



The National Society for Histotechnology Proudly Presents

The 6th Annual

NSH Summer Symposium

DATE:

June 17 - 18, 2013

PLACE:

Planet Hollywood
Resort & Casino
Las Vegas, NV

The National Society for Histotechnology is thrilled to offer the 6th Annual Summer Symposium in Las Vegas, NV! General Sessions and workshops featuring expert speakers and our one day Exhibit Fair will provide you with the tools, advice and guidance you seek in your professional career. The Summer Symposium is one of the best values for your precious training dollars in histology education offering 12 continuing education credits and an Exhibit Fair for one low price!

Registration Fees:

Member: \$229 | Student Member: \$169 | Non Member: \$269 | HT Readiness Course Only: \$139

Schedule at a Glance

Monday, June 17, 2013

7:30am - 8:30am:	Registration & Continental Breakfast
8:30am - 10:00am:	General Session I
8:30am - 4:15pm:	HT Readiness Course
10am - 10:15am:	Refreshment Break
10:15am - 11:45am:	Workshops A&B
11:45am-1:00pm:	Lunch on Your Own
1:00pm - 2:30pm:	General Session II
2:30pm - 2:45pm:	Refreshment Break
2:45pm - 4:15pm:	Workshops C&D

Tuesday, June 18, 2013

8:00am - 8:30am:	Registration & Continental Breakfast
8:30am- 10:00am:	Workshops E&F
10:00am - 3:00pm:	Exhibit Fair
11:00am - 1:00pm:	Lunch in Exhibit Hall
1:00pm - 2:30pm:	Workshops G&H
2:30pm - 2:45pm:	Refreshment Break

Travel Arrangements

Hotel Planet Hollywood Resort & Casino
Information: 3667 Las Vegas Blvd. South • Las Vegas, NV 89109

Registrants are responsible for hotel / travel arrangements. We have secured a small block of rooms at the discounted group rate of \$105.00 plus applicable taxes. To make reservations call (866) 317-1829 and inform the agent that you are with the National Society for Histotechnology (group code SMNSH3) Symposium. Hotel Deadline is May 15, 2013.

Flying to Las Vegas?

Contact NSH Travel Services for best rate on air fare. Call 877.312.455 between 8:30am-6:30pm, CTM-F or book on-line at www.nshtravel.com

Need more information about the event, contact the NSH Office at (443) 535-4060.

Cancellations and Refunds

All cancellations must be received in writing by June 7, 2013 to receive a full refund. Cancellations received after June 7, 2013 and no shows to the event are non-refundable. Substitutions are accepted at any time and we must receive this request in writing. Individuals registering after June 7, 2013 will not be eligible for a refund.

REGISTRATION FORM

Scan the Code to Register Online or Visit:

<http://s3.goeshow.com/nsh/SS2013/ereg711677.cfm?pg=home>



Name: _____ Title: _____ Company: _____

Address: _____

City: _____ State: _____ Zip Code: _____ Country: _____

Phone: (____) _____ - _____ Email: _____

(Email required for registration)

Membership Status (check all that apply):

Current NSH Member, my dues are paid New Member – I would like to join today (\$80) No Thanks – not a member and I don't wish to join

Select Registration Type:

Member Registration: (\$229.00) Non-Member Registration: (\$269.00) Student Member Registration: (\$169.00) HT Readiness Only (\$139.00)

Are you attending the HT Readiness Course on Monday? Yes No (included in Full Symposium fee but pre-registration required)

Payment Information: (Please note that funds must be in US Dollars on a US Bank)

Check Enclosed \$ _____ Purchase Order #: _____ Charge my credit card \$ _____ (Visa, Mastercard, or AmEx or Discover)

Name on Card: _____ Cardholder Signature: _____

Cardholder Email/Phone: _____

CC #: _____ Exp. _____ CVV Code: _____ **NSH Tax ID #: 52-1111284**

Send in Your Registration! Fax: (443) 535-4055 Via Mail: NSH, 8850 Stanford Blvd, Suite 2900, Columbia, MD 21045

For questions regarding your registration or if you need to make changes, please call our office at 443-535-4060 between the hours of 9:00 a.m. and 5:00 p.m. Monday - Friday Eastern time or email, jessica@nsh.org.

