

Region II Meeting June 10-12, 2010 Clarion Hotel & Conference Center Atlantic City West, NJ

Educational Sessions

Session/Room	Α	B	С	D	
June 10 Thurs PM	The Right Stain: Troubleshooting Histology Stains Chrisovalantou Grover		Manager's Forum: Roundtable Discussion for Anatomic Pathology Managers Moderated by Diana Goodwin		
June 11 Fri AM	VIR Seminars	Sectioning Artifacts: Causes and Cures for Paraffin and Frozen Sections Peggy Wenk	Going LEAN: 5S Visual Work Place and Value Stream Mapping Carol Barone & Jim Jones	Validation, QC & Troubleshooting IHC <u>BREAK</u> HIER: A Review of Methods, Reagents, and Devices Both talks by Joe Myers	
June 11 Fri PM	Clinical Seminars	The Cardiovascular System: Form Follows Function Joseph Tamasi	Principles of Lean Overview with Simulation (Hands On) Jim Jones	Keeping You in the Comfort Zone: Ergonomics for Lab Workers (Hands On) Barbara Daugherty	
June 12 Sat AM	Safety Seminars	Prostate Cancer & Prostate Cancer IHC Markers, Traditional & New Traci DeGeer	Ultramicrotomy: Big Word, Tiny World John Stock	CAP Laboratory Accreditation Program Update - Focus on Pathology Dr. Craig Dise	
June 12 Sat PM	General Information Seminars	Preparing for the HT/HTL Certification Exam Linda Foster-Brown	Cytoprepatory Techniques Sophie Thompson & Dawn Curran <u>BREAK</u> Immuno-staining Cytologic Material Joe Myers	The Polymer Revolution: Advantages & Challenges in Animal Research (IHC Wet Workshop) Linda Watson & Anne Lewin	

VIR Seminars:

A Modified Davidson's Fixative Prevents Artifactual Vacuolation of the Optic Nerve Nena Dimaano Have Your Fluorescent Label and Chromogen Too Maria Geraci-Erck Selection, Production & Characterization of Probes for ISH Dr. Paul Shughrue Antibody Production Traci Degeer

Safety Seminars:

Ionizing Radiation Safety in Anatomic Pathology *Peggy Wenk* **Lab Safety Issues - Past, Present, Future** *Marcus Suhr*

Clinical Seminars:

Troubleshooting Amyloid Staining Peggy Wenk Whole Slide Imaging and Practical Applications of Image Analysis Dr. Michael Feldman Reprocessing: Beyond GIGO (Garbage In, Garbage Out) Peggy Wenk IHC Controls Traci Degeer

General Info Seminars:

IHC Instrumentation: How to Decide What's Best for Your Lab Toni Rathborne Basic Troubleshooting for Histology Laboratory Equipment John Stock Bone Biology & Histomorphometry Joe Tamasi A Review of Formalin Fixation Michele French and Diana Goodwin

Schedule Overview

Thursday, June 10

12:30AM Registration Opens1:30-5:00 PM Educational Sessions (Coffee Break 3-3:30)

Friday, June 11

-	Free Breakfast for Hotel Guests
7:00AM	Registration Opens
8:00-12:00	AM Educational Sessions (Break 10-10:30 in Exhibit Area)
10:00	Vendor Exhibit Opens in the Grand Ballroom!
12:00-1:30	LUNCH in Exhibit Area
1:30-5:00	PM Educational Sessions (Break 3-3:30 in Exhibit Area)
6:00-8:00	FREE Reception in the Exhibit Area – Fiesta Theme

Saturday, June 12

- Free Breakfast for Hotel Guests
- 7:00AM Registration Opens
- 8:00-12:00 AM Educational Sessions (Break 10-10:30 in Exhibit Area)
- 12:00-1:30 LUNCH in Exhibit Area Last chance to visit vendors!
- 1:30-5:00 PM Educational Sessions (Break 3-3:30)

<u>Vendor Exhibit Hours:</u> Friday 10AM - 4:00 PM and 6 - 8:00PM Saturday 10AM - 1:30PM



VENDOR PREVIEW...

