



Eastern Association for
the Surgery of Trauma
Advancing Science,
Fostering Relationships,
and Building Careers

38th Annual Scientific Assembly

JANUARY 14-18, 2025
JW Marriott Tucson Starr Pass
Resort & Spa • Tucson, AZ
#EAST2025

Preliminary Schedule of Events & Assembly Registration Information

For *Annual Scientific Assembly* Information:
<https://www.east.org/education-resources/annual-scientific-assembly>

Register Online:

<https://www.east.org/education-resources/annual-scientific-assembly/registration>





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General Information



Accommodations

JW Marriott Tucson Starr Pass Resort & Spa (Headquarters Hotel)

A guest room block at the group rate of \$289 per night/single or double occupancy (plus applicable taxes and \$20/day resort fee) has been reserved for the Eastern Association for the Surgery of Trauma (EAST). To reserve your room at the special group rate, please make your reservation by 5:00 pm CST December 17, 2024. The group rate is subject to room availability and is offered over the following dates: January 12-19, 2025. Reservations made after December 17, 2024 may not be eligible for the discounted EAST rate. Go to the [Annual Scientific Assembly page](#) of the EAST website to link to the online reservations page or call 1-520-792-3500 (indicate you are with EAST).

Government/Military Rate

EAST has secured a government room rate at the current prevailing military rate of \$169* per night/single or double occupancy (plus applicable taxes rate is subject to change) for individuals actively serving in the military. A limited number of rooms at the military rate are available on a first come, first served basis. To reserve your room at the special group rate, please make your reservation by December 17, 2024. The government rate is subject to room availability and is offered over the following dates: January 13-18, 2025. Reservations made after December 17, 2024 may not be eligible for the discounted EAST rate. Go to the [Annual Scientific Assembly page](#) of the EAST website to link to the online reservations page or call 1-520-792-3500 (indicate you are with EAST). You will be required to show your Military ID and work orders at the time of check in to receive the Military Room Rate.

**Rate is subject to change.*

Check-in is 4:00 pm, and check-out is 11:00 am.

Unauthorized Registration and Housing Services

It has come to our attention there are companies operating on the internet claiming to offer registration and housing services for the EAST Annual Scientific Assembly. **These companies are not affiliated with EAST and do not offer any services on our behalf and you should treat them as fraudulent or a scam.** You may receive e-mails or phone calls from these companies urging you to book hotel rooms or register for the meeting(s). Registration and housing should only be accessed from the EAST website. Housing reservations should be made directly with the hotel.



Airline and Ground Transportation

Airline

Tucson International Airport (TUS) is the primary airport servicing the Tucson, Arizona area. TUS is approximately 13 miles and 20 minutes from the JW Marriott Tucson Starr Pass Resort & Spa.

Ground Transportation

Getting from the airport to the JW Marriott Tucson Starr Pass Resort & Spa

<https://www.marriott.com/en-us/hotels/tussp-jw-marriott-tucson-starr-pass-resort-and-spa/overview/what-to-expect/>

Driving Directions & Parking - <https://www.marriott.com/en-us/hotels/tussp-jw-marriott-tucson-starr-pass-resort-and-spa/overview/what-to-expect/>

Please contact the JW Marriott Starr Pass Resort & Spa at 510-792-3500 for information.

JW Marriott Tucson Starr Pass Resort & Spa
3800 W. Starr Pass Boulevard
Tucson, AZ 8578989

Cancellation/Refund Policy

Cancellations received in writing by January 6, 2025 will receive a full refund less a \$75 administrative fee. **Refunds will not be available for cancellations received after January 6, 2025.**

Security

Badges must be worn to gain entry into the educational sessions, exhibit hall, and all other EAST sponsored events.

Special Assistance

If you will require any special accommodations while in attendance at this meeting, or have any dietary restrictions, please let us know by contacting Hallie St. Marie, at hstmarie@facs.org.

What to Wear

Make the learning experience a comfortable one. Business casual (even if you are presenting) should be as formal as you get while joining your colleagues at the 38th EAST Annual Scientific Assembly. **In fact, an environment free of business dress is preferred.**

Code of Conduct for EAST Meetings

By registering for the 38th EAST Annual Scientific Assembly you acknowledge that you read the [Meetings Code of Conduct](#) available on the EAST website and listed in the registration brochure; you know its contents; you entered into it as a free and voluntary act; and you agree to abide by its terms as a condition of meeting attendance.

What to Do while you are in Tucson

See pages 22-23 for What to Do information compiled by EAST Member, Dr. Christina Colosimo.

Hold Harmless Waiver - Health & Safety Protocols

To attend the Assembly, you must consent to EAST's *Hold Harmless Waiver and Health & Safety Protocols* (page 21). In addition, EAST reserves the right to impose conditions upon which attendees will be permitted entry at the Assembly consistent with applicable law and public health guidelines. Any conditions on entry will be provided to you in advance of the Assembly. By attending the Assembly, you agree you are familiar with all recommended public health guidelines related to COVID-19, including but not limited to guidelines related to hand sanitization, social distancing, and use of face coverings. Your decision to attend the Assembly is voluntary and at your own risk.

Questions?

- **Registration**
Contact Registration Services: registration@facs.org
- **Educational or General**
Contact EAST at managementoffice@east.org
- **Hotel/Housing or Special Dietary Needs**
Contact Hallie St. Marie, hstmarie@facs.org
- **Exhibits & Marketing Opportunities**
Contact Exhibits and Marketing Opportunities: jvacha@facs.org

Important Dates

December 17, 2024: EAST Hotel Rate (based on availability) Cut-off Date
December 18, 2024: Early Registration Fee Deadline
January 6, 2025: No refunds issued after this date. Refund requests must be submitted in writing.
January 13, 2025: Late Registration Deadline

Additional Information

Annual Scientific Assembly Check-In

All attendees and registered guests must check in at the assembly registration desk prior to attending any educational sessions or EAST sponsored events. Badges must be worn at all times to gain access to the educational sessions, exhibits, and EAST sponsored events.

Meeting Registration Hours

Tuesday, January 14: 7:30 am-6:00 pm
Wednesday, January 15: 6:30 am-6:30pm
Thursday, January 16: 6:30 am-4:30 pm
Friday, January 17: 6:30 am-1:30 pm

Exhibit Hours

Wednesday, January 15: 7:00 am-4:00 pm
Thursday, January 16: 7:00 am-4:00 pm
Friday, January 17: 7:00 am-11:00 am





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Scientific Program Information

Workshops

Workshops will be held on Tuesday, January 14, 2025. Please refer to pages 17-19 for workshop & course details. Workshop registration fees are in addition to the Primary Scientific Meeting registration fee.

Primary Scientific Meeting

The Primary Scientific Meeting will include Scientific Papers, Quick Shot Papers, Educational Sessions, and Short Courses all for one registration fee.

