January 22  Taming Medusa: Assessing the Six Elements of [CLIA/CAP] Proficiency in Histology
Linda Parramore Culpepper, BA, MA, HT(ASCP)
New Hanover Regional Medical Center, Wilmington, NC
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, drawing Histology staff and Technical Assistants into the fold. If so, where to begin? This presentation will offer some tried and true, cost-effective solutions to 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 calm their fears and face the Medusa-like challenge through a combination of knowledge, experience, and creativity.

February 26  Using DISC to Decode and Diminish Conflict
Sharon H. Kneebone, CAE, IOM
National Society for Histotechnology, Ellicott City, MD
DISC is a behavior assessment tool based on the DISC theory of psychologist William Moulton Marston, which centers on four different behavioral traits: dominance, influence, steadiness, and conscientiousness. No one trait is considered either good or bad, just different. DISC has been successfully used to provide a framework for understanding and highlighting individual strengths as well as addressing potential blind spots. To understand others, we must first understand ourselves and then seek to understand. Participants will learn about the four personality types and complete a brief self-evaluation to learn about and understand their preferences. In addition to lecture, participants will be provided with scenarios, break into small groups, and given the opportunity to apply DISC on how to find a path forward that is neither emotional nor judgmental.

March 25  Use of Immunohistochemistry to Determine Malignancy Type and Help Determine Site of Origin of Metastatic Tumors
Frank Zuehl, M.D.
Great Lakes Pathologists, Milwaukee, WI
Immunohistochemical stains are essential for the correct classification of poorly-differentiated tumors and also play an important role in identifying the most likely site of origin of metastatic tumors. This webinar will discuss commonly used antibodies and algorithms used when diagnosing these difficult tumors. A better understanding of the use of these antibodies allows for an appreciation of the critical role of the immunohistochemistry lab in producing quality slides for these cases. Patterns of staining and choice of antibody clones are essential factors and will be discussed as well.

April 22  Acquired EGFR T790M Mutation in NSCLC: Testing in FFPE Tissue
Jane Ann Wade, HT(ASCP)MLT
West Virginia University, Morgantown, WV
Recent advancements for improving outcomes in NSCLC include immunotherapy treatments developed through genetic testing. EGFR mutations have been identified as a significant cause of poor response in a subset of NSCLC patients. FDA testing methods are now available using formalin-fixed paraffin embedded tissue to identify these mutations, and other genetic aberrations. The EGFR pathway, angiogenesis, tyrosine-kinase inhibitors, and in-vitro testing on FFPE tissue will be discussed.
May 27  Multi-Modal Testing of Formalin-Fixed Paraffin Embedded (FFPE) Material:  Tools and Applications
Carlos Gentry, HT(ASCP)QIHC, LSSBB, BS
Critical X, Houston TX
Multi-modal testing is characterized by the integration of multiple testing and detection technologies such as imaging and absorbance into precise, high-throughput, and cohesive testing workflows using multi-well devices. The Flex-Array® is a multi-well vessel and reagent system that facilitates the direct immobilization testing and analysis of intact FFPE cell or tissue sections for the subsequent performance of advanced multi-modal testing applications. The testing modes or technologies currently supported by the system are multiplexed immunohistochemistry, in situ hybridization (FISH), and more advanced applications such as quantitative ELISA-like assays and microdissection-free nucleic acid extraction. The format enables greater multiplex capabilities, workflow efficiencies, and improved control of processing and assay variables by way of sample and reagent volume standardization, cost-effective replicate analysis, integration with automated image analysis systems and downstream molecular workflows. In addition to the basic multi-modal testing concepts and sample preparation workflows, this webinar will cover the following multi-modal applications: 1. Multiplexed Immunohistochemistry (Brightfield and Fluorescence); 2. Quantitative ELISA-like Applications; 3. Microdissection-free DNA Extraction & Quantitation.

June 24  Theory and Application of Silver Stains in the Histology Laboratory
Debra Siena, HT(ASCP)QIHC
StatLab Medical Products, McKinney, TX
The silver stains used and performed in the histology lab are complex and diverse. They provide an everyday unique challenge to histologic preparation and staining results. Generally, five various chemical categories are used for this application. These include argentaffin, argyrophilic, impregnation, oxidation-reduction, and metallic-metallic reactions. They stain and demonstrate a wide array of tissue components and constituents including bacteria, fibers, basement membranes, carbohydrates, glycoproteins, and axons. Examples and chemical mechanisms of each technique will be examined and discussed. Other nuances of these procedures will be discussed from an end user perspective. Stain automation has prevented a full comprehension of key reactions that occur during these silver procedures. A wet workshop demonstrating two of these procedures will also be included in the presentation. The participant will have the opportunity to perform a GMS and Reticulin silver hands on stain procedures and have key reactions/mechanisms discussed during the procedure. An objective understanding of silver staining concepts will be the focus and better prepare the histologist for the challenges that will present themselves with these procedures.