GENERAL SESSION 1: GENOMIC MEDICINE & THE ELECTRONIC HEALTH RECORD

**Presented by Sally Lewis, PhD, MLS(ASCP)HT,
Tarleton State University**

The conclusion of the Human Genome Project (HGP) including the collaboration of 23 labs around the world produced the initial draft of whole human sequence in 2001. This project lasted more 13 years and cost approximately 3 billion dollars. The HGP spawned tremendous advances in basic understanding of human DNA biology and individual sequence variation within the genome and produced technology capable of sequencing large parts of the genome rapidly at lower costs. Competition between instrument manufactures has led to numerous assays to diagnose, provide prognostic information and determine optimum treatment decisions and improve quality of care for life. Increased training of Histotechnologists to partner with Pathologists to fully understand the tissue preparation process and its effects on the variation of results will continue to be critical to provide support to make personalized medicine a reality. We will discuss the skills necessary to provide Histotechnologists the tools to support the adoption of quality laboratory practices in personalized medicine. We will include a discussion on the impact of the evolving electronic medical record to support personalized medicine. Additionally, we will explore the effect of the use of digital pathology to evoke additional demands and enhance the practice of Histopathology.

GENERAL SESSION 2: GHS HAZARD COMMUNICATION TRAINING OF MSDS(SDS) FOR HISTOTECHS

**Presented by Ada Feldman, HT(ASCP)HTL CM,
Anatech, Ltd**

The OSHA adoption of the Global Harmonization System (GHS) requires employers to train workers by December 1, 2013 on the 16 section format of the Safety Data Sheets (SDS) (formerly called Material Safety Data Sheets. Safety seminars cover the type of information found in an SDS. This presentation will not only instruct histotechs on the format, but also how to effectively use the SDS to help answer technical questions. Having problems with a stain? Learn how the SDS can assist with troubleshooting. If you need to have a product hauled away, learn what sections of the SDS can help you complete the paperwork. When you are sending a chemical to another lab; find special labeling requirements in the SDS. Participants will definitely see the SDS as a new reference material after attending this session.

WORKSHOP A: IF YOU HAVE THE MUSCLE; I HAVE THE NERVE

**Presented by Jean Mitchell, HT(ASCP),
University of Wisconsin Hospital & Clinics**

Preparation of muscle biopsy tissue for clinical diagnosis presents a unique challenge to the histologist. A brief overview of anatomy and physiology of the normal human skeletal muscular system will be presented along with a review of abnormal clinical findings and symptoms that warrant a patient to undergo a muscle biopsy procedure. Transporting, handling and the special procedures that muscle biopsies require for optimal results will be discussed. The panel of non-enzyme and enzyme stains routinely employed for muscle biopsies with pathologic changes demonstrated by each stain and their relevance to disease states will be mentioned along with troubleshooting suggestions to ensure optimal staining results. The significance of immunohistochemical procedures and the use of electron microscopy to enhance/confirm muscle disease diagnosis will be presented.

WORKSHOP B: RISK ASSESSMENT & JOB HAZARD

**Presented by Peggy Wenk, HTL(ASCP)SLS,
William Beaumont Hospital**

How do you know which hazard is the most hazardous in your lab? Which is more dangerous – something you are exposed to rarely but is quite dangerous, or something that is only a little bit dangerous but that you are exposed to on a more regular basis? Which one of these should you first make changes to? If you make changes, have you reduced the hazard, or is it still just as hazardous? Which hazards are your employees being exposed to that put them into dangerous situations? Are you assessing everyone, including the transcriptionists that walk through your lab to discuss with the PA about a scribble on the report? Doing an assessment of the hazards and risks in laboratory is a federal requirement, yet many labs have never done this, and often don't know where to start. This talk will highlight a technique that can be used list, organize and quantify all the hazards and rate them (Risk Assessment) and also to do the same for all the job duties of your employees (Job Hazard Analysis). Then, using this information, chose which hazard to start making changes to, and then demonstrate the improvements in a quantitative manner.