Scientific Papers, Quick Shots, and Short Courses

Scientific Papers - A total of 35 scientific paper presentations will be given during the 38th EAST Annual Scientific Assembly over the dates of January 15-17, 2025. The Raymond H. Alexander, MD Resident Paper Competition will take place on Wednesday, January 15, 2025; the Cox-Templeton Injury Prevention Paper Competition will be held on Thursday, January 16, 2025.

Quick Shots - 20 Quick Shot papers will be presented on Thursday, January 16, 2025. Quick Shots will be delivered as parallel sessions with 10 Quick Shots per session. Presenters will have three minutes to present followed by three minutes of discussion with questions from the audience and/or session moderators.

Short Courses - EAST Short Courses will be held on Friday, January 17, 2025 from 1:00 pm-5:00 pm. There is no additional fee to attend a Short Course. Registration is limited and pre-registration is required.

Educational Sessions & Named Lectures

11 Educational Sessions will be held during the 38th EAST Annual Scientific Assembly. The Presidential Address will be delivered by EAST President, Ben L. Zarzaur, MD, MPH, FACS on Wednesday, January 15th from 2:30 pm-3:30 pm. The Oriens Keynote by Selwyn O. Rogers, Jr., MD, MPH, FACS and Oriens Essay presentations will be presented on Thursday, January 16th from 8:30 am-9:30 am. Martin A. Croce, MD, FACS will deliver the Scott B. Frame, MD Memorial Lecture on Friday, January 17th from 11:30 am-12:30 pm. All Educational Sessions are included in the Primary Scientific Meeting registration fee. The EAST Annual Report (*open to all attendees*), Gavel Exchange, and Awards Ceremony will be held on Friday, January 17th from 10:45 am-11:15 am.

Exhibits

Learn about the most current products and services from the companies exhibiting at the 38th Annual Scientific Assembly. A listing of the companies scheduled to exhibit is on page 6.

No Suit, No Problem: Fostering Relationships & Building Careers

This great networking event will take place on Thursday, January 16th from 4:30 pm-6:00 pm. This forum will give junior faculty the opportunity to meet with leaders in Trauma and Acute Care Surgery to discuss career pathways, research development, and skill sets.

EAST Community Outreach

This EAST Community Outreach program, is being coordinated by the EAST Injury Control and Violence Prevention Committee. The event will be held on Tuesday, January 14, 2025 from 7:00 am-3:30 pm. The 2025 program will focus on:

- Impaired Driving Simulation
- Trauma ABCs
- 1st Responders
- Trauma Survivorship

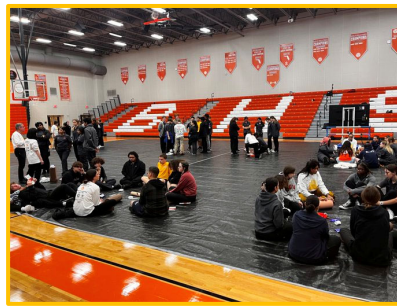
If you aren't familiar with this event and the positive impact it has had on the community, [click here](#) for more information and to [volunteer to participate](#) in the 2025 program.

Thank you to the Society of Trauma Nurses, the American Trauma Society and the Trauma Survivors Network for supporting the 2025 program.

Interested in Volunteering for the 2025 EAST Community Outreach Program?

The 2025 event will be held at the Cholla High School in Tucson, Arizona on Tuesday, January 14, 2025 from 7:00 am-3:30 pm. EAST will provide transportation to/from the JW Marriott Tucson Starr Pass Resort & Spa on the day of the event. If you are interested in volunteering, [complete the online volunteer form](#) or contact the EAST offices at managementoffice@east.org.

2023 EAST Community Outreach Volunteers & Program





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**Thank you to those exhibitors who have confirmed exhibit space for the
38th EAST Annual Scientific Assembly**

Exhibitors as of September 15, 2024
Visit the EAST website for an up-to-date listing of exhibitors

- Altrazeal
- American Burn Association
- American Trauma Society
- Aroa Biosurgery
- Association of Out Surgeons and Allies (AOSA)
- ASR Systems | TITAN CSR Retractor
- AstraZeneca
- Avita Medical Americas LLC
- Boston Scientific
- Cerus Medical
- CLR Medical
- Coalition for National Trauma Research (CNTR)
- Cresilon I Traumagel
- Extant Healthcare, LLC
- Johnson & Johnson MedTech
- Journal of Trauma and Acute Care Surgery (JTACS)*
- KLS Marting Group
- Latino Surgical Society (LSS)
- Matriderm
- Omni-stat Medical Inc
- OSF HealthCare
- PolyNovo North America
- Prytime Medical Devices
- Sentinel Medical Technologies
- Society of Trauma Nurses (STN)
- SouthMedic
- Synergy Health Partners
- Teleflex
- Trauma Center Association of American (TCAA)
- United States Navy Reserves
- Wellstar Health System
- Zimmer Biomet



Workshops

See pages 17-19 for workshop and course descriptions and schedules. Pre-registration required; additional registration fees apply.

TUESDAY, JANUARY 14, 2025

8:00 am – 4:30 pm

Thinking Big: Leadership Development for the National Stage An EAST Leadership Development Workshop

Presented by the EAST Career Development Committee

12:30 pm – 4:30 pm

Bridging the Gap: An EAST Chief Residents & Fellows Workshop

Presented by the EAST Career Development Committee

1:30 pm – 5:15 pm

TCAA: Trauma Performance Improvement

Presented by the Trauma Center Association of America (TCAA)

Supported by the EAST Quality, Safety & Outcomes Committee





Primary Scientific Meeting Schedule

WEDNESDAY, JANUARY 15, 2025

7:00 am-8:00 am

Breakfast in the Exhibit Hall

8:00 am-8:30 am

Opening Ceremony - Flag Ceremony and Opening Remarks

8:30 am-10:00 am

Scientific Session I: Raymond H. Alexander, MD Resident Paper Competition (*Papers 1-4*)

Moderators: Ben L. Zarzaur, MD, MPH & Adam Price, MD (2024 Basic Science Paper Award Recipient)

10:00 am-10:30 am

Morning Break - Refreshments provided in the Exhibit Hall

10:30 am-12:00 pm

Scientific Session II: Raymond H. Alexander, MD Resident Paper Competition (*Papers 5-8*)

Moderators: Brad Dennis, MD & Elise Biesboer, MD (2024 Clinical Science Paper Award Recipient)

12:00 pm-1:15 pm

Lunch on own

Industry Satellite Symposia (*separate registration*)

<https://www.east.org/education-resources/annual-scientific-assembly/program/industry-sponsored-symposia>

1:15 pm-2:15 pm – Concurrent Educational Sessions

1:15 pm-2:15 pm

EAST & WTA - Collaborative Review of Guidelines with Western Trauma Association

Presented by the EAST Guidelines Committee

This session will feature five high-yield clinical topics in trauma surgery and will review both published EAST PMG recommendations and published WTA algorithms in a collaborative and dynamic manner using case-based scenarios. The collaborative topic review will ensure attendees understand the latest clinical-decision making support tools from EAST and WTA, and will highlight how these tools are complementary in the care of the injured patient.

