stanford University, Stanford, CA

4:45 pm - 5:00 pm
20. Vascular Rings in Adults: Outcome of Surgical Management
Mayo Clinic, Rochester, MN

4:00 pm - 5:15 pm
21. CT-Guided Percutaneous Radiotracer Localization and Resection of Indistinct or Small Pulmonary Lesions
Domenico Galetta, Lorenzo Spaggiari
European Institute of Oncology, Milan, Italy

5:15 pm - 5:30 pm
22. Recent Antiplatelet Therapy Does Not Affect Short Term Outcomes Following Non-CABG Cardiac Surgery
Cecilia Lui, Xun Zhou, Alejandro Suarez-Pierre, *Charles D. Fraser, *Kent J. Zehr, Chun (Dan) W. Choi, *Ahmet Kilic
Johns Hopkins Hospital, Baltimore, MD

5:30 pm - 6:30 pm
2018 CARDIOTHORACIC SURGERY JEOPARDY COMPETITION
Rounds 1 & 2

6:00 pm - 7:00 pm
RESIDENTS RECEPTION

7:00 pm - 9:00 pm
PRESIDENT’S MIXER

*Indicates STSA Member; V indicates STSA/CNSNet surgical video
Friday, November 9, 2018

7:45 am - 12:00 pm
12:45 pm - 3:30 pm

Exhibits Open

7:00 am - 8:30 am

Fourth Scientific Session A
Simultaneous Adult Cardiac, Thoracic, and Congenital Breakout Sessions
CME Credits Available: 1.5

Adult Cardiac Breakout
Moderators: *Andrea J. Carpenter and *Scott A. LeMaire

7:00 am - 7:15 am
23. Does Mitral Valve Repair Restore Normal Life Expectancy?
Tessy Watt1, Shannon Murray1, Alexander Wsiewniak2, David A. Burn3, *Steven Bolling1
1University of Michigan, Ann Arbor, MI; 2University of Toledo, Toledo, OH; 3Quinnipiac University, Hamden, CT

7:15 am - 7:30 am
24. Clinical Outcomes of Surgical Unroofing of Myocardial Bridging in Symptomatic Patients
Mayo Clinic, Rochester, MN

7:30 am - 7:45 am
25. Rate of Aortic Annular Enlargement Increasing in the Current TAVR Era
1University of Virginia, Charlottesville, VA; 2East Carolina Heart Institute, Greenville, NC; 3Virginia Commonwealth University, Richmond, VA; 4Duke University Medical Center, Durham, NC

7:45 am - 8:00 am
26. Microplegia is a Safe, Effective, and Economical Alternative to Modified Bucckberg Cardioplegia for Complex Cardiac Operations: A Propensity Matched Study
Robert Borden, Clifford Ball, Pat Grady, Andrew Toth, Cheryl Lober, *Faisal G. Bakaeen, Michael Z. Tong, Eugene Blackstone, Eric E. Roselli
Cleveland Clinic, Cleveland, OH

8:00 am - 8:15 am
27. Less-Invasive Aortic Valve Replacement: Trends and Outcomes from The Society of Thoracic Surgeons Adult Cardiac Surgery Database
Mehrdad Ghoreishi1, Raveendra Morchi2, Malek Massad3, Morgan L. Cox1, Samantha Durgam1, Maria Grau-Sepulveda2, Aditya Mantha2, Chetan Pasricha1, Luis Vargas1, *Alessio Pigazzii1, *Barley P. Griffith1, *Jeffrey P. Jacobs3, *Vinod H. Thourani1, *Vinay Mehaffey1, Eric J. Charles1, Mohammed Quader3, *Indicates STSA Member, V indicates STSA/CTSNet surgical video
1University of Maryland School of Medicine, Baltimore, MD; 2Division of Cardiac Surgery, UC Irvine Medical Center, Irvine, CA; 3Division of Cardiac Surgery, University of Illinois, Chicago, IL; 4Cardiovascular Institute, New York, NY; 5Division of Cardiac Surgery, Cleveland Clinic, Cleveland, OH; 6Medstar Heart Institute/Washington Hospital Center, Washington, DC; 7: West Virginia University Heart and Vascular Institute, Morgantown, WV

8:15 am - 8:30 am
28. Apical Myectomy for Nonobstructive Hypertrophic Cardiomyopathy
Anita Nguyen, *Hartzell Schaff
Mayo Clinic, Rochester, MN