WORKSHOP C:

HISTOTECHS IN MOTION: EVALUATING ERGONOMIC CONCERNS FOR YOUR LABORATORY

**Presented by Dale Telgenhoff, PhD, HTL(ASCP)
CM, Tarleton State University**

Histology laboratory employees are very familiar with health and safety issues related to chemical and biological exposure, and have extensive safety programs in place to monitor these areas. Ergonomic safety is included in these programs, but is usually a secondary consideration. According to the Occupational Safety and Health Administration, repetitive motion injuries are the nation's most common and costly occupational health problem. Repetitive strain injuries (RSIs) and cumulative trauma disorders (CTDs) are common in laboratory areas which require an over-use or misuse of muscles, tendons, and nerves. For the histotechnician this includes microtomy, working in fume hoods and computer workstations, microscopy, and pipetting. Microtomy is an area of particular concern, as the average technician uses between 40 and 50 cassettes per shift, turning the microtome wheel at least 1000 times in an 8 hour period. In this workshop we will discuss the causes of work related musculoskeletal disorders, the symptoms, risk factors, and strategies to avoid long-term injuries. Additionally we will discuss how to perform an ergonomic assessment in your laboratory to identify and rectify potential problem areas.

WORKSHOP D:

NEUROPATH KALEIDOSCOPE

**Presented by M. Lamar Jones, HT(ASCP),
Carolinas College of Health Sciences**

This workshop will teach the participant to identify, perform and troubleshoot many special stains and immunohistochemical stains utilized to demonstrate the central nervous system. History, fixation, processing, microtomy and staining of CNS tissues will be discussed. Special stains of the central nervous system.

WORKSHOP E:

A HISTOTECH'S GUIDE TO GROSSING

**Presented by Dale Telgenhoff, PhD, HTL(ASCP)
CM, Tarleton State University**

The gross room is where specimens are accessioned into the histology laboratory, and the role of the histotechnician in this process is critical for the macroscopic analysis of tissues. Traditionally the work involved accessioning specimens into the LIS system, cassette preparation, ordering specimens, stocking, and clean-up. More and more these roles are expanding, with some hospitals employing histotechnologists for the gross analysis and preparation of specimens for histology. This workshop will review the fundamentals of gross dissection such as orientation, dissection, marking, description, and sampling. We will also examine the role of the pathologist, pathology assistant, and histotechnologist in this evolving area of the laboratory. Safety concerns in the gross room will be discussed, as well as requisitions, considerations for different tissue types, and the purpose of a slide index.

WORKSHOP F:

OPTIMIZING MRNA AND MIRNA ISH ASSAYS FOR RESEARCH

**Presented by Adrian Murillo, Ventana
Medical Systems**

Interrogation of nucleic acid presence in situ has been relevant for many clinical and research applications. This workshop addresses methods and interpretation of nucleic acid status in situ. Topics related to methods will include probe design and detection strategies to measure presence of mRNA and microRNA molecules in situ. Interpretation related topics will include the enumeration of signals and common interpretive mistakes. Key assay functions will be defined and examples will be shown to highlight the best practices when optimizing an mRNA or microRNA ISH assay.



WORKSHOP G: MINING FOR MINERALS

**Presented by Peggy Wenk, HTL(ASCP)SLS,
William Beaumont Hospital**

Minerals are often needed to be demonstrated in tissue. Either the mineral is supposed to be in the tissue, but there may be too much or not enough. For other minerals, they are not supposed to be in the tissue, but are because of either a metabolic disorder or being incorporated from the outside world. This talk will discuss the expected amounts and location of: iron (hemosiderin), calcium salts, copper, urates, carbon and silica/asbestos. The disease states associated with these minerals will be discussed, and the staining mechanism of the special stains will be explained.

