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Methods and Considerations for Autologous Bone Graft Processing

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JOURNAL DEADLINES The deadline for editorial copy is 8 weeks prior to the cover date (eg, the deadline for the July issue is May 1).

POSTMASTER Send address corrections to The Surgical Technologist, 6 West Dry Creek Circle, Suite 200, Littleton, CO 80120-8031.





Methods and Considerations for Autologous Bone Graft **Processing**

LISA O'SULLIVAN, BSc, PHD

With over two million bone grafting procedures performed annually worldwide - 500,000 of those in the United States alone – the demand for this surgical procedure continues to grow. As the healthcare sector experiences a severe skill shortage, protecting and retaining skilled staff is of the utmost importance for patient care, staff morale, and the bottom line. Understanding the implications of time, quality, safety, and costs in the operating room when it comes to autologous bone grafting is crucial to meeting surgical demand.

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Connect with AST on LinkedIn and start growing your professional network!

The Foundation for Surgical Technology DUSTIN CAIN, CST, FAST BOARD MESSAGE

he AST Board of Directors would like to take a moment to say thank you to all of the surgical technologists who just survived the busy season. We know you worked long hours, missed time with your family, and hopefully got to enjoy a potluck, or pizza at minimum. Your dedication to your patients is insurmountable and we can never thank you enough.

Now I would like to tell you about one of the best projects I have ever had the privilege to be a part of: the Foundation for Surgical Technology. The Foundation was created in 1997 to provide scholarships to surgical technology students. In 2016, the NBSTSA joined forces with AST to support and help underwrite the Foundation. The Foundation Committee is made up of members from both AST and the NBSTSA - it is truly a joint effort. In 2022, the Foundation has awarded over \$400,000 to around 450 students and we are getting ready to give out even more scholarships in 2023.

Students can apply for a scholarship by going to www. ffst.org and clicking academic scholarships. Parts of the application may take some extra time to complete, so make sure to prepare for the March 1st deadline. If you are about to graduate, no worries. You will still be eligible to receive a scholarship as long as you are a student when you apply. Here are some helpful hints that the panel considers when reviewing your application:

- Have someone proofread your application. We are not English majors, but proper grammar goes a long way.
- We encourage you to brag about yourself. Tell us how you have gone above and beyond.
- We want details. Avoid answering questions with only one sentence or just one word.
- We receive over 100 applications per year so take a few minutes to tell us how you stand out from the rest.
- Provide your references with details about you and

what you are applying for. Make sure they know how much this scholarship means to you.

Student scholarships are just one part of the Foundation. The Foundation also offers medical mission scholarships, Constellation Awards for educators, and military scholarships. The medical mission scholarships are available to members who have served on a medical mission. The Foundation will reimburse you for expenses accrued during your trip. Even if you have been on an AST-sponsored medical mission, the Foundation will reimburse you for expenses that AST didn't cover.

Constellation Awards are presented to surgical technology educators. The deadline has already passed for 2023 awards as they will be presented at the upcoming Educator's Conference in Savannah. The application for the 2024 awards will open soon.

Military scholarships are provided to military members so they can attend the AST's national conference. The Foundation has a hard time providing these scholarships as our military members can move frequently in their service to our country. Help us spread the word to any military member you know and have them apply. We would love to provide them with the experience of conference.

In closing, I must take a moment to thank all of the people that make the Foundation possible. Many volunteers have spent countless hours reviewing applications, fundraising, revising applications, promoting the Foundation, and even donating to the cause. The AST Board of Directors, the NBSTSA Board of Directors, and even the board of directors from state assemblies continuously support the Foundation through their gracious donations. Thank you! If you would like to consider donating to the Foundation, please go to www.ffst.org.

**All applications must meet requirements that are not published in this article and can be found at www.ffst.org.

2023 CALL FOR CANDIDATES

AST is seeking the services of dedicated individuals interested in becoming part of AST's leadership including national officers and members of AST national committees. In 2023, there will be six vacancies on the AST Board of Directors. Candidates for the Board of Directors, including the offices of President, Vice President and Treasurer, will be elected by the House of Delegates at the AST Surgical Technology Conference in Chicago, May 25-27, 2023.

President - Two-Year Term

Vice President - Two-Year Term

Treasurer - Two-Year Term

Board of Director - Two-Year Term

Board of Director - Two-Year Term

Board of Director - Two-Year Term

Interested candidates should review the eligibility requirements on the AST website and complete their CV and Consent by January 15, 2023.

Contact Charlotte Stranahan, administrative coordinator, at cstranahan@ast.org or 800-637-7433, ext 2501 with questions.

Consent to Serve applications are due January 15, 2023.





EVENTS

EDUCATORS! IT'S NOT TOO LATE TO REGISTER FOR OUR EDUCATORS CONFERENCE IN SAVANNAH



At AST's 2023 Educators Conference your surgical technology peers will highlight the topics that matter the most. From classroom to clinicals, to leadership and networking, you'll be among professionals who understand exactly what you deal with day in and day out as you work hard to advance the profession and set the stage for future surgical technologists.

When you join us in Savannah, you'll earn at least 15 CEs*, connect with like-minded professionals and have multiple opportunities to engage with industry partners, socialize with friends - new and old - and be inspired by new technology, new solutions and a camaraderie that only this group understands.

You'll be able to indulge in the history and charm of the city while taking in its period architecture and immaculate gardens, which is the perfect cure for the winter blues. Explore its cobble-stoned squares, city parks dotted with oak trees and Spanish moss and sample its legendary regional cuisine. Add in an event designed just for you our surgical technology educators - and it's bound to be an event to remember while you take some time for yourself to reflect and recharge.

Marriott Savannah Riverfront 100 General McIntosh Boulevard Savannah, GA 31401

February 10-11, 2023

- Registration rate AST members: \$275
- Room Rate: \$198 plus taxes (single/double occupancy)
- To receive the group rate, reservations need to be made before January 19, 2023 or until the room block is full.
- To make a hotel reservation, visit the AST site or call.
- Parking \$30 per day Register today by visiting our website.



GET READY FOR CHICAGO! AST'S 53RD SURGICAL TECHNOLOGY CONFERENCE

Chicago

May 25-27, 2023

Sheraton Grand Chicago Riverwalk

We can't wait to host you for our annual national conference in the great city of Chicago! With our event hotel right on the river, and 1 mile from Navy Pier and top-rate restaurants and shopping, it's the perfect location to earn CE, learn from nationally ranked surgeon speakers, network with new and old friends alike, explore new and advancing technologies presented from attending partners and celebrate with AST's social events.

More information and registration coming in February!

SCHOLARSHIPS

STUDENTS! APPLY FOR A FOUNDATION FOR SURGICAL TECHNOLOGY STUDENT SCHOLARSHIP

The Foundation for Surgical Technology is committed to helping surgical technology students pay for tuition or pay off their educational debt. If you have the desire and ability to pursue a career in the operating room and need financial assistance, you should apply for a scholarship.

Deadline

Scholarship applications are due by March 1 annually. Scholarship award amounts range from year to year.

Eligibility

To be eligible for the Foundation's academic scholarships, you must demonstrate superior academic ability, have a need for financial assistance and be enrolled in an accredited program, thus making you eligible to sit for the national certification exam through NBSTSA.

Application

The Foundation's online scholarship application form must be completed in one sitting. Please be prepared with the following information before you begin:

- · Your contact information, including mailing address and email address.
- The name and mailing address of your surgical technology program.
- Be prepared to write compelling answers to the following questions: Why you have chosen to become a surgical technologist? What your plans are after school?
- Two letters of recommendation from the following categories:
 - One letter must come from a clinical coordinator, program director or clinical instructor.
 - One letter must come from a surgical services O professional (CST, CSFA, nurse, surgeon, etc). If you are not yet in the clinical portion of your program, your second LOR may come from another role listed in the first category but not used in the first LOR.

Additional Requirements

If you are awarded a scholarship, you must join your

national professional organization, the Association of Surgical Technologists (AST), and submit your statement before being awarded your scholarship. Student member rates are \$45. Scholarships are announced in May.

MEMBER BENEFITS

Being a member of AST really does have its benefits! Not only are you part of the largest organization that is focusing on surgical technologists, but

- Automatic transfer of CE credits to the National Board of Surgical Technology and Surgical Assisting (NBSTSA).
- Automatic recording of CE credits earned through AST online offerings and earned at AST events such as the national conference.
- Submittal of CE credits at any time during your membership so you don't lose the valuable certificates of completion/attendance.
- Maintenance of your CE credit certificates for 5 years.
- Annual CE credit letter a tally of how many credits you earned throughout the year.
- · Low membership fee. AST has kept the low fee a priority while other associations have raised its membership fees.
- Cost savings when registering for AST events, such as the national conference and Educators Event.
- State-specific legislative efforts driven by AST National to further along the profession.
- Legislative updates and support for your state.
- Access to the Map of State Laws.
- Discounted CE opportunities that are offered by AST, including CE Credit Packages.
- Having a say when it comes to your state's assembly board. Active members get to vote for their state assembly Board of Directors.
- Communications including The Surgical Technologist, monthly e-newsletters, AST social media sites, including special professional groups on LinkedIn, Facebook and more.
- · Leadership opportunities to serve on state assembly and national boards as well as state and national committees.
- · Scholarship opportunities for students, educators and CSTs.
- The AST Career Center, where you can post your resume and obtain information on job openings.

DISCOUNTS

Member-Get-A-Member

Earn two or more months of FREE membership with the Member-Get-A-Member program. Recruit colleagues and AST will extend your membership by the appropriate number of months. Here's how:

- Recruit a valid new member at the one-year membership rate of \$80.
- Make sure that each person you recruit provides AST with your name and your AST member number when filling out their application.
- After AST receives the recruited member's application, we will extend your membership by two months for each person you recruit.
- Recruit two members at the \$80-level, and we'll extend your membership by four months! The more people you recruit, the longer your membership gets extended. Bonus membership months are not applicable to members who recruit themselves, students or retired/disabled members. No substitutions will be permitted. Your membership must be current to receive the bonus months. Potential members MUST supply your name and your AST member number in order for you to receive bonus membership months. If a person's membership has lapsed for more than a year, they are considered a new member.

Reach out to our Member Services team at 1-800-637-7433 for more information.

MILESTONES

HAPPY ANNIVERSARY!

Congratulations to the following state assemblies as they celebrate anniversaries this month! AST appreciates your hard work, dedication and all your years of service for making our state assemblies the backbone of this organization.

New Mexico – 16 years



We are always looking for CE authors and surgical procedures that haven't been written about or the latest advancements on a commonplace surgery. You don't have to be a writer to contribute to the Journal. We'll help you every step of the way, AND you'll earn CE credits by writing a CE article that gets published! Here are some guidelines to kick start your way on becoming an author:

- An article submitted for a CE must have a unique thesis or angle and be relevant to the surgical technology profession.
- The article must have a clear message and be accurate, thorough and concise.
- It must be in a format that maintains the Journal's integrity of
- It must be an original topic (one that hasn't been published in the Journal recently.)

How to Get Started

The process for writing a CE can be painless. We are here to assist you every step of the way and make sure that you are proud of your article.

- Write to communications@ast.org, and state your interest in writing, and what topic you would like to author.
- Submit an outline of your proposed topic for review. Once the outline is returned to you for approval, begin writing your manuscript. Getting your outline approved will save you time and effort of writing a manuscript that may be rejected.
- Submit your manuscript, as well as any art to illustrate your authored topic. You will be notified upon receipt of receiving the manuscript and as well as any changes, additions or concerns.

Things to Remember:

- Length: Continuing education articles should run a minimum of 2,000 words and a maximum of 5,000 words.
- References: Every article concludes with a list of ALL references cited in the text. All articles that include facts, history, anatomy or other specific or scientific information must cite sources.
- Copyright: When in doubt about copyright, ask the AST editor for clarification.
- Author's Responsibility: All articles submitted for publication should be free from plagiarism, should properly document sources and should have attained written documentation of copyright release when necessary. AST may refuse to publish material that they believe is unauthorized use of copyrighted material or a manuscript without complete documentation.

Don't delay! Become an author today. Write to us at communications@ast.org



Register Now!

Mark your calendars and get ready to be swept away in southern charm when we head to Savannah in February.

February 10-11, 2023 Savannah Marriott Riverfront

Come see why it's called one of the world's friendliest cities while expanding your professional development and network with the best educator group in the country!

Visit the AST site to view the full agenda and to register.





Listen to episodes featuring all facets of the surgical technology profession on Apple Podcasts, Google Play or anywhere else you listen to podcasts.





For more information, visit https://thescrublifepodcast.wordpress.com/



Advance Your Knowledge, Update Your Skills and Earn CEs

FREE CEs FOR 2023.

Check out the new free CEs for 2023 - an exclusive AST member benefit. Each year, members receive 3 CEs just for being a member. To view this year's free CE, log into your member account on the AST website at www.ast.org.

Whenever. Wherever. AST is making continuing education more accessible—more convenient—and even FREE. Now you can look, listen and learn from our quality education presentations that have been archived from national conferences and advanced specialty forums. Specialty topics range from orthopedics, OB/GYN, general and neurosurgery. You will actually see the medical professionals and slides as they were presenting their information. Each presentation is coded by specialty.

Topics include Intrauterine Repair for Spina Bifi da, Pelvic and Acetabular Surgery, Infertility, Drug Abuse During Pregnancy, ACL Surgery, Issues in Patient Care, Advances in Spine Surgery, Epithelial Ovarian Cancer, and Preventing Preterm Delivery. Any or all are free to watch and study.

Whenever you're ready, take the examination—there is absolutely no charge. If you pass, you will be off ered the opportunity to purchase the accompanying CE credit and register it with AST at a very affordable price.

LOG ON TO THE AST CONTINUING EDUCATION RESOURCE CENTER TODAY AT:

www.ast.org

Resolutions LISA A DAY, CST, CSFA, FAST, CHAIR STATE ASSEMBLY



hen contemplating the topic this month, I reflected on what January signifies to me, finding that I was examining my own attitudes on a personal and professional level. January is the month of beginnings. "Out with the old and in with the new"... the prover-

bial rhetoric that goes along with the start of every new year. But we also must ask ourselves honestly, what exactly does that mean? Why do we make resolutions? Are they goals, or are they promises to ourselves? Why do so many resolutions fail? Do we indeed leave the past behind and embrace new opportunities? Do we set ourselves up to be better and do better, or do we hang on to the old "we've always done it this way" attitude and resist when changes occur in our lives? We are guilty of hanging on to the past, as it is easier and safer than charging into the unknown. We are afraid of difficulties and failure, and its authentic human nature to be selfpreserving and to like the feeling of being comfortable. But as we know all too well, that does not work in our profession. As healthcare providers, we must accept advancements and changes, as medicine can never be stagnant and will always continue to evolve. We must embrace, learn, and grow with changes, and we must be able to transfer that same energy of movement into our attitudes and behaviors in all aspects

With the new year upon you, ask yourself how you embrace changes, what do you contribute, and how you are making a difference? How do you rate and gauge your own professional presence? Are you a surgical technologist or surgical assistant only when you are within the walls of the OR? Or do you carry the pride and heart of this profession in all aspects of your life? Are you a willing participant who strives to be effective and help to move your career for you? And lastly, are these questions that can translate to goals for your new year?

In about every discipline in healthcare, there is an organization that stands for those in that profession. The Association of Surgical Technologists is our professional organization and is only as strong as its membership and the contributions that those members make. WE are AST. We are enthusiastic members who form the state assembly leadership teams, committees, the national board, and all those in between, all who support the mission of AST by spending countless volunteer hours working towards the common goal of professional promotion, advancement, and the safety of our surgical patients. We continuously fight to protect our credentials, our positions, and roles, and we continue to fight for one another, and all for our patients.