Moderator: Stefan Leichtle, MD, MBA

Reviewers: Rachel Appelbaum, MD • Jennifer Freeman, MD, MPH • Jennifer Hartwell, MD • Matthew Martin, MD • Josh Ng Kamstra, MDCM, MPH • Natasha Keric, MD • Lisa Kodadek, MD • Brian Yorkgitis, DO

Guidelines Reviewed

Open Abdomen - EAST 2022 and WTA 2019

Blunt Cerebrovascular Injury - EAST 2020 and WTA 2009

Renal Trauma - EAST 2023 and WTA 2018

Rectal Trauma – EAST 2016 and WTA 2023

Pediatric ED Thoracotomy (EAST, WTA, and PTS) - 2023



WEDNESDAY, JANUARY 15, 2025 (CONTINUED)

1:15 pm-2:15 pm – Concurrent Educational Sessions

1:15 pm-2:15 pm

The Two Hit Hypothesis of EGS: Navigating Surgical Emergencies in Patients with Advanced Co-morbidities

Presented by the EAST Emergency General Surgery Committee

Emergency General Surgery (EGS) is a pillar of Acute Care Surgery (ACS), in which surgeons are asked to operate on complex surgical emergencies in critically ill patients, who often have severe underlying co-morbidities or terminal conditions. This includes, but is not limited to, metastatic cancer, advanced cirrhosis, and decompensated heart failure. This educational session serves to equip ACS surgeons, residents, and advanced practitioners with the knowledge to navigate these complex EGS cases, including patient selection, techniques for operative intervention, opportunities to engage Palliative Care, and communication strategies in order to set appropriate expectations for these patients. A panel of expert surgeons will discuss their individual experiences through case-based presentations and provide their insights into these complex clinical scenarios.

Moderator: Chad Hall, MD

Speakers:

Ronald Tesoriero, MD - Abdominal Emergencies in Patients with Advanced Cirrhosis

Mira Ghneim, MD - Management of Malignant Bowel Obstructions

Lauren Steward, MD - Mesenteric Ischemia/Low Flow State in Mechanically Supported Heart Failure

Mackenzie Cook, MD - Primary Palliative Care...Keep the Crepe Handy

2:15 pm-2:30 pm -

Break - Refreshments provided in the Exhibit Hall

2:30 pm-3:30 pm

Opening Keynote – EAST Presidential Address

Ben L. Zarzaur, MD, MPH, FACS





WEDNESDAY, JANUARY 15, 2025 (CONTINUED)

3:45 pm-4:45 pm – Concurrent Educational Sessions

3:45 pm-4:45 pm

Problem-solving in Caring for the Polytrauma-Burn Patient

Presented by the EAST Burn Surgery Committee

Trauma and Burn Injuries affect people of all backgrounds, but often have a disproportionately severe impact on patients with limited resources. This session is aimed at providing caregivers of all burn and polytrauma patients creative solutions to address the needs of these complex patients.

Moderator: Taryn E. Travis, MD

Speakers:

Laura Johnson, MD – Polytrauma-Burn Case Presentation

Taryn E. Travis, MD - How to Manage Open Fractures through Burned Skin, Grafting Around an Ex-fix, Timing for Internal Fixation with Overlying Open Wounds

Renford Cindass, Jr., MD - Managing Scalp Burns in the Presence of Intracranial Pressure Monitoring Devices or External Ventricular Drain Devices

Monty Littlejohn, MD - Thoracostomy Tube Challenges and Solutions in the Presence of Chest Burns

Robel Beyene, MD - Creating a Temporary Abdominal Closure Device for the Open Abdomen in a Patient with Abdominal Wall Burns

3:45 pm-4:45 pm

Healing as a Team: Navigating Alcohol Use Disorder

Presented by the EAST4ALL Committee, EAST Member Recruitment & Retention Committee, and the EAST Career Development Committee

Alcohol use disorder (AUD)* affects surgeons across all ages, racial and ethnic backgrounds, sexual and gender identities, and socioeconomic backgrounds. This session will focus on recognition of the disease, steps to intervene, and what to expect once treatment and recovery has started. We will discuss the common risks for AUD and why surgeons are particularly susceptible. The impact on physicians in leadership positions and how they can best support a surgeon with AUD will be discussed. The session will include a surgeon who has recovered from AUD and returned to clinical practice. The goals for attendees is to improve the ability of identifying AUD in their personal lives and workplaces, and increase the likelihood of seeking help for themselves or their colleagues.

*Alcohol Use Disorder is the current diagnosis and includes a spectrum of mild, moderate and severe; this updated diagnosis includes previous diagnosis of alcohol abuse and alcohol dependence.

Moderator: Carrie Valdez, MD

Speakers:

Amy Duran, CEO Brookdale Recovery – What Happens Next?

Cristina Feather, MD, MHS - Impact on the division/department/hospital/state boards

WEDNESDAY, JANUARY 15, 2025 (CONTINUED)

5:00 pm-6:00 pm – Concurrent Educational Sessions

5:00 pm-6:00 pm

Improving Rural Trauma Care Through Protocol Sharing: A Panel Discussion on Local Support, Transfer Guidance & Quality

Presented by the EAST Rural and Community Care Committee

This session will discuss the utilization of protocols for injury management both to support referring centers and to possibly reduce the rate of unnecessary transfers to larger trauma centers. We will discuss how protocols for certain injury types / patterns could allow for improved triage, local care, and transfer decision support.

Moderator: Jon P. Winkler, MD, PhD

Speakers:

H. Andrew Hopper, MD – Why Protocols are Important. How We Think This Could Help Improve Rural Care

Ariel Santos, MD, MPH – Traumatic Brain Injuries and the BIG Trial

Shannon Carroll, MD – Spine Injuries/Spine Clearance

James Bardes – Rib Fractures

Joon K. Shim, MD, MPH – Transfusion Guidance

5:00 pm-6:00 pm

So You Want To Be An Advocate

Presented by the EAST Advocacy Ad Hoc Task Force & the EAST Career Development Committee

Many within our profession understand that our patients experience multiple risks for injury and outcome inequality. These issues, from the social determinants of health to the experience of structural and interpersonal violence to unequal access to post-acute care services, can seem insurmountable to patients, families and providers alike. Many may seek to influence decision makers and thought leaders outside of the medical environment but may not know where to begin. This introductory session will provide some definitions and preliminary considerations to the concept of advocacy as well as illustrate some examples of our peers who have succeeded in advocating for patients and injury prevention.

