



# 2021 NSH CONVENTION

SEPTEMBER 14-16 • VIRTUAL

*Connecting. Empowering. Innovating.*

VISIT US ONLINE AT  
[HISTOCONVENTION.ORG](https://histoconvention.org)

## WHEN

Live Virtual Convention Dates: September 14-16, 2021  
On-Demand Content Access: September 16-September 30, 2021

## WHERE

Online from your device

## WHO SHOULD ATTEND

- Histotechs/Cytotechs in Clinical, Veterinary & Research Settings
- Pathologists and Pathology Assistants
- Lab Supervisors/Managers
- Scientists / Investigators / Researchers
- Students Interested in a Histology Career
- Sample Management Technicians
- Study Directors/Monitors
- Lab Aids that Assist with Study Set Ups
- Anyone involved in the collection, processing and evaluation of human and animal tissue samples

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## A Special Message from Convention Committee Chair, Jennifer Bull

Last year as I wrote this message our country and our world were just starting to understand the long term impacts of the COVID-19 crisis. In all honesty, I was not really sure what to expect from any of it – but I was hopeful. Hopeful that as a profession we would succeed and overcome new challenges in the lab, new challenges at home, and challenges everywhere in between- including a virtual edition of the NSH Annual Convention.



Hope has won.

We have all successfully forged ahead to overcome the obstacles that were laid before us. And the 46th Annual Convention revealed itself to be three of the most educational and uplifting days of my year. I cannot wait to experience it again as we connect for the 2021 NSH Convention, and I hope that you will join us in continuing the NSH tradition of education and celebration from wherever your device is located.



# SCHEDULE @ A GLANCE



## Monday, September 13, 2021

11:00am - 6:00pm: HT/HTL Exam Prep Course

## Tuesday, September 14, 2021

7:00am - 7:45am: Wellness for the East Coast  
 10:00am - 10:45am: Wellness for the West Coast  
 10:00am - 11:00am: Exhibitor Demos  
 11:00am - 4:00pm: Exhibit Hall Open  
 11:00am - 12:00pm: General Session 1  
 12:15pm - 1:00pm: Topic Focused Roundtables (ticketed event)  
 1:00pm - 2:00pm: Live Streamed Workshops & Learning Labs  
 2:30pm - 3:30pm: Live Streamed Workshops & Learning Labs  
 3:45pm - 4:00pm: Express Talks  
 4:15pm - 5:15pm: Live Streamed Workshops  
 5:15pm: Convention Happy Hour

## Wednesday, September 15, 2021

7:00am - 7:45am: Wellness for the East Coast  
 10:00am - 10:45am: Wellness for the West Coast  
 11:00am - 4:00pm: Exhibit Hall Open  
 11:00am - 12:00pm: General Session 2  
 12:15pm - 1:00pm: Exhibitor Demos  
 1:00pm - 2:00pm: Live Streamed Workshops & Learning Labs  
 2:30pm - 2:45pm: Express Talks  
 3:00pm - 4:00pm: Live Streamed Workshops & Learning Labs  
 4:15pm: Convention Happy Hour

## Thursday, September 16, 2021

7:00am - 7:45am: Wellness for the East Coast  
 10:00am - 10:45am: Wellness for the West Coast  
 10:00am - 11:00am: Exhibitor Coffee Talks  
 11:00am - 4:00pm: Exhibit Hall Open  
 11:00am - 12:00pm: General Session 3  
 12:15pm - 1:00pm: Topic Focused Roundtables (ticketed event)  
 1:00pm - 2:00pm: Live Streamed Workshops & Learning Labs  
 2:30pm - 3:30pm: Live Streamed Workshops & Learning Labs  
 3:45pm - 4:00pm: Express Talks  
 4:15pm - 5:15pm: Live Streamed Workshops & Learning Labs  
 5:15pm: Convention Happy Hour

# EXHIBIT HALL PREVIEW

## Exhibits and Vendor Partners Bring Innovation, Science and Networking!

NSH exhibits and vendor partnerships provide enhanced opportunities to learn and grow in the profession. Connecting with vendor partners not only helps your lab achieve its functional goals but also provides the opportunity to preview technologies and products. This year the Annual NSH Convention will feature:

### Scientific Posters

Make sure to check out NSH's Poster Sessions, featuring histology focused scientific research and laboratory advances.

### NEW! Vendor Demonstrations

This year's program features dedicated product demos so that you can preview what is new, ask questions, and connect with our vendor partners.

### NEW! SmartMatch

When you register for the Annual Convention and complete your profile, you can participate in SmartMatch – this year's platform for finding meaningful connections with vendors who have the products and services you are looking to learn more about.

### Exhibit Hall Hours

Exhibits will be available Tuesday, September 14th - Thursday, September 16th from 11:00 am to 4:00pm ET.

### What to Become an Exhibitor?

The NSH Virtual Exhibition will offer vendors the chance to design a virtual booth that meets their sales and engagement goals. Every booth will provide opportunities for vendors brand their with company logos/graphics. Each exhibiting company will be able to share content with attendees and engage in live video and text chats. New this year - Advertising & Sponsorship opportunities for non exhibitors.

To see our 2021 pricing and opportunities, visit [histoconvention.org](https://histoconvention.org).

## Featured Sponsorships

**Vendor Demos:** NSH is offering the opportunity to host a vendor demo session in the convention's main auditorium. The session would be open to all attendees and listed on the event's schedule of events. The session can run live or be presented prerecorded with live Q&A.

**Roundtable Talk Sponsorship:** NSH is offering topic focused roundtable sessions. Exhibitors that sponsor a roundtable will appoint a team of 5 to serve as moderators for the small group discussion. Roundtable topics include IHC, Lab Safety, H&E, Quality Management, Imaging & Analysis and Hard Tissue. The session would be listed as "Sponsored by Company Name" in marketing materials and communications leading up to the event.