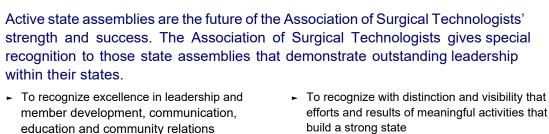
On behalf of all those who share the passion for our profession and organization, we encourage you to bring your thoughts and ideas forward, immersing yourself in the goal of being a part of the profession's growth. If you do not agree with something, position yourself to work towards changes. Challenge yourself to make a meaningful and attainable New Year's resolution. Instead of asking what is being done for you, answer yourself with the simple question of what can I do? Attending your state assembly meetings, volunteering to host, or even presenting a topic at a workshop are all things that will enhance your own presence in your profession. (Did you know that you can earn extra CEs by being a presenter?) Be involved in the elections, run for an open position, or if you do not feel confident or want to learn more, at least be a voice that decides who you want to represent you. Be there to vote! You might be amazed at the rewards you gain with the networking and collaboration achieved through joining forces and being involved.

Here's to new beginnings and revived efforts. We wish you the best in the new year and look forward to seeing old friends and fresh faces in 2023.



2022 State Assembly Leadership Achievement Award APPLY TODAY!

For application visit stateassembly.ast.org
Assistance at stateassembly@ast.org or 303.325.2516





► Held one annual business meeting per year

To encourage quality state management

- ► Held at least two workshops per year
- Annual & midyear reports submitted by deadline
- Correct number of BOD and rotation
- Create marketing activity

- ► Media coverage
- Student involvement
- Instructor involvement

To benchmark standards

- Public education
- Up to five (5) awards will be awarded per year

When your state meets the above criteria, fill out the eligibility form at stateassembly ast.org and submit your completed application to the AST National Office at stateassembly@ast.org.

Selection

All applications received in the AST national office by January 31, 2023, will be eligible for one of the five National AST Leadership Awards. Each entry is judged independently by the State Assembly Leadership Committee. Winners of the Leadership Award are determined by the cumulative total of points earned.

Your State's Reward

- 1. Every state assembly awarded the Leadership Award will receive recognition at the AST National Conference Open Ceremony.
- 2. Each state official on the state board will receive a pin representing "Winner of the State Assembly Leadership Achievement Award."
- 3. Each state winner receives recognition in a feature article about their state in The Surgical Technologist.
- 4. Each state who wins a Leadership Award will receive a pennant that announces the state as a winner of this prestigious award to display at state meetings.

Eligibility and Entry Preparation

- * Any AST approved state assembly may submit an entry.
- * Entry form must be completed by the state president for the period of January 1 December 31, 2022.
- * Entry interactive form must be typed, handwritten reports not accepted.
- * Additional information to support qualification strongly recommended, submit with application.
- * A state may receive this award once every four years from the date the award was received.
- * All entries will become the property of AST and will not be returned.
- * Winners of the Leadership Award will be determined by the cumulative total of points earned.



Entry Deadline: entries must be received by January 31, 2023 to stateassembly@ast.org



Methods and Considerations for **Autologous Bone Graft Processing**

LISA O'SULLIVAN, BSC, PHD

With over two million bone grafting procedures performed annually worldwide – 500,000 of those in the United States alone – the demand for this surgical procedure continues to grow. As the healthcare sector experiences a severe skill shortage, protecting and retaining skilled staff is of the utmost importance for patient care, staff morale, and the bottom line.

nderstanding the implications of time, quality, safety, and costs in the operating room when it comes to autologous bone grafting is crucial to meeting surgical demand and reducing the risk of surgical technologist burnout.

Overall, automation of autologous bone processing by devices such as Bone Mill+TM and Prep+TM can increase OR personnel availability by removing a time-consuming manual task, thereby allowing them to reengage with the surgical team. This provides a more standardized solution, resulting in a reliable and predictable processing time. In this period of skill shortage, protecting and retaining skilled staff can be achieved by eliminating a potentially hazardous risk through sharps injury and avoiding costly follow ups.

AUTOGRAFT BONE TISSUE: THE GOLD STANDARD FOR GRAFTING

Bone grafting is the process of transplanting bone material to repair or replace complex bone tissues during surgical procedures, such as spinal fusion and orthopedic reconstruction.

Bone graft material options today include the following:

- Autograft Patient's own bone tissue
- Allograft Human donor bone tissue
- Xenograft Bone tissue from another species
- Synthetic Engineered bone tissue

With over a century of successful clinical utilization, autograft, also known as autologous bone, is considered the "gold standard" of bone-grafting material. Autogenous bone is the only graft material that fulfills all three components of the tissue regeneration triad: osteogenesis, osteoinduction, and osteoconduction.1 It is also biocompatible, which means that bone harvested from the patient's own body has no risk of rejection or disease transfer. Autologous bone naturally contains viable cells such as osteoprogenitor cells, as well as essential molecular components like bone morphogenetic proteins (BMPs). Furthermore, autologous bone can provide a calcium scaffold required to support the new bone growth.

Autologous bone can be harvested as a tricortical graft for structural support or as a vascularized bone graft for restoration of large bone defects or avascular necrosis. A variety of sites can be used for bone-graft harvesting. The decision as to which harvest site to use is made on a caseby-case basis and depends on several factors. These factors include anatomic proximity, the volume of graft desired,

the need for structural graft, and the intrinsic biology of the donor site. The most common donor sites are the anterior and posterior iliac crest of the pelvis.^{2,3}

Allograft, which is harvested from a donor person or cadaver, can also be used, and is typically acquired through a bone bank. Unlike autografts, allografts do not form new

Bone grafting is a widely used form of tissue transplantation, second only to blood transfusion.

bone because they lack viable cells and cannot provide the osteogenic properties of autografts. Instead, the allograft works as a bridge that allows natural bone to grow through its surface. Over time, natural bone replaces the donor bone.4 Immunological reactions from an allograft may interfere with the process and can lead to graft rejection. Additionally, they carry the added risk of transmitting bacterial and viral diseases.5

Overall, autograft is considered superior to allograft because of its excellent and cost-effective combination of biologic and mechanical properties. Autologous bone grafts continue to be an important tool in the management of certain bone defects or nonunions. In one study compar-

Table 1 Manual vs Automated Processing - Average time

		Manual		Autor	nated Pro	cessing
	Clean	Mill	Overall	Clean	Mill	Overall
Average Manual Time – (Mins)	27	14	41	10	0.14	10.14
Standard						
Deviation (Mins)	±14	±9	±23	±0	±0.01	±0.06

Table 1: Average time ± StDev (Mins) taken to clean and mill 25g porcine bone across 16 participants compared with Automated Processing

ing bone graft treatment in 182 patients with long-bone nonunion, the autograft populations showed a significantly shorter union time with fewer surgical revisions and significantly lower postoperative infection rates.6

THE GROWING DEMAND FOR BONE **GRAFTS AMID CRITICAL STAFF SHORTAGES**

Bone grafting is a widely used form of tissue transplantation, second only to blood transfusion. Worldwide, there are over two million bone grafting procedures performed each year, 500,000 of which are performed the United States alone.^{7,8}

The rising incidence of bone and joint disorders along with a rapidly growing geriatric population are fueling the demand for orthopedic surgeries that use bone grafts. During the COVID-19 pandemic, elective surgeries,

including most orthopedic procedures, were postponed or canceled, which resulted in even higher demand as COVID-19 restrictions and infection rates diminished.9

In addition to procedure backlogs, the global healthcare system has been ravaged by mass resignations and staff shortages, also stemming from the recent pandemic crisis.10 Healthcare staff are experiencing heavy workloads and are at risk of burnout, a known contributor to turnover. 11 Each turnover percentage point change translates to approximately \$270,000 lost or saved per hospital. 12 The rates of burnout are consistently linked with one's role.13 Although COVID-19 has exacerbated this burnout risk, post pandemic reporting has remained higher than was pre-pandemic numbers. In studies related to burnout, targeting issues such as PPE concerns and meaningful breaks could have a real impact on levels of work-related burnout. 10,13,14

Hospitals are under increasing pressure with increased volumes of surgeries required and reduced availability of experienced and qualified staff. As of January 2022, 19-21% of hospitals in the United States reported criti-

Figure 1 Manual vs Automated Processing - Average time

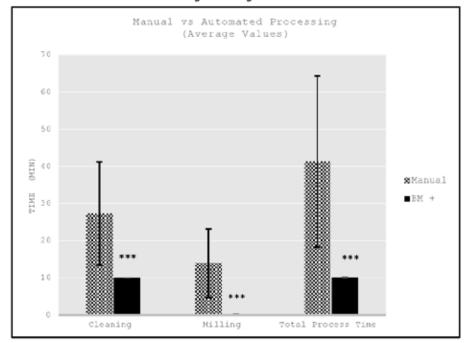


Figure 1: The bar graph representation (mean ± StDev) of average time (Mins) taken to clean and mill 25g porcine bone across 16 participants compared with Automated Processing*** Statistically significant p < 0.0001

cal staff shortages, with some states reporting percentages of hospitals with critical staff shortages as high as 52%. 15 University of Pittsburgh Medical Center is a well-respected national referral center for many surgical specialties. In May 2021, the organization implemented a five-phased approach to ensure that it could continue to provide essential surgical care when its surgical technologist and operating room (OR) nurse vacancy rate reached 30%. The institution's phased approach decreased OR availability by 15%, compensating for the 30% reduction in surgical services staff members.¹⁵

TECHNIQUES FOR PREPARING AUTOLOGOUS BONE FOR **IMPLANTATION**

To achieve the desired bone fusion, or osteogenesis, there must be a "clean" bone-to-bone contact surface between the host bone and the bone graft. Therefore, retrieval and processing of the autologous bone requires the extracted autologous bone to be cleaned and processed by in the OR. In this procedure, any residual connective tissue must be removed and then the bone milled into smaller particles before reimplantation into the patient. There are two methods that may be used during the autograft bone preparation process: manual and automated.

MANUAL CLEANING AND MILLING

To manually scrape the bone, a variety of instruments, including periosteal elevators, rongeurs, curettes, and cautery tools are employed. Manually cleaning autologous bone can be time-consuming, requires physically repetitive motions, and is dependent on the individual's skill and efficiency.1

In a recent study evaluating the quantity and quality of bone material cleaned and milled by experienced surgical technologists using manual and automated processing, it was observed that most manual preparation time for autologous bone is expended with the removal of excess soft tissue.16

On average, 60% of overall autologous bone processing time—approximately 27 minutes—was dedicated to cleaning. Consistency on timing varied substantially across the participants, with the time spent ranging between 6 and 57 ity in cleanliness varied, with three out of the 10 manually cleaned samples rated with a score of less than or equal to 4 out of a possible 10. (Figure 2)

During manual cleaning and manual milling by OR personnel, safety events were observed and recorded. Half of the participants experienced glove puncture, with two participants experiencing multiple events (glove puncture twice in one session). When surveyed, all participants selfreported hand fatigue while cleaning bone manually, 75% self-reported hand fatigue due to manual milling, and 31% had previously experiencing injury while manually cleaning bone.

TIME, SAFETY, AND COST CONSIDERATIONS

As previously mentioned, staff vacancy rates have reduced OR availability time in some hospitals by up to 15%. Reducing time associated with manual tasks increases staff availability. Rather than focusing on manual autologous bone processing tasks, surgical techs have the freedom to work smarter, reengage with additional intraoperative assis-

Figure 2 Manual vs Automated Clean







Figure 2: Photographic examples of 25g porcine bone sample following removal of soft tissue. (A) Automated Clean Sample (B & C) Manually process by expert scrub techs.

minutes, ± 14 minutes. After cleaning, the bone samples moved directly to manual milling, which required 17 \pm 13 minutes. The variability across participants was ± 20 minutes for overall processing (Figure 1, Table 1).

In the aforementioned study, automated bone cleaning consistently took 10 minutes, whereas automated milling only took 8.4 seconds.17

During the study, the quality of soft tissue removal was also assessed on a 10-point scale. The levels of overall qualtance, and continue to support their OR team. This also means that up to 40 minutes of surgical tech time can be recouped. Unnecessary clinical variation leads to increased costs, as seen in many surgical procedures. Key factors in elevated costs are extended operating-room time and failure to standardize the coordination of care. 18 Surgeons can now rely on a consistent time of 10 minutes to fully process up to 25 g of autologous bone while planning surgery and can recoup up to 30 minutes per level of harvested bone preparation.17

Time is a high-value commodity in the OR. Given that surgical care accounts for nearly one-third of all U.S. healthcare spending and the OR - valued at \$36 to \$37 per minute - is the second most expensive part of surgical care, every minute counts. 19 Stanford has shown the value down to 1 second, where a "move on 2" (moving the patient to the operating table on the count of 2 rather than 3) saved an average of \$12,000 in OR costs per year.20

One of the more serious risks to healthcare workers' well-being is injury sustained at work. Improving PPE and removing risk of injury is a core component to establishing a safe work environment according to OSHA guidelines.²¹ Sharps injuries, defined as "... skin penetrating stab wounds caused by a sharp instrument and accidents in a medical setting,"22 are a leading cause of accident sustained by healthcare workers and have been described as an "important public health concern."23

Safety is a major concern in the manual process. Over the course of the study by Ersozlu et al, 50% of the participants had experienced one or more glove punctures, and

In a recent study evaluating the quantity and quality of bone material cleaned and milled by experienced surgical technologists using manual and automated processing, it was observed that most manual preparation time for autologous bone is expended with the removal of excess soft tissue.

31% had experienced fatigue or injury while performing the cleaning task manually in an OR environment.

It is well accepted that intact gloves act as a protective barrier against blood-borne pathogens such as HIV, hepatitis B, and hepatitis C during surgery. Glove perforation is frequent but often unrecognized by surgical personnel. One study showed that of the 242 glove punctures, 176 (72.7%) were not noticed by the operative team members and were only detected after the operation.24

Not only does the risk of exposure to infectious disease need to be considered, but the psychological impact can also result in long-term issues that affect the wellness of skilled staff in several ways. Reports show that post-traumatic stress disorder, anxiety, depression, insomnia, and loss of appetite may result from sharps injury. 25,26

The aggregate direct and indirect cost of a sharps injury was calculated to be between \$650 and \$750, encompassing laboratory fees, prophylactic treatment, and lost productivity. The costs increased when HIV-infected patients were identified, driving the amount up to \$2,456. These figures are conservative, as the review did not include the cost of treating an occupational infection, litigation, or compensation. From 2012 to 2017, the National Health Service in the United Kingdom paid out over £4,000,000 to 1,213 claimants.^{27,28}

In a value-based health care environment struggling with adequate skilled staffing, the impacts of time, quality, safety, and burnout in the OR must be priority considerations when determining the best method for autologous bone processing. Automated bone cleaning and milling is a solution to meeting the current challenges.