Moderator: Jason Smith, MD, PhD, MBA

Speakers:

Stephanie Streit, MD – The Concept of Advocacy

Mary Fallat, MD – State of Advocacy

Randi Smith, MD, MPH & Ashley Williams, MD – Regional Advocacy

Joseph Sakran, MD, MPH – Federal Advocacy

EAST Opening Reception - 6:30 pm-8:30 pm





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THURSDAY, JANUARY 16, 2025

7:00 am-8:30 am

Breakfast in the Exhibit Hall

7:30 am -8:30 am

So You Want To Be A Division Chief

Presented by the EAST Mentor Member Committee

This session is designed to address four specific areas that all Division Chiefs must be fluent in the skill set to be successful and effective as a leader. Key factors in how to develop a proforma for a potential position on your team, including the inside scoop as to what the C suite is looking for to see the position as valuable will be presented. Graduating fellows are well versed in the medical aspects of the ICU, but the best practices and policies will be completely ineffective if the ICU Medical Director does not understand the forum to onboard the rest of the multi-disciplinary team. The session will provide insight into the nuts and bolts of getting leadership of Nursing, RT and Rehab to buy into care initiatives and how to implement change for bedside care, not just on paper. The EMR is here to stay. As compliance and administration add to the requirements for documentation, one's day can be consumed by the EMR. Tips and tricks to making the EMR more efficient will be presented. Attendees will be able to immediately translate the take home lessons into time saving opportunities to complete requirements and give the learner one of the most important commodities, time. Compensation is often equated to salary when compensation really encompasses many other factors. This segment will review other factors that individuals should consider when looking for job opportunities. Variations on benefits, constructs of PDO, potential tuition reimbursement, balance of clinical work vs program contributions and other forms of compensation will be reviewed.

Moderator: Andrew Bernard, MD

Speakers:

Nicole Fox, MD, MPH – How to Justify an FTE to the C Suite

Nicole Stassen, MD – ICU Medical Director: How to Interface with Nursing Leadership and Administration

Matthew Martin, MD – Making the EMR Efficient for You

Alison Wilson, MD – It's the Package Not Just the Salary

8:30 am -9:30 am

EAST Annual Oriens Presentations

Supported by an unrestricted grant from the Polk Family Charitable Foundation

8:30 am-9:20 am

Keynote Address

Selwyn O. Rogers, Jr., MD, MPH, FACS



9:20 am-9:30 am

EAST Oriens Essay Presentations

Resident Essay Presentation

Fellow Essay Presentation

9:30 am-10:00 am

Morning Break - Refreshments provided in the Exhibit Hall



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THURSDAY, JANUARY 16, 2025 (CONTINUED)

10:00 am-11:00 am – Concurrent Quick Shot Sessions

Quick Shots Session I (Papers 1-10)

Moderators: Alexandra Briggs, MD & Michael Cripps, MD

Quick Shots Session II (Papers 11-20)

Moderators: Lauren Dudas, MD & Ronnie Mubang, MD

11:15 am-12:15 pm

Scientific Session III: Cox-Templeton Injury Prevention Paper Competition (Papers 9-12)

Moderators: Leah Tatebe, MD & Grace Keegan, BS (2024 Paper Award Recipient)

12:15 pm-1:30 pm

Lunch on own

Industry Satellite Symposiums (separate registration)

<https://www.east.org/education-resources/annual-scientific-assembly/program/industry-sponsored-symposiums>

1:40 pm-3:40 pm – Concurrent Scientific Sessions

Scientific Session IV (Papers 13-17)

Moderators: Niels Martin, MD & Libby Schroeder, MD

Scientific Session V (Papers 18-23)

Moderators: Scott Armen, MD & Bellal Joseph, MD

4:30 pm-6:00 pm

No Suit, No Problem: Fostering Relationships & Building Careers

Presented by the EAST Career Development Committee (RSVP Requested)





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FRIDAY, JANUARY 17, 2025

7:00 am – 11:00 am - **Visit the Exhibits**

7:00 am-8:30 am - **Breakfast in the Exhibit Hall**

7:30 am-9:30 am – Concurrent Scientific Sessions

Scientific Session VI (Papers 24-29)

Moderators: Avi Bhavaraju, MD & Christinia Riojas, MD

Scientific Session VII (Papers 30-35)

Moderators: Mike Mallah, MD & Alexis Moren, MD

9:30 am-9:45 am - **Morning Break - Refreshments provided in the Exhibit Hall**

9:45 am-10:45 am

Engage the Experts

Presented by the EAST Career Development Committee

The “Engage the Experts” forum will be a highly interactive session that will allow residents, fellows, and junior faculty interested in a career in Acute Care Surgery (e.g. Trauma, EGS, SCC, Pediatric Trauma, Burn Surgery, Military Casualty Care, Rural Care) to present brief, interesting cases to a panel of Experts who will discuss the management options, pitfalls, and innovations.

Moderators: Brad Chernock, MD • Esther Tseng, MD • Annika Storey, DO

Experts:

D'Andrea Joseph, MD

Timothy Pritts, MD, PhD

Stacy Shackelford, MD

10:45 am-11:15 am

EAST Annual Report, Gavel Exchange & Awards and Recognition Ceremony

Open to all Assembly Attendees

11:30 am-12:30 pm

Scott B. Frame, MD Memorial Lecture

The Other Side of v 3.5

Martin A. Croce, MD, FACS





EAST SHORT COURSES – Friday, January 17, 2025 – 1:00 pm-5:00 pm
Concurrent Sessions - Registration is limited; pre-registration is required.

Short Course #1 – Robotic Applications Across the Spectrum from Elective to Emergency Surgery

Presented by the EAST Emergency General Surgery Committee

Robotics in Acute Care Surgery (ACS) is growing exponentially. We are seeing increased utilization of robotics platforms to perform emergency general surgery cases. This course aims to expose ACS surgeons to a variety of cases that can be performed robotically. We aim to inspire surgeons to embrace innovative technologies for the benefit of their patients and advancement of their own surgical practices. The short course will focus on common operations acute care surgeons deal with and offer tips and tricks to approach them robotically. The course begins with the basics including bedside manner, cholecystectomies and inguinal hernias. Sessions on complex abdominal wall pathology and complicated EGS cases including robotic approaches to the perforated viscus and diverticulitis will also be presented.