**NSH Music Lounge:** Back by popular demand, NSH will once again be brining a live Music Lounge for attendees to stop by, network, and enjoy. By sponsoring this awesome event your company will get recognition by the DJ, and your name will appear in the program.

**Attendee Happy Hour:** Sponsor an attendee happy hour at the end of the day. NSH will work with the vendor to organize the activity for the happy hour. This sponsorship will be referred to as the "Company Name Happy Hour" in marketing materials and communications leading up to the event. Only 2 available.



# NETWORKING EVENTS

“Alone, we  
can do so little;  
together, we can  
do so much”

~Helen Keller



**Networking and connecting with other histology professionals is one of the top reasons that people attend the NSH Convention. Check out the networking opportunities below and see our tips making those contacts in a virtual environment**

## SmartMatch

When you register for the Annual Convention and complete your profile, you can participate in SmartMatch – this year’s platform for finding meaningful connections with vendors who have the products and services you are looking to learn more about.

## Convention Attendee Lounge

When you are not in sessions why not take a few minutes to connect with other attendees in the Attendee Lounge. You can use the chat to talk about hot sessions, upcoming talks, or vendor events.

## Convention Community

The NSH Convention Community is an exclusive online forum for participants attending the 2021 NSH Annual Convention to share ideas, answer questions, and start networking – as soon as they are registered. NSH will also post quizzes and other fun things (think contests), so be sure you check it out!

## THREE TIPS FOR VIRTUAL NETWORKING

**1 Contribute:** It can be intimidating to put your thoughts and expertise out there, but don’t be afraid. You can do small things like social sharing, commenting or starting a post, liking a post, and using the chat

**2 Keep It Short:** Think about when you receive a really long email, or see a community post that is incredibly long and repetitive, it might make you skip the meaning – so when you do share or post try to use short words, short sentences, short paragraphs. Consider bullet points or other ways to make reading your messages easier from any screen.

**3 Add a Picture:** It’s such a simple thing, but complete your profile and use a picture if you can. The picture doesn’t have to be a professional headshot – it can be a little casual.

# MEMBERSHIP

## NSH MEMBERSHIP OFFERING YEAR-ROUND VALUE, EDUCATION, AND OPPORTUNITY!

When you join NSH you become part of a community dedicated to providing you with the resources, education, and connections you need to grow and thrive in your career. Whether you are looking for job opportunities, continuing education, or simply histology related answers and advice, the NSH community is there, giving you the tools and support to accomplish your professional goals.

### Advancing your Career:

NSH provides leadership opportunities for our members through...

- Service on an NSH committee related to your specific area of interest
- Access to management tools to help you move up the career ladder
- Representation as an NSH delegate to other associations

Take advantage of the numerous leadership opportunities available to enhance your skills and round out your resume.

**Continuing your Education:** Did you know that NSH...

- Is the leading provider of certification preparation materials for the HT, HTL, and QIHC with new online prep courses available at discounted rates for NSH members
- Provides opportunities for free and discounted continuing education credits to maintain your certification, again for NSH members
- Offers funding for your education by providing access for scholarships through NSH's Scholarships Program, available only for NSH members

You've made the decision to pursue or renew your certification – take advantage of NSH webinars, podcasts, blog articles, and resource guides to assist you in reaching your goals.

**Succeeding in the Lab:** NSH's private member community - The BLOCK...

- Ranked as one of the top benefits of membership for peer-to-peer interaction.
- Offers an extensive library of checklists, processing guides, sample SOPs, archived webinars, infographics, as well as access to our popular Journal of Histotechnology
- A robust discussion forum which can be used for troubleshooting problems and sharing knowledge
- Access to the membership directory where you can find other NSH members in your local area

Share your knowledge and expertise or learn from others to help you solve the challenges you face in your daily job.



# NSH AWARDS & SCHOLARSHIPS

With the generous support of our sponsors, NSH bestows over \$27,000 to NSH members for the purposes of furthering their education and honoring their achievements.

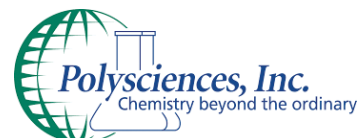
This year, NSH's Awards and Scholarship recipients will be recognized during the General Sessions, taking place September 14, 15, and 16th at 11 AM ET.

Who will be chosen this year? That's up to you! Submit a nomination for the NSH members whose accomplishments you would like to see celebrated on this year's virtual stage. Nominations will be open through June 4th. Visit [nsh.org](http://nsh.org) to submit.

Thank you to our Awards and Scholarship Sponsors!



**Richard Cartun, PhD**





# PROFESSIONAL DEVELOPMENT MATTERS:

## EARN A CERTIFICATE OF COMPLETION

### The Certificate of Completion program provides attendees with a marketable certificate within a specific category of interest.

This certificate provides concise documentation of continuing education for attendees who are required to provide documentation to renew their qualifications. Additionally, this certificate will provide attendees with practical, applicable skill documentation that can be used to enhance marketability within your organization.

### Certificates are offered in two areas: Immunohistochemistry & Molecular and Laboratory Operations.

To receive a Certificate of Completion, attendees must accrue a minimum of 9.0 credit hours in one of the two areas by attending the sessions designated below.