For information about the indications and intended use of the Bone Mill+TM and Prep+TM, visit www.strykerpoweringgold.com

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Methods and Considerations for Autologous Bone Graft Processing

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- 1. Autografts are bone tissue from:
- An engineered source
- **Another species**
- A human donor
- The patient
- The most common donor sites are:
- Anterior iliac crest of the pelvis
- Superior iliac crest of the pelvis
- Posterior iliac crest of the pelvis
- Both a and c
- 3. True or false: Bone grafting is a widely used form of tissue transplantation, second only to blood transfusion.
- False
- How many bone graft procedures occur in the US annually?
- 250,000
- 500,000
- 750,000
- d. 1 million

- 5. On average, autologous bone processing time takes:
- **a.** Approximately 21 minutes
- Approximately 15 minutes
- Approximately 27 minutes
- **d.** Approximately 32 minutes
- 6. An allograft is bone tissue from:
- A human donor
- The patient
- From another species
- d. Engineered components
- 7. The decision as to which harvest site to use is made on a case-by-case basis and depends on several factors including:
- a. Anatomic proximity
- **b.** The volume of graft desired
- c. The need for structural graft
- d. All of the above
- 8. True or false: Autogenous bone is the only graft material that fulfills all three components of the tissue regeneration triad.
- a. True
- **b.** False

- 9. Unlike autografts, allografts do not form new bone because:
- **a.** They lack viable cells.
- b. They cannot provide osteogenic proper-
- c. Both a and b
- d. Neither a and b
- 10. How many methods are there to prepare the autograft bone process?
- **b.** 2
- **c.** 3

METHODS AND CONSIDERATIONS FOR AUTOLOGOUS BONE GRAFT PROCESSING #469 JANUARY 2023

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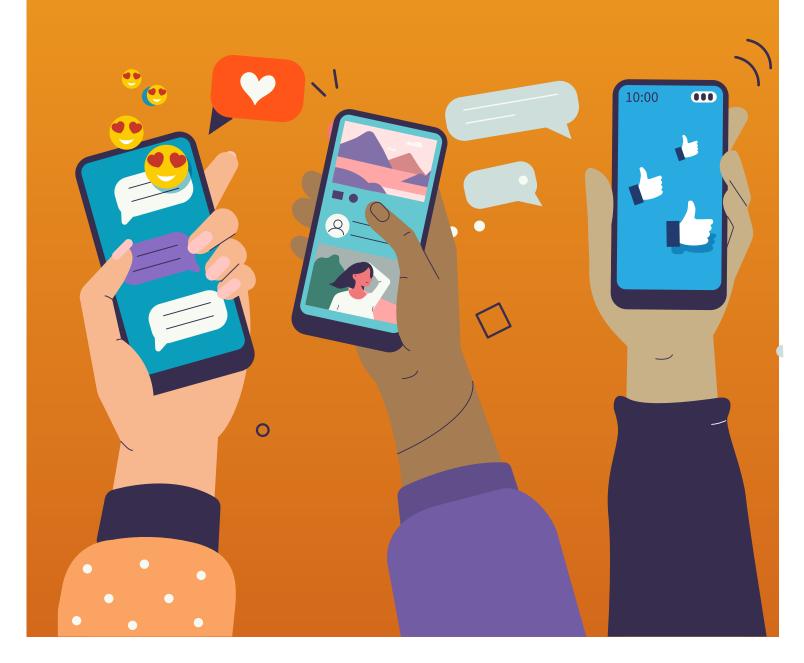
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- Excellent personal and verbal communication skills for interacting with the AST membership, boards, committees, and staff.
- Solid research skills that include the ability to gather and collate information about a topic and present in such a manner to be easily interpreted.

Skills Preferred But Not Required

- Associate degree or higher.
- Experience in surgical technology education such as an adjunct instructor for an accredited program, Clinical Educator at place of current employment, or preceptor.
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Kareem L. Russell, cst, csfa MD
Stephanie Rymer, cst
David John Salo, cst, csfa MN
Eric Lee Sansom, CST, CSFAOR
Kim M. Sapit, cstTX
Audrey A. Savino, cst IL
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Sharon S. Schuster, CST, CSFA LA
Marcia Schwer, CSTCT
Jo Ann Rae Scribner, cst WI
JU AIIII NAC JUIDIICI, USI WI
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Cathy Denice Seagle, CST, CSFA TN
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX
Cathy Denice Seagle, CST, CSFA TN
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFAGA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFAGA Dawn L. Sendon, CSTMT
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFAGA Dawn L. Sendon, CSTMT Dixitkumar Govindlal Shah, CST
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFAGA Dawn L. Sendon, CSTMT
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA
Cathy Denice Seagle, CST, CSFA TN Mary E. Sedgwick, CSTTX Benjamin Larry Sellers, CST, CSFA

Shannon Dean Stipe, cstFL
Melissa Ann Stolp, cst MN
Rocky Todd Stonebreaker, cst NV
John Richard Strobel, CST, CSFA MO
Denise A. Sullivan, CST, CSFA MA
Tiffanie L. Sweatman, cst, csfA SC
Robin R. Szarmach, FAST IL
Sherry Ann Taylor, CST, CSFA GA
Michael A. Terenzi, CST, CSFA NC
Jennifer L. Thomas IL
Angela T. Thompson, cstFL
•
Judy Ann Thompson, cst WA
Shawn Allen Thompson, CST, CSFA.
KY
Tonya LaRee Thul, cst MN
Cindy Tilton, cstCO
Cindy Lyn Torre, cstFL
Virginia D. Toth, cst SC
Lana Ann Trimble, cst, csfa KY
Patricia Dawn Trombley, CST, CSFA.
TX
Lorrie Ann Trouten, cst MN
Jerome J. Upchurch, CST, CSFA, SA-C
MD
Darcy Jo Van Horn, cst NE
Thane Adrian VanDyke, cst NV
Debora Rae VanMeter, cst VA
Joseph Gerard Veilleux, CST WI
Karen Lynn Vellucci, cst PA
Kristina Marie Vines, cst WI
Patricia Wankel, cstNY
Kimberly R. Warren, cst LA
Tracie Melinda Warren, cst GA
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Wendy J. Watson, CST, CSFA, FASTWY
Loretta L. WebbOK
Dana Lynn Wehrle, cst IL
Crystal Lee Weidman, CSFA, FAST,
LSATX
Julie K. Weiss, cst LA
Patricia C. Weiss PA
Julie Lynn Westrick, CSTIN
Marcia B. Wickman SC
Anne Marie Wieczorek, CST, CSFA
SD
Jane Miranda Wiewel, cst IL
Genevieve Marie Wilkie, cst . MN
Thomas Albert Williams, Jr., CSTCA
Mark Wade Wilms, CST, FAST CO
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cstIA
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst IA Alice Wolanin, cst FL
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst IA Alice Wolanin, cst FL Jackie Lynn Woolever, cst IN
Mark Wade Wilms, cst, FASTCO Julia Lee Wimer, cstIA Alice Wolanin, cstFL Jackie Lynn Woolever, cstIN Debra Sue Wright, cstMO
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst IA Alice Wolanin, cst FL Jackie Lynn Woolever, cst IN
Mark Wade Wilms, cst, FASTCO Julia Lee Wimer, cstIA Alice Wolanin, cstFL Jackie Lynn Woolever, cstIN Debra Sue Wright, cstMO
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst IA Alice Wolanin, cst FL Jackie Lynn Woolever, cst IN Debra Sue Wright, cst MO Polly Esther Wright, cst FL Susan Renee Wright, cst FL
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst IA Alice Wolanin, cst FL Jackie Lynn Woolever, cst IN Debra Sue Wright, cst MO Polly Esther Wright, cst FL Susan Renee Wright, cst FL Gina Lynn Yarab, cst NC
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst IA Alice Wolanin, cst FL Jackie Lynn Woolever, cst IN Debra Sue Wright, cst MO Polly Esther Wright, cst FL Susan Renee Wright, cst FL Gina Lynn Yarab, cst NC Tammy Louise Zapalac, cst TX
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst
Mark Wade Wilms, cst, FAST CO Julia Lee Wimer, cst

31+ VEARS

JI: ILANJ
Bonnie Christine Agosto, cst LA
Sheila B. Alford, cstTX
Linda Susan Amon, CST, CSFA MI
Donna Louise Anders, cst ME
Saul Andrade, Jr., CSTTX
Thaddeus J. Ann, CSFA VA
Deborah I. Ash, cst KS
Donna S. Avant, cst MO
Derrick Lerone Bailey, cstFL
Pam Ella Baker, cstNH
Theresa Marie Barkow, cst WI
Diana J. Barnett, cst MO
•
John Derek Bartlett, cstID
Linda J. Bauer, CSTTX
Robert D. Belanger, CST MI
Sandy L. Bell, cst SC
Debra J. Bellamy, CST, CSFA MO
Robert C. Bennett, cst CA
Cathy E Kaitis BethardFL
Christy M. Biggerstaff, cstIN
Danica Bijelic, cst CA
Meridith Blanford, CST, CSFATX
Sherri Marie Blankenhorn, cst NE
Tonya Lee Blevins, cstIN
Benita Elaine Blunier, CST GA
Robert Joseph Bockhorst, CSFA OH
Thaddeus M. Boczek MO
Cara Rai Boka, cstMT
Arlene Carol Boone, CST MD
local-loc
MN
Rechelle Ann Bowen, cst TN
Coralie Icilma Boxill-Haynes, CST
NY
Bernard L. Boyd, Jr., cst PA
Benson D. Bradley, Jr., CST, FASTAZ
Sharon Lynne Brattoli, cstOH
Gina A. Brendley, CST, CSFA IL
William Thomas Bresnihan, Jr.,
CSFA, FAST, CSAFL
Tara G. Bright, cst SC
Sharon A. BritoTX
Sean M. Britten, cst WA
William Edward Brokloff, cst PA
Sonia T. Brooker, cstIL
John D. Brophy, cst, csfa, fast NV
Julia A. Brown, cstFL
Mary Ann Brown, cstTN
Mary Ann Brown, cstTN Delaine Lollar Buckethal, cst TN
Mary Ann Brown, cstTN Delaine Lollar Buckethal, cst TN Sheryl D. Buckner, cstTN
Mary Ann Brown, cst
Mary Ann Brown, cstTN Delaine Lollar Buckethal, cstTN Sheryl D. Buckner, cstTN Lee Ann Buettner-Downie, cst TX Martin Daniel Bump, cst, csfA,
Mary Ann Brown, cstTN Delaine Lollar Buckethal, cst TN Sheryl D. Buckner, cstTN Lee Ann Buettner-Downie, cst TX Martin Daniel Bump, cst, csfA, SA-CCO
Mary Ann Brown, cstTN Delaine Lollar Buckethal, cst TN Sheryl D. Buckner, cstTN Lee Ann Buettner-Downie, cst TX Martin Daniel Bump, cst, csFA, SA-C
Mary Ann Brown, cst

.....NM

Kayla M. Campbell, cst	
Marilyn J. Candelaria, cst.	NN
Laura M. Cardin	MA
Dorothy A. Causer, CST, CSF.	
Jacqueline Irene Charest,	
Tamara Chow, CST, CSFA	
Angie Marie Christian, CST	N
Joan Marie Cioffi, cst	
Cinda G. Cochran, cst	G <i>A</i>
Chikela Cody, cst	N
Tamara Lynn Coffield, cst .	
Breton Kip Colaw, cst	
Deutern Lucy Colours	VV <i>r</i>
Barbara Lynn Coleman, cs	T MS
James J. Collins, CST, CSFA	
Holly Anne Colson, cst	N
Donald Otis Conaway	V/
Maria L. Concepcion	
Grace C. Cong, cst	
Lisa Renee Cooper, cst	11
Alecia E. Cornelius	
Buffie S. Cotton, cst	
Sharon Lee Crane, CST, CSFA	Fl
Michael Wyn Crest, cst, cs	FΔ ((
Holly B. Crittelli, CST, CSFA.	
Timothy J. Currie, CST	W
Jennifer T. Dahl, cst	
Tanya Denise Daktar, cst	G <i>l</i>
Beth A. Davis, cst	MN
Glennda L. Dawson, cst	
Annette Theresa Debervil	
Laura Jane DeBoe, cst	
Bobbie Louanne Decker, o	
Kathy Ann DeFeo, cst	C
Jose Luis DeLeon, CST, CSFA	T)
Shawn S. Denman, cst	
Angela D. Dixon, cst	
Berlene Dixon-Powell, csi	
Joni Lynn Dolhonde, cst, c	
Michael Dominguez	
Debbra Lisa DuMoulin, csi	ME
Renee Marie DuPont, cst .	C <i>A</i>
Carla Ann Duran, cst	
Marjorie A. Edwards	
Pamela L. Ehlert-Butler, c	
Eduardo J. Elizondo, cst, cs	SFAT)
Karen J. Ellicott, cst	
Wanda L. Elliott, CST, CSFA,	LSAΤ)
Penny Ann End, cst	
Hector Genaro Escobar, cs	
Bobbi Beth Fee, cst	
James Edward Feltman, Jr.	
CSFA	Az
Linda Louise Fetzik, cst	MN
Tracy L. Finan, cst	
Fredrick Harry Fisher, CST,	רכבא רי
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Phil V. Wilkes Fixico, cst, c	
Lou Anne Fleming, cst	NI
Sandra G. Flink, cst	

Julie L. Foster, cstTX
Patricia Fowlkes-Grate MD
Joan Ester Free, CST, CSFA VA
Denise Louise Frey, cst PA
Colleen G. Fuchs, cstIL
Cecilia Odette Gaete, cst CA
Barbara Monica Galecki, cst IL
Rosario R. Garcia, cstTX
Carey Vaughn Gardner, cst KY
Staci L. Gaunt, cst PA
Heather Allison Geronimi, CST AZ
Wayne E. GlassNY
Freda M. Goth, cst MO
Annie L. GrahamNC
Renee A. Gray, CST, CSFAFL
Angela Jean Green, cstIN
Jodi Kay Greenlee, cstIN
Christina B. Grey, cst CA
Brenda Louise Grice, CSTTX
Lesa Sue Griffith, cstOH
Michele C. Gruber, cst LA
Daniel J. Gustafson, cst CO
Marlene Gutierrez, CSTFL
Kathryn Hartley Guzik, cst, csfAAL
Stephen E. Hall VA
Steven Clair Hall, cstOH
Abby L. Haney, cstIN
Eric Clay Hardy, CST, CSFA TN
Robin Lynn Hass, CST, CSFA NV
Robert E. Helton, CST, CSFA-CVS TN
Steven E. Henderson, cst IL
Robert Hernandez, CST CA
Janet K. Herold, cstIA
Terry Michael Herring, CST, CSFA,
FASTNC
Patti Rae Hicks, cstMO
Melissa K. Higgins, cstFL
Janna Hightower, CST, CSFA MO
Barbara Jo Hilbert, CST PA
Misty Renee Hill, cst TN
Paula R. Hinkle, CST, CSFA MO
Corey Cordell Hinton, CST, CSFA AZ
Vanessa L. Hodson, cstIN LeLa C. Holloran, cstFL
Rebecca Mae Holmes, CST, CSFAMI
Lesia Gay Holt-McIlrath, cstTX
Line FranceMarie House, CST, CSFA
Carry D. Haward set sets
Garry P. Howard, CST, CSFAFL Sharlene Sanderson Hreinson, CST
UT
John C. Hubbell
Sheila Hughes MA
Berta Ventura Jacobs, cstTX
Susan Angeline Jaksa, cst, csfAMN
Pia Johnson Jimenez, CST, CSFA GA
Jacqueline Jones, CST SC
Kimberly A. Judd, cst
Teri Junge, cst, csfA, fASTWI
Thomas Paul Justice, CST, CSFA, LPN

