



THE NORTH CAROLINA SOCIETY OF HISTOTECHNOLOGY

PRESENTS: The 2020 NCSH Spring Meeting, February 27 -29

Sheraton Chapel Hill, North Carolina

Once again, we have invited a variety of speakers who have a passion for our profession and represent a cross-section of medical, research, industry and veterinary fields. Build professional networks, earn CEUs, and socialize with your fellow members. Meet your vendor representatives and view the latest laboratory products and instrumentation. Join us for lunch at the hotel – Friday lunch, a gourmet buffet, features presentation of vendor-sponsored awards for the Lyle Baker Scholarship, Histologist of the Year, and the Lifetime Achievement Award. Saturday lunch will consist of a deli buffet and business meeting. The Wine & Cheese Reception (Friday at 5pm) is included in your registration and you will have a chance to Meet & Greet your NCSH Officers and Volunteers. Members are strongly encouraged to participate. All raffles will take place Saturday morning at 10am and you do not have to present to win. Although there is not scheduled break for Saturday afternoon, there will be beverages and snacks available.

NCSH Executive Committee

President: Tonia Crook
 Vice President: Tracy Walling
 Treasurer: Otis Lyght
 Secretary: Aurel Alston

NCSH Appointees

Registrar: Brandy Cristante
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 CEU Coordinator: Ray Perry
 Membership Liaison: Teresa Heckman
 Vendor Coordinator: Teresa Heckman
 Vendor Liaison: Rob Hutchinson

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<http://www.ncsh.info>



Schedule at a Glance

TH Feb 27 5-7p **Registration Opens - *Keynote speakers – 5:30pm (see below)***

FRI Feb 28	7a-5p	Registration Open	
	8a-5p	Vendor Exhibits	
	8a-12p	<i>Preparing for the ASCP HT Certification Exam Part 1</i>	Walling
	8-9:30a	<i>The Key to Recovery: A closer look at what can go wrong during key in Histology and strategies for recovery</i>	Howard/Barrier
	8-9:30a	<i>Next Generation of IHC by Specialty</i>	Gordon
	9-10:30a	Break-Refreshments/Vendor Exhibits	
	1030a-12p	<i>Regulatory (QC and QA) by Technologist</i>	Sterchi
	10:30a-11:30a	<i>IT and the AP Laboratory</i>	Vasques
	12-1:30p	Awards Luncheon	
	1:30-2:30p	<i>Molecular Testing and What it Means for the Histology Laboratory</i>	Smith
	1:30-2:30p	<i>Tricks of the Trade</i>	Clark
	1:30-3p	<i>Immunohistochemistry in the Research Laboratory</i>	Clayton/Jensen/Brown
	2:30-3:30p	Break-Refreshment Service Open	
	3:45-4:45p	<i>Xylene: Love it or Leave it</i>	Vesey
3:45-4:45p	<i>The History of Hematoxylin</i>	Mitchell	
3:45-4:45p	<i>Hiring the Right Person</i>	Sterchi	
5-7p	Wine and Cheese Reception		

SAT Feb 29	7-11:30a	Registration Open (closed during Business Meeting)		
	8-11:30a	Vendor Exhibits		
	8a-12p	<i>Preparing for the ASCP HT Certification Exam Part 2</i>	Walling	
	8-9:30a	<i>Today's Artifacts - Tomorrow's Facts</i>	Jones	
	8-9:00a	<i>Histology for the Histotechnologist</i>	Baird	
	9:30-10:30a	Break-Refreshments, Vendor Exhibits Raffles (Vendor Hall Closing after the break)		
	10:30a-12p	<i>Molecular Diagnostics in Histotechnology</i>	Jones	
	10:30-11:30a	<i>NSH Roundtable</i>	Clark/Forster	
	12-1:30p	Business Meeting Luncheon		
	1:45-5p	<i>Tissue Microarray101: Basics</i>	Forster	
	Afternoon Break will be provided			
	1:45-3:15p	<i>The Wonderful World of Histology</i>	Thomas	
	1:45-2:45p	<i>Reprocessing: What to do When Things go Wrong</i>	Vesey	
	3-4p	<i>Brave New World: Scope of Practice Changes Ahead</i>	Daniels	
3:30-4:30p	<i>Taming Medusa: Assessing the Six Elements of [CLIA/CAP] Proficiencies</i>	Culpepper		