#### Immunohistochemistry & Molecular

- A Simple Excel Spreadsheet for Maintaining Antibody/Probe Validations, Tissue for Control Purposes, and Cases for Educational Purposes
- Breaking Spatial Barriers with Visium Spatial Gene Expression for FFPE
- IHC Roundtable
- Multiplex IF Using DNA Barcoded Primary Antibodies and Complementary Fluorophore-Labeled Probes: Alignment of PD-L1 and PD-1 Biomarker Panels with True Reference H&E
- New Companion Diagnostic Markers BRAF V600E and PRAME for Use in Malignant Melanoma Patient Management
- Tissue Microarray 101: The Basics
- IHC Optimization and Validation: Real World Solutions for a Standardized Approach
- IHC and Molecular Pathology Tests in Tissue-based Cancer Diagnosis

- Checkpoint Inhibitors as Cancer Treatments
- Mohs IHC Staining
- PD-L1 record keeping and how to bring testing in-house
- The use of RNAscope mRNA detection in Surgical Pathology
- Troubleshooting Immunohistochemistry Both Manual and Automated Technique

#### Laboratory Operations

- "Is it that time of year already?" Annual Performance Evaluations
- Facilitating Change
- Histogonomics: Ergonomics and Injuries in the Histology Lab
- IHC Workflow: Busting the Myth of the "Ideal" Workflow
- Lab Safety Roundtable
- Navigating Your Way to Successful Staffing Levels
- Root Cause Analysis in the Histology Laboratory
- Super Villains and Lab Safety: Origin Stories
- Anatomy of a Cyberattack
- Introduction to the Anatomic Pathology Patient Interest Association (APPIA) TOPS Program - Tissue Optimization & Pre-Analytic Standardization
- Labeling and Tracking 101: Laboratory Barcoding Demystified with Troubleshooting Hints and Tips
- Safety Challenges in Anatomic Pathology During Viruses? Epidemics
- A Multi Phased Approach Case Study - From Batch, Pre-printing to Implementing a Specimen Tracking System with Reporting Capabilities
- Building an Effective Quality Management Plan
- Decyphering the CAP Checklist
- Electrical Safety in the Laboratory
- Quality Management Roundtable
- Using The Power Of Teaching To Bring Out The Best In Others

Looking for resources to help justify conference attendance? Check out [www.histoconvention.org/employersupport.cfm](http://www.histoconvention.org/employersupport.cfm)

Send your team of five or more and save \$25 on each registration!



CONVENTION



# DIGITAL POSTER SESSIONS

Poster sessions at the Annual NSH Convention allow for the casual exchange of key scientific breakthroughs, emerging innovations, and new trends within the histology and laboratory community. The digital format makes it easier than ever for attendees to engage with the research, including watching a video presentation from the poster presenters discussing their research. You can design an individual poster or make it a laboratory effort!

**Abstract Submission Opens: May 1, 2021**

**Abstract Submission Deadline: August 23, 2021**

**Digital Poster Due: August 30, 2021**

## Key Requirements

- **All poster submissions are considered accepted upon successful transmission of the poster abstract.** The NSH Poster Team may reach out to individuals if there are questions or modifications needed.
- Poster presenters are required to be registered for the Convention.
- Poster presenters will be given the chance to record a short (2-5 minutes) video that will be posted with their poster file. This will allow you to share key points about your research to attendees that are browsing the gallery. NSH will assist with this process if requested.
- **Your poster must be submitted by August 30, 2021** - failure to submit on time may result in the removal of your poster from our program and will reduce your overall score assigned by the Poster Judging Team.

**Submit your Poster Online:** Poster applications must be submitted online and include title, author(s), and an abstract. Visit [www.histoconvention.org](http://www.histoconvention.org) and click "Submit a Poster" to

complete the application. Please note: Poster presenters are required to be registered for the Symposium/Convention.

**Digital Poster Format:** Please provide a high, print quality PDF for your main poster format. The top of poster must include the TITLE, AUTHOR(S), and INSTITUTION(S). Author(s) is responsible for all titles and headings. Poster should be self-explanatory, simple and specific, presenting material in a logical, legible manner. Use the past tense and the third-person (avoid "I," "we," and "our"). Basic theories or hypotheses should be presented with as much supporting data as possible, including pertinent statistical analysis and a conclusion. Introduction, written material, photos, charts and graphs should be in a sequential fashion, and trademarks must be indicated where appropriate. Include references. A disclaimer may be posted to indicate that, "results and/or modifications are in preparation for publication and cannot be used without permission of author(s)."

## Continuing Education Hours

NSH awards three continuing education hours for presenting a scientific poster at the Annual Convention. To receive these credits, you must complete the application provided by NSH.

## Abstract Publication

Abstracts of accepted posters are formatted for and included as part of the Symposium/Convention onsite program and will be published as submitted, without editing. In addition, all accepted abstracts are submitted for publication in the December 2021 issue of the Journal of Histotechnology. Any abstract that does not meet the standards of the Journal will be returned to the author for modifications and resubmission.



**If you are a first time presenter and would like help in the development of a poster abstract, guidance on content, or support putting together your short presentation video – ask us! Contact [connie@nsh.org](mailto:connie@nsh.org)**

# CONVENTION WORKSHOPS

NSH's Annual Convention offers a variety of learning formats and education tracks, with something for everyone at every career level and specialization.

## Learning Formats

**Live Stream Workshops:** 60-minute educational sessions given by scientific leaders covering all aspects of histology and anatomic pathology.

**Express Talks:** Lectures that explore a single idea illustrating a troubleshooting tip, management tool or technique demonstration

**Topic Roundtables:** Moderated small discussions on a focused topic; participants will be able to submit questions & topics for discussion. This is a great opportunity to connect one-on-one with peers, over your shared interests in histology.

**Learning Labs:** Hands on training that provide the opportunity for attendees to observe and practice skills. After you have gained the foundational knowledge from presenter lectures you will use materials that in some cases - will be mailed to you - to conduct the hands on elements you observed in the first part of the course. Not all Learning Labs will require the use of scientific materials, however you may be asked to conduct a project or exercise in your lab or with your lab staff. All Learning Labs are intended to be participatory whether they include exercises, hands on projects, small group discussion - or a combination of these formats.