8:40 am - 8:53 am
29. Robotic-Assisted First Rib Resection: A Single Center Experience With a Novel Surgical Approach
Stevan S. Pupovac1, Paul Lee1, Richard Lazarro2, David Zeltsman3, Julissia Jurado1, Kevin Hyman1, Vijay Singh1
1Northwell Health, Astoria, NY; 2Lenox Hill Hospital, New York, NY

Session C

8:40 am - 9:00 am
30. Impact of Positive Margins and Adjuvant Radiation on Survival After Resection of Tracheal Adenoid Cystic Carcinoma
Chi-fu Jeffrey Yang1, Shivani Shah2, Divya Ramakrishnan1, *Thomas A. D’Amico3, *Mark Berry4
1Stanford University, Stanford, CA; 2Lenox Hill Hospital, New York, NY

31. Dehydrated Human Amnion/Chorion Membrane (Placenta) Reduces Anastomotic Leaks After Esophagectomy
1WellStar Health System, Marietta, GA; 2CTCA, Newnan, GA

32. Proficiency of Robotic Lobectomy Based on Prior Surgical Technique in The Society of Thoracic Surgeons General Thoracic Database
Andrew F. Feczko1, Hongwei Wang2, Katherine Nishimura2, *Alexander S. Farivar1, *Aden J. Bograd1, Chris Vallières3, Ralph W. Aye1, Brian E. Louie3
1University of Virginia, Charlottesville, VA; 2Virginia Commonwealth University, Richmond, VA; 3University of Alabama, Birmingham, AL

33. Technique and Outcomes of Implementing Endobronchial and Intravenous Indocyanine Green for Segmentation
Travis C. Geraci, Omar Aljuboori, *Robert J. Cerfolio
New York University, New York, NY

34. Robotic Assisted Retrosternal Thyroidectomy
Emory University, Atlanta, GA

8:40 am - 8:53 am
NEW - VIDEO ABSTRACT PRESENTATION IN HALL B

Break-V2. Early Migration of a Self-expanding Transcatheter Aortic Valve Prosthesis Causing Coronary Occlusion: A Practical Technique for Surgical Exploration
Jordan P. Bloom, Michael Kwon, George Tolis
Massachusetts General Hospital, Boston, MA

9:00 am - 10:00 am
Fourth Scientific Session B
Simultaneous Adult Cardiac, Thoracic, and Congenital Breakout Sessions
CME Credits Available: 1.0

Adult Cardiac Breakout
Moderators: *Joseph S. Coselli and *Himanshu J. Patel

7:00 am - 7:15 am
35. Impact of SVR Trial on Single Ventricle Outcomes in HLHS at an Institutional Level Extends Beyond Use of Sano
Ram Kumar Subramanjan, W.H. Gray, Vaughn A. Starnes
University of Southern California, Los Angeles, CA

7:15 am - 7:30 am
36. Post-Norwood Outcomes Improved With Pulmonary Circulation Interventions
Lillian Kang, Nicholas C. DuPont, Jacob Miller, Melanie P. Subramanian, Vipul Sharma, *Pirooz Eghtesady
Washington University in St. Louis School of Medicine, St. Louis, MO

7:30 am - 7:45 am
37. Outcomes in Management of Neonatal Distal Aortic Arch Hypoplasia With Coarctation
*Joshua M. Rosenblum, Scott Gillespie, *Kirk R. Kanter
Emory University, Atlanta, GA

7:45 am - 8:00 am
38. Challenging Case: VSD Device Removal
*Brian Kogon, Craig Mathis
University of Mississippi Medical Center, Jackson, MS

8:00 am - 8:15 am
39. Mitral Valve Replacement in Infants Using a 15-mm Mechanical Valve
Ann & Robert H. Lurie Children’s Hospital of Chicago, Chicago, IL

8:15 am - 8:30 am
40. Mitral Valveuloplopysty and Mitral Valve Replacement in Infants Less Than One Year Old
1University of Texas Southwestern Medical Center, Dallas, TX

9:00 am - 10:00 am
Break-Exhibits

8:40 am - 8:53 am
NEW - VIDEO ABSTRACT PRESENTATION IN EXHIBIT HALL B

Break-V2. Early Migration of a Self-expanding Transcatheter Aortic Valve Prosthesis Causing Coronary Occlusion: A Practical Technique for Surgical Exploration
Jordan P. Bloom, Michael Kwon, George Tolis
Massachusetts General Hospital, Boston, MA