Session Descriptions

Thursday February 27, 2020

***Keynote speaker 1– Thursday evening – 5:30pm* (No charge with registration and CEU will be provided)**

Every Slide Tells a Story: Methods for Successful Immunohistochemistry

Dr. Tabari Baker BS, MS, Ph.D. Scientific Affairs Manager, Roche Diagnostics Corporation

The process of formalin-fixing and paraffin-embedding tissue specimens in order to assess protein expression by immunohistochemistry is commonly used in laboratories around the world. However, the lack of standardization and formal standard operating procedures introduces significant variability on immunohistochemistry assay effectiveness. This variability has a significant impact on both analytic and clinical outcomes for patients whose tissues are being analyzed. In this talk, we will discuss the common challenges found in the histology process, including tissue collection and handling, fixation, grossing, tissue processing, and embedding. We will discuss the importance of quality within each processing step, the possible sources of variation in the histology process, and where improvements and standardization in processes can be made to improve variability. Finally, we will provide the participant with key publications for reference.

***Keynote speaker 2 – Thursday evening – 6:30pm* (No charge with registration and CEU will be provided)**

Specimen Processing for Successful Molecular Testing in Oncology

Dr. Claire Edgerly MD. Pathologist and Associate Medical Director, Foundation Medicine

Advances in comprehensive genomic profiling have changed the diagnostic testing arena in oncology. Identifying the specific driver molecules in a patient's tumor can inform targeted treatment option, including immunotherapy options. Factors that contribute to successful testing include differences in test methods, specimen quality, and interpretation of genetic/genomic variants and association to treatment options. Recent advances in immunotherapy and liquid biopsies have also impacted patient outcomes. Technologies and factors changing oncology practice will be reviewed in the context of appropriate specimen procurement and processing.

Friday February 28, 2020

WS 1: Preparing for the ASCP HT Certification Exam Part 1 (3 hours)

Tracy Walling BS, HT, HTL(ASCP), Educational Coordinator/Histotechnology Program Carolinas College of Health Sciences

Taking the ASCP certification exam is a stressful situation even for the best prepared histology professionals. These two workshops are designed to be a comprehensive review of the material found on the exam. The five sub-tests of the registry exam are divided over two days for best retention of subject matter. The first day we will review Laboratory

Hotel Information



Sheraton Chapel Hill

One Europa Drive

Chapel Hill, North Carolina 27517

Tel: +1-919-968-4900

Be sure to state you are attending the NCSH meeting to get the preferred group rate (**\$112** +tax standard single/double occupancy)

Available until January 27 after which standard rates may apply.

Check in/out: 3pm/12pm

Operations, Processing, Microtomy, Fixation and Decal. The second day will be devoted to the Stains and Staining methodology that will be found on the registry exam. Ample time will be provided for questions and discussion. These workshops are designed for students who have graduated from an HT program and not sat for their exam yet and for the people helping them prepare. All are welcome!

WS 2: The Key to Recovery: A closer look at what can go wrong during key steps in Histology and strategies for recovery (1hr)
Jamie Howard BS, HT (ASCP) Field Support Specialist, Leica Biosystems, Dillion Barrier BS, Field Support Specialists, Leica Biosystems

In this workshop we will take a look at examples of what can go wrong during tissue processing and advanced staining. Two industry field troubleshooters will discuss real life examples of these hiccups and provide strategies to troubleshoot and resolve issues quickly. In a round table discussion format, participants will be encouraged to share their stories of histology mishaps and brainstorm ideas of steps that can be taken to avoid them and recover from them

WS 3: Next generation IHC by Specialty (1.5 hr)
Jeff Gordon BS, OEM Sales Manager , Millipore Sigma

Immunohistochemistry has now been a staple in diagnostic pathology for decades. This is partially due to pathologist utilization of antibodies in the realm of specialty panels. As the science evolves, the panels evolve, creating demand for the next generation of antibodies to improve diagnostic capabilities. This talk will give an overview of some of these novel diagnostic markers and how they fit into the specialty panels with the traditional antibodies to provide the best diagnostic capabilities to the pathologist, therefore giving the patient the best care available.