**General Sessions:** Gain a global perspective on the science and industry by attending the daily General Session Talks. Each worth 1 CEU.

## Learning Levels

**Basic** – session is intended for individuals newer to the field of histotechnology, or it is a topic that is globally applicable (e.g. regulatory requirements/changes).

**Intermediate** – session is intended for individuals seeking to gain a deeper understanding and troubleshooting skills beyond basic techniques and fundamentals.

**Advanced** – session is intended for individuals seeking to learn complex concepts and technologies.



## Education Tracks

**Laboratory Operations** - Topics concerning lab safety procedures and personal safety measures including ergonomics, and covering topics dealing with government regulations, quality assurance/control and improvement.

**Imaging & Analysis** - Topics covering the acquisition, management and interpretation of pathology information generated from a digitized glass slide.

**IHC & Molecular** - Topics related to immunohistochemistry, immunocytochemistry, molecular pathology including ISH, CISH, and FISH, and related procedures.

**General Anatomic Pathology** - Topics related to histotechnology methods, techniques and theory, including troubleshooting, staining methods, lab techniques, gross pathology, equipment and refresher topics. This category also covers niche topics such as Mohs, EM, Tissue Array's, Laser Capture Microscopy, Flow Cytometry and more.

# LEARNING LABS

## What Are Learning Labs?

The Annual NSH Convention is excited to bring interactive training to the virtual environment. Learning Labs are hands on trainings that provide the opportunity for attendees to observe and practice skills. After you have gained the foundational knowledge from presenter lectures you will use materials that in some cases - will be mailed to you - to conduct the hands on elements you observed in the first part of the course.

Not all Learning Labs will require the use of scientific materials, however you may be asked to conduct a project or exercise in your lab or with your lab staff. All Learning Labs are intended to be participatory whether they include exercises, hands on projects, small group discussion - or a combination of these formats.

## What You Need to Register

To participate in Learning Labs you will need to carefully read what is provided and what you will need to supply from your home facility. This information is available in each session description. Learning Labs do require an additional fee and are available on a first come first serve basis.

### **LL-01 HT/HTL Certification Exam Prep Course presented by Jamie Pert, BS, HTL(ASCP)cm, MBcm, QIHCcm, Beaumont Hospital**

**Monday, Sep 13 11:00 AM - 6:00 PM CEU:6.00**

**Cost: \$99.00**

This course is designed for students that are studying for the HT/HTL certification exam, especially those that are taking the exam through the on-the-job training route. Discussion will include exam content, study material and resources available to help with the studying process. During the course we will discuss the concept of computer adaptive testing and time will be spent discussing exam taking strategies. Lecture topics will include fixation, processing, microtomy and special stains. Student interaction during the course will include small group exercises, interactive polling and practice exam questions.

The course will take place via Zoom and will use additional online learning tools for student interaction. In addition to accessing Zoom via your computer or tablet participants are encouraged to have access to a second device (eg. a phone) for participation in the course practice questions.

### **LL-02 Tissue Microarray 101: The Basics presented by Colleen Forster, HT(ASCP)QIHC, University of MN**

**Tuesday, Sep 14 1:00 PM - 3:00 PM CEU:2.00**

**Cost: \$45.00**

With the rapid interest and need for new biomarkers, the increasing cost of high complex testing, budget cuts, workforce shortages, the need to maintain quality, the tissue micro array (TMA) may offer some help. This learning lab will concentrate on several key aspects for good TMA production: purpose, design, tissue selection, and annotation of slides, TMA map design, sectioning and staining. Participants will get the chance to construct a simple TMA using a micro array mold.

### LL-03 Facilitating Change presented by AnnaStacia Penrod, HTL, MBA, HTL(ASCP), Epredia

**Tuesday, Sep 14 3:30 PM - 5:00 PM CEU:2.00**

**Cost: \$35.00**

Communication is key to successful transformations. Many leadership factors continue to affect the success of a leader, with or without change, including communication, humility, and accountability. Communication is more than just soliciting buy-in from stakeholders or updating the team on the progress; it involves coaching and engaging employees, allowing them to express their concern with the change. This learning lab will feature lectures on the three to five aspects a leader must provide followers for success: vision, skills, incentive, tools, and action plan. Change will occur if all five aspects exist, but without one aspect, the change is set for failure.

Attendee interaction during the course will include small group exercises, scenario role playing and interactive polling. The course will take place via Zoom and will use additional online learning tools for student interaction.

### LL-04 Introduction to Whole Slide Image Management and Viewer Software presented by Elizabeth Chlipala, BS, HTL(ASCP)QIHC & Miles Brous BA Premier Laboratory, BA, Premier Laboratory, LLC

**Wednesday, Sep 15 1:00 PM - 4:00 PM CEU:3.00**

**Cost: \$65.00**

The successful implementation of automated image analysis solutions requires consistent, high-quality histology preparation. This workshop will briefly review the basics of histology preparation and how it impacts the implementation of whole slide imaging. An examination of a number of pre-analytic factors, including section thickness, staining quality, and tissue placement will introduce the types of challenges faced by users of automated image analysis software. Hands-on demonstrations will teach participants scanning basics, and tools and functionalities of whole slide image viewers. Exercises will include scanning and viewing slides with defects and a variety of sample types.

The course will take place via Zoom and will utilize breakout rooms for exercises. Approximately three weeks prior to the Learning Lab participants will be given access to a dropbox that contains links and instructions for downloading free imaging software and images to be used for exercises during the learning lab. Please note the image files will be large. It is recommended that attendees use a PC (not Mac or tablet) for downloading and using the image software.