Moderators: Stephanie Eosten Joyce, MD, Matthew Martin MD

Topics/Speakers:

Getting Your Feet Wet: The Elective Robotic Practice – Joseph Sakran, MD, MPH, MPA

- Bedside Manner: Approaches to Port Placement, Docking, and Positioning – Stephanie Eosten Joyce, MD
- Robotic Cholecystectomy, the Gateway Operation – Leah Tatebe, MD
- Safe Approaches to Robotic Inguinal Hernia Repair – Bruce Crookes, MD

Level Up: Challenging ACS Robotic Cases

- Robotic Approaches to the Complicated Inguinoscrotal Hernia – Matthew Martin, MD
- Ventral/Incisional Hernia: The Robotic IPUM Approach – Kyle Leneweaver, DO
- Ventral/Incisional Hernia: The Robotic TAPP Approach – Bruce Crookes, MD

After Hours: Working in the Dark in Robotic Surgery - Stephanie Eosten Joyce, MD

- Robotic Cholecystectomy and Firefly Cholangiography for the Disaster Gallbladder – Matthew Martin, MD
- Perforated hollow viscus management – Andrea Pakula, MD, MPH
- Incarcerated Hernias and Selective Application of Robotic Approaches – Joseph Sakran, MD, MPH, MPA

Short Course #2 – Trauma Surgeon Scientists Needed

Presented by the EAST Research-Scholarship Committee and the EAST Multicenter Trials Committee

This short course is designed to deliver high-yield topics and insights of relevance to members of the trauma community who are pursuing research activities. We will address the needs of those who are pursuing a full-fledged academic career as well as research as a component of their career in trauma. Residents and Fellows with an interest in developing research skills and integrating trauma research into their careers, early career faculty seeking to build their academic careers, and mid-career faculty seeking to more effectively execute research should attend this short course.

Moderators: Niels Martin, MD & Timothy Pritts, MD, PhD

Topics/Speakers:

High-Yield Research Topics 1 – Bruce Chung, MD & Ryan Dumas, MD

- Research 101: Planning for a Successful Research Project – Niels Martin, MD
- Show Me the Data – Susannah Nicholson, MD
- Building a Research Program from Scratch – Sharven Taghavi, MD, MPH

Breakout Sessions:

- The Basics: Getting Started in Research – Kazuhide Matsushima, MD & Jacob Peschman, MD, MSPE
- Academic Writing and Peer Review – Jillian Richter, PhD
- Advice for the Aspiring Surgeon Scientist – Rachael Callcut, MD, MSPH & Niels Martin, MD

High-Yield Topics 2 – Timothy Pritts, MD, PhD

- Writing a Winning Abstract and Manuscript – Jillian Richter, PhD
- Injury Prevention Research – Leah Tatebe, MD
- Multi-Institutional Collaborations – Laura Goodman, MD, MPH

Breakout Sessions:

- Time Management from the Pros – Rachael Callcut, MD, MSPH, Michael Goodman, MD, & Niels Martin, MD
- Pathways to Funding – Rachael Callcut, MD, MSPH, Timothy Pritts, MD, PhD
- EAST Multicenter Trials – Mira Ghneim, MD & Patrick Murphy, MD, MPH, MSc

Short Courses continued on page 16

EAST SHORT COURSES – Friday, January 17, 2025 – 1:00 pm-5:00 pm - *continued*
Concurrent Sessions - Registration is limited; pre-registration is required.

Short Course #3 – Gun Safety is No Accident

Presented by the EAST Injury Control and Violence Prevention Committee

This course will equip attendees with the knowledge of common firearms owned for personal protection. Participants will gain a basic understanding of type and mechanism of firearms that will allow them to understand the safe function and handling of firearms. This will help health care providers discuss and provide practical counsel to their patients who are firearm owners. Participants will learn to recognize unsafe storage and carrying practices that increase the risk of unintentional discharge and injury, as well as gain the knowledge to correct and counsel patients on safe storage and carrying practices that minimize risk of unintentional injury. A practical firearm safety counseling approach will be provided to health care providers that are both familiar and unfamiliar with firearms.

Moderator: Martin Avery, MD

Topics/Speakers:

Introduction to Firearms – Carma Goldstein, MD

Firearm Safety – Major Jeffery Conner, MD

Developing the Conversation & Dispelling Myths – Hannah Carroll, MD





WORKSHOPS

All fees are in addition to the primary Annual Scientific Assembly registration fee. Space is limited; advance registration is required.

Thinking Big: Leadership Development for the National Stage An EAST Leadership Development Workshop *Presented by the EAST Career Development Committee*

TUESDAY, JANUARY 14, 2025 - 8:00 am-4:30 pm

Target Audience: Early Career Trauma & Acute Care Surgeons including Fellows-in-Training

Overview: The Leadership Development workshop seeks to enhance the skills and abilities of surgeons who are nearing mid-career. Rotating on a three year cycle, the themes include personal, local/institutional, and regional/national leadership. The theme for the 2025 EAST Leadership Development Workshop is regional and national leadership. The workshop aims to assist emerging leaders in augmenting their skills and honing their goals for their mid-career phase, and the knowledge and skills gained from this course are intended to also be applicable at one's own institution and at the professional organization level. Workshop objectives: 1) Provide examples and actionable steps towards gaining leadership positions in regional and national surgical organizations 2) Broaden the learners aperture on what it means to be a leader in acute care surgery by providing examples and concrete steps towards achieving these goals 3) Help attendees set intentions for their own career paths via personal reflection and networking with everyone from peers and internationally recognized leaders in acute care surgery.

Workshop Size: 60 **Workshop Price:** \$600

Workshop Director: Stephanie Streit, MD

Faculty: Stephanie Bonne, MD • Shannon Foster, MD • Nicole Fox, MD, MPH • Haytham Kaafarani, MD, MPH • Joseph Sakran, MD, MPH, MPA • Nicole Stassen, MD • Stephanie Streit, MD • Cynthia Talley, MD • Brian Williams, MD

Schedule:

| | |
|-------------------|--|
| 8:00 am-8:15 am | Introduction – Stephanie Streit, MD |
| 8:15 am-8:55 am | The Science of Service – Nicole Fox, MD, MPH |
| 8:55 am-9:35 am | Demystifying the Acronyms – Stephanie Bonne, MD |
| 9:35 am-9:45 am | Break |
| 9:45 am-10:15 am | The Treasure Chest – Group Activity |
| 10:15 am-10:55 am | The ABS – A Hydra for Good – Nicole Stassen, MD |
| 10:55 am-11:35 am | The Leadership of the Educator – Cynthia Talley, MD |
| 11:35 am-12:15 pm | Panel Discussion |
| 12:15 pm-1:00 pm | Lunch |
| 1:00 pm-1:40 pm | Staying Relevant Outside of the Ivory Tower – Shannon Foster, MD |
| 1:40 pm-2:30 pm | Not that Kind of Fellowship: Stepping Away from Clinical Medicine – Brian Williams, MD |
| 2:30 pm-2:45 pm | Letters to Future You/Break |
| 2:45 pm-3:25 pm | Quality and Safety at the National Level – Haytham Kaafarani, MD, MPH |
| 3:25 pm-4:05 pm | “This is Our Lane” and Finding Your Own Lane – Joseph Sakran, MD, MPH, MPA |
| 4:05 pm-4:30 pm | Panel Discussion |
| 4:30 pm | Wrap Up & Takeaways – Stephanie Streit, MD |



Bridging the Gap: An EAST Chief Residents & Fellows Workshop

Presented by the EAST Career Development Committee

TUESDAY, JANUARY 14, 2025 - 12:30 pm–4:30 pm

Target Audience: The audience is anyone soon pursuing or recently acquired a position in trauma and acute care surgery in both academic and private practice settings. This ranges from chief residents to fellows to new faculty.