9:00 am - 10:00 am
Fourth Scientific Session B
Simultaneous Adult Cardiac, Thoracic, and Congenital Breakout Sessions
CME Credits Available: 1.0

Adult Cardiac Breakout
Moderators: *Joseph S. Coselli and *Himanshu J. Patel

*Indicates STSA Member, V indicates STSA/CTSNet surgical video
FRIDAY, NOVEMBER 9, 2018 (CONTINUED)

9:00 am - 9:15 am
41. Outcomes After Acute Type A Aortic Dissection in Patients With Prior Cardiac Surgery
1Virginia Cardiovascular Services Quality Initiative, Falls Church, VA; 2East Carolina Heart Institute, Charlotte, North Carolina, VA; 3Carnilion Clinic, Roanoke, VA; 4University of Virginia, Charlottesville, VA

9:15 am - 9:30 am
42V. The Buffalo Trunk Technique for Aortic Arch Reconstruction
University of Colorado, Aurora, CO

9:30 am - 9:45 am
43. The Addition of Aortic Root Procedures During Elective Arch Surgery Does Not Confer Added Morbidity nor Mortality
1Emory University, Atlanta, GA; 2University of South Wales, Australia; 3University of Essen, Essen, Germany; 4University of Hannover, Hannover, Germany; 5Kawasaki Aortic Center, Kawasaki, Japan; 6Indiana University School of Medicine, Indianapolis, IN; 7University of Parma, Parma, Italy

9:45 am - 10:00 am
44. Open Descending and Thoracoabdominal Repairs in Patients Younger Than 50 Years Old
McGovern Medical School at UTHSC, Houston, TX

THORACIC BREAKOUT
Moderators: *Melanie A. Edwards and *Mitchell J. Magee

9:00 am - 9:15 am
45. Optimal Surveillance for Node Negative Early Stage Esophageal Adenocarcinoma Following Esophagectomy
Tamar B. Nobel1, *Arianna Barbetta1, Meier Hsu1, Kay See Tan, Smita Sihag2, *Matthew Bott1, *James M. Isbell1, Manjit S. Bains2, *David R. Jones1, *Daniela Molena1
1Memorial Sloan Kettering Cancer Center, New York, NY; 2Mount Sinai Hospital, New York, NY

9:15 am - 9:30 am
46. Enhanced Recovery (ER) After Pulmonary Lobectomy - Eliminating Foley Catheters - Have We Gone Too Far?
Travis C. Geraci, Omar Aljuboori, *Robert J. Cerfolio
New York University, New York, NY

9:30 am - 9:45 am
47. Liposomal Bupivacaine Enhances the Pain-Control Benefits of Uniportal Thoracoscopic Lobectomy
Scott G. Louis, Chase King, Perel Barai, Nirmal Veeramachaneni
The University of Kansas Medical Center, Prairie Village, KS

9:45 am - 10:00 am
48V. Narcotic Free VATS Lobectomy
*Daniel L. Miller
WellStar Health System, Marietta, GA

CONGENITAL BREAKOUT
Moderators: *Kristine J. Gulsenlerian and *Constantine Mavroudis

9:00 am - 9:15 am
49. Double Aortic Arch With Kommerell Diverticulum
Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL

9:15 am - 9:30 am
50V. Surgical Treatment of Biventricular Outflow Tract Obstruction in Hypertrophic Cardiomyopathy
Ziyad M. Binsalama1, Rodrigo Zea-Vera1, Marco A. Rodriguez2, Susan W. Denfield3, *Jeffrey S. Heine4
1Texas Children's Hospital/Baylor College of Medicine, Houston, TX

9:30 am - 9:45 am
51. Factors Associated With Survival Following Extracorporeal Cardiopulmonary Resuscitation in Children
Emory University School of Medicine, Atlanta, GA

9:45 am - 10:00 am
52V. Correcting a Rare Congenital Anomaly in an Adult - A Case Report
John Duggan1, William J. Parker1, Samuel Richey2, *Charles B. Huddleston3, Junwei Reoma4
1Walter Reed National Military Medical Center, Bethesda, MD; 2Uniformed Services University of the Health Sciences, Bethesda, MD; 3St. Louis University School of Medicine, St. Louis, MO