Advanced Imaging Concepts, Inc **BioCare Medical** B/R Instrument Corp **Brady Corporation** Cell Margue Corporation C.L. Sturkey, Inc. Cambridge Research & Instrumentation, Inc Dako North America Delaware Diamond Knives **EKI-Clinical Products Division** Electron Microscopy Sciences ExperimentalPathologyLaboratories, Inc. Leica Microsystems Mopec Murphy-Traczyk & Associates, LLC Newcomer Supply Polysciences, Inc. Poly Scientific R & D Corp Porter Creek Instruments Sakura Finetek USA, Inc StatLab Medical Products Surgipath Medical Industries, Inc Tech One Biomedical Services. Inc. Thermo Scientific Triangle Biomedical Sciences, Inc. Ventana Medical Systems VWR International, Inc.

and more to come!!!

Abstracts for Presentations

Thursday, June 10th: PM Sessions



Room A

The Right Stain - Troubleshooting Histology Stains

Chrisovalantou Grover HT(ASCP), PA, Ph.D. Staff Histologist/ Product Line Manager This lecture is sponsored by Polysciences.

In learning how to communicate the troubleshooting of special stains in the laboratory it will increase camaraderie, decrease workflow bottlenecks in the lab as well as frustration, and most importantly address patient care directly when working with small specimens or blocks that have little tissue in them. Although we as histology professionals have been used to staining manuals this workshop is not presented as a staining manual, but one source of many that will enable the histology professional to avoid staining issues and help with workflow. Staining issues not only arise with the staining procedure but also with the staining reagents, and as more and more commercially available reagents are bought and used due to time as well as personnel constraints in the laboratory more factors contribute to staining issues than ever before. Routine as well as special stain troubleshooting in cytology, hematology (bone marrow processing in the histology lab) and histology will be addressed as growing histology labs process cytospins and bone marrows. The consequences of using impure dyes and expired reagents will be addressed as well as the role that the BSC plays when certifying dyes and the importance of dye certification. The CI or Color Index nomenclature will be addressed as to making solutions and the importance of this number and the impact it has when used to make commercially available stains and reagents. Other information will come from addressing artifacts related to individual staining procedures. Other staining issues that will be addressed are related to processing and microtomy.

Room C

Manager's Forum: Roundtable Discussion for Anatomic Pathology Managers Session Moderator: Diana Goodwin

An informal anecdotal discussion among peers, this forum will be conducted by and for individuals who are in a supervisory or managerial role which encompasses technical and/or administrative oversight in the field. A variety of topics will be discussed with various solutions presented and shared by participants. Registrants are encouraged to submit at least one topic that she/he would like to discuss via e-mail to <u>dgoodwin100@comcast.net</u> no later than two weeks prior to the event. Attendees should be willing to share information such as procedures, processes and means of documentation, as well as contact information.

Friday, June 11: AM Sessions

Room A VIR SEMINARS:

A Modified Davidson's Fixative Prevents Artifactual Vacuolation of the Optic Nerve Nena Dimaano, BS HT(ASCP), MT(ASCP) Hoffmann La Roche This lecture is sponsored by Advanced Imaging Concepts. Conventional Davidson is the fixative of choice for opthalmic pathology; however the random occurrence of multiples vacuoles in the optic nerves of rats has been an ongoing problem in our laboratory. This workshop will discuss the overall histomorphologic changes of the eyes fixed with Conventional Davidson and four different types of modified Davidson's fixative namely Tests 1, 2, 3 and 4 using alcohol, glacial acetic acid, formalin, and formaldehyde in different concentrations. This workshop will also provide a better understanding of eye collection and discuss the advantages and disadvantages of different types of fixatives.

Have Your Fluorescent Label and Chromogen Too

Maria Geraci-Erck, BS, QIHC Merck Research Laboratories

Are you interested in working with fluorescent dyes, but hesitate because of their quenching properties? Does working in a GLP environment prevent you from working with fluorochromes considering the fluorescently labeled tissue sections cannot be retained as permanent (raw) data? Come and see how formalin-fixed, paraffin-embedded tissue can be labeled with fluorescent dyes and through the use of serial sections, conjugate the fluorescent signal to a permanent color chromogen. Images can be captured from one or both sets of slides, but the chromogenic labels can be retained as raw data and serve as your permanent record. Come see what reagents are needed to make this technique work for you.