Celeste Marie Katlic, CST MD	Stephanie Ranae Miller, CST, CSFA.
Roxanne Marie Kazmaier WI	MA
Melina C. Kearney, cst NY	Dana M. Moonen, cst, csfa NC
Dawn Etta Kee, cst, csfa MO	Edna G. Morrison, cstNY
Mechell Dawn Keesling, CST, CSFA.	Carlton James Mouton, CST CA
M0	Maria I. Muenks, cst, csfa MO
Patricia Pisano Keller, CST, CSFA GA	Michele Lea Mulkey, cstIN
	Kim David Mullins, cst MI
Roy Keller, Jr., CST, CSFA AZ	
Cynthia Anne Kelley, cst MI	Michele Davis Myers, cst GA
Shelly Marie Kelley, cst KY	Sandra E. Neal, CST, CSFA AR
Kimberly M. Kemberling, CST MN	Bradley C. Neuharth, CST, CSFA.ND
Kathy M. Kessler, cstOH	Sharon R. Newton, cst AR
Virginia Lee Kilgore, cst, csa KY	Cynthia M. Nilssen, cstTX
Gloria Elizabeth King, cst TN	Stacy Ann Norden, cst GA
John Anthony King, cst, csfa NM	Carolyn R. Norton, cst, csfa AL
Therron N. King, cst CA	Arturo Orozco, CST CA
Sally Ann Kline, cst PA	Stephanie Lynn Orr, cstIN
Tracy L. Klosterman, cstOH	Robert K. Pahs, cstIN
Anthony Roland Koebler, CST, CSFA	Patricia Ann Palenicek, CST, CSFAFL
IL	Cunthia Marie Paris, cstTX
Diane Marie Koenigsknecht, cst,	Christine Anne Parron, CSTOH
CSFAMI	Gayla Janette Patterson, cst AR
Louis Anthony Koharchik, CST, CSFA	Artina Horne Pemberton, cst NC
	Mona A. Pena, cstTX
Patricia Lynn Kress, cst SC	Sandy Champagne Phillip, cst LA
Charles D. Kreuser, cst CA	Brian Kent Phillips, cst MD
Kristine C. Krueger, CST, CSATX	Susan B. Plattner, cstIN
Cynthia K. Kutz, cstND	Janelle A. Porter, cst NE
-	Brenda Ann Powell, cst, csfaFL
Levie T. Laguitan, CST CA	
Mark Lee Lawrence, cst, csfA SC	Steven D. Powell
Kelly Ann Leckinger, CST CA	Derril S. PruittTN
Renee Dawn Lee, CST, CSFA OK	Melinda Ann Prusa, cst VA
Jill Patricia Leone, cstIL	Mary Elizabeth Pugh, cstTX
Laurietta DuLong Lewis, CST, CSFA.	Max J. QuintanaOR
FL	Sherry Lynn Radford, cst TN
Patricia E. Lewis, cstTX	Juanita May Raines, CST, CSFAFL
Melissa K. Lickfeldt CO	Bibiana Patricia Ramirez, cstNJ
Patricia Coleen Long, CST NE	Melinda Lee Rash, cstTX
Vanessa M. Lonnon, cst, csfaTX	Wendy A. Reed, CST NC
Jayne MacPherson, cst, FAST MA	Sally Elizabeth Regan, cstIN
Diane M. Maloney, cst0H	Roxanne Melissa Reid, cst NC
Anthony K. Mansinghani, cst. MT	Christina Glawe Rex, cst PA
Sandra Manwiller, cst, FAST WA	Catarino M. Reyes, Jr., CST, CSFATX
Susan Marie Marett, cstTX	Jennifer K. Rice, cstIN
Tracey Lee Marso, cst, csfa, csa PA	Carol J. Ridens, cstIN
Brian David Martin, CST, CSFA LA	Pamela J. Riley, cstTX
Dana Lynn Martin, cstTX	Robert Rivera, cstNM
Theresa Martin, CSTTX	Loretta Frances Rivers, cstFL
Timothy A. Marvin, CST, CSFA TX	Cynthia Darlene Roberson, cstOK
Ebrahim Mazahery, CST, CSFA, CSA	Sabrina A. Roberts, cst WA
	Kimberly Steward Robinson, CST.
Helen J. R. McCarthy, cst OK	LA
Laura Ann McCloskey, cst SC	Ana Maria C. Robles CA
Jill Marie McDonald, cst CA	Frank Rocha, cst
Teresa E. McDonough, cst SC	Greg Stephen Rodenmeyer, cstCO
Kathy L. McFall, cst LA	Margaret Helen Rodriguez, CST,
Lee Edwin McLeod, cstFL	
Maria L. Medina, cstFL	CSFA, FAST, BSTX
	Renae Lee Roman, cst, csfa PA
Sharon H. Milburn, CST, CSFA VA	Julie Ann Rosene, cstNC
Patty L. Millen, cst SC	Linda S. Rosenthal, cstTX
	Valerie Delet Ross, cst TN

Stephanie Ranae Miller, CST, CSFA.
MA
Dana M. Moonen, CST, CSFA NC
Edna G. Morrison, cstNY
Carlton James Mouton, CST CA
Maria I. Muenks, CST, CSFA MO
Michele Lea Mulkey, cstIN
Kim David Mullins, cst MI
Michele Davis Myers, cst GA
Sandra E. Neal, CST, CSFA AR
Bradley C. Neuharth, CST, CSFA.ND Sharon R. Newton, CSTAR
Cynthia M. Nilssen, cstTX
Stacy Ann Norden, cstGA
Carolyn R. Norton, cst, csfa AL
Arturo Orozco, cst CA
Stephanie Lynn Orr, cstIN
Robert K. Pahs, cstIN
Patricia Ann Palenicek, CST, CSFAFL
Cynthia Marie Paris, cstTX
Christine Anne Parron, CSTOH
Gayla Janette Patterson, cst AR
Artina Horne Pemberton, CST NC
Mona A. Pena, cstTX
Sandy Champagne Phillip, CST LA
Brian Kent Phillips, CST MD
Susan B. Plattner, cstIN
Janelle A. Porter, CST NE
Brenda Ann Powell, CST, CSFAFL
Steven D. Powell
Melinda Ann Prusa, cst VA
Mary Elizabeth Pugh, cstTX
Max J. QuintanaOR
Sherry Lynn Radford, cst TN
Juanita May Raines, CST, CSFAFL
Bibiana Patricia Ramirez, cstNJ
Melinda Lee Rash, cstTX
Wendy A. Reed, cst NC
Sally Elizabeth Regan, cstIN
Roxanne Melissa Reid, cst NC
Christina Glawe Rex, cst PA
Catarino M. Reyes, Jr., CST, CSFATX
Jennifer K. Rice, cstIN
Carol J. Ridens, CSTIN
Pamela J. Riley, cstTX
Robert Rivera, CST NM
Loretta Frances Rivers, cstFL Cynthia Darlene Roberson, cstOK
Sabrina A. Roberts, cst WA
Kimberly Steward Robinson, CST.
LA
Ana Maria C. Robles CA
Frank Rocha, cst
Greg Stephen Rodenmeyer, CSTCO
Margaret Helen Rodriguez, cst,
CSFA, FAST, BSTX
Renae Lee Roman, CST, CSFA PA
Julie Ann Rosene, cstNC
Linda S. Rosenthal, cstTX
Valerie Delet Ross, cst TN

Kathrun Margaret Roth, cst OH
Pamela L. Rowley, CST, CSFACT
Cheryl Rae Russell, cstMT
Cheryl L. Russell, CST, CSFA IL
Simone Marie Sackett, cst MN
Paul A. Salas, cst, csfaFL
Mary L. Sams, cstFL
Jessie San Miguel, Jr., cstTX
Penny Denise Satterfield, cst. TN
Susen Saullo, CSTNJ
Ronald Page Scott, CST, CSFAFL
Tracy A. Scott, cstTN
Cindy R. Seamans, SA-CTX
Dawn Michelle Seibert, CST TN
Victoria Lynn Seigler, cst, csfA .FL
Joan Kathryn Selburg, CST, CSFA IL
Wade Alex Shaver, CSTSD
Valeri Lynn Shaw, cstOH
Oksana C. Shnayder, cst, csfA .OH
Rebecca G. Shue, cst
Cynthia A. Shupe, cst, csfa MI
Melody Ann Sisk, CST
Billy Joe Skinner, Jr., CSTTX
Jean Mary Smith, CST, CSFANH
Lori Leneau Smith, CST, CSFA AR
Mashella Rene Smith, cst MO
Barry Miles Snyder, cstFL
Karyn S. Songer, CST, FAST CO
Benny T. Soveranez, cst NM
Lori Lee Stanley, CSTIN
Lori Lee Stanley, CSTIN Jane M. SteinerOH
Lori Lee Stanley, cst
Lori Lee Stanley, cstIN Jane M. SteinerOH Samantha C. Stevenson, cst, csfA
Lori Lee Stanley, cst

Tricia Lyn Waltz, cst PA

Carolyn A. Washington, cst.... GA

Guinevere F. Watson-Rutherford
Belinda Miller Welch, CST, CSFA KY
Robyn Lynne Wentz, CST, CSFA WA
Alberta F. Wesel, cst0H
Darlene Marie White, cstC1
Douglass Wieczorek, CST, CSFACT
Theresa Dawn Wiest, CST, CSFAFL Adell Marie Williams, CST LA
Susan K. Williams, cst KY
Helga M. Wise, cst, csfa MC
Jodie Beth WoodsID
Gregory G. Wright, CST VA
Michael Orlando Wright, CST, CSFA
SA-C, CSATX Dorothy Yackley, CSTII
Bibi Jamela Yasin, CST NY
Tammy M. Ziedy, cstTX
Alan Blake Zimmerman, CST IN
32+ YEARS
Sherri M. Alexander, cst, FASTIN
Julie Keenan Allen, cst, csfaTX
Terry Lynn Almoney, cst PA
Gertrude F. Armstrong, CST W
Marcela Artstein-Sauer, cst CA Jesse J. Austin, Jr VA
Trina Renee Backhaus, cst CA
Marilyn B. Bagen, cst VA
Marcelino Barbosa, Jr., cstTX
Sergio Javier Batiz, CST, CSFA TX

Sherri M. Alexander, CST, FASTIN
Julie Keenan Allen, CST, CSFATX
Terry Lynn Almoney, cst PA
Gertrude F. Armstrong, cst WI
Marcela Artstein-Sauer, cst CA
Jesse J. Austin, Jr VA
Trina Renee Backhaus, cst CA
Marilyn B. Bagen, cst VA
Marcelino Barbosa, Jr., cstTX
Sergio Javier Batiz, CST, CSFATX
Andrea Lynn Belanus, cst MN
Deanna Belyan, cst M0
Suzanne M. Bergeron-Harris, CST,
CSFANH
William D. Berry, CST, CSFATX
Debra Caldwell Beville, cstTX
Jeffrey Bidwell, CST, CSFA, FAST, CSA
КҮ
KY Michael Henry Blencowe, CSTNJ
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michael R. Bowen, CSTIN Stacey Ann Boxler, CSTPA
Michael Henry Blencowe, CST NJ ReVonda D. Bond-Robinson, CST
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michael R. Bowen, CSTIN Stacey Ann Boxler, CSTPA
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michael R. Bowen, CSTIN Stacey Ann Boxler, CSTPA Stephanie S. Brandenstein, CSTIN
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michele R. Bowen, CSTIN Stacey Ann Boxler, CSTPA Stephanie S. Brandenstein, CSTIN Rebecca A. Brazell, CSTSC Denise Annette Bridges, CSTTX Charlotte Ellen Brookshire, CSTGA
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michele R. Bowen, CSTIN Stacey Ann Boxler, CSTPA Stephanie S. Brandenstein, CSTIN Rebecca A. Brazell, CSTSC Denise Annette Bridges, CSTTX
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michele R. Bowen, CSTIN Stacey Ann Boxler, CSTPA Stephanie S. Brandenstein, CSTIN Rebecca A. Brazell, CSTSC Denise Annette Bridges, CSTTX Charlotte Ellen Brookshire, CSTGA
Michael Henry Blencowe, CSTNJ ReVonda D. Bond-Robinson, CSTFL Michele R. Bowen, CSTIN Stacey Ann Boxler, CSTPA Stephanie S. Brandenstein, CSTIN Rebecca A. Brazell, CSTSC Denise Annette Bridges, CSTTX Charlotte Ellen Brookshire, CSTGA Debra Lee Brown, CSTIL
Michael Henry Blencowe, cstNJ ReVonda D. Bond-Robinson, cstFL Michele R. Bowen, cstNS tacey Ann Boxler, cstPA Stephanie S. Brandenstein, cstIN Rebecca A. Brazell, cstSC Denise Annette Bridges, cstTX Charlotte Ellen Brookshire, cstGA Debra Lee Brown, cstIL Elizabeth Ann Brownlee, cstLA Teresa L. Burmester, cstMN Sandra K. Burns, cstNC
Michael Henry Blencowe, cstNJ ReVonda D. Bond-Robinson, cstFL Michele R. Bowen, cstNS Stacey Ann Boxler, cstPA Stephanie S. Brandenstein, cstIN Rebecca A. Brazell, cstSC Denise Annette Bridges, cstTX Charlotte Ellen Brookshire, cstGA Debra Lee Brown, cstIL Elizabeth Ann Brownlee, cstLA Teresa L. Burmester, cstMN Sandra K. Burns, cstNC Rita V. Champagne, cstWA
Michael Henry Blencowe, cstNJ ReVonda D. Bond-Robinson, cstFL Michele R. Bowen, cstNS tacey Ann Boxler, cstPA Stephanie S. Brandenstein, cstIN Rebecca A. Brazell, cstSC Denise Annette Bridges, cstTX Charlotte Ellen Brookshire, cstGA Debra Lee Brown, cstIL Elizabeth Ann Brownlee, cstLA Teresa L. Burmester, cstMN Sandra K. Burns, cstNC

Anna Marie Chriscoe, CST, CSFA NC Lori D. Coban, cst.....IN

Kim Renee Cole, cst, csfa......OH

Jill Renee Coles......ID

Michael Eugene Conyers, CST .. FL

Nelva Irene Cordova, cstTX

Kimberly April Cummings, CST GA
Anna M. D'Abruzzi, cstOH
Linda Mae Deitz, cst MN
Maria Felisa DeKler, cstFL
Monique M. Desautels, cst MA
Jacqueline Michele Dinkins, cst
TN
Kara Lyn Docs, cstOH
James E. Downey, cstNJ
Donna Lyn Duckworth, cst CO
Yvonne E. Edmond, cstTX
Anna M. Esseln, cst WA
Lorrie L. Etenburn, CST, CSFA CO
Elizabeth Jane Fedorko, cst PA
Julie L. Ferrin, cstMT
Wendy Marie Fink, cst PA
David Gerard Flores, CST, CSFA IL
Reginald Augustus Frederick, CST,
CSATX
Holly Ann Fritsche, cst NE
Yamile Fuentes, cstFL
Jane M. Gamblin, cstID
Sandra Lee Gaylord, CST, CSFA. MA
Gisele R. Gendreau, CST ME
Cathy Banks Gillespy, cst SC
Isabel Cristina Gonzalez, CST, CSFA
FL
Stephanie A. Graber, CSTIN
Stephen C. Green, cstTX
Dana Marie Greer, CST, CSFA AR
Kay Lynn Gregg, cst MN
Kay Lynn Gregg, cst MN Cynthia Denise Greyerbiehl, cst .
Kay Lynn Gregg, cst MN Cynthia Denise Greyerbiehl, cst . WA
Kay Lynn Gregg, cst