10:00 am - 10:30 am
BREAK – VISIT EXHIBITS

10:10 am - 10:23 am
NEW – VIDEO ABSTRACT PRESENTATION IN EXHIBIT HALL
Break-V3. Giant Left Main Coronary Artery Aneurysm: Evaluation and Surgical Repair
Faisal G. Bakaeen1, Eric E. Roselli2, Gosta B. Pettersson1, Lars G. Svensson1
1Cleveland Clinic, Cleveland, OH

CME Credits Available: .5
Moderator: *William A. Melby

THORACIC BREAKOUT
Moderators: *Mara B. Antonoff and *Erin A. Gillaspie

11:00 am - 11:15 am
57. Postoperative Supplementary Chemotherapy Could Not Improve Survival of Advanced ESC Patients Underwent Surgery Following Neoadjuvant Chemotherapy
Ke-Neng Chen, Wanpu Yan, Peiliang Zhao, Hao Fu, Yao Lin, Zhongwu Li, Lian Dai, Yongbo Yang, Xiaozheng Kang
Peking University Cancer Hospital, Beijing, China
11:15 am - 11:30 am
58V. Laparoscopic Repair of Paracardial Herniation After Esophagectomy
Tamar B. Nobel, Arianna Barbetta, Smita Sihag,* Manjit S. Bains,* David R. Jones,* Daniela Molena
Memorial Sloan Kettering Cancer Center, New York, NY

11:30 am - 11:45 am
59. Predictors of Mediastinal Involvement After Neoadjuvant Chemoradiation in Adenocarcinoma of the Gastroesophageal Junction
University of Texas, MD Anderson Cancer Center, Houston, TX

CONGENITAL BREAKOUT
Moderator: *Kirk R. Kanter

11:00 am - 11:15 am
61. Comprehensive Valve Program in Patients With Congenital Heart Disease Undergoing Re-Entry Right Ventricular Outflow Tract Intervention in the Transcatheter Era: Review of Outcomes and Cost Analysis
Joshua Kalish1, Brendan Shafer1, Lauren Mathis3, Fahd Amin2,* Anastasios C. Polimenakos1
*Children’s Hospital of Georgia, Augusta, GA; 1Medical College of Georgia, Augusta, GA

11:15 am - 11:30 am
62. Role of Pulmonary Valve Z-Score in Valve-Sparing Surgical Repair of Tetralogy of Fallot - Systematic Review
*Raina Sinha, Vasu Gooty, Subin Jang
University of Minnesota, Minneapolis, MN

11:30 am - 11:45 am
63V. Novel Approach to Repair of Tetralogy of Fallot With Absent Pulmonary Valve Syndrome and Severe Airway Compression
Christina L. Greene,* Richard D. Mainwaring, Frank L. Hanley
Stanford University, Stanford, CA

11:45 am - 12:00 pm
64. Failure to Rescue in Humanitarian Congenital Cardiac Surgery
*Tyler J. Wallen1, Marcii Fults2, Randa Blenden3, Janet Nwaukoni1, Marilyn Le1, Nuha Farhia3, Rodrigo Soto2
1The University of Florida, Gainesville, FL; 2The International Children’s Heart Foundation, Memphis, TN; 3Philadelphia College of Osteopathic Medicine, Philadelphia, PA

SURGICAL TRANSCATHETER INTERVENTIONS BREAKOUT
Moderator: *Kevin D. Accola

11:00 am - 11:15 am
65. In-Hospital and 2-Year Outcomes Comparing TAVR Using Transcatheter, Transapical and Transaortic Access
Keith B. Allen1, Adnan K. Chhatriwalla1, David Cohen1, Sanjeev Aggarwal1, Zuhair Hawa1, John Saxoni1, John R. Davis1, Alex Pak1, Zafir Hawa1, Jim Mitchell1,* A. Michael Borkon1
*St. Luke’s Mid-America Heart Institute, Kansas City, MO; 1North Kansas City Hospital, North Kansas City, MO

11:15 am - 11:30 am
66. Prevalence of and Risk Factors for Permanent Pacemaker Implantation After Aortic Valve Replacement
Melissa Levack, Samir Kapadia,* Edward Soltesz, A. Marc Gillinov, Penny Houghtaling,* Eugene Blackstone, Lars G. Svensson, Stephanie L. Mick
Cleveland Clinic, Cleveland, OH

11:30 am - 11:45 am
67. Expanding TAVR Indications and the Impact Bicuspid Aortic Stenosis – An Outcomes Based Assessment
Kristen A. Sell-Dottin, Jaimin R. Trivedi,* Mark S. Slaughter
University of Louisville, Louisville, KY

12:00 pm - 1:00 pm
EARLY PRACTITIONERS LUNCHEON
Cardiothoracic surgeons in practice less than 10 years are invited to attend this luncheon to network with other early practitioners.