Selection, Production and Characterization of Probes for *in situ* Hybridization

Dr. Paul J. Shughrue, Head of Anatomy & Histopathology, Merck Research Laboratories

In situ hybridization has been established as a uniquely powerful tool for the study of gene expression in tissues, allowing both the visualization and quantification of gene expression at the regional and cellular level. While a highly sensitive and versatile technique, its value is dependent on the careful selection and characterization of probes. This presentation will focus on three critical aspects of probe selection. First, we will outline a strategy that can be used to select a probe that is unique to the gene sequence of interest. This section will also discuss ways to deal with similar unwanted genes such as other members of a super family of genes. Next we will discuss the benefits and drawbacks of ribonucleotide versus oligonucleotide probes and how their length can be used to enhance specificity. Finally, I will provide and overview of different methods used to label probes and provide examples generated using these different methods.

Antibody Production

Traci DeGeer, BS, HT(ASCP), HTL, QIHC Technical Specialist, Commercial Education <u>This lecture is sponsored by Ventana Medical Systems.</u>

We use antibodies in all of our daily functions in the immunohistochemistry lab, but did you ever stop to think about how they are actually made. This presentation is going to walk through some of the production methods used to produce the antibodies we use every day. We will discuss monoclonal, polyclonal, and rabbit monoclonal antibody production along with the science and basic immunology behind it. During our discussion we will also talk about how antibodies come into the lab and some tools for researching the antibodies we use for our assays.



Room B Sectioning Artifacts: Causes and Cures Peggy A. Wenk, BA, BS, HTL(ASCP)SLS

Beaumont Hospital

Why are my sections coming off thick and thin? What's causing the microchatter in the GI biopsies? Is it better to cut skin through the epidermis first, or through the connective tissue? Why does the pathologist complain about folds in the cervix or skin sections, but never in the liver or lung sections? Why can I never cut with this company's disposable blades? What are these unidentified objects on top of the tissue, and where did they come from? Why are my frozen sections shattering/chattering/curling? The causes often lie, not just with the microtome, but in all the previous steps of fixation, processing and embedding. Causes and cures to these questions, and many more, will be discussed in this 3 hour workshop, and demonstrated with the use of photos.

Room C

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Going LEAN: 5S Visual Work Place and Value Stream Mapping (Creating a Process Improvement "Toolbox" for Histology)

Carol Barone, HT(ASCP) Nemours- A.I. duPont Hospital for Children and Jim Jones Delaware Manufacturing Extension Partnership

Recently LEAN Principles have entered the healthcare arena as a means to address inefficiencies and reduce costs. Often paired with "Six Sigma", another quality based system that seeks to locate *root cause* to maintain accuracy; LEAN has fit well with the clinical laboratory for total quality management. Standardized patient testing methods and automated testing systems, lend themselves well to the repetitive processes of a clinical lab. But can they work as well in other histology venues? Yes they can. By simply adapting LEAN principles of operation and using Value Stream Mapping (VSM) to improve process flow, *any* histology lab can successfully improve out-put and turn-around-time, remove inefficiencies and errors in their system, and create an environment for staff to work better, not harder. This presentation will lead your through the basic steps to creating your own process improvement "toolbox" with LEAN and VSM.

Room D Both 1.5 hour presentations will be given by Joseph D. Myers, M.S., CT(ASCP)



Validation, Quality Control, and Troubleshooting in Immunohistochemistry: A Clinical, Research, and Vendor Perspective

This presentation is intended to provide a comprehensive overview of the one of most important issues within the field of immunohistochemistry, and assumes a working knowledge of specimen fixation, positive/negative control-material selection, pretreatment procedures, reagent 'compatibility' and selection, and essential procedural and documentation requirements. The lecture will also cover such concepts as regulatory guidance on validation (or lack thereof), suggestions for exceeding regulatory-agency expectations, and use of automated staining systems. Other issues that will be discussed include staff responsibilities, ongoing quality control, instrument maintenance, and troubleshooting unacceptable staining. Participants will be encouraged to participate in a 'question-and-answer' session at the conclusion of the presentation, as a means of soliciting different opinions and personal preferences. Handout material, including sample forms, comparison tables, and 'flow-diagrams will be provided.