WORKSHOP H: BIOMARKERS FOR LUNG CANCER

**Presented by Sally Lewis, PhD, MLS(ASCP),
Tarleton State University**

Advances in understanding the molecular alterations in tumor development, progression and survival have made a profound impact on the treatment efforts directed at patients with cancer. Advances in the selection of appropriate targeted therapies are demonstrated by the success of tyrosine kinase inhibitors (TKI's) used in patients with non-small cell lung cancer (NSCLC). This presentation will begin with a review of the genetic basis of cancer followed by a brief discussion of the role of pathology in the era of personalized genomic medicine. A comparison of the shift from traditional NSCLC classification to the current requirements for a molecular classification will encompass a discussion of the pathophysiology of Epidermal Growth Factor Receptor (EGFR) and Anaplastic Lymphoma Kinase (ALK) mutations. At the core of this presentation will be a discussion of the role of the Pathologist and the Histotechnologist in ensuring selection of appropriate patients for mutation testing, judgement of the adequacy of the specimen, selection of an optimum reference laboratory with consideration of testing methodology and turn-around- time, and integration of the mutation report into the medical record. In conclusion, we will review other molecular tests that may have clinical implications in lung cancer treatment.

WORKSHOP I: BREAST CANCER: GROSSING, STAINING & INTERPRETATION

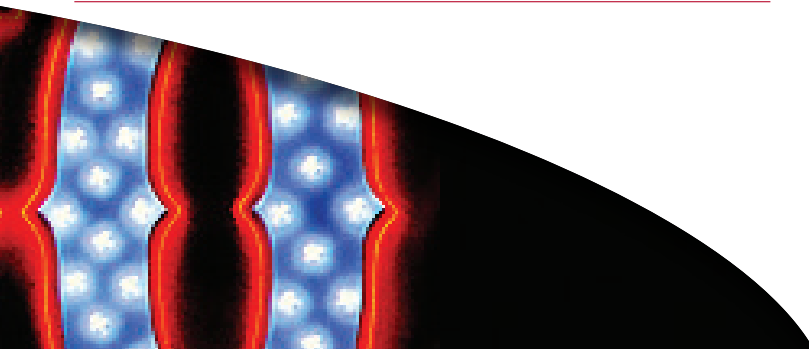
**Presented by M. Lamar Jones, HT(ASCP),
Carolinas College of Health Sciences**

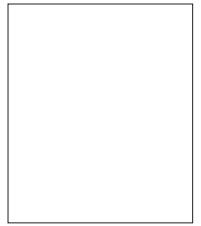
A great deal of emphasis has been placed on breast cancer in the last several years in conjunction with the ASCP/ASCO fixation guidelines. Almost all types of breast cancer are affected. The importance of grossing techniques followed by the proper fixation and processing are extremely vital. The types of breast cancer and examples of each will be demonstrated. The proper use of the antibodies used for IHC expression will be shown through images. The use of image analysis will be discussed with the interpretation of the breast cancer case.

WORKSHOP J: BUILDING A CORE LAB: SELECTING SERVICES, MAINTAINING STANDARDS & ESTABLISHING CERTIFICATIONS

**Presented by Carol Barone, HT(ASCP), Nemours
- Al Dupont Hospital for Children**

Many hospitals, universities and other large medical-scientific organizations have begun to develop Core Labs to support extended and specialized services for histology. Histology labs are by no doubt, the backbone of continual, day-to-day operations of every pathology service. However, as many of these laboratories become pressured from higher volume workloads and requests for shorter turn-around times, the development of core services for specialized needs is becoming a common practice. Core labs, within the matrix of the larger organization, fulfill this need, whether it is clinical, research or some other integration. Development of new complex histology technologies, such as IHC, laser micro-dissection, tissue micro-array or in situ RT-PCR are often needed by research investigators and clinicians, alike. Yet, the time consuming and intricate protocols required for these new technologies often fall outside the objectives and constraints of a general histology lab. Core labs bridge the gap. Core Labs, however, do face a variety of challenges quite different from those of the standard histology service. Besides being fundamentally different in standard protocol technologies, they are usually different in operation design. This brief presentation will introduce those planning to add this service, to the process of developing and maintaining, a viable core laboratory.





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Earn 12 Contact Hours!

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HT Eligible?

**Don't Miss the Full Day
HT Readiness Course
on June 17!**

Who Should Attend?

Histotechs/Cytotechs in Clinical, Veterinary & Research Settings
Lab Supervisors & Managers
Anyone involved in the collection, processing & evaluation of tissue samples