1:00 pm - 1:30 pm
BREAK – VISIT EXHIBITS

1:30 pm – 2:45 pm
GENERAL SESSION

CME Credits Available: 1.25

1:30 pm - 2:15 pm
MANAGING THE NEW ANTIICOAGULANTS: SURGICAL PERSPECTIVES AND STRATEGIES
Moderator: *Kevin D. Accola
Jerrold H. Levy, MD
Professor of Anesthesiology / Surgery, Co-Director of Cardiothoracic ICU
Duke University Hospital, Durham, NC

2:15 pm - 2:45 pm
HAROLD URSCHEL HISTORY LECTURESHIP
Moderator: *John W. Hammon
69. One Hundred and Counting: Dr. Dwight C. McGoone’s Enduring Legacy
Pouya Hemmati, Arman Arghami,* Joseph Dearani, Richard Daly,* Hartzell Schaff
Mayo Clinic, Rochester, MN

2:45 pm - 3:30 pm
BREAK – VISIT EXHIBITS

NEW - VIDEO ABSTRACT PRESENTATION IN EXHIBIT HALL
Break-V4. Novel Cannulation Technique for Temporary Right Ventricular Assist Device After LVAD Placement
William Z. Chancellor, Jared P. Beller, Emily A. Downs,* Leora Yarboro
University of Virginia, Charlottesville, VA

3:30 pm – 4:30 pm
FIFTH SCIENTIFIC SESSION

CME Credits Available: 1.0
Moderator: *Jeffrey P. Jacobs

3:30 pm - 3:45 pm
70. Novel Preoperative Huddle Email Improves Peroperative Efficiency
*Zachary M. Tyerman,* James H. Mehaffey,* Robert B. Hawkins,* Leora Yarboro,* Gorav Ailawadi,* Nicholas R. Teman
University of Virginia, Charlottesville, VA

3:45 pm – 4:00 pm
71. Lung Cancer Patient Perceptions of the Value of an Outreach Thoracic Surgical Clinic
Zoya Mohammad, Kyle G. Mitchell, David Nelson, Courtney Robb, Claudeine Jreissaty, Janet Tu,*Mara B. Antonoff
University of Texas, MD Anderson Cancer Center, Houston, TX

4:00 pm - 4:15 pm
72. Response to Neoadjuvant Treatment for Esophageal Cancer May Predict Increased Incidence of Brain Metastases Compared to Other Metastasis Sites
Tamar B. Nobel1,2, Nikita K. Dave3, Arianna Barbetta1, Smita Sihag1,* David R. Jones1,* Daniela Molena1
1Memorial Sloan Kettering Cancer Center, New York, NY; 2Mount Sinai Hospital, New York, NY; 3Rutgers New Jersey School of Medicine, Newark, NJ

4:15 pm - 4:30 pm
73. A 25-Year Experience With the Ross Procedure in Children
*Damien J. LaPar1,2, Eliana Al Haddad1,* Paul Chai1,2, David Kalta1,2, Amee M. Shah1,* Maria Thanjan1, Patrick Flynn1, Jan M. Quaegebeur1, Emile A. Bacha1
1Columbia University College of Physicians and Surgeons, New York, NY; 2Weill Cornell College of Medicine, New York, NY; 3New York Presbyterian Hospital, New York, NY

4:30 pm – 5:15 pm
STSA ANNUAL BUSINESS MEETING
Members Only

7:00 pm - 10:00 pm
DINNER GALA

7:00 pm – 8:00 pm
Reception

8:00 pm – 10:00 pm
Dinner Gala
SATURDAY, NOVEMBER 10, 2018

8:00 am - 10:00 am
STSA POSTGRADUATE BREAKFAST SESSION
Spouses and guests encouraged to attend.