CONVENTION

## LL-05 Mohs IHC Staining presented by Jonathon Hetts, BS, HT(ASCP), Oregon Health and Science University

**Thursday, Sep 16 1:00 PM - 3:00 PM CEU:2.00**

**Cost: \$45.00**

The utilization of immunohistochemical staining in the Mohs lab has become more common place. Advances in micro polymer detection kits have allowed for ever more rapid and reliable immunostaining protocols. Immunohistochemical stains aid in the diagnosis and treatment of a large range of cutaneous malignancies in addition to non-melanoma skin cancers such as melanocytic neoplasms, dermatofibrosarcoma, and Paget's disease. This learning lab will go over the fundamentals of deploying immunostaining in the Mohs lab, the utility of certain antibodies, optimizing your protocols, quality control, and how to troubleshoot common issues.

The course will take place via Zoom. Approximately two weeks prior to the learning lab NSH will ship the needed staining kits to each participant for use during the learning lab. Attendees are required to provide the following items from their own lab:

- Microscope
- DI water
- Lab pencil or pen for labeling
- Charged Slides
- Coverslips
- 1-3ml transfer pipettes
- Control tissue slides for Mart-1/Melan-A
  - > 1-3 frozen sections cut at 4-5 microns on charged slides
  - > Positive frozen control tissue (melanoma/MIS or a nevus containing melanocytes).
- 2 Koplin jars
- Acetone (enough to fill koplin jar)
- X1-2 2-3ml test tube(s) and test tube rack to mix up chromogen
- Paper towels
- Slide box or manual staining platform (optional)

*Please contact NSH if you have issues obtaining control slides or any of the above supplies.*



*Staining Kits for this course are being supplied by Bio SB, [www.biosb.com](http://www.biosb.com)*

## LL-06 Introduction to Image Analysis presented by Miles Brous, BA, & Elizabeth Chlipala BS, HTL(ASCP) QIHC, Premier Laboratory, LLC

**Thursday, Sep 16 3:15 PM - 5:15 PM CEU:2.00**

**Cost: \$45.00**

Jumping into the world of image analysis can be overwhelming. This workshop will provide an introduction to two open-source image analysis programs (QuPath & ImageJ). We will discuss the benefits and drawbacks of both programs. Using QuPath, we will walk through how to generate and customize a positive cell count algorithm. In ImageJ, we will demonstrate how to measure particles in a variety of different ways. These demonstrations will show how to use many important tools in both QuPath and ImageJ.

The course will take place via Zoom and will utilize breakout rooms for exercises. Approximately three weeks prior to the Learning Lab participants will be given access to a dropbox that contains links and instructions for downloading free imaging software and images to be used for exercises during the learning lab. Please note the image files will be large. It is recommended that attendees use a PC (not Mac or tablet) for downloading and using the image software.

# EXPRESS TALKS

New to NSH this Year! Express talks are lectures that explore a single idea illustrating a troubleshooting tip, management tool or technique demonstration. Express Talks last 15 minutes & are worth .25 CEUs.

## 2021 Express Talk Topics Include:

- Modification of the CryoJane Tape-Transfer System for Cryostat Sections presented by Elizabeth Chlipala, BS, HTL(ASCP)QIHC, Premier Laboratory, LLC
- Chemical Specimen Preparation Workflow Efficiencies for Transmission and 3D Electron Microscopy presented by Steven Goodman, PhD, Microscopy Innovations, LLC
- A Simple Excel Spreadsheet for Maintaining Antibody/Probe Validations, Tissue for Control Purposes, and Cases for Educational Purposes presented by Richard Cartun, PhD, MS, Hartford Hospital
- Safety Fundamentals: Grossing Blades, Microtome Blades and General Lab Do's and Don'ts presented by Matt Bancroft, HT(ASCP)CM, Avantik
- Stains Be Gone presented by Jean Mitchell, BS, HT(ASCP), Newcomer Supply & Surena Becraft, Newcomer Supply
- Decalcification of Dental Tissues presented by Sibel Elif Gultekin, DDS, PhD, Gazi University Faculty of Dentistry
- Non-radioactive Uranyl Acetate Substitutes for Biological Electron Microscopy: Why Lanthanide Substitutes are Safer, Contrast effective and Cost Efficient presented by Philip Seifert, HTL(ASCP), Schepens Eye Research Institute of Mass Eye and Ear
- Introduction to the Anatomic Pathology Patient Interest Association (APPIA) TOPS Program - Tissue Optimization & Pre-Analytic Standardization presented by Robert Lott, HTL(ASCP), Roche Tissue Diagnostics/Ventana Medical Systems, Inc.
- PD-L1 record keeping and how to bring testing in-house presented by Richard Cartun, PhD, MS, Hartford Hospital
- Ribbons: The Lost Treasure of the Block presented by Amer Abu Alfa, MD, University of Vermont - Larner College of Medicine & Alexa Buskey, University of Vermont Medical Center
- Embedding technique for Mohs Micrographic Surgery presented by Melinda Chow, MS, HT(ASCP)CM, Memorial Sloan Kettering Cancer Center
- Electrical Safety in the Laboratory presented by Donna Chuddley, HT(ASCP)QLS cm, St. Lukes University Health Network

# TOPIC ROUNDTABLES

Our topic roundtables are moderated small discussions on a focused topic; participants will be able to submit questions & topics for discussion. This is a great opportunity to connect one-on-one with peers, over your shared interests in histology. The cost per roundtable is \$15. Attendance is limited. Each roundtable is worth .75 CEUs.

## Tuesday, Sep 14 12:15 PM - 1:00 PM

- IHC Roundtable
- Lab Safety Roundtable
- H&E Roundtable

## Thursday, Sep 16 12:15 PM - 1:00 PM

- Quality Management Roundtable
- Imaging & Analysis Roundtable
- Hard Tissue Roundtable

# THE WORKSHOPS

Workshops are 60 minute educational sessions given by scientific leaders covering all aspects of histology and anatomic pathology. Each session provides a chance for live question & answer with the presenter. Each workshop is worth 1.0 CEU.