Description: Bridging the Gap is a workshop that matches early career surgeons pursuing a career in trauma and acute care surgery with mentors and leaders in the field who can provide tips for pursuing their career, navigating the hiring process, and starting the job off on the right foot. This workshop balances the most essential topics (such as hiring and contracts) with opportunities to meet leaders in the field. New to the workshop will be an “Office Hours” session that will be similar to EAST’s signature “No Suit, No Problem” networking event held during the Annual Scientific Assembly. “Office Hours” will be an interactive session where trainees are allowed to discuss various topics with senior surgeons in small round table sessions.

Workshop Directors: Linda Dultz, MD, MPH and Jordan Estroff, MD

Workshop Size: 60

Workshop Price: \$0 for Chief Residents & Fellows who have registered for the Primary Scientific Meeting
\$400 all others

Faculty: Brittany Bankhead, MD, MS • Brandon Bruns, MD, MBA • Stephanie Bonne, MD • Jamie Coleman, MD • Linda Dultz, MD, MPH • Nicole Fox, MD, MPH • Vanessa Ho, MD, MPH, PhD • Niels Martin, MD • Patrick Murphy, MD, MPH, MSc • Samuel Ross, MD, MPH

Schedule:

Schedule:

12:30 pm – 12:35 pm

Introduction – Linda Dultz, MD, MPH

12:35 pm – 1:25 pm

Preparing & Finding the Right Job

- Identifying the Right Job For You (What Division Chiefs Look For) – Niels Martin, MD
- Expectations and Measure of Work – Patrick Murphy, MD, MPH
- The “How To” of Interviewing & Preparing Your CV – Brittany Bankhead, MD, MS

1:25 pm-1:35 pm

Break

1:35 pm – 2:25 pm

Understanding the Hiring Process

- Academic Contracts – Brandon Bruns, MD
- Community Contracts – Stephanie Bonne, MD
- New Money: Priorities for Financial Well-Being – Samuel Ross, MD, MPH

2:25 pm-2:35 pm

Break

2:35 pm – 3:25 pm

Starting the Job Off Right

- Exploiting your Niche/Elevator Pitch/Developing a Professional Portfolio – Vanessa Ho, MD, MPH, PhD
- Advancing your Career – Jamie Coleman, MD
- EAST Opportunities and Resources, Job Opportunities – Nicole Fox, MD, MPH

3:25 pm-3:35 pm

Break

3:35 pm – 4:25 pm

Office Hours: No Suit, No Problem for Trainees

4:25 pm – 4:30 pm

Wrap Up

CME or Self-Assessment Credit will not be offered for this workshop.



Eastern Association for
the Surgery of Trauma
*Advancing Science,
Fostering Relationships,
and Building Careers*

38th Annual Scientific Assembly

JANUARY 14-18, 2025
JW Marriott Tucson Starr Pass
Resort & Spa • Tucson, AZ
#EAST2025



Trauma Performance Improvement Workshop

Presented by the Trauma Center Association of America & supported by the EAST Quality, Safety & Outcomes Committee

TUESDAY, JANUARY 14, 2025 – 1:30 pm –5:30 pm

Audience: Trauma Surgeons, NPP and trauma Program Team Members

Overview: Performance Improvement is one of the areas required to meet the standards of verification/designation of trauma centers. The verbiage of loop closure is one of the main concepts in a PI Plan and critique during a verification/designation (Mowry, 2019). In an eBook by Trauma System News (2016), Dr. Michael McGonigal revealed the importance of documentation and its effect on verification status. This workshop will be open to all to all trauma surgeons, APPs and the trauma program team who provide and review trauma care. The scope of the workshop is for the Trauma Program Team to learn how to improve PI operations in their trauma center and exert control over their process. The faculty will focus on PI topics relevant to developing, managing, or improving the PI process and care in their trauma center.

Learner Objectives:

At the conclusion of this course, the participant should be better able to:

1. Demonstrate an in-depth understanding of trauma PI program structure and flow.
2. Describe the process for developing solid clinical practice guidelines
3. Recognize common PI problems encountered by the trauma team and methods to resolve them.

Workshop Directors: Michael McGonigal, MD • Vicki Bennett, MSN, RN • Deb Myers, MSN, RN

Workshop Price: \$350

Faculty: Michael McGonigal, MD & Vicki Bennett, MSN, RN

| | |
|-------------------|--|
| 1:30 pm – 1:45 pm | Introduction/Purpose/Background |
| 1:45 pm – 2:15 pm | Overview of the PI Flow |
| 2:15 pm – 2:45 pm | PI Logistics: PI Committee Structure, Registry Software, Performance Assessments |
| 2:45 pm – 3:15 pm | Virtual Visit Prep |
| 3:15 pm-3:30 pm | Break |
| 3:30 pm-3:45 pm | Clinical Practice Guidelines (CPG) |
| 3:45 pm – 4:00 pm | Common PI Problems and Solutions |
| 4:00 pm – 5:00 pm | Case Presentations |
| 5:00 pm – 5:30 pm | Wrap Up |

Physician CME: The Trauma Association of America is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. TCAA designates this live activity for a maximum of 3.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CODE OF CONDUCT FOR EAST MEETINGS

1. Introduction. The Eastern Association for the Surgery of Trauma (“EAST”) is a nonprofit corporation, organized for charitable, educational, and scientific purposes. In particular, EAST: (i) fosters advances in the study and practice of the surgery of trauma; (ii) provides a forum for the exchange of knowledge pertaining to injury control, research, practice, and training in prevention, care, and rehabilitation of injury; and (iii) advances research, education, and training regarding the prevention, correction, and treatment of injuries (“Exempt Purpose”). In furtherance of its Exempt Purpose, EAST conducts and/or sponsors educational meetings including, without limitation, Annual Scientific Assemblies and periodic internal and external meetings and programs (collectively “Meeting(s)”).

EAST seeks participation in its Meetings by individuals with varied and diverse backgrounds. EAST is committed to providing a friendly, safe and welcoming environment for all Meeting attendees, regardless of gender, sexual orientation, ability, ethnicity, socioeconomic status, religion (or lack thereof), and other individual characteristics. This Code of Conduct (“Code”) outlines EAST’s expectations of its Meeting attendees (including EAST members, EAST Board members, sponsors, invited guests, and any other person attending a Meeting), as well as the consequences for Unacceptable Behavior (defined below). We expect all Meeting attendees will abide by this Code at all Meetings, and in connection with activities outside of Meetings when such behavior has the potential to adversely affect the safety and/or wellbeing of Meeting attendees.