WS 4: Regulatory (QC and QA) by Technologist (1.5hr)
Diane L. Sterchi MS, HT/HTL(ASCP), NSH President

Regulatory issues are no longer just the job of quality assurance (QA) or quality control (QC). Because of the many staff shortages in the laboratories, bench technologists are asked to multitask more, write SOPs, and interpret/enforce regulatory issues daily. Many technicians are educated on-the-job for these tasks and often because of time they receive little or no insight as to why they are required to do things in a specific way. Many regulatory directives sound mysterious or vague at times, but they are a necessity of laboratory life. The mystery is the interpretation and the vagueness is how technicians may perceive them without the “why” we are following them.

Consent for Use of Photographic Images: Registration and attendance at, or participation in, NCSH meetings and other activities constitutes an agreement by the registrant to permit NCSH's use and distribution (both now and in the future) of the registrant or attendee's image or voice in photographs, videotapes, electronic reproductions, audiotapes of such events and activities.

Confirmation Email: You will receive a confirmation email once you are registered for the Meeting. If you have not received confirmation within 7 days of submitting your registration, please contact the NCSH Registrar, Brandy Cristante (ncsh.registrar@gmail.com)

WS 5: IT and the AP Laboratory (1hr)
Bill Vasques BS, MS, VP, Software and Systems Development, General Data Healthcare

This presentation will cover information technology (IT) and it's uses in the anatomic pathology (AP) laboratory. We'll look at the different systems/components that can help a laboratory's efficiency, including but not limited to labeling, automated staining and laboratory information systems. The hope is that after the presentation you'll have a better understanding of how you can use IT to improve your lab's workflow.

WS 6: Molecular Testing Fundamentals and What it Means for the Histology Laboratory (1hr)
Wanda G. Smith Pathology Supervisor, Trident Medical Center

Presentation of a fundamental and basic understanding of Molecular Testing and it's roles in the diagnosis and treatment of disease and how this impacts our Histology Laboratories.

WS 7: Immunohistochemistry in the Research Setting (1.5hr)

Natasha Clayton BA, HT, QIHC, (ASCP) Supervisor, Biologists, NIEHS, Heather Jensen BS, MS, Lead Biologist, NIEHS Quashana Brow BS, CEMT, Biological Science Laboratory Technician, NIEHS

This workshop will discuss immunohistochemistry in the research lab setting. We will discuss the protocol development process for novel antibodies, primarily in rodent tissues. Antibody selection, antigen retrieval, blocking and detection will be reviewed.

WS 8: Tricks of the Trade (1hr)

Sue Clark BS, HT/HTL (ASCP), QIHC, NSH Region III Director, Histology Manager, Mission Hospital

Let's bring it all out on the table! This will be a roundtable discussion about different tricks and techniques that are used throughout the histology. Attendees are asked to participate and share their knowledge and expertise.

WS 9: Xylene Love it or Leave it (1hr)

Joan Vesey HT (ASCP), Applications Support Manager, Milestone Medical

For over a century Histology has had a love affair with xylene. In spite of ever stricter regulations for occupational exposure and soaring disposal costs we often find breaking up is hard to do. Are the substitutes really safer? Will they work as well as xylene for both Processing and Staining? Reviewing the SDS for xylene and xylene substitutes will help us decide if it is time to consider going xylene free. Strategies for replacing xylene in existing processors and staining protocols will be presented. Options for eliminating Xylene through the use of Isopropyl alcohol as a clearing agent including microwave processing techniques will be introduced.

WS 10: The History of Hematoxylin (1hr)

Jean Mitchell BS, HT(ASCP) Newcomer Supply

The vast majority of tissue slide preparations in any histological laboratory, be it clinical, research or veterinary, employ the use of hematoxylin as their routine nuclear stain. Hematoxylin may be a common product in the histology laboratory but its origin, discovery, historical, economic and medical background is anything but common. This presentation will focus on all things hematoxylin including its logwood tree origin, its history as a textile dye and its discovery as biological stain. We will further explore the pathologists and scientists such as Delafield, Weigert, Harris and others that lend their names to different types of hematoxylin and the techniques they incorporated into our all-important nuclear stain.

WS 11: Hiring the Right Person (1.5 hours)

Diane L. Sterchi MS, HT/HTL(ASCP), NSH President.

Interviewing someone for specific jobs such as ours is very tricking at times. Their resume states that they are certified but that only means they may be able to do the job but does that absolutely mean they are a perfect fit for the job. This workshop will give you tools to get the information you need from the interviewee without crossing the HR no-no line.