## General Anatomic Pathology Workshops

Topics related to histotechnology methods, techniques and theory - including troubleshooting, staining methods, lab techniques, gross pathology, equipment and refresher topics. This category also covers niche topics such as Mohs, EM, Tissue Array's, Laser Capture Microscopy, Flow Cytometry and more.

- Troubleshooting Histology: Double Barrel Style -H&E and Special Stains presented by Clifford Chapman, MS, HTL(ASCP)QIHC, Medi-Sci Consultants
- Adhesive Slides - The Basics Made Easy presented by David Prine, Newcomer Supply, Inc.
- Basics of Thyroid Pathology presented by Paul Wakely, MD, The Ohio State U. Wexner Medical Center. James Cancer Hospital
- Bigger and better! Developments in Large Format Tissue Processing presented by Philip Bryant, PhD CBiol MRSB FIBMS, Cardiff Metropolitan University & Neil Haine, CellPath Limited
- Discovery: Beyond Human - The Pet Perspective presented by Kim Pickard, IDEXX
- Evaluation of Bone Marrow Biopsies with Hematology, Histology, Flow Cytometry, and Cytogenetics presented by Sheila Criswell, PhD, CT(ASCP),HTL,MLS,MB,SH,QIHC, University of Tennessee Health Science Center
- Interpretation of Commonly Used Histochemical Stain in the Routine Histology Lab presented by Linda McDonald, HT(ASCP), Cleveland Clinic Foundation & Thomas Lowell HT(ASCP) Northwest Pathology
- Issues with Tissues presented by Amy Aulthouse, PhD, Ohio Northern University
- Stellar Staining: How to Achieve the Right Intensity in Your Protocols presented by Joan Vesey, HT(ASCP), EpreDia
- Diagnostic Cytopathology: An Invaluable Tool For The Pathologist And Clinician In The Diagnosis Of Various Body Lesions presented by Richard Ormesher, CT(ASCP), Northwest Pathology, P.S.
- The Gross Room: Specimen Triage and Grossing presented by Annalisa Lopez, HTL(ASCP)QIHC, Phoenix Children's Hospital
- The Pathophysiology and Histopathology of Diabetes presented by Julie Habecker, PhD, Pacific Northwest University of Health Sciences
- How to Write a Scientific Paper for Publication presented by Sheila Criswell, PhD, CT(ASCP),HTL,MLS,MB,SH,QIHC, University of Tennessee Health Science Center

## IHC & Molecular Workshops

Topics related to immunohistochemistry, immunocytochemistry, molecular pathology including ISH, CISH, and FISH, and related procedures.

- Breaking Spatial Barriers with Visium Spatial Gene Expression for FFPE presented by Spence Fast, MS, 10x Genomics
- Checkpoint Inhibitors as Cancer Treatments presented by Julie Habecker, PhD, Pacific Northwest University of Health Sciences
- IHC Optimization and Validation: Real World Solutions for a Standardized Approach presented by Nadia Gale, MLT (CSMLS), Vancouver Coastal Health & Jeremy Johnston BS, HT(ASCP)QIHC Virginia Mason Franciscan Health
- IHC and Molecular Pathology Tests in Tissue-based Cancer Diagnosis presented by Aniruddha Ganguly, PhD, QIHC(ASCP), National Cancer Institute/ NIH
- Multiplex IF Using DNA Barcoded Primary Antibodies and Complementary Fluorophore-Labeled Probes: Alignment of PD-L1 and PD-1 Biomarker Panels with True Reference H&E presented by David Krull, HT(ASCP)QIHC, GlaxoSmithKline
- New Companion Diagnostic Markers BRAF V600E and PRAME for Use in Malignant Melanoma Patient Management presented by Guy Orchard, PhD, MSc (dist), FIBMS, Viapath Analytics
- The use of RNAscope mRNA detection in Surgical Pathology presented by Richard Cartun, PhD, MS, Hartford Hospital
- Troubleshooting Immunohistochemistry Both Manual and Automated Technique presented by Debra Horton, MT(ASCP)QIHC, Cunningham Pathology

## Imaging & Analysis

Topics covering the acquisition, management and interpretation of pathology information generated from a digitized glass slide.

- Deep Learning in Automated Breast Cancer Diagnosis by Learning the Breast Histology from Microscopy Images presented by Qiangqiang Gu, Mayo Clinic
- Deep Learning in H&E-stained Whole Slide Image Analysis presented by Qiangqiang Gu, Mayo Clinic, Danielle Maeser, University of Minnesota & Nicole Maeser, University of Minnesota
- Spatial transcriptomics and protein detection using Digital Spatial Profiling (DSP) and Imaging Mass Cytometry (IMC) presented by David Krull, HT(ASCP)QIHC, GlaxoSmithKline & Mohan Singh PhD GlaxoSmithKline(GSK)
- Training Your AI Networks: Blurring the Line Between the Computer Lab and the Histology Lab presented by Adam Smith

## Laboratory Operations Workshops

Topics concerning lab safety procedures and personal safety measures including ergonomics, and covering topics dealing with government regulations, quality assurance/control & improvement.