Heat-induced Epitope Retrieval: A Review of Methods, Reagents, and Devices

This presentation is intended to provide participants with a review of the scientific development of heat-induced epitope retrieval (HIER), as well as the various devices that have been used to perform these procedures. Special emphasis will be placed on comparing use of household (i.e. kitchen) appliances to instruments designed expressing for HIER. The cost associated with use of various devices and reagents will also be discussed. Handout material, including reference tables/spreadsheets and published papers, will be provided.

Friday, June 11: PM Sessions



Room A Clinical Seminars:

Troubleshooting Amyloid Staining *Peggy A. Wenk, BA, BS, HTL(ASCP)SLS*

Beaumont Hospital

The goal of this program is to provide participants with an understanding of the variables in amyloid staining. Any changes made to the structure of the amyloid, or to the staining procedures, can result in less than optimal staining. The different types of amyloid may also have variable staining, depending upon the procedure used. This presentation will begin with a review of the ultrastructure of amyloid as well as its chemical and immunological structure. Techniques for proper fixation, processing, and sectioning of amyloid will also be discussed. The final portion of this program will address the known staining mechanisms of iodine, periodic acid-Schiff (PAS), metachromatic and polychromatic stains (methyl violet), Congo red, and thioflavin T (TFT) and will cover factors that can prevent with optimal staining.

Whole Slide Imaging and Practical Applications of Image Analysis

Michael Feldman, MD, PhD University of Pennsylvania Health System

This talk will focus on practical applications of image analysis and both whole slide as well as spectral imaging. Two main themes will be addressed. The development of a histocytometry platform for cell based analysis of cellular and subcellular events within tissues and the analysis and extraction of data from slides. The second portion of the talk will focus on how whole slide imaging is allowing pathologists to integrate primary slide data into complex high dimensional biologic analysis and will focus on how we are merging radiology, pathology and proteomics data in our studies of prostate carcinoma

Reprocessing: Beyond GIGO (Garbage In, Garbage Out)

Peggy A. Wenk, BA, BS, HTL(ASCP)SLS Beaumont Hospital

You put a block in the microtome, and you can't get a section. The middle is still raw, the fat is oozing out. "It's not *fixed* well enough" is often the complaint. Most likely, the problem is that the tissue wasn't *processed* well enough. Handing the pathology a slide with only a rim of tissue on it will not help the patient. This talk will discuss common causes of underprocessed tissue, as well as describe several methods to reprocess the tissue, so to obtain good *complete* sections.

IHC Controls

Traci DeGeer, BS, HT(ASCP), HTL, QIHC Technical Specialist, Commercial Education <u>This lecture is sponsored by Ventana Medical Systems.</u>

Positive and negative controls are part of the routine immunohistochemistry runs in every lab. This presentation will explain the purpose of positive and negative controls. It will go through the CAP guidelines of how to run both the positive and negative controls. We will also discuss the advantages of same slide controls.

Room B

The Cardiovascular System: Form Follows Function

Joseph A. Tamasi, BS,MS Bristol-Myers Squibb Pharmaceutical Research Institute

The cardiovascular system is comprised of the heart and vasculature and it functions to transport blood to all tissues of the body. Structural integrity of the system is important in order to maintain healthy cardiovascular function. This workshop is designed to provide an integrated understanding of how the cellular structure and organization of the cardiovascular system relates to is function. Cellular anatomy and basic physiological mechanisms of normal heart and blood vessel function will be covered including impulse conduction, myocardial contraction and blood flow. Normal processes will be compared with how cellular changes that occur in major cardiovascular diseases, such as myocardial ischemia and atherosclerosis, alter the function of the system.

Room C

Principles of Lean Overview with Simulation

Jim Jones Delaware Manufacturing Extension Partnership

If you have experienced sample defects which require recuts, repeat staining, add to turn-around-time (TAT), excess paperwork, delays for equipment/paperwork/people, doing more work with no additional resources, then Principles of Lean Overview is the place to be to find tools and techniques that will help. This workshop will explore the different Lean *tools* that may be applied to alleviate these common laboratory issues. Some of those tools will include Value Stream Mapping, Standard Work, 5/S Workplace Organization, and Visual Controls. Lean strategies are tried and true methodologies that have been used by organizations for over fifty years. In this workshop you will not only hear a Lean presentation but receive hands on experience through multiple rounds of simulation. As each group of Lean tools is introduced, participants will get the opportunity to try them out in the simulation rounds. If you answered yes to any of the above questions, you can't afford *not* to be LEAN in your lab.