Saturday February 29, 2020

WS 12: Preparing for the ASCP HT Certification Exam Part 2 (3 hours)

Tracy Walling BS, HT, HTL(ASCP), Educational Coordinator/Histotechnology Program Carolinas College of Health Sciences

Taking the ASCP certification exam is a stressful situation even for the best prepared histology professionals. These two workshops are designed to be a comprehensive review of the material found on the exam. The five sub-tests of the registry exam are divided over two days for best retention of subject matter. The first day we will review Laboratory Operations, Processing, Microtomy, Fixation and Decal. The second day will be devoted to the Stains and Staining methodology that will be found on the registry exam. Ample time will be provided for questions and discussion. These workshops are designed for students who have graduated from an HT program and not sat for their exam yet and for the people helping them prepare. All are welcome!

WS 13: Today's Facts – Tomorrow's Artifacts (1.5hr)

M. Lamar Jones, BS, HT/HTL(ASCP), Laboratory Director, Derm Lab, LLC

This presentation will teach the participant to recognize and identify artifacts from the gross board, fixation, processing, embedding, microtomy, H and E staining, special stains, cover slipping and other areas of Histotechnology. What is this? How did it happen? How do I prevent it? Together we will explore these questions and answers.

WS 14: Pathology for the Histotechnologist – The “why” behind the things you do and how those things contribute to patient care (1hr)

Dr. D. Bruce Baird, Pathologist, Pathology Associates of Kinston

Provide an explanation of some of the pathology terms that are heard in the histology laboratory and to educate histotechnologists on why they do some of the things they do and to demonstrate how these things contribute to patient care.

WS 15: Molecular Diagnostics in Histotechnology (1.5 hr)

M. Lamar Jones, BS, HT/HTL(ASCP), Laboratory Director, Derm Lab, LLC

The age of digital pathology is upon us. Many labs are converting some or all of their glass slides to digital images. Improvements in imaging technology have made this possible. We will review the uses of digital pathology including education, quality control, biomarker quantitative analysis, and primary diagnosis. There are many considerations in the implementation of digital pathology. We will discuss both the benefits and the challenges.

WS 16: NSH Round Table

Sue Clark BS, HT/HTL (ASCP), QIHC, NSH Region III Director, Histology Manager, Mission Hospital, Colleen Forster BS, CLA, HT (ASCP), QIHC University of Minnesota

Updates on NSH's efforts to have histotechnology recognized under CLIA: The Clinical Laboratory Improvement Advisory Council recently met at CMS. One of the reports was related to Laboratory Personnel Regulations. NSH's Clare Thornton was a participant on the workgroup after attending the November CLIAC meeting where she provided oral comments on the need to include histotechnology under CLIA. Workforce Development: Managers are set to start retiring en masse. Population demographics are contributing to labor shortages. Boomers are retiring, not as many Gen Xer's and large population of Millennials. In addition, we do not have enough clinical training sites. What is coming down the pike with Machine Learning, Digital Pathology/Whole Slide imaging, machine processing, oh my?!

WS 17: Tissue Microarray 101: Basics (3 hr)

Colleen Forster BS, CLA, HT (ASCP), QIHC University of Minnesota

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 microarray (TMA) may offer some help. This workshop 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 microarray mold.

WS 18: Wonderful World of Histology 1.5 hr)

Jacqueline Thomas, HT(ASCP) Histology Supervisor, Wayne Memorial

The objective of this workshop is to help you understand the fundamentals of Histology and the people behind the scenes. It's all about the tissue; however, it is also an art form! Human tissue is amazing. "One man's oh that's **gross**, is another man's no that's **art**." I will take you from receipt of the tissue to diagnosis and why each step is so important.

WS 19: Reprocessing: What to do When Things go Wrong (1hr)

Joan Vesey HT (ASCP), Applications Support Manager, Milestone Medical

Power failure, contaminated reagents, technical error, or processor malfunction; no matter how it happened you need to have a backup plan. This workshop will examine the tried and true techniques as well as new options to rescue tissue that just won't cut it! Discussing reprocessing utilizing a microwave processor, conventional processor and utilizing JFC Solution.