CME Credits Available: 2.00

GENERAL SESSION
THE PAST, PRESENT, AND FUTURE
Moderators: *Kevin D. Accola, *Daniel L. Miller and *Jeffrey P. Jacobs

8:00 am - 8:45 am
Resilience and Burnout: Lessons from Dr. Wayne Sotile
Sotile Center for Resilience
Davidson, NC

8:45 am - 9:10 am
A Conversation with a Legend: *Dr. Alec Patterson
Washington University School of Medicine
St. Louis, MO

9:10 am – 9:20 am
Open Discussion

9:20 am – 9:50 am
Surgeon Performance Metrics: Why, What, and When?
David M. Shahian
Massachusetts General Hospital
Boston, MA

9:50 am – 10:00 am
Open Discussion

10:00 am
MEETING ADJOURNED
Omni Amelia Island Plantation Resort is nestled at the tip of a barrier island just off the Northeast Florida coast. Enjoy luxurious oceanfront accommodations, world-class resort pools, championship golf, full-service spa, endless dining options and family-friendly activities. Extend your stay and relax on the largest multi-tiered pool deck in northeast Florida, featuring an adults-only infinity edge pool, a 10,000-square-foot family-friendly pool, Splash Park water playground for the kids, two hot tubs and oversized fire pits.

A block of discounted hotel rooms is being held until Monday, October 8, 2018, provided rooms are still available in our room block. After this date, room reservations will be accepted based on availability only.

There are two ways to make reservations:
- **Online:** Visit [www.stsa.org/65thannual](http://www.stsa.org/65thannual) and click on the direct link to the Omni reservation website, where you can book your hotel reservation any time.
- **Telephone:** Contact the hotel reservations department at (904) 261-6161. To qualify for the special meeting rate, be sure to mention that you are attending the Southern Thoracic Surgical Association Annual Meeting.

**Room Rate and Cancellation Information:** The rate for a single or double room is $250/night plus tax, which includes a nightly resort fee covering unlimited high speed internet access, on-property transportation, unlimited use of the Health & Fitness Center, resort beach access, self-parking, local and toll-free calls, and in-room coffee and tea. One night’s deposit plus tax is required for each reservation. The deposit is refundable on reservations cancelled by 12:00 p.m. three days prior to the date of arrival.

**Check-in time is 4:00 pm; check-out is 11:00 am**

**SAY GOODNIGHT TO HUNGER**
Stay with Omni. Help end hunger in America. For all group rooms booked, Omni will contribute one meal per actualized reservation. You not only get a sensational meeting, but you can also help make a meaningful difference in local communities. To learn more visit: [https://www.omnihotels.com/meetings/offers/say-goodnight-to-hunger-group-promo](https://www.omnihotels.com/meetings/offers/say-goodnight-to-hunger-group-promo)

**CONFERENCE REGISTRATION**
Register online at [www.stsa.org/65thannual](http://www.stsa.org/65thannual) or complete and return the enclosed registration form. Early registration is available until October 8, 2018. After this date, you must register on site at the Annual Meeting. Please note that there will be an additional $50 charge for attendees registering on site.

Registration and Cancellation Policy: Cancellation requests must be submitted in writing by October 8, 2018; unfortunately, STSA is unable to honor any subsequent requests. Refunds are subject to a $50 administrative fee.

**GETTING AROUND AMELIA ISLAND**
The Omni Amelia Island Plantation Resort is an expansive property boasting a long list of activities and attractions for the whole family. The resort provides a complimentary shuttle from 6:00 am to midnight to help you explore all it has to offer. Visit the hotel’s website for a full list of things to do.

**Airport Transportation**
Jacksonville International Airport (airport code JAX) is located 30 miles from the hotel, and is serviced by most major airlines. The resort does not provide shuttle service from the airport. There are several forms of ground transportation services available at the airport.

**Taxi Service**
Taxis are readily available at the lower level curbside, outside of baggage claim. Fares to the Omni Amelia Island Plantation Resort are approximately $70 one way.

**Shared or Private Car Service**
Super Shuttle services the Jacksonville International Airport with both shared rides and private cars. Reservations can be made online at [www.SuperShuttle.com](http://www.SuperShuttle.com). Shared ride cost to the Omni Amelia Island Plantation Resort is $46 per person one way, and private cars are available starting at $86 per person one way.

Private car service is also available through Dana Limousine and Transportation Service. Reservations can be made by calling (904) 744-3333 or emailing [reservations@danaslimo.com](mailto:reservations@danaslimo.com).