July 22  The Total Test Approach to IHC Standardization
Kimberly Feaster, HTL(ASCP)QIHC
West Virginia University, Morgantown, WV
Standardization is a continual challenge in immunohistochemical testing. When considering the various parameters involved (i.e. tissue acquisition, fixation, protocol steps, reagents, instrumentation), this is not surprising; however, consistency and reproducibility are more important than ever. The prominence of personalized medicine, particularly companion diagnostics, has increased clinical accessibility to antibodies capable of identifying mutated or abnormally expressed proteins which are then targeted by therapeutic drugs. Consistency and reproducibility are also important in research in order to validate antibodies and their results. Aside from understanding the significance, the process and approach to standardization can be overwhelming. In the 1990s, a more rigorous ‘Total Test’ approach was recommended for IHC assays. This approach offers a comprehensive, methodical review by categorizing the factors that affect consistency and reproducibility. This session will explore the challenges to standardization factored into the approach, and how it can be utilized to improve standardization in any laboratory setting.

August 26  There is an Industrial Hygienist in my Histology Lab
Joseph Rambo, CIH, MS
Janssen Research & Development of Johnson & Johnson, Spring House, PA
Industrial Hygiene is defined as that science and art devoted to the anticipation, recognition, evaluation, and control of workplace hazards, which may cause sickness, impaired health and disease. What are those potential hazards that may lurk in your lab? Who is this person in my lab and what does their sniffer detect? We will look at some common workplace hazards in the Histology Lab and learn what and who is keeping us safe.

September 23  If I Only Had a Brain (CNS)
Donna Chudiddle, HT(ASCP)QIHC, St. Luke’s University Health Network, Bethlehem, PA
Deloris Carter, HT(ASCP), Independent Contractor, Bethlehem, PA
This presentation will address the structure (both macroscopically and microscopically) and function of the CNS (brain, spinal cord and nerve) and the stains used in the histology laboratory. A discussion about pathology and diseases involving these tissues in the current news.

October 28  Digital Pathology and WSI Regulatory Overview
Liron Pantanowitz, MD
UPMC Shadyside Hospital, Pittsburgh, PA
This webinar will review current regulatory considerations when using Whole Slide Imaging as well as provide relevant updates that may have been introduced within the last 12 months.

November 18  It Could Happen To You: Hematoxylin And Eosin Staining Artifacts
Nicole Anne Konop Leon, HTL(ASCP), BS
Children’s Hospital of Wisconsin, Milwaukee, WI
This webinar will focus on troubleshooting artifacts that show up on H&E stained slides. There are so many variables in Histology that can lead to staining artifacts. It can take days, weeks and even months to resolve an issue. Patience is a virtue. Using specific examples I’ve witnessed in my career, I will show stained slide artifacts and explain the process used to come to a resolution. After this webinar you will have a better understanding of troubleshooting and will know where to begin the next time a staining artifact shows up on your H&E slide.

December 23  CAR-T Cell Treatment
Sherita Meyer-Gaun, BS, HTL(ASCP)QIHC
MD Anderson Cancer Center, Anderson, TX
This webinar will provide a high level overview of CAR T-cell therapy. By the end of the webinar, participants will know how this therapy works, how it is currently being used, and touch on what histotechnologists should expect.
How Does it Work?
NSH lab webinars are a great, inexpensive way to provide continuing education to a large number of employees. The cost for each session is the same regardless of the number of attendees who watch. CEUs are accepted by ASCP, PACE and Florida's CE Broker. Webinars are usually held the fourth Wednesday of the month, beginning at 1:00 PM Eastern Time. Occasionally, due to holidays, it may be the third Wednesday of the month.

Can I Register More Than One Lab?
Yes, you can register more than one lab or site, and we do offer a discount. See pricing below. You must register for the full series to receive the discount.

What Do I Need to Participate?
To participate you will need a computer with speakers.

Do These Sessions Qualify for CEUs?
Attendees receive one (1) continuing education hour for participation in a session. An archived version of the session is also provided to each participating lab about 1 week following the live event. Individuals unable to participate on the day of the session can still earn one continuing education hour by watching the recorded session. CEUs can be claimed for up to one year of the original date of the session.

---

**2020 Webinar Registration Form**

**Step 1: Site Coordinator Contact Information**

Site Coordinator: _______________________________ Organization: _______________________________
Street: _________________________________________________________________________________________________________________________________________________________
City: _______________________________ State: ________ Postal Code: _____________ Country: ______________________________
Phone: _______________________________ Email: _______________________________

**Step 2: Select Your Sessions**

___ Complete Series ($1595, by 1/22/20)
___ 1/22/20 ($150) ___ 7/22/20 ($150)
___ 2/26/20 ($150) ___ 8/26/20 ($150)
___ 3/25/20 ($150) ___ 9/23/20 ($150)
___ 4/22/20 ($150) ___ 10/28/20 ($150)
___ 5/27/20 ($150) ___ 11/18/20 ($150)
___ 6/24/20 ($150) ___ 12/23/20 ($150)

**Step 3: Multi-site/Group Registration**

___ No - I am registering just one site
___ Yes - 2 sites @ $1495 per site
___ Yes - 3+ sites @ $1395 per site

For multi-site registrations please complete Step 1 of this form for EACH site.

**Step 4: Payment Information**

___ A check for the full amount made out to NSH is included with this form
___ A fully executed Purchase Order is included. P.O. # 
___ Please charge my credit card the total amount due. (DISC, MC, Visa, AMX)

CC Holder Name: _______________________________
CC Holder Email: _______________________________
CC #: _______________________________
Expiration Date: __________________ CVV Code: _______________
Tax ID #: 52-111-1284

Option 1: Fax this form to 443-535-4055
Option 2: Mail to NSH, PO Box 75914, Baltimore, MD 21275-5914
Option 3: Register on-line at www.nsh.org