2. Expected Behavior. EAST expects its Meeting attendees will:

- Exercise consideration and respect in their speech and actions.
- Attempt collaboration before conflict.
- Refrain from demeaning, discriminatory, or harassing behavior and speech.
- Be mindful of their surroundings and fellow attendees.
- Be respectful to all patrons at Meeting venues.

3. Unacceptable Behavior. “Unacceptable Behavior” EAST will not tolerate includes, without limitation:

- Violence, threats of violence, or violent language.
- Disruptive, intrusive, insulting, antagonistic, or any other malicious conduct.
- Sexism, racism, homophobia, transphobia, or other discriminatory conduct.
- Inappropriate photography or recording.
- Inappropriate physical contact.
- Unwelcomed sexual attention and/or advances; including, using sexualized language.
- Intoxication, contributing to inappropriate behavior.
- Deliberate intimidation, stalking or following (online or in person).
- Sustained disruption during Meeting events, including talks and presentations.
- Advocating for, or encouraging, any of the above behavior.
- Any other conduct deemed inappropriate and/or that may jeopardize the success of a Meeting, EAST’s reputation and goodwill, or the positive experience of any other Meeting attendee.

4. Consequences of Unacceptable Behavior. Unacceptable Behavior by Meeting attendees will not be tolerated. The determination of whether conduct constitutes Unacceptable Behavior, and the consequences imposed by EAST for the same, rest solely within EAST’s discretion, and said determinations are final and not subject to appeal. Anyone asked to stop Unacceptable Behavior is expected to comply immediately. If a Meeting attendee engages in Unacceptable Behavior and/or does not comply with this Code, EAST may take any action deemed appropriate, up to and including a temporary ban or permanent expulsion from a Meeting without warning (and without refund, in the case of a paid event).

5. Reporting Guidelines. If you are subject to, or witness, Unacceptable Behavior, or have any other concerns, please notify EAST as soon as possible by contacting EAST’s Executive Director or EAST’s Executive Committee. If the subject Unacceptable Behavior involves the Executive Director, please notify EAST’s current President. Additionally, Meeting organizers are available to help Meeting attendees engage local law enforcement, or to, otherwise, help those experiencing Unacceptable Behavior feel safe. During Meetings, organizers are available to provide escorts as desired to the Meeting attendee(s) experiencing distress.

Any questions or comments regarding this Code should be directed to EAST’s Executive Director.

Adopted: April 30, 2015



Hold Harmless Waiver

The Eastern Association for the Surgery of Trauma ("EAST") 38th Annual Scientific Assembly ("Event") will be held in Tucson, Arizona at the JW Marriott Tucson Starr Pass Resort and Spa ("Premises"). In consideration of being permitted by EAST to participate in the Event and in recognition of EAST's reliance thereon, the individual named below (referred to as "I" or "Attendee") agrees to all the terms and conditions stated in this release ("Release").

1. I am aware of the contagious nature of bacterial and viral diseases including the 2019 novel coronavirus disease (COVID-19) ("Disease") and the risk that I may be exposed to, or contract the Disease or other infectious diseases by traveling to and from, and participating in, the Event and otherwise being on the Premises. I understand and acknowledge that such exposure or infection may result in illness, personal injury, psychological injury, pain, suffering, temporary or permanent disability, death, and/or financial loss. I understand that EAST cannot guarantee that I will not become infected with the Disease or other infectious diseases while on the Premises or participating in the Event and that being on the Premises or participating in the Event may increase my risk of contracting the Disease. NOTWITHSTANDING THE RISKS ASSOCIATED WITH THE DISEASE, I ACKNOWLEDGE THAT I AM VOLUNTARILY ENTERING THE PREMISES TO PARTICIPATE IN THE EVENT WITH KNOWLEDGE OF THE DANGER INVOLVED. I HEREBY AGREE TO ACCEPT AND ASSUME ALL RISKS OF ILLNESS, PERSONAL INJURY, PSYCHOLOGICAL INJURY, PAIN, SUFFERING, DISABILITY, DEATH, AND/OR FINANCIAL LOSS RELATED TO THE DISEASE, ARISING FROM MY BEING ON THE PREMISES OR ATTENDING THE EVENT, WHETHER CAUSED BY THE ORDINARY NEGLIGENCE OF EAST OR OTHERWISE.

2. I hereby expressly waive and release any and all claims, now known or hereafter known, against EAST, and the American College of Surgeons, and each of their officers, directors, employees, volunteers, contractors, agents, affiliates, representatives, members, successors, and assigns (collectively, "Releasees"), on account of personal or psychological injury, illness, pain, suffering, disability, death, or financial loss arising out of or attributable to my being on the Premises or participating in the Event and being exposed to or contracting the Disease, whether arising out of the ordinary negligence of EAST or any Releasees or otherwise. I covenant not to make or bring any such claim against EAST or any other Releasee, and forever release and discharge EAST and all other Releasees from liability under such claims. This waiver and release does not extend to claims for gross negligence, willful or wanton misconduct, or any other liabilities that Illinois law does not permit to be released by agreement.

3. I am familiar with federal, state, and local laws, orders, directives, and guidelines related to the Disease, including the Centers for Disease Control and Prevention ("CDC") guidance on the Disease. I will comply with all such orders, directives, and guidelines while on the Premises or participating in the Event, including requirements related to hand sanitation, social distancing, contact tracing, and use of face coverings. I will also follow all instructions of EAST and the operator of the Premises while participating in the Event related to health and safety measures. I understand that upon arrival at the Premises, I may be required to satisfy certain health protocols set by EAST as a condition for ENTRY, such as presenting proof of full vaccination against COVID-19, or a negative COVID-19 test. I acknowledge that if I do not present the documentation required by EAST or otherwise cannot satisfy the health protocols, I will not be permitted to enter the Premises or attend the Event.

4. I confirm that if I am experiencing symptoms of the Disease (such as fever or chills, cough, shortness of breath or difficulty breathing, muscle or body aches, new loss of taste or smell), or have a confirmed or suspected case of the Disease, I will not attend the Event.

5. This Release, along with the terms of the EAST Registration Form, constitute the entire agreement of EAST and me with respect to the subject matter contained in this Release and supersedes all prior and contemporaneous understandings, agreements, representations, and warranties, both written and oral, with respect to such subject matter. If any term or provision of this Release is invalid, illegal, or unenforceable, such invalidity, illegality, or unenforceability shall not affect any other term or provision of this Release or invalidate or render unenforceable such term or provision in any other jurisdiction. This Release is binding on and shall inure to the benefit of EAST and me and our respective successors and assigns. All matters arising out of or relating to this Release shall be governed by and construed in accordance with the internal laws of the State of Illinois without giving effect to any choice or conflict of law provision or rule (whether of the State of Illinois or any other jurisdiction). Any claim or cause of action arising under this Release may be brought only in the federal and state courts located in Cook County, Illinois and I hereby consent to the exclusive jurisdiction of such courts.