**Car Rental**
A special car rental rate has been negotiated for STSA meeting attendees through Hertz. For reservations in the U.S. and Canada call 800-654-2240; from all other locations call 405-749-4434. Reservations can also be made online at [www.hertz.com](http://www.hertz.com). Reference CV# 04R50006 when making reservations.

**Parking**
The Omni Amelia Island Plantation Resort offers complimentary self-parking for STSA guests. Valet parking is $25 per day.

**FOR ADDITIONAL INFORMATION**
Contact STSA at (312) 202-5892 or email [stsa@stsa.org](mailto:stsa@stsa.org).
ACTIVITIES AND ENTERTAINMENT

HOSPITALITY SUITE
Thursday, November 8 – Saturday, November 10
Time: 8:00 am – 11:00 am

STSA is providing a hospitality room for your spouse or guest to mingle with other spouses and guests and to make plans for exploring Amelia Island.

RESIDENTS RECEPTION
Thursday, November 8
Cost: Complimentary for Residents
Time: 6:00 pm - 7:00 pm

Residents and medical students are encouraged to attend this function to meet other residents and students, and network with leaders in the field.

PRESIDENT’S MIXER
Thursday, November 8
Time: 7:00 pm - 9:00 pm
Cost: Complimentary

Gather with fellow meeting attendees for an evening of networking and fun. Attendees receive two tickets with registration. Additional tickets may be purchased for $25.

DINNER GALA
Friday, November 9
Reception: 7:00 pm - 7:30 pm
Dinner: 7:30 pm - 10:00 pm
Cost: $125 per adult / $40 per child (ages 12 and younger)

Advanced registration recommended. A limited number of tickets will be sold on site.

Join fellow meeting attendees and their families for the always-memorable Dinner Gala, complete with a cocktail reception, dinner, awards, and music entertainment. A local band has been added to this year’s program and will provide easy listening during the dinner hour. Don’t miss it! Although black tie is always in fashion, you are welcome to wear cocktail attire. Be comfortable and have fun!

INDIVIDUAL GOLF PLAY
Cost: $108 (includes greens fees, cart fees and practice balls)

Contact the golf shop at (904) 491-4801 to reserve a tee time according to your schedule. Be sure to mention you’re an STSA attendee to receive the group discount.

Rental clubs are available for $65 and include one sleeve of golf balls. Rental items are not included in the cost of individual golf play.

Please note the following dress code: Men must wear collared shirts with long pants or Bermuda length shorts. Ladies must have a collar or sleeves on their top. Dresses, shorts or skirts of appropriate length are allowed. Only soft-spiked shoes are allowed on the course.

RESORT ACTIVITIES AND LOCAL EXCURSIONS

The Omni Amelia Island Plantation Resort features a long list of exciting and rejuvenating on-property activities. On arrival, guests will be provided with a Resort Guide outlining the week’s activity schedule, as well as available excursions and dining options. The resort is situated directly on the beach, and offers two swimming pools, a splash park, full service spa, two fitness centers including state-of-the-art Racquet Park Health Club, a championship golf course, and world-renowned tennis facilities. Spend your free time exploring the surrounding maritime forests on rented bicycles or Segways, stroll through the Shops of Amelia Island Plantation and pick up souvenirs, or reserve a private cabana on the beach for you and your family. Visit www.omnihotels.com/hotels/amelia-island-plantation or contact the Concierge team at (904) 432-1467 for more information.

GOLF AT AMELIA ISLAND'S OAK MARSH GOLF

Numerous local championships and resort tournaments are played here. Included in Golf Digest’s prestigious list of the “Top 75 Resort Courses in the U.S.,” Oak Marsh also was selected by Travel & Leisure Golf as one of “Florida’s 50 Finest Courses.”

Golf at the Oak Marsh Golf Course is one of the truly classic Pete Dye-designed golf courses in the world. The course, built in 1972 shortly after the completion of the Harbour Town Golf Links at Hilton Head Island, South Carolina, is noted for its tight fairways and small greens, meandering along serpentine salt marsh creeks and through the moss draped heritage oaks for which Amelia Island is famous.

At par 72, this 6,500-yard course has 14 holes with water hazards and numerous bulk-headed greens. A variety of bunkers are placed throughout the course to add to the challenge, and a natural approach has been maintained as well with the use of coquina shell cart paths, native plant life and preserved habitats for the local wildlife.

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