Sheila P. Kruse, cst KY	Sara K. Terrell, cstFL	Julie K. Gilbreath, cstTX	Zaragoza R. Portillo, cstTX	Kathleen Faye Araujo, CST, CSFAOK
Misty Ann Kuester, cstIN	Lisa M. Tiffany, cstIN	Vanessa Claire Giles, cst WA	Georgina E. Poston, CST, CSFA SC	Dana E. Bancer, cst, FASTFL
Mary J. Kunde, cst	Donovan John Traverse, cst, FAST	Tonya Michele Glocker, cst OK	Robert R. PrinceFL	Patricia Ann Beck, cstIN
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Vickie L. Kutzler, cst, sa-cFL	NC	Cindy Lou Griswold, CSTMT	Alicia K. Quine, cstTX	Deanna L. Billingsley, cst MN
Charles Lane, CST SC	Mark Christopher Trujillo, CST, CSFA	Gayle M. Gyles, CST, CSFA CA	Patricia Jane Radford, cst WA	Janet M. Block, cst MN
Suzanne E. Lantieri, cstCT	CO	Edith Marie Hagan, cst KY	Nancy Marguerite Raymond, cst.	Theresa Gail BollmanTX
Rhoda Margaret Lazar, cst IL	Cheryl A. Van Newkirk, cst MI	Rebecca Whalen Hammock, cstVA	ME	Mona L. Bourbonnais, cst, FAST.ID
Conni Maria Levesque, cstCT	Sally Jo Walter, CST, CSFATX	Carolyn Joanne Hanohano, cst CA	Laura L. Reames, cst TN	Tonja Branham, cst, csfa OK
Matthew A. Link, cst, csfaTX	Verna Dean Washington, cst GA	David Donovan Hart, cst MN	Peggy Jo Ridenour, cst, csfa IA	Candyce L. Candage, cstFL
Joel David Lovejoy, cst MN	Deborah Louise Wenzel, cst NC	Lacy A. Hebert, cst LA	Marie-Louise Riley Johnson, cst.	Michael R. Carnett, CST, CSFA AR
Marsha L. Lowe, cst0H	Elaine D. Whitney-Pierre, CST LA	Beatrice Hedberg, CST IL	MA	Jennifer Sue Castle, CST, CSFA IN
Cecelia Ann Lumpkin, cst MI	David D. Williamson, cst TN	Cindy L. Hedge, cst MO	Brenda Kay Roberts, CST, CSFA MO	Sharon Clark, cst AZ
Bruce M. Lyle, cst, FAST, BSIN	Kevin D. Wohlfiel, cst MN	Yolanda Yungco Henson, cst IL	Catherine K. Roberts, CST NE	Chechee A. Critchfield, cstTX
Christopher Robert Lynch, CST,	Cindy Lou Wolf, cstTX	Brenda L. Hess, cst VA	Charles Minuard Robinson, CST,	Julian X. Cruz, cstTX
CSFATX	Timothy P. Wolfe, cst, csfA PA	Kimberly Ernest Hickman, CST TN	CSFAOH	Mary Kay Cusack, cst, csfA, FAST SC
Susie Ann Macklberg, cst CA	Tamera G. Wood, cstTX	Jane A. Hildreth, cstNV	Emily Teresa Rogers, FAST SC	Mary Elizabeth Davis, cst GA
Mary B. MacSwain, CST, CSFA FL	Jesus Zamarripa, cstTX	Mary J. Hopper, cst	Barbara Ann Rowden, cst WA	Tammy Renee Day, cst KY
John F. Marshall, cst TN	Kimberley A. Ziemer, cst MN	Edith E. Janes, CSTGA	Sheila L. Ryan-Watson, cst IL	Lovelle L. Donahue, cst0H
Shari Marie Martin, cstID	Julie M. Zirbel, cstWI	Toni Gail Johnson, cstWI	Marilyn Denise Ryles, cst GA	Sandra Kay Dunham, cst SC
Maranda Albright Mazyck, CST SC	22 VEADS	Dawna Jo Jones, cst OK	Lavina Ember Salchow, cst MO	Joanne L. Farley, CST PA
Janet M. McCowan, cst SC	33+ YEARS	Rosalinda G. Justice, cst NM	Cherylann Marie Salva, cst MA	Jan E. Ferrara, cst LA
Sandy Novella McDowell, cst . SC	Marquelle A. Arenson, cst CA	Karen A. Kanouff, cst GA	Daniel Sanchez, CST, CSFA, OPA-C	Sondra A. Ferraro PA
Jennifer L. Memmer, cstIN	Leann M. Bailor, cstOR	Debra Sue Keyser, cst0H	TX	Deborah Lynn Fischer, cst CA
Asucena Delrosario Miles, CST NC	Maria Lynn Bain, cst, csfA, sA-c,	Markay Kifer, cstPA	Michelle Sanders, cst NE	Gerrilynne S. Flohe, cst, csfa OH
Donna Lois Miller, cst	CSAOH	Michael J. Kimmell, cst PA	Mary Linnea Sant 'Angelo, cst .CT	Philip Floth, cst NV
Rosalynn V. Muir, cstTX		Karl Zechariah Klein, cst, csfA . OK	Barbara Jean Sell, cstIN	Lillian M. FolandIN
	Janice Baker, cstTX			
Valance E. Mulkey, cst, csfa CO	Tracey Baker-Herrell, cst, csfAMO	Janet M. Koranda, cst NE	Monica Moss Shelton, CST, CSFA KY	Helen R. Foster
Angela W. Mull, cstNC	Linda Ellen Barker, cst0H	Christine K. Krejdl, cst WA	Donna Marie Smarsh, cst OH	Jose Francisco Gallardo, CST, CSFA.
Teresa M. Murphy, cst IL	Kristine Blosenski-Anklam, cstWl	Cheryl Lynn LaBombard, CSTTX	Karin Lynne Smiley, cst IL	TX
Elizabeth Jane Nier, cstIN	Heidi Ann Boese, cstWI	Felicia Marie LaGreca, cst NY	Gina Rene Smith, CST, CSFA MO	Lori B. Gaston, cst PA
Deanna K. Noe, cstTN	Martha Alison Booth, cstTX	Nicole M. Lake, CST LA	James C. Smith, cst PA	Amy Marie Gebers, CST, CSFA CA
Theresa M. Owen, cstFL	Scott Michael Boucher, CSTFL	Angela Marie Lambert, cst LA	Tanya L. Smith, CST, CSFA TN	Geralyn A. Gengler, cstIA
Jeri K. Patrick, cst M0	Eleanor Anne Bousquet, cst MA	Lillian H. Langan MI	Gwen Snider, cst MS	Janet E. GishIN
Louise B. Penley, cst TN	Zorita K. Bowen, cstIL	Claridad Lopez, cstNV	Maria A. Spandri-Guzman CA	Tina C. Godfrey, cst SC
Delores Gale Pritchett, CST, CSFAKY	Suzanne Elizabeth Brewer, CST PA	Shelly A. Lottes, cstIN	Millicent Spruill, CSTNC	Juan Sanchez Gomez, cstTX
Joseph M. Prucinsky, cstFL	Robin Elizabeth Brkic, cstID	Robert C. Mack, cstNJ	Christine Stokes, cst M0	Toni Grantham, cst CA
Tina K. Putman, cst, FAST VA	Betsy E. Brown, cstWI	Kristi L. Martin, cstIL	Janna M. ThompsonFL	Joseph Dennis Groteboer, CST MN
Craig Daniel Rabideau, cst WI		Leonel Martinez, CST, CSFATX	Tammy H. Timmons, cst SC	Jeri R. Haase-O'Brien, cst CA
Marc Ratner, cstFL	Yvette Renee Bulington, cst IN	James M. McCallum, Jr., cstFL	Dianna G. Toliver, cst, csa, RNFA, RN,	Mary Elizabeth Hanke, cst IL
Regina B. Redden, cst SC	Janine Marie Button, CST, CSFA IN	Denise L. McCarron, cstFL	CNORTX	Debra Colleen Hastings-Perry,
•	Clinton R. Cervi, CST AZ			
Brenice Williams Reid, cst NC	Diana Lee Clark, cstFL	Laurie Ann McDermott, cstTX	Jacqueline C. Torp, cstFL	CSTOR
Avis D. Reynolds, cst VA	Maxine Elizabeth Collins, CSTFL	Denise Ann McGrath, cst MA	Barbara Turcotte, CST, CSFAFL	Stacy Ann Heider, cst PA
Ann Richardson, cst MI	Debra Gail Coney, cstOH	Elaine M. Meincke, cst MN	Robert L. VanNorstran, CST TN	Nancy K. Hellowell, cst MI
Mayra Y. Rickard, cstFL	Bridget Michelle Cook, CST ME	Cindy L. MiarsIL	Nadine Lynn Vatavuk, cst PA	Angela Denise Holt Henry, cst.TX
Anna Catherine Roberts, CST CO	Karen Renee Crum, cst NC	Lisa Suzanne Miller, cst WV	Emilse Esther Villa, CSTTX	Sheriann Marie Howard, CST NY
Sheri Lynn Robinson, cstFL	Shelly L. Dias, cstSD	Michelle Washington Miller, cstTX	Angela Maria Warner, cst SC	Shannon Marie Jahns, cst, csfa ID
Angela D. Roman, cstTX	Julie A. Diedrick Cyran, cst OR	Susan Marie Mocabee, cstMT	Anita Louise Williams, CSTIN	Marla Jane Johnson, CST, CSFA KY
Melissa Jean Ross, cst NC	Karen Elaine Dixon-Pasley, cstCA	Lori M. Molus, CST, FAST MN	Joan M. Wobig, cst, csa MN	Linda M. JonesTX
Amy C. Ruiz, cstGA	Charlotte Renee Dona, cst MO	Bob M. Montoya, cst, sa-c TN	Angela Benniefield Wright, cstGA	Kay E. Keehnen, cstNV
Mohammed I. Salih, cstTX	Donna Cocchi Dunn, cst GA	Stephanie Kay Morris, cstFL	Vicki Lynn Wright, cstIN	Carolyn Christine Kelley, cstTX
Maurice A. Salim, cst PA	Dee Anne Edwards, cst NC	Desiree Ann Motiff, CST, CSFA WI	Patricia Marie Wykoff, cst VA	Julie E. Kissel, cstIN
Amy Lynn Schneiderman, cst IL	Michael W. Edwards AL	Stacey I. Naughton, cstFL	Tamara L. Yarmey, cst	Kelli Ann Klinges, cst PA
Cecilia J. Schrack, cst DE		Pamela Elaine North, cst OK	Lisa A. Young, cstIN	Shirley A. Kroll, cstWI
	Monciella J. Elder GA			
Dennis M. Sheridan, cst, csfA IL	Stacey Yevonne Ellis, cstTX	Jeri Leigh Osborne, CST NC	Barbara M. ZarbatanyFL	Ronald O. Kruzel, cst, FASTCO
Lydia Elise Smith, cstTN	Teresa L. Ervine, cst VA	Jose Javier Palacios, cst, csfaTX	34+ YEARS	Darlene M. Lanegrasse, cst LA
Carrellyn Renay Steinert, CST NM	Raul S. Escobar, cstTX	Christine Lopez Parr, CST, CSFATX		Maria Lynne LaWarre, cstOH
Jodi Lynn Stiffler, cst PA	Maria Reyna Fineman, cstTX	Laurie L. Pechous-Clark, cst . WA	Cynthia Maria Abejuro, cst MI	Dawn Lindow, csfaFL
Lisa Marie Strohm, cstFL	Kimberly Lynn Fleischhauer, cst,	Stacy Lynn Pettit, cst WI	Jennifer Lynn Agnoni, cst PA	Deborah K. Lindsey, cst MI
Theresa Lynn SweetTX	CSFAIN	Catherine M. Pinchart, cst WI	Catherine Jean Alexander, CST .TX	Michele Lynn Mahoney, cst SC
Lazette SymonetteFL	Victor Garcia, CST, CSFATX	Tami M. Pitcher, cst0H	Lisa K. Allen-Yancey, cstTX	Corrina Marie Main, CST, CSFA MT
Marsha Gene Tennant, cstTX	Robyn P. Gerthoffer, cst CO	Dennis E. Portee, CST, FAST NC	Rebecca Lee Anderson, cstOH	Angelito C. Manahan, cstTX
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Bethany M. Marshall, cstFL	Mary Ann BakerTX	Zaley Lumpkin, cstCT	Teresa Joan Diefenderfer, cst . LA	Susan Lee Stanley, cst CO
Anne Marie Martin, cstIN	Sheri Michele Barnfield, CST GA	James S. Machurek, cstNJ	Rebecca M. Doolittle, cst NE	Shawn Ellen Szilvasi, cst SD
Beth Ann Mayfield, cst WV	Melissa Lee Bartelt, cst SD	Cynthia Ann Martin, cstIN	Melissa Michelle Dwinell, cst ME	Pamela K. Tito, cst PA
Joy F. McAteer, cstSC	Richard Becerra, CST, CSFATX	Maria A. Martins, cstFL	Jennifer L. Etler, cst, csfa-OSOH	Heidi Ann Trio, cst PA
Kathy Sue McClellan, cst KY	Timothy William Beckham, CST CT	Brenda Marie Mathews, cst MN	Cynthia Renee Farley, cst MN	Jill A. Tuthill, cstOH
_			-	
Jennifer G. McDonald, cstTX	Connie Bell, CST, FASTCA	Eric L. McCormick, cst, csfaIN	Kathy L. Fiechter, CST, CSFAIN	Doreen M. White, csfa MI
Alice J. McLaine, cstCT	Melinda Lynn Bishop, cst KY	Steven Wayne McCullough, cstTX	Melissa Jonas Floyd, cst SC	Caroline Elizabeth Young, cstFL
Kate Joy Mielke, cstWI	Kristine Kaye Briske, cst NE	Debora Ann Miller, cstAR	Samuel Mario Galarza, cstTX	Audrey Ann Yurkew, cst MN
Jessica A. Miller, cstIN	Princess Lynn Bryson, cstOH	Lisa Marie Miller, cst PA	Tammy Williams Garren, CST, CSFA	Brian Karl Zarbock, CST, CSFA IL
Victoria Ann Miller, cst VA	Susan K. Burke, cstNJ	Tina Marie Moore, cst0H	SC	
Bradley Steven Nangle, CST IN	Lisa Marie Burns, cst PA	Edward Morris, Jr., cst MS	Janet Anne Green, CST MI	37+ YEARS
Carrie Ann Neis, cstWI	Renee Marie Byrne-Toth, cst . PA	Michelle Ann Muhammad, CST,	Andrea Marie Gregory, CST, CSFAKY	Geraldine Abatemarco, cstNJ
Audrey E. Nelson, cstND	Melissa Sue Cantu, cst0H	FAST PA	Paul Kenneth Guise, cstFL	Jittra Kahlan Alley, cstTX
Kimberly R. Nelson, cstIN	Lucinda Renee Carlson, cst SD	Raquel Ojeda, cstTX	Melinda Dawn Hamby-Stephens,	Melissa Kay Anderson, cst MN
Mary Lou Noon, cst SC	Jose Luis Carrillo, CST, CSFATX	Paula Alane Parkinson, cst KY	cstGA	
Shawnee Lee O'Connor, cstTX	Carol Noreen Cassavant, cst WI		Rebecca Jane Harriss, cst LA	Rebecca L. Bangert, cstOH
		Jennifer Mary Pelletier, cst MA		Marty D. Barrios, cstFL
Mary Katherine Orndorff, CST WV	Diana Stella Casten, cstTX	Denice Charlemagne Perrine, CST	Lisa Marie Hawkins, cst MI	Lisa Marie Beasley, CST, CSFAIN
Bryan S. Osborne, cstTX	Jolene M. Chestnut, cstIA	PA	Noella W. Hayes, cst LA	Sandra Marie Beier, cst MN
Shari Ann Patterson, cst MI	Sarah Ann Christianson, CST MN	Janet Marie Plochocki, cst MN	Cathy Ann Hoch, cst PA	Donna Maria Bloodworth, cst . GA
Linda Ann Piazza, cstCT	Dawn Marie Church, CST, CSFA OH	John Ralph Profeta, II, cstCT	Catherine V. Houghton, CST, CSFA	Pamela A. Brady, cstIN
Stephanie A. H. Poe, cst WA	Babette Mae Clossick, CST NC	Jane Ann Radetic, cst MO	MS	Brenda Mae Brock, cst VA
Rebekka A. Ponto, cst MN	Kerry C. Coenen, cst, csfa WI	Karen Larue Ricupero, cst MD	Karla Kay Johnson, cstND	Lisa K. Bruce, CST, CSFA SC
Nancy Ann Poole, cstTX	Laurie Kay Coffin, cst MN	Helen B. Roberts, cst IL	Susan E. Killmeyer, cst0H	Melanie D. Carpenter, CST, CSFA GA
Deann Price, cst SC	Jennifer K. Cole, cstTX	Angela D. Robinson, cstTX	Pamela S. King, cst KY	Marie Theresa Carrier WA
Pamela D. Qualheim WA	Kevin R. Craycraft, cst, FAST KY	Pete Sandifer, cst AL	Tammy L. Klueh, CST, CSFAIN	Ruby Ann Castardo, CSTSD
Linda A. Radosevic, cstOH	Debra Mitchell Crews, CST, CSFA,	Kathy Lynn Sandmoen, cst, csfaFL	Alice A. Kresge, cstPA	Denise Lynn Chamberlain, CST MI
Lynnette M. Ricardo, cstFL	FAST KY	Lisa Renee Sekel, cst PA	Wendy Lynn Lethbridge, CST, CSFA	_
Lauri Dial Robinson, cst UT	Reta D. Darnell, cstTN	Mary T. Senor, cstNJ	FL	Kathryn V. Cleveland, cstTX
				Bonnie L. Colbert, cstTX
Tracey A. Ross, cst PA	Kristina Weinmann DavenportKY	Barbara Ann Solomon, CST TN	Wendy Lynne Locke, cst NM	Carl A. Conley CA
Abel Anthony Saenz, CST, CSFA TX	James Edward Davis, cstMT	Ellen M. Spicer, cstPA	Maria Luisa Lopez-Etayem, cst IL	Anita Marie Corte, cst DE
John Joseph Sakson, cst, csfa PA	Linda Rae Dell-Jordan, CST, CSFAOH	Pamela Renee Studer, cst OK	Deborah Ann Lucero, cst CA	Suzanne Cunniff, cst, csfa-cvs, fast
Randall E. Schwibbe TN	Mary Carol Diamond, cst GA	Cindy Hartung Suel, cst SD	Tammy L. Mangold, CST, CSFA, FAST.	VA
Kristine M. Shaw, cst0H	Mary Lou Dotzel, cst PA	Judi D. Tammen, cst IL	M0	George Anthony DePinaFL
Cynthia A. Shortt, cst, csfa, fastMO	Tamela L. Duncan, cstIN	Kim D. Thomas-Schandorff, CST	Karen Powell Marbry, cst TN	Barbara Susan Dinsmore, cst . PA
Kimberly Valencia Smalls-Gray,	Bonita Yvonne Edwards, cst TX	MN	Joseph Edino Martinez, CST, CSFA	Kristine M. Diodato, cst NY
cst GA	Pamela Marie Fields, cst NC	Valerie G. Thompson, CST, CSFA, FAST	CO	Debra Christine Edelin MD
Melissa A. Smith, cst KY	Tamara L. Fretty, cst SC	KY	Carolyn A. May, cstNY	Claire C. Esguerra, cst CA
Pamela Kay Snead, CST, CSA KY	Christine L. Gardner, CSTID	Laura Elizabeth Upshaw, cst SC	Amy Suzanne McClellan, cst OH	Charleen Kay Farrell, cst OR
Paulette Michele Sparrowe, CSTOH	Mary Louise Gestrich, cst WI	Laura Marie Van Houten, CST . MN	Kimberly A. McHugh, cst OH	Patricia Ellen Fauth, cst MN
Doloris Sperling, cstCT	Sandra Lee Glover, cstNC	Tracy E. Vanderford, CSTTX	Lisa Ellen McKay, cstTX	
Norma Ann Spicer, cst AR	Alan J. GoodinNV	Sheila D. WeaverSC	Nancy Jo Menke, cstOH	Kathleen M. Flemming, cstIN
		Michael Douglas Welling, CSTFL	Michelle S. Neighbors, CST, CSFAIN	Marybeth A. Gallucci, cst PA
Maria A. Spigener, cstTX	George A. Grooms, cst GA John Charles Hadley, cst IA	Deborah Joanne White, CST CA		Terri Lynne Gay, cstOH
Brenda J. Stoner, CST PA	<u>-</u> .		Carolyn Maria Oelke, cst KS	Margarita Gomez, cstTX
Carolyn Virginia Stotler, cst WV	Brenda Kaye Haines, CST WV	Christine Faye Williams, CST IL	Rhonda M. Paine, cst ME	Gary J. Gower, CST, CSFA, FAST PA
Tammy P. Tanner, CST, CSFA SC	Penny L. Hanna, cst WV	Carolyn Sheree Williamson, cstSC	Kristine Mary Phelps, cst WI	Virginia Guerra, CST, CSFATX
Christian D. Temple, cst PA	Lori A. Hart, cstND	36+ YEARS	Kathleen Prebish, cst PA	Lisa Anne Guster, CST MI
Lisa Ann Villanueva, cst OK	Trisha Lynn Hefel, cst IL		Marcel D. Reffert, cst NE	Cindy Hardouin Hamberger, CST
Lisa Marlene Voisine, cst ME	Amy V. Heinlein VA	Leslie Theresa Alexis, cst IL	Melinda Tracy Rehbein, cstMT	LA
Sandra Sue Waller, cst IL	Susan Kay Hewitt, cst MN	Tamara Wood Anderson, cst SC	Ann Rich, cstNY	Leonard A. Hamby, cstFL
Jill W. Wright, cst KY	Michele Marie Hines, CSTOH	Brenda R. Aunkst, cst PA	Sue Ann Ricketts, cstTX	June G. Harris-Brown, cstNJ
Joann M. Wroblewski, cst PA	Wanda Holmes, CST, SA-CTX	Esabelle Barton, cst CA	August William Robertson, cstMD	David Bradley Hazelrigg, CST, CSA.
Jane R. Yde, cstWI	Leann Kay Hoogland, CST MN	Andrea Lynn Bower, CST, CSFA PA	Melinda Carrol Rowland, cst TN	SD
Shirley Ann Yellowhair, cstID	Michael F. Hoop, cstIN	Vickie Sue Cafferty, cstID	Lahoma Leigh Roy, cstTX	Kelly Jo Hoehn, cst IL
- ,	Kristi Lynn Houselog, CST, CSFA SD	Amy Poston Campbell, cst SC	Sherry Lynne Rud, cst WI	John Charles Hoffman, cst PA
35+ YEARS	Joni Sue Hunter, cst, csfaID	Amy Lou Campeau, cst, csfAMN	Rosemary Ellen Russell, cst LA	Barbara J. Horning MI
Lori Ann Aldrich, CST, CSFA GA	Joe Thomas Kelly, cstTN	Cynthia Moss Carbone, CST, CSFAVA	Rebecca Ann Scheid, cst WA	Wendy Ann Huffman, cstIN
	Sonja R. Kessler, cstOH	Wendy J. CayembergWI	Kimberly Lynn Schroeder, cst. OH	Brent Eugene Jones, CSTTX
Debra E. Almquist, CST WA	Angel Marie Lanouette, CSTCT		Kathleen Margaret Soto, cstTX	
Cecilio Luitt Alvarado, CST, CSFA TX	Christine Lorraine Lott, cst WA	Nancy Marie Coonan, CST, CSFA . ID	Carol Marie Stankowski, cst WI	Patricia Ochoa Kessler, CST OK
Laura J. Andreas AZ	constinc contains cott, tot WA	Scott Brian Curtis, CSTOH	caron mane stankowski, tsi Wi	Sonja D. King-Truell, cst GA