WS 20: Brave New World: Scope of Practice Changes Ahead (1hr)

Yvonne Daniels MSH, PA(ASCP), Pathology Assistant, Craven Pathology Associates

Careers in anatomic pathology are seeking new innovations in response to the increased demands of patient care and decreased pathology residency program output. The scope of practice within our technical roles may dramatically expand in the coming years as we incorporate new technologies and acquire additional skills. This presentation will provide an overview of various career developments in response to a changing laboratory setting.

WS 21: Taming Medusa: Assessing the Six Elements of Proficiency without Turning to Stone or Losing your Head (1hr)

Linda Parramore Culpepper BA, MA, HT (ASCP)

It may be argued that Histotechs are not properly classified as High Complexity Testing personnel under current CLIA/CAP guidelines and as such are not subject to annual competency assessment. Yet more and more organizations are standardizing proficiency testing across the board and drawing Histology personnel and Technical Assistants into the fold. So, OK, if this happens in your laboratory as it did in ours, what do you do? Where do you begin? How do you face the Medusa-like challenge without turning to stone or losing your head?

Not to fear, brave souls! Your voyage into the unknown is not as harrowing as it may seem. This workshop will offer some tried and true, down-to-earth, and cost-effective solutions to help tame the looming menace, along with a more robust solution offered by the CAP Online Competency Assessment Program. Participants should leave satisfied that they, too, can conquer their fears and navigate to safe harbor through a combination of knowledge, experience, and creativity—just as we do every day.

NCSH Food Drive

NCSH will also be supporting the Interfaith Council in Chapel Hill, NC by sponsoring a Food Drive. The Interfaith Council is located at 100 West Rosemary Street, Chapel Hill, NC 27516. We believe with the year round need, this would be an amazing way for NCSH to give back to a local community.

This is a quote from their website <http://www.ifcweb.org/services/food-pantry>

“The Food Pantry provides around 1,300 bags of groceries to those in need every month. Households in Chapel Hill or Carrboro, or in which an adult works in those communities, may become members of the Pantry who are welcome to receive groceries once a month. Grocery quantities offered are based on the number of people in the household. Food Pantry members may be eligible for other services.”

Please bring canned or dried nonperishable food to contribute to the Food Drive. We will have a table with volunteers to collect your donations.

Please register by February 21, 2020 as this will facilitate a speedy check-in at the registration table.

Registration the day of classes is always welcome.

Mail completed form & payment to: Otis Lyght, NCSH Treasurer, 1900 Neville Rd, Chapel Hill, NC 27516

Make checks payable to: NCSH

MAIL-IN REGISTRATION FORM ONLY									
Please ensure each person fills out a registration form, especially when paying as a group									
Workshop Fees (per workshop) \$18 per CEU					NCSH Member			Non-Member	
1 hr workshop					\$18			\$36	
1.5 hr workshop					\$27			\$54	
3 hr workshop					\$54			\$108	
Student (per day, unlimited workshops)					\$20			\$35	
Check here if you are a current member for 2020									
Name:									
Employer/School:									
Street Address:									
City:							State:		Zip:
Email:									
Tel:									
CIRCLE YOUR WORKSHOP SELECTIONS: pricing is for NCSH Members, see above guide for non-members									
WS 1	\$54	WS 6	\$18	WS 11	\$27	WS 16	\$27	WS21	\$18
WS 2	\$27	WS 7	\$27	WS 12	\$54	WS 17	\$54	Keynote 1	NC w/Reg
WS 3	\$27	WS 8	\$18	WS 13	\$27	WS 18	\$27	Keynote 2	NC w/Reg
WS 4	\$27	WS 9	\$18	WS 14	\$18	WS 19	\$18	Vendor Hall only	\$15
WS 5	\$18	WS 10	\$27	WS 15	\$27	WS 20	\$18		
Awards Luncheon, Fri Feb28									\$20 (BUFFET)
NCSH Business Meeting Luncheon Sat Feb 29									\$15
Registration Fee, which MUST accompany your form*									\$15
Currently Enrolled Student (must present student ID)									
2020 NCSH Membership Dues (you can join at this time and register at member pricing)									\$20
* Registration fee includes workshops, breaks, exhibit hall access, keynote speakers and the Wine and Cheese Reception.									
TOTAL									

Online Registration and Payment:

<https://ncsh.info/2020-online-registration>