- "Is it that time of year already?" Annual Performance Evaluations presented by Melissa Brown, MS, HTL(ASCP) QIHC, University of Florida Veterinary Hospitals
- A Multi Phased Approach Case Study - From Batch, Pre-printing to Implementing a Specimen Tracking System with Reporting Capabilities presented by Karen Scales, B.Sc., MLT, Guelph General Hospital
- Anatomy of a Cyberattack presented by Valerie Cortright, BA, HTL(ASCP)QIHC, University of Vermont Medical Center & Anne Stowman, MD, University of Vermont Medical Center
- Building an Effective Quality Management Plan presented by Carl Sagasser, MBA, HT(ASCP), Quest Diagnostics
- Decyphering the CAP Checklist presented by Jason Molnar, MHSA, HT(ASCP) QIHC, AdventHealth Orlando
- Histogonomics: Ergonomics and Injuries in the Histology Lab presented by Allison Eck, MHA, HTL(ASCP)cm, QLS, AHI(AMT), CEAS1, Doylestown Hospital & Brad Flowers BS, PTA
- IHC Workflow: Busting the Myth of the "Ideal" Workflow presented by Ashley Troutman, MBA, HT(ASCP), QIHC, CLSSBB, Leica Biosystems
- Labeling and Tracking 101: Laboratory Barcoding Demystified with Troubleshooting Hints and Tips presented by Neil Haine, CellPath Limited
- Navigating Your Way to Successful Staffing Levels presented by Kathy Wilson, HT(ASCP)QLSCM, Clinical Pathology Laboratories
- Root Cause Analysis in the Histology Laboratory presented by Kathleen Dwyer, HT(ASCP), Quest Diagnostics, Incorporated & Debra Siena HT(ASCP)QIHC Statlab Medical Products
- Safety Challenges in Anatomic Pathology During Viruses & Epidemics presented by Izak Dimenstein, MD, PhD, HT(ASCP), Loyola University Chicago Medical Center (Ret)
- Super Villains and Lab Safety: Origin Stories presented by Dan Scungio, MT (ASCP), SLS, CQA (ASQ), CHOP, Dan the Lab Safety Man, Inc.
- Using The Power Of Teaching To Bring Out The Best In Others presented by Gerelyn Henry, BS, DVM, DACFE, YW August Companies

# REGISTRATION FORM

## NSH CONVENTION REGISTRATION FORMFORM

### STEP 1: REGISTRANT CONTACT INFORMATION

WEBDL

Name: \_\_\_\_\_

Credentials (HT, MD, Phd etc) \_\_\_\_\_

Title: \_\_\_\_\_ Company: \_\_\_\_\_

Email (required for registration): \_\_\_\_\_ Department \_\_\_\_\_

Business Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

### STEP 2: REGISTRATION TYPE

Not a member? Visit [www.nsh.org](http://www.nsh.org) to join before you register and you could save more than the cost of your membership!
☐ NSH Member - \$399    ☐ Non Member - \$599    ☐ NSH Student - \$249

### STEP 3: REGISTRATION ADD-ONS (LIMITED SEATS AVAILABLE, SOLD ON A FIRST COME FIRST SERVE BASIS)

#### Roundtables 9/14 12:15pm - 1pm

☐ RT-01 IHC Roundtable (\$15)    ☐ RT-02 Lab Safety Roundtable (\$15)    ☐ RT-03 H&E Roundtable (\$15)

#### Roundtables 9/16 12:15pm - 1pm

☐ RT-04 Quality Management Roundtable (\$15)    ☐ RT-05 Imaging & Analysis Roundtable (\$15)    ☐ RT-06 Hard Tissue Roundtable (\$15)

#### Learning Labs

- ☐ LL-01 - HT/HTL Certification Exam Prep Course (\$99.00)
- ☐ LL-02 - Tissue Microarray 101: The Basics (\$45)
- ☐ LL-03 - Facilitating Change (\$35)
- ☐ LL-04 - Introduction to Whole Slide Image Management and Viewer Software (\$65)
- ☐ LL-05 - Mohs IHC Staining (\$45)
- ☐ LL-06 - Introduction to Image Analysis (\$45)

Source Code: WEBDL

**STEP 4: PAYMENT INFORMATION:** (Please note that funds must be in US Dollars on a US Bank) \*returned checks will incur a \$25.00 charge

|                         |           |
|-------------------------|-----------|
| Registration Fee        | \$        |
| Roundtable Talks        | \$        |
| Learning Labs           | \$        |
| <b>GRAND TOTAL DUE:</b> | <b>\$</b> |

☐ Check Enclosed \$ \_\_\_\_\_☐ Purchase Order (copy of executed purchase order included, see payment terms.  
All POs must be received before August 23, 2021)☐ Charge my credit card \$ \_\_\_\_\_  
(Visa, Mastercard, AmEx, Discover)

Name on Card: \_\_\_\_\_

Cardholder Signature: \_\_\_\_\_

Cardholder Email/Phone: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

CC #: \_\_\_\_\_ Exp Date: \_\_\_\_\_ CVV: \_\_\_\_\_

Billing Address For Card Business: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

NSH Tax ID#: 52-1111284

**STEP 5: SUBMIT YOUR REGISTRATION**

Please note that submitting your registration binds you to all NSH registration policies found in the NSH Convention Registration Brochure and listed on the NSH Convention website, [www.histoconvention.org](http://www.histoconvention.org).

**Email: [histo@nsh.org](mailto:histo@nsh.org)****Fax: (443) 535-4055****Via Mail: National Society for Histotechnology, PO Box 75914, Baltimore, MD 21275-5914**

# REGISTRATION INFORMATION & POLICIES

## 3 Ways to Register



[www.histoconvention.org](http://www.histoconvention.org)



National Society for Histotechnology  
PO Box 75914 Baltimore, MD 21275-5914



443-535-4055/histo@nsh.org

## Registration Fees

|                                 |                            |
|---------------------------------|----------------------------|
| Member Rate                     | \$399                      |
| Non Member Rate                 | \$599                      |
| NSH Student Member Rate         | \$249                      |
| Group Rate for Organizations 5+ | \$25 off each registration |

**Registration Fees includes** access to 40+ CEUs (workshops, express talks, general sessions), digital poster gallery, virtual exhibit hall, virtual networking events, the online Convention Community. All live workshops and general sessions are recorded and available for viewing by attendees until September 30, 2021.