Elizabath D. Kirk, cct. KV	Martha Ann Bradhurru cct TV	Cuzanna M. Vandarlaan sst. NE	Jacqueline Coralun Cawickie cortl	Tina Maria McCintu cct cct. MC
Elizabeth D. Kirk, cst KY	Martha Ann Bradburry, cstTX	Suzanne M. VanderVeen, cst NE	Jacqueline Geralyn Sawickis, cstl	Tina Marie McGinty, CST, CSFA. MS
Connie Christine Knapp, cst SD	Brenda Ann Bushey, cst CO	Theresa Vela, cstTX	Herbert M. Schene, JrFL	Francois P. Michaud, CST, CSFAFL
Danna Jenell Kraus, CSTIN	Sue W. Cagle, CSTTN	Leann Renee Watson, CST, CSFA CO	Robert Eugene Sell, cst MN	Mark Miller, CSTIN
Willowdene Lee, cst CA	Kathleen D. Carney, CSTCT	Lorrie Anne Webb, cst VA	Deanna Silsbee, cstOR	Merri Diann Ramboldt, cst MN
Kimberly A. Liggett, cst0H	Angele Eroche Chauvin, CST, CSFAFL	Karin Ryan Wempe, cstTX	Edwina B. Soreth, cst PA	Maria V. Rufo, cstNY
Jane Marie Lilly, cst ME	Scott A. Comeaux, CST, CSA CO		Judy A. SrembaFL	Sylvia J. RussomTN
Laura M. Lowe, cst VA	Kelly A. Crandall, cstOH	39+YEARS	Regina R. Stancel, cstFL	Terri Ann Ryan, cst MN
Brenda Kay Mackey, cst MN	Rozanne C. Crump, cstIN	Gail Ball, cstFL	Mary Joan Sutton, CST, CSFA, FAST FL	Diane M. Sady, cst MA
Susan B. Marshall, CST, CSFA, FASTSC	Lisa F. Duff, cstNV	Alexandra Bierne CA	Dianne D. Taylor, cst TN	Patricia J. Sanzone, cst, csfa FL
Arthur Martinez, Jr., cst CA	Sandra Kay Edwards, cst, fast . OK	Kathleen Boothe, cstCT	Moses Udo, cstCA	Sheri J. Sawyer, cst
Nancy Ruth McNeal, cst MI	Cathy L. Empson, cstIL	Sharon L. Briol, cst MN	Jewel Ann Vitas, cst MN	Allison P. Sellers, cst LA
Joyce Ann Mitchell, cst TN	Elizabeth F. Feldman, CSTCT		Norma J. Warlick, cst SC	Wendy Beth Shapiro, CST NY
Victoria S. Morgan, cst SC		Faye Ann Buncich, CST, CSFA PA	Mary Jane Watson, cst SC	
	Deborah Kay Floyd, cst VA	Norma J. BurrellTX	=	Beth A. Smith, cstOH
David Eugene Morris, cstMT	Tammy Denise Gagliardi, cst NY	Kathy Ann Clark, CST, CSFA IL	Rebecca Lynne Whittaker, CST TN	Sandra B. Snider, cst VA
Barbara J. Murphy, CST, CSFA MN	Tony Gales, cst IL	Tracy Jill Clow, cstOR	Susan Lee Williams, CST NY	Doreen Somers, cst SC
Anita M. Nicholas, cst MA	Lori Giordano O'Leary, cstCT	Frances Dorrie Colvin, cst CA	Arletta Marie Zilka, cst MN	Carol Eileen Stephenson, cst . SD
Stacy Page, cst, csa SC	Celia B. Gonzalez, cstFL	Rita Kay Conquergood, cst KY	Eileen M. Zirbel, cst MN	Lori M. Stewart, CSTIA
Teresa Hudson Peeler, cst NC	Carolyn Faye Hayes, cst KY	Penny S. Daniels, cst MN		Teresa Winslett Stewart, cst SC
Tulsidai Rahaman NY	Terry L. Humphrey, cstFL	Penny Noreen Darling, cstTX	40+YEARS	Sarah L. Stringer, cst GA
Pamela K. Ream PA	Michelle E. Iskra, cstCT	Kelley L. Dickerson, cst SC	Nancy Adema, cstSD	Robin L. Sum, cstIN
Amber Rebecca Reed, cst M0	Becki E. Jenkins, cst MD	Marianne Dluhos, cst PA	Theresa J. Allen, CST, CSFA MA	Andrea Celeste Swindel, cst SC
Patrice Marie Ring, cst PA	Michelle Anderson Jones, CST. SC	Judy K. Dressler, CSTNV	Olga Bailey, cstFL	Sue Ellen Thatcher, cstOH
Jody Lynn Robbins, cst, csfa ME	Susan Burnett Jones, cst SC		Karen Marie Bares, CSTSD	Deborah Ann Turner, cst, csfa, fast
Denise L. Roberts, cst OK	Kerry A. Keating, cst MA	Susan Lynne Gadd, CSTFL		OR
		Diane M. Gerardot, cst MO	Diane L. Barnes, CST, CSFA AZ	
Tracy Lynn Roettger, cstIN	Susan J. Keegan, cstOH	Michelle L. Gosnell, cst IL	Glenda Sue Beverley, cst GA	Denise Marie Wiegand, cst VA
Mary Alice Ronoke, CST SC	Tammy A. Kerr, cstIN	Mary Ann Hackman, cstMT	Phyllis Jean Biever, cst IL	Joyce Ann Wierdak, cstIL
Martha L. Sawyer AR	Judith Ann Kilbarger, CST CO	Kathy S. Harrell, cstTX	Laura Lee Black, CST CA	Yolanda Faye Williams, cst SC
Angela Kathryn Schneider, cst. IL	Monica L. Kirchberg, CST, CSFA MN	Tim S. Hegg, cstMT	Douglas W. Brahmer, CST PA	A1 - VEARC
Gena Lynne Seaman-Gregory, cst	Debra Mary Klotter, cst TN	Linda Marie Hensley, cst WI	Monica L. Cervi, cst AZ	41+ YEARS
TX	Deborah Sue Komar, cst PA	Patti Ann Hicks, cst MI	Anne Marie Colatruglio, CST OH	Juliana Adelchanow, cst CA
Susan Lynn Severson, cst SD	Penny S. Lococo, cstNV	Karen Marie Hieserich, cst MN	Janet C. Davis, cstIN	Kathryn L. Bahn, cstTX
Catherine J. Shelton, cstFL	Sandra Kay Luthie, cst, FASTTX	Mark B. Hinton, CSFA, SA-C CO	Vickie L. Davis, cstFL	Johnnie Lynn Blankenship, cst,
Karyn Renee Shotkoski, cst NE	Lori Lynne Maynard, CST, CSFA .OH	Teresa L. Holman	Gloria Michele De Leon, cst NC	CSFAWV
Susan Marie Skurla, cst PA	Laurie Huber McCann, cst LA	Tamara Sue Hoover, cstIN	Sally J. Delehanty, cstIN	Gloria J. Brown, cst VA
Maria L. Smith VA	Nathan C. McCauley, cst MN	Nasrullah Khan, cstWI	Kathleen Regina Diedrich, CST WI	Monica Bryant, cst SC
Jo Ann V. Steffes, cst, csfa, fast WI	Kelly Faye Meaney, cstIN	Mary Jean Kunicki, cstWI	Cynthia Ann Festa, cstFL	Michelle R. Cain, III, cstIN
Lori Ann Strickland, CST, CSFA NC	Cindy Lee Meyer, CSTNC	Suzanne Laliberte, CST, CSFA ME	Sandy K. Fletcher, cst GA	Colleen Marie CarellaCT
Mary E. Suffolk, cst AZ	LaVon V. MooreOH			
Mary Ann Sutt, cst PA	Janet L. Murphy, cst, csfaOH	Lorie S. Lavergne, cst, FAST LA	Janet Sue Gauthier, CST, CSFA MI	Nancy Ann Carter, CST CA
Diana Bernadine Sutton, cst . MN	Kenneth D. Niederhauser, CST. CA	Frances Ellen Lingnofski WI	Margaret Eva Gestrich, cst CO	Daniel Cavazos, cst, csfATX
•	•	Victoria D. Lovingood, cst SC	Vanessa K. Gray GA	Sharon D. Chaves, cstFL
Catherine L. Swiger, CST OH	Dawn M. Novak, cstID	Kimberly Ann Mansker, cstIA	Karen Lea Hardin, cst MO	Marc Jon Chudow, cstFL
Carrie M. Tarrance, cst TN	Doloris L. O'Connor, CSTOH	Melinda McKay, cstNC	Maria Carmen Hernandez, CST CA	Susan Ann Danner, cstIN
Nancy J. Terry, cstIN	Connie Joyce Patton, cst MO	Mary Jule McKenna, cstCT	Kelly D. Irons, CST, CSATX	Gwendolyn Jan Dudurich, cst . PA
Steven R. Thompson, cst SC	Sharon Gale Pickard, CST AZ	Bettina J. McLaughlin, cst SC	Terry Lynn Jackson, cst, csfa KY	Elinda J. Fuller, cstNC
Graciela A. Verdeguer, CST NY	Annie Jewel Pierre, cstTX	Colleen Therese Merkel, cstNJ	Melissa Ann Jett, cst, csa KY	Paula R. Gibson, cstTX
Dino Villoria, cstFL	Jimmie Pisk, cst WA	Monica J. Micik, cst PA	Darlene Anita Johnson, cst NE	Robin Leigh Grey, cst, csfa OK
Mary Ann H. Wert, cst PA	Victoria L. Reed, cstIN	Vicki Lynn Moore, cst, csfa GA	Deborah K. Jones, cst GA	Tamarah Kay Hahn, cstIN
Monica Lynn West-Gray, cst. MD	Karen Olivia Rhone, cst NC	Anita J. Mykrantz, cstOH	Janice M. Kapcsos, cst PA	Mary E. Hamlin, CST, CSFA SC
Janette S. Wilcox, cstTX	Robin Renee Robinett, cst TN	Elizabeth Ness, cst MI	Rita C. Keller, CST, CSA KY	Kristyl Ann Hanchera, cst NE
Molly Ann Woolridge, cstTX	Vickie R. Scott, cst KY	Blake Richard Neuroth, CST, CSFA	Mindy Kay Kennedy, cstIN	Mary Kathryn Hardesty, cst IN
Tommi L. Workman, CST, CSFA NC	Marie Virginia Sexton, cst MN	OH	Edwin Louis Kircher, CST, CSFA, SA-C	Catheryn P. Hart, CSTIL
, , , , , , , , , , , , , , , , , , , ,	Deborah L. Sheffield, CST, CSFA .TX	Patricia Ann Newell, cstOH		Donna E. Henderson, CST, CSFA, FAST
38+YEARS	Julie Ann Skibinski, cstIN	Mendie Jane O'Connor, cst ME		
	Retina Dawn Sorrells, cst TN		Tracy J. Kish, cstCT	TN
Karla Renee Adams, cstIN	Colleen Renee Stern, cstOR	Robert L. Paige, CST	Joan P. Kovach, cst, csfA IL	Lori Ann Hepler, CST, CSFAOH
Rondallyn M. Anderson, cstFL		Denise Ann Paine, cstIA	Phyllis R. Kutzke, cst MN	Lisa C. Jackson, cst
Margie Ann Bartlett, cst VA	Thomas J. StewartOR	Margaret M. Potesta, CST, CSFA AZ	Sandra Lee Landis, CSTNC	Judie Ann Kelley, cstSD
Susan A. Bearese, cst NY	Carolyn J. Thomas, CST KY	Marlena K. Romine, cst, csaTX	Tina Louise Lawler, cst MN	Dina Denise Kettmann, cstIA
Kimberly Ann Berland, cst IL	Patricia Ann Toth, cst PA	Lisa Renee' Rosene, cst MA	Regina Vance Legge, cst VA	Lois A. Kleindl-Peltier, CST, CSFANV
Cassandra Sloan Blackden, cst LA	Penny Ann Tucker, cst AL	Kathryn A. Sample CA	Bryan P. Leman, cstTX	Christine Joann Koch, cstIN