Health and Safety Protocols

To ensure safety for all in-person participants in Arizona:

- Masks are recommended and optional.
- All meeting attendees should be up to date with COVID-19 vaccinations and recommended boosters per CDC recommendations.
- Attendees should test prior to travel and refrain from participating in EAST events if symptoms of COVID-19 or other illness exists.



WHAT TO DO IN TUCSON

Thank you to EAST Member, Dr. Christina Colosimo for Compiling this Information.

In Tucson, there are several family-friendly activities close to the JW Marriott Tucson Starr Pass Resort & Spa. Here are a few options along with the distance from the resort:

- 1. Reid Park Zoo** - https://reidparkzoo.org/?utm_source=google&utm_medium=organic&utm_campaign=GMB
Description: A 24-acre zoo featuring a variety of animals from around the world, including elephants, lions, giraffes, and more. Visitors can enjoy educational exhibits, interactive experiences, and special events.
Address: 3400 E Zoo Ct, Tucson, AZ 85716
Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 7 miles
- 2. Children's Museum Tucson** - <https://childrensmuseumtucson.org/>
Description: A hands-on museum designed for children ages 0-10, offering interactive exhibits and educational programs focused on science, art, and culture. Kids can explore, create, and learn through play.
Address: 200 S 6th Ave, Tucson, AZ 85701 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 6 miles
- 3. Arizona-Sonora Desert Museum** - <https://www.desertmuseum.org/>
Description: A renowned museum and zoo dedicated to showcasing the diverse flora and fauna of the Sonoran Desert region. Visitors can see desert animals, native plants, and geological formations while learning about desert ecology and conservation.
Address: 2021 N Kinney Rd, Tucson, AZ 85743 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 8 miles
- 4. Old Tucson** - <https://oldtucson.com/>
Description: A historic western film studio and theme park where visitors can step back in time to the days of the Old West. The park features live entertainment, stunt shows, historic buildings, and rides inspired by classic western films.
Address: 201 S Kinney Rd, Tucson, AZ 85735 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 7 miles
- 5. Pima Air & Space Museum** - <https://pimaair.org/>
Description: One of the largest aviation museums in the world, featuring over 350 historic aircraft and spacecraft. Visitors can explore exhibits on aviation history, view iconic planes, and even take tram tours of the museum's vast outdoor aircraft collection.
Address: 6000 E Valencia Rd, Tucson, AZ 85756 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 14 miles
- 6. Trail Dust Town** - <https://www.traildusttown.com/>
Description: A western-themed shopping and entertainment complex featuring shops, restaurants, and attractions for the whole family. Highlights include a vintage carousel, stunt shows, and the Museum of the Horse Soldier.
Address: 6541 E Tanque Verde Rd, Tucson, AZ 85715 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 10 miles
- 7. Flandrau Science Center & Planetarium** - <https://flandrau.org/>
Description: A science museum and planetarium located on the University of Arizona campus. Visitors can explore hands-on exhibits on topics such as astronomy, physics, and natural history, and enjoy immersive planetarium shows.
Address: 1601 E University Blvd, Tucson, AZ 85719 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 8 miles
- 8. Mini Time Machine Museum of Miniatures** - <https://theminitimemachine.org/>
Description: A unique museum showcasing an extensive collection of miniature art and dioramas. Visitors can marvel at intricately detailed miniatures depicting scenes from various time periods and cultures.
Address: 4455 E Camp Lowell Dr, Tucson, AZ 85712 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 13 miles



WHAT TO DO IN TUCSON (continued)

9. **Kartchner Caverns State Park** - <https://azstateparks.com/kartchner/>
Description: Home to stunning limestone caves featuring unique formations such as stalactites, stalagmites, and helictites. Visitors can take guided cave tours to explore the underground wonders and learn about the geology and ecology of the caves.
Address: 2980 AZ-90, Benson, AZ 85602 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 65 miles (about 1 hour's drive)
10. **Tucson Botanical Gardens** - <https://tucsonbotanical.org/>
Description: A tranquil oasis showcasing a diverse collection of desert plants, exotic flowers, and themed gardens. Visitors can stroll through paths lined with colorful blooms, relax in shaded areas, and enjoy special events and workshops throughout the year.
Address: 2150 N Alvernon Way, Tucson, AZ 85712 Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 10 miles

These hiking trails offer a range of options for outdoor enthusiasts, from easy walks to challenging hikes, all within a short distance of the JW Marriott Tucson Starr Pass Resort & Spa.

1. **Tumamoc Hill Trail** - <https://tumamoc.arizona.edu/tumamoc-hill/walk-hill>
Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 4 miles Description: Tumamoc Hill is a popular hiking spot known for its steep incline and panoramic views of Tucson and the surrounding mountains. The trail is paved and accessible to hikers of all levels.
2. **Starr Pass Trailhead** - <https://www.visittucson.org/listing/starr-pass-trail-tucson-mountains/22716/>
Distance from JW Marriott Tucson Starr Pass Resort & Spa: 1.3 miles
Description: The Starr Pass Trailhead offers access to a network of trails in the Tucson Mountains, including the Yetman Trail and the Bowen Trail. Hikers can enjoy scenic desert landscapes and views of the city.
3. **Sweetwater Preserve** - <https://www.pima.gov/1292/Sweetwater-Preserve>
Distance from JW Marriott Tucson Starr Pass Resort & Spa Approximately 5 miles
Description: Sweetwater Preserve features a network of trails that wind through desert terrain, offering opportunities for hiking, mountain biking, and horseback riding. The trails are well-marked and range in difficulty.
4. **Saguaro National Park - Tucson Mountain District** - <https://www.nps.gov/sagu/index.htm>
Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 10 miles Description: Saguaro National Park's Tucson Mountain District offers several hiking trails showcasing the iconic saguaro cactus and Sonoran Desert landscape. Popular trails include the Valley View Overlook Trail and the Signal Hill Trail.
5. **Gates Pass Trailhead** - <https://www.nps.gov/places/gates-pass-trailhead.htm>
Distance from JW Marriott Tucson Starr Pass Resort & Spa: Approximately 9 miles Description: Gates Pass Trailhead provides access to trails in the Tucson Mountains, including the Hugh Norris Trail and the Golden Gate Mountain Trail. Hikers can enjoy scenic views and diverse desert vegetation.

For more information and Things to Do in Tucson visit: <https://www.visittucson.org/things-to-do/>