**Group Rates** To qualify and receive group rate pricing you must register your entire group at the same time. You cannot add on to the group after registration is complete. Individuals that receive the group rate must also come from the same organization/company.

**Student Member Rate** To qualify for the student you must be an NSH Student member.

## Networking Event Fees

|                        | Rate    |
|------------------------|---------|
| Roundtable Topic Talks | \$15.00 |

## Learning Lab Fees

|                                                                        | Price   |
|------------------------------------------------------------------------|---------|
| LL-01 HT/HTL Certification Exam Prep Course                            | \$99.00 |
| LL-02 Tissue Microarray 101: The Basics                                | \$45.00 |
| LL-03 Facilitating Change                                              | \$35.00 |
| LL-04 Introduction to Whole Slide Image Management and Viewer Software | \$65.00 |
| LL-05 Mohs IHC Staining                                                | \$45.00 |
| LL-06 Introduction to Image Analysis                                   | \$45.00 |

## Discount Codes/Special Offers

Use of discount codes is only valid at the time of initial purchase/registration. Refunds will not be authorized for existing registrations where the special offer was received after the initial purchase. Discount codes cannot be applied to already reduced/discounted registrations. Limit one (1) special offer/discount code per registration.

## Payment

Payment in full is due with your registration. Attendees with a balance due before the start of the symposium/convention will not be given access to the virtual platform.

### Registrants can pay by:

1. Check made payable to the National Society for Histotechnology **(Canadian and Foreign checks must be paid in U.S. Funds drawn on a U.S. Bank.)**
2. Credit Card (Visa, MasterCard, American Express, Discover)
3. Fully Executed Purchase Order – a copy of the purchase order must accompany your registration and include billing information. All POs must be received by August 23rd. Registrations made via Purchase Order must be paid in full by September 1, 2021. NSH will bill according to the instructions on the PO, however attendees are responsible for making sure the PO was paid in full.
4. Money Order

### Access to Recorded Sessions

Sessions that are recorded will be available through September 30, 2021. After that time access will no longer be permitted.

### Schedule Changes

Program and speakers are subject to change. Efforts will be made to notify participants in the event of cancellations and/or schedule changes.

### Continuing Education Credits

All NSH sponsored educational sessions have been approved by: ASCP, Florida's CE Broker, and PACE.



### Login Access to Virtual Platform

Registered attendees may not share their log in with other individuals including coworkers. CEU's will only be awarded to the registered attendee.

### Confirmation Letter

You will receive a confirmation via email once you are registered for the convention. If you have not received a confirmation within three weeks of submitting your registration, please contact an NSH staff member at 443-535-4060 or [histo@nsh.org](mailto:histo@nsh.org).

### Email Address

NSH requires a unique email address per registration. This email is used for communications between NSH staff and the registered attendee including the registration confirmation, workshop cancellations or changes, vendor announcements etc. NSH will not register multiple people with one email address nor will NSH register an individual without an email address.

### Cancellations/Substitutions

**Cancellations of Entire Registration:** All cancellations must be received in writing (email is acceptable) by September 1, 2021. Registrants who submit their cancellations in writing by this date will receive a refund minus a \$75.00 administrative fee. Cancellations received after September 1, 2021, (without provisions for a substitute) and no-shows are responsible for all convention fees. Cancellations will not be accepted by phone.

**Cancellations of Individual Sessions:** Cancellations for courses and networking events that have additional fees (Learning Labs, Roundtable Talks, Ask the Expert Talks) are eligible for a refund if received by September 1, 2021; cancellations must be in writing (email is acceptable). After this date session costs will not be refunded. NSH reserves the right to cancel a session, training, networking event due to circumstances beyond its control or for insufficient registration. Registrants for a canceled session will be notified immediately and allowed to substitute a session or obtain a full refund.

**Please note:** Cancellations, for any reason, will not be accepted for persons registering after the deadline of September 1, 2021. Substitutions will be accepted at any time, at no additional charge.

### Reimbursements

Reimbursements are processed after the conclusion of the convention and will be sent to the payer.

# VOLUNTEERS



**Ambassadors:** Serving as an NSH Workshop Ambassador is great way to get involved simply by attending the sessions you love. Workshop ambassadors will introduce speakers, moderate the chat, and facilitate the Q/A...and you earn an extra CEU!

**Roundtable Moderators:** Roundtable Talks are focused, small group networking events that will focus on the specific topics area - like H&E Staining, IHC, Safety, and Hard Tissue. Roundtable Moderators will manage the session schedule, moderate chat, and put attendees in breakout rooms...don't worry, NSH will provide scripts and training :) Roundtable moderators will get free access to this "add on" event.

**Poster Judge:** Each year the NSH Convention features an exciting display of scientific posters, by incredible authors. These posters are submitted and then scored by a team of poster judge volunteers. Consider being part of the poster team to help score and interview our presenters.

**Blog Post Writer:** NSH's blog, **Fixation on Histology**, is in need of authors! Share your advice, opinions, research, or entertaining lab tale with others in the histology field.

**Community Moderators:** Even before the festivities kick off, attendees will be able to network and talk in the online convention community on the Block. We need folks to make sure questions are answered and content and is fresh.

## Be Part of the Convention Committee!

Believe it or not, NSH is already preparing for the 2022 Annual Convention and that means we will need some dedicated volunteers to help with planning and executing this incredible event. NSH Convention Committee volunteers and Convention Program Team volunteers should be willing to dedicate their time to lead in program selection, securing equipment and safely managing it onsite, working with NSH Staff at registration, and leading our teams of onsite volunteers. These jobs are very important but incredibly rewarding.

Email us and let us know how you would like to volunteer – [connie@nsh.org](mailto:connie@nsh.org)