Karen Marie Krueger, cst WI	Mary Gayle Lewandowski, cst MN	Mary Jane Sievers, cst MS	Kathleen Mercure, CST, CSFA MA	Carolyn Sue Coutcher, CST, CSFA,
Vonda Louise Leer, cst, csfa, sa-c.	Melinda Kaye Martin, cst OK	Janet H. StoneOR	Karen Marie Mills, cst MN	CSAFL
KY	Diane C. Mayes, cst SC	Sheryl Lyn Sutton-Sigler, cstTX	Marilou Minarik, cst IL	Millie Gates, CST, CSFA MO
Lori W. Loughmiller, cstFL	Jenneal Priscilla McClurkin, cstSC	Louise W. Terranova, cst MI	Bonnie Lynn Oleksak, cst PA	Terri Edythe Grayson, cstIN
Robert A. Lowe, cst PA	Susan Horton Meads, CST, CSFA NC	Babette Marie Tinnin, cst AZ	Mary Lynn Oudean, cst AK	Evelyn Marie Greer, cstTX
Evelyn Adele Maillho, cst LA	Sheila Joan Moran, cst IL	Catherine Ann Walker, CST, CSFA TX	Charlotte Sue Rountree, cstOH	Vicki G. Hodges, cstNC
Lilabeth J. McKelva, CSTTX	Peggy Carini Morrissey WI	Julie Lynn Weiss, CST MI	Laurie Lee SchlinkCT	Linda Jean MacGregor, CST, SA-CWI
Shelley L. McLaughlin, CST IA	Brenda Murphy, cst, csfa NC	Lisa B. White, cstIN	Lynn Stewart Schroeder NC	Elizabeth Maley, cstFL
Tracie L. Minor, cst PA	Michael Anthony Osie, CST, CSFAOH	Marleen Esther WitteFL	Linda Sue Schultz GA	Patricia Maley-Hallagan, cst . VA
Leslie Mooney, cstCT	Mary Kay Payne, cst GA	AA. VEADC	Teresa C. Smallidge, CST, CSFA MI	Terese M. Miller, CSTIN
Jackie H. Neighbors, CST, CSFA, FAST	Bradley Joe Phelps, cst, csa WI	44+ YEARS	Robert J. Sowell, FAST IL	Nina Moltzen, cstNJ
TN	Jack Perry Phillips, Jr., CST GA	Jeffrey Lynn Barber, cst CA	Linda J. Spink, cst NV	Linda Lou V. Natale, cst NY
Denise Ann Null, cstOH	LaFrieda Rhea Ray, cstTX	Ann G. Belk, CST, FASTFL	Katherine L. White, CST AK	Linda Bonnett Palmer, CST SC
Linda W. Patin, cst LA	Cynthia Lynn Rehanek, cst OK	Ruth Elaine Boice, CST, CSFAIN	46+ YEARS	Richard E. Paschal, cst MA
Cheryl Renee Planitz, cst KY	Lori Lynn Renaux, cstMN	Jane Ellen Bruns, cst KS		Judy W. Pruitt, cst TN
Ana Eneida Puig, cstFL	Terry Lee Reside, CST, SA-C IL	Joyce C. Carrick, CST, CSFA MI	Jetta Lynn Almon, CST, CSFAIN	Lynn Puskas, CSTNY
Holly Elizabeth Rasch, cst MI	Steven B. Richard, CST CA	Susan L. CoeNY	Penny Lee Boyce, cst MN	Charlotte G. Ratke, cst, csfa PA
Dorothy Ann Rednour, CST SC	Mary Jayne Rossman, cst, FASTMA	Rebecca Sue Compton, CST, FASTIN	Eileen Crigler, CST, CSFAFL	Janet Kathryn Reisser, cstTX
Patricia Ann Reisdorf, cst MN Brenda Kathleen RobinsonFL	Donna Denise Searles, cst CA	Vivian M. CoulterOK	Carol Ann Denton, CST SC	Kathey Anne Riley, CSTIN
Tlisa Marie Schaefer, cst MN	Jane Marie Serger, cstOH Minnie M. Smith-Buckingham,	Beverly Jo Crady, cst, csfa KY	Peggy S. Eggleston, cstMT	Linda Schaeffer, cstFL Wanda Fay Smolek, cstIN
Peter G. Schwarz, cst NY	CST, CSFA, FAST	Cheryl Ann Eck, cst	Martha Jane Gordner, CST PA	Mary L. Spencer, cst LA
Lora M. Setliff, cstNC	Mary Lila Stahl, cstMN	Elizabeth Anne Gaulin, cst, FASTMA	Connie E. Haynes, cst	Rosalie J. Winters, cstFL
Helen Little Spencer, CST SC	Debra Ann Straface, cst NY	Henry W. Gilman, cst ME Catherine V. Hamann AZ	Sandie A. Kazmierczak, cst OH Carol Kessler, cst NY	Arlene E. Wright, CST, FASTTX
Sharon Lee Surma, cstFL	Terri Lynn Tapp, cst, csaIN	Sara J. Huilman, CST, CSFA IA	Sandra Ahearn Milner, cst MA	ratetic E. Wright, est, mortilitie
Deborah J. Swain, cst, FAST KY	Carolyne Reed Thompson, CST .TX	Rosa Lee Johnson, CST, FAST MO	Ronna A. Palmieri, cstCT	49+YEARS
Phyllis A. Vols, cst, csfa IL	Kim Marie Williams, CST SC	Barbara A. Krukemeier, cst, FASTIN	Debra A. PittsIN	Patricia G. Adams, CST WI
Jean Allison Wade, cst NC	·	Tone L. Mahon, cstTX	Kathryn Rita Pophal, cst WI	Diana K. Burns, cstIN
Elizabeth Ann Weese AR	43+ YEARS	Diane Marie Mann, cstIA	Karin J. Schneider, cst SD	Beverly J. Carter, CST, FAST LA
	Tammy T. Aydelott, csr OK	Christine Oster	Donna M. Williams, cst, PA-cOH	Mary V. Conner, cst, FAST MI
42+ YEARS	Patricia Marie Barrone, cst MN	Cindy Sue Page, cstIA		Oscar Cuellar, cstTX
Angela M. Avant, cst LA	Carlos Brito, Jr., cstTX	Carolyn Jean Ragsdale, cst, FAST IL	47+ YEARS	Angela M. Cyr, cst ME
Sandra Sue Beal, CST IL	Teresa M. Calandrillo, CST, CSFA NY	Mary L. Reckow, cst CA	Debra A. Baumgardt, cstIN	Kathleen Mary Demitras, cst-cvs,
Kathy Ann Bittner, cstIN	Kerrie Coffey, cstFL	Brenda S. Schnautz, CST, CSFA IN	JoAnn Connair, cstCA	FAST PA
Brenda Kay Bleeker, cst MN	Brenda Mae Cookingham, CST ME	June Sharon Simmons, cst MD	Molly K. Davis, cst TN	Alice R. Erskine, cst, RN, cnor CA
Rebecca Jean Branham, CST, CSFA,	Darlene D. Deaton, cst NC	James W. Smith	Nadine DavisCO	Thomas Fleming, cstOH
sa-cOH	Joyce Adele Dickerson, cstIN	Sheryl Annetta Van Zante, cst IA	Jimmie C. Flores, cstTX	Jeannette M. Jurynec, cst IL
Tomi Marie Briggeman, CST, CSFA	Janet L. Freshour, cst PA	Linda Ann VanDyke, cst, csfa, fast	Victoria French, cst	Keith R. Orloff, CST, FAST
MT	Cheryl Lynn Gerut, cst, csfa-cvs IL		Cynthia Fuentes, CST, CSFA, FAST.TX	Elizabeth A. Robbins, cst CA
Ruben Campbell, cstIN	Maria Ann Goodreau, cst MA	Tammara Verduin, cstTX	Carolyn Henson Green, CST, FASTLA	Judith A. Taggart, cst PA
Michealle Carter, CST	Donna Bailey Green, CST SC	Kathryn Kanney Watson, CST, CSFA	Bruce Norman Gruenewald, FAST	Betty L. Whitson, CSTIA
Deborah Ann Cleghorn, cst CA Terri L. Conkle, cstOH	Teri L. Hanenkrath, CSTOH Jean Marie Hansen, CST PA	NC Judy L. Williams, cstNC	NV	Patricia L. Windisch, cst PA
Cindy C. Crusoe, cstFL	Nancy K. Iverson, cst, csfA MN	Elizabeth Pierce Windham, CST SC	Doris Sue King, cst	50+ YEARS
Joanne Marie Dickinson, cst . MA	Shirley M. Jones, cst LA	Sherry Lynn Winn, CST, CSFA KY	Sue A. Kymble, cst, csfa PA	
Nannette Denise Dillard, CST GA	Debra Lynn Manthey, cst WI	Sherry Lynn Willin, CSI, CSIA Ki	Patricia Langer, cstCA Kathleen R. Oldendorf, cstLA	Joseph L. Aikey, cst PA Wynona Jefferson Ball, cst, LPN
Sara Ann Eckmann, cst SD	Kelly Lynn McCrossin, cst ME	45+ YEARS	Sandra L. ParryFL	wynona jerrer son ban, csi, ten GA
Donald D. Frankhouser, cst WA	Eva Mae McKeithan, cst NC	Murray Lee Anderson, cst WA	Katherine C. Snyder, cst, FAST UT	Diane Marie Carlson, cst CO
Denise Catherine Grabowski, cst.	Pamela Susan McQuade, cst, csfA	Paul L. Burgart, cst MA	Julie Anne Striby, cstIN	Beatrice Champ, cstOH
SC	IA	Annette M. Coxon, cst, csfa KY	Eileen M. Sullivan, cstIN	Dorothea Spangler Cooper, CST,
Paula Annette Guillory, CST, CSFATX	Clarissa Marie Millner, cstOH	Merry McGinley Crow, cst TN	Pamela Sue Van Schoick, cst IN	FAST, LPN PA
Linda M. Henderson, cst MI	Laura J. Moll, cstFL	Lesley Therese Doerr, cstIN	rameta sas ram sension, est mini	Peggy Jeanene Davis, cst UT
Linda M. Horty, cstIN	Pamela A. Partsch, cst PA	Deonne Marie Eske, cst WI	48+ YEARS	Allen D. Denton, cst
Mary Nell Huffines, cst TN	Kathleen C. Pepe, cstIN	Rachel C. Glidden, cst, csfa NM	Jacqueline F. Albulet, CST CA	Carole G. DuBose, cstOH
June Ellen Killey, CST, CSFAIN	Debra K. Pixley, cst AR	Deone Lynn Hemme, cst SD	Sharon E. Allard, cstCT	Jeanne M. Glapion, cstTX
April Marie Kochis, CST, CSFA ME	Lisa J. Pritt, cst VA	Mary Susan Hoffmann, cstIN	Emma Lee Bowers, cstFL	Roberto B. Gonzalez, cstTX
Audrey A. Kress, cstIA	Deborah K. Schroh, cst IL	Kathleen Marie Kersey, cst AR	Burnette S. Brown, cst VA	Ruth Gregory, cstCT
D I D 01/				
Roxon LeDoux, CST, CSFA OK	Kathy D. Sellner, cst MN	Regina Leitman, cstNJ	Christine Chaloupka, CST WI	Robert L. Hartigan, CST MO

Valerie Ann Marburger, CST, CSFAFL Dolores Zamora Martinez, CST, CSFA
51+ YEARS
Marilyn K. Bourke, cstIN Gloria P. Cole, cstPA Diane Fleming, cstIL Patricia Elizabeth Gonsalves, cst, LPN
Suzanne M. Stefanik, cst MA Sharon K. Todd, cst TX Sharon Lynn Vinsonhaler, cst . NE Judy A. Wasilonski, cst TN Alan W. Wong, cst TX
52+ YEARS
Sylvia Abbey, cst, LPNLA Betty A. Alford, cstIN Audrey L. Bender, cst, FastMO Carolyn M. Branson, cstVA Connie Lee Dingus, cstTN Barbara A. Gay, cst, FastTN Nadine Hillson, cstFL Suzette K. Hubbell, cstLA Elsie Ann Lauret, cst, FastLA Judy K. Martin, cstCO Tommie L. McNeil, cstFL Barbara J. Mitchell-Moss, cstTX Donna J. Reeves, cstIN Elizabeth H. Roberts, cst, Fast MD Robert D. Smith, cstPA
Joanne Barnett Thompson, CST GA Lynn F. Wilbur, CSTRI

Herbert Wray, cst.....NC

Fred Allan Allgood, CST, CSFATX Alice Gallegos, cst.....TX Mary Heicken, cst KY

53+ YEARS

Janie Marianna Hessong, cst.. AZ Kathleen Ann Kuznar, cst PA Eileen M. Noble, cst CA Jean Rossmann, cst..... IL

Harry M. Blackford, CST, FAST... TN Margrethe May, CST, FAST AZ Elizabeth McDevitt, cst, FAST... TN Janice E. Olmsted, CST, FAST ... WA Stewart P. Robinson, CST, FAST . PA

54+ YEARS

Co Opl	nne port	ct to unit	Y
Li	nked		
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UPCOMING PROGRAMS



AST MEMBERS: Keep your member profile updated to ensure that you receive the latest news and events from your state. As an AST member you can update your profile by using your login information at www.ast.org. You may also live chat at www.ast.org or contact Member Services at memserv@ast.org or call 1-800-637-7433. AST business hours are Monday-Friday, 8 am - 4:30 pm, MST.

ALABAMA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 11, 2023 Title: It Starts with Us

Location: Oak Mountain State Park, 200

Terrace Dr. Pelham, AL 35124

Contact: Jessica Sirmon, 4208 Idlewood Dr. Pensacola, FL, 32506, 850-525-5369,

alabamaastinfo@gmail.com

CE Credits: 6

ARIZONA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: February 4, 2023

Title: 2023 Annual Business Meeting & Bariatric Surgery & More Workshop

Location: Mayo Clinic Hospital - Mayo Clinic Education Center, Juanita Kious Waugh Auditorium, 5777 E Mayo Blvd, Phoenix, AZ 85054

Contact: Raquel Briggs, 2365 E Cactus Road, Phoenix, AZ 85022, 602-388-5825,

azsa.assembly@gmail.com

CE Credits: 4

CONNECTICUT STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: January 7, 2023 Title: Back to Basics

Location: Scinto Towers, 3 Corporate Dr.

Shelton, CT 06484

Contact: Jonathan Brown, PO Box 581, Monroe, CT 06468, 203-650-9936, Presi-

dentCTAST@amail.com

CE Credits: 5

GEORGIA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 11, 2023

Title: Springtime in Savannah

Location: Savannah Technical College, 5717 White Bluff Road, Savannah, GA

31405

Contact: Erin Baggett, PO Box 216, Lawrenceville, GA 30046, 678-226-6943, gas-

awebmaster@gmail.com

CE Credits: 7

Program Type: Workshop Date: September 9, 2023

Title: Surgery Southern Style Location: Albany Technical College, 1704

S Slappey Blvd, Albany, GA 31701

Contact: Erin Baggett, PO Box 216, Lawrenceville, GA 30046, 678-226-6943, gas-

awebmaster@gmail.com

CE Credits: 8

INDIANA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 3-4, 2023

Title: ISA Spring Conference 2023

Location: St. Joseph Regional Medical Center, Mishawaka, 5215 Holy Cross

Pkwy, IN 46545

Contact: Corinda Maday, 1708 Campeau St, South Bend, IN 46617, 574-903-6006,

cethrapp@gmail.com

CE Credits: 6

ILLINOIS STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 11, 2023

Title: Annual Meeting, Elections, and

Seminar

Location: Illinois Central College - Peoria Campus: Student Center, 5407 N Univer-

sity St. Peoria, IL 61635

Contact: Sonya Conton, PO Box 2254, Decatur, IL 62524, illinoisstateassembly@

gmail.com CE Credits: 5-6

IOWA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 4, 2023

Title: Iowa State Assembly Spring 2023

Workshop and Delegate Elections

Location: Western Iowa Tech Community College, 4647 Stone Ave, Sioux City, IA

Contact: Tim Danico, 319-540-6008, timo-

thy-danico@uiowa.edu

CE Credits: 7

KENTUCKY STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 24-25, 2023

Title: Annual Business Meeting and Elec-

Location: Embassy Suites, 501 S 4th St,

Louisville, KY 40202

Contact: Aaron Morris, 270-977-6900,

ksaofast@gmail.com

CE Credits: 8

MICHIGAN STATE ASSEMBLY

Program Type: Webinar Workshop (Webinar approved for members only of the Michigan State Assembly)

Date: April 22, 2023

Title: MSA-AST Spring 2023 Virtual Work-

Contact: Renona Gauthier, 25917 E Huron River Dr. Flat Rock, MI 48134, 248-891-3989, michiganassemblyofast@gmail.com CE Credits: 3

MINNESOTA STATE ASSEMBLY

Program Type: Workshop **Date:** April 29, 2023

Title: MNSA 2023 In-Person Spring Work-

Location: Cuyuna Regional Medical Center - Heartwood Campus, 500 Heartwood

Dr, Crosby, MN 56441

Contact: Lori Molus, PO Box 163, Becker, MN 55308, 320-492-8747, mnast2016@ outlook.com

CE Credits: 6

MISSISSIPPI STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: February 25, 2023 Title: Spring Forward Mississippi

Location: Holmes Community College -Pat McGowan Workforce Building, 412 W

Ridgeland Ave, Ridgeland, MS 39157

Contact: Shea Coleman, 412 W Ridgeland Ave, Ridgeland, MS 39157, 601-605-3396, tcoleman@holmescc.edu

CE Credits: 5

MISSOURI STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 3-5, 2023

Title: Annual Spring Conference, Business

Meeting and Elections

Location: Mercy Hospital Joplin, 100

Mercy Way, Joplin, MO 64804

Contact: JoDee Neef, 1992 Waterfront Dr N Apt B, Columbia, MO 65202, 573-808-

0585, jodeeneef@gmail.com

CE Credits: 13

NEBRASKA STATE ASSEMBLY

Program Type: Annual Meeting/Elections & Webinar (Webinar approved for members only of the Nebraska State Assembly)

Date: March 4, 2023

Title: 2023 NESA Winter Workshop and

Annual Meeting Location: TBD

Contact: Nebraska State Assembly, PO Box 67034, Lincoln, NE 68506, 402-988-8099, nebraskastateassembly@gmail.

com

CE Credits: 6

NEW MEXICO STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 11, 2023

Title: NM State Assembly Spring Conference and Annual Business Meeting

Location: UNM North Campus: Domenici Center Auditorium, 1001 Stanford Dr NE.

Albuquerque, NM 87131

Contact: Ruth Borah, NM-AST, PO Box 66496, Albuquerque, NM 87193, 848-391-3661, ruth.kerrjusinski@gmail.com

CE Credits: 5

OHIO STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 17-19, 2023

Title: Be the Best You Can Be in 2023

Location: Nationwide Hotel and Conference Center, 100 Green Meadows Dr S,

Lewis Center, OH 43035

Contact: Lenore Gregg, ohioast@gmail.

CE Credits: 14

OKLAHOMA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 25, 2023 Title: Spring Conference

Location: Canadian Valley Technology Center, 1701 S Czech Hall Road, Yukon, OK 73099

Contact: Miguel Agosto, 1800 Caribou Circle, Altus, OK 73521, 580-301-1648, oksaoftheast@gmail.com

CE Credits: 5

OREGON STATE ASSEMBLY

Program Type: Annual Meeting/Elections with Webinar Workshop (Webinar approved for members only of the Oregon State Assembly)

Date: February 25, 2023

Title: Business Meeting/Workshop

Location: Salem Health Hospital, 890

Oaks St SE, Salem, OR 97301

Contact: Melissa Garinger, 3471 7th St, Hubbard, OR 97032, 503-318-1577, oast.

oregon@gmail.com

CE Credits: 4

SOUTH CAROLINA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 3-5, 2023

Title: Spring Business Meeting

Location: Midlands Technical College, 1260 Lexington Dr, West Columbia, SC

29170

Contact: Katrina Williams, PO Box 10001, Dillon, SC 29536, 843-615-7454,

katrinawilliams89@yahoo.com

CE Credits: 14

TENNESSEE STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 4-5, 2023

Title: TNAST Spring Meeting at Erlanger Location: Erlanger Hospital, 975 E 3rd St,

Chattanooga, TN 37403

Contact: Ellen Wood, 1344 Copperstone Lane, Knoxville, TN 37922, 865-283-5901,

ellenwoodtnast@gmail.com

CE Credits: 12

TEXAS STATE ASSEMBLY

Program Type: Workshop **Date:** January 21, 2023 Title: CEs by the Sea

Location: Lamar State College, 1500 Proc-

tor St, Port Arthur, TX 77640

Contact: Brandon Buckner, 11605 Cravens Camp Road, Silsbee, TX 77656, 409-656-6949, bucknebr@lamarpa.edu

CE Credits: 8 Live

Program Type: Annual Meeting/Elections

Date: March 4-5, 2023

Title: Best Little Workshop in Texas

Location: Radisson Hotel Fort Worth North-Fossil Creek, 2540 Meacham Blvd,

Fort Worth, TX 76106

Contact: Jamie Lopez, 5217 Canadian Ave, Midland, TX 79707, 432-638-2269, djjai-

melopez@yahoo.com CE Credits: 15

VIRGINIA STATE ASSEMBLY

Program Type: Annual Meeting/Elections

Date: March 18, 2023

Title: 2023 Spring Elections, Annual Busi-

ness Meeting and Workshop

Location: Laurel Ridge Community College - Hazel Hall, 6480 College St, Warren-

ton, VA 20187

Contact: Lisa Day, 13284 Firefly Road, Culpeper, VA 22701, 540-422-9471, ldaycsfa@

gmail.com CE Credits: 5-6

WISCONSIN STATE ASSEMBLY

Program Type: Webinar Workshop (Webinar approved for members only of the Wis-

consin State Assembly) Date: March 25, 2023 Title: March to Learning

Contact: Ilea Cornelius, 920-660-3669,

wisconsinast@gmail.com

CE Credits: 6

STATE ASSEMBLY ANNUAL BUSINESS MEETINGS

Members interested in the election of officers & the business issues of their state assembly should ensure their attendance at the following meetings.

ALABAMA

Pelham March 11, 2023 **Annual Meeting** 2023 BOD Elections & 2023 Delegate Elections

ARIZONA

Phoenix February 4, 2023 Annual Meeting 2022-2023 BOD Elections & 2023 Delegate Elections

CONNECTICUT

Shelton January 7, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

GEORGIA

Savannah March 11, 2023 **Annual Meeting** 2023 BOD Elections & 2023 Delegate Elections

INDIANA

Mishawaka March 3-4, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

ILLINOIS

Peoria March 11, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

IOWA

Sioux City March 4, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

KENTUCKY

Louisville March 24-25, 2023 Annual Meeting 2022 - 2023 BOD Elections & 2023 Delegate Elections

MISSISSIPPI

Ridgeland February 25, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

MISSOURI

Joplin March 3-5, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

NEBRASKA

TBD March 4, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

NEW MEXICO

Albuquerque March 11, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

OHIO

Lewis Center March 17-19, 2023 Annual Meeting 2022 - 2023 BOD Elections & 2023 Delegate Elections

OKLAHOMA

Yukon March 25, 2023 Annual Meeting 2022 - 2023 BOD Elections & 2023 Delegate Elections

OREGON

Salem February 25, 2023 Annual Meeting 2020-2023 BOD Elections & 2023 Delegate Elections

SOUTH CAROLINA

West Columbia March 3-5, 2023 **Annual Meeting** 2022 & 2023 BOD Elections & 2023 Delegate Elections

TENNESSEE

Chattanooga March 4-5, 2023 **Annual Meeting** 2023 BOD Elections & 2023 Delegate Elections

TEXAS

Fort Worth March 4-5, 2023 Annual Meeting 2023 BOD Elections & 2023 Delegate Elections

VIRGINIA

Warrenton March 18, 2023 **Annual Meeting** 2023 BOD Elections & 2023 Delegate Elections

Program Approvals: Submit the State Assembly Program Date Request Form A1 no less than 120 days prior to the date(s) of the program for AST approval. The form must be received prior to first (1st) of the current month for program publication in the next month of the AST monthly journal The Surgical Technologist. The Application for State Assembly CE Program Approval A2 must be received at least thirty (30) days prior to the date(s) of the program for continuing education credit approval. An application submitted post-program will not be accepted; no program is granted approval retroactively.

Contact stateassembly@ast.org or 800.637.7433, ext. 2547.

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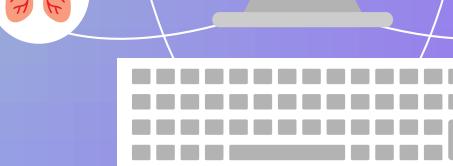
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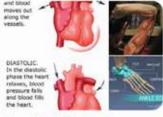


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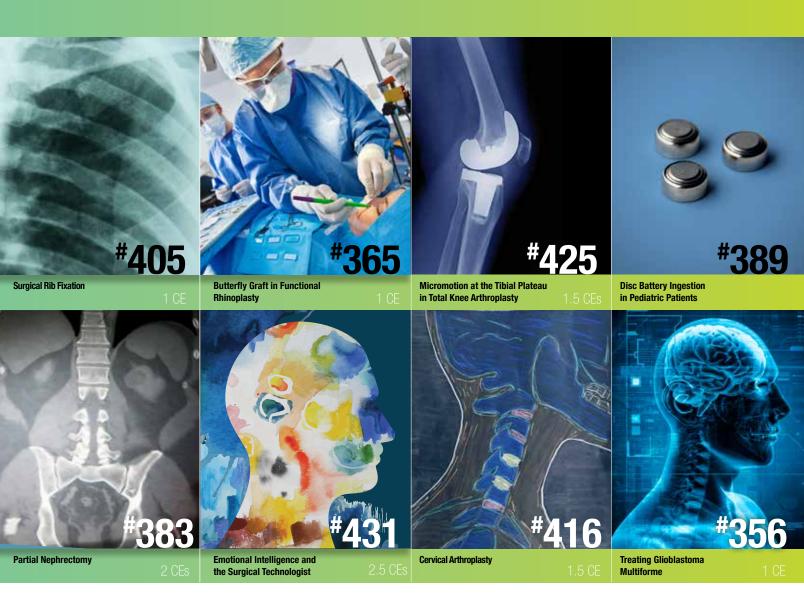
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