Room D

Keeping You in the Comfort Zone: Ergonomics for Laboratory Workers Dr. Barbara Daugherty Senior Health Care Specialist, PRO Physical Therapy

Laboratory work is changing with increased time on computers and faster and more complex lab equipment to operate. Histologists need to be able to work safely in the lab and know how to avoid ergonomic risks in the workplace. Course participants will be able to identify Ergonomic Risk Factors, how to set up a workstation, proactive techniques to reduce musculoskeletal strain, and when to call in a professional. Using case studies and hands on interactive methods (learning lab stretches, proper pipetting techniques, etc) this course can show you how to work safer in the lab.

Saturday, June 12: AM Sessions

Room A Safety Seminars:

Ionizing Radiation Safety in Anatomic Pathology

Peggy A. Wenk, BA, BS, HTL(ASCP)SLS Beaumont Hospital



This workshop will discuss the various types of radiation and will identify the most common types of ionizing radiation sources that may be encountered in the department of anatomic pathology. The physical characteristics of these ionizing sources will be described, along with the potential radiation exposure levels to staff. The radiation dose limits for the staffs, members of the general public and pregnant women will be presented and compared with naturally occurring sources of radiation exposure. The biological effects of radiation exposure will be reviewed. Also presented will be specific radiation precautions for: handling, fixing, processing and sectioning sentinel lymph nodes; handling radioactive seeds or implants found in prostates; using uranium containing chemicals. Radiation safety practices specific for x-ray producing machines, such as portable x-ray machines and electron microscopes, will also be discussed.

Lab Safety Issues – Past, Present, Future

Marcus Suhr, CSP Christiana Care Health Services

Through time, knowledge of chemical and physical hazards has increased, but has safety? Do organizations struggle with safety – if so, why? Lab Safety will be explored from different angles and techniques for improved safety compliance will be reviewed. Attendees will hopefully leave with a better understanding of workplace controls, and behavior modification which can lead to improved Laboratory Safety.

Room B

Prostate Cancer & Prostate Cancer Immunohistochemistry Markers, Traditional and New Traci DeGeer, BS, HT(ASCP), HTL, QIHC Technical Specialist, Commercial Education <u>This lecture is sponsored by Ventana Medical Systems.</u>

Prostate cancer is the most common form of cancer detected in men. The introduction of the biomarker PSA and an aging population have led to an increased number of biopsies to assist in diagnosis. The histology laboratory plays a vital role in determining benign from malignant lesions after biopsy. The importance of knowing the basic anatomy of the prostate and what factors could effect staining is a necessity. The fact that most needle biopsies are taken with needles and provide very small amounts of tissue to work with have made it increasingly important that the immunohistochemistry section of the laboratory stay up to date with the latest markers available to provide the most accurate and earliest diagnosis with the smallest amount of tissue.

Room C

Ultramicrotomy: Big Word, Tiny World

John Stock, BS, HT (ASCP) Technical Assistance Engineer <u>This lecture is sponsored by Leica Microsystems.</u>

Today's turnover of lab staff presents a demand for knowledge in Ultramicrotomy. Unique differences between UM and Histology equipment and sample size require specialized techniques. Training is presented in this program to understand these unique operations by describing the use of

an ultramicrotome and specific techniques in specimen orientation, working with knives and collecting sections. Problems encountered with UM sectioning will be discussed.

Room D

CAP Laboratory Accreditation Program Update - Focus on Pathology

Dr. Craig Dise, MD, PhD Morristown Memorial & Overlook Hospitals

This presentation will be comprised of sessions reviewing the goals, scope and philosophy of the CAP Laboratory Accreditation Program and how it interacts with CLIA and Joint Commission, an overview of inspection preparation and inspector training for inspection team members and specific points and tips related to the anatomic pathology and cytology checklists and the laboratory general checklist where is applies to anatomic pathology including recent updates.

Saturday, June 12: PM Sessions

Room A <u>General Info Seminars:</u>

Basic Troubleshooting for Histology Laboratory EquipmentJohn Stock, BS, HT (ASCP)Technical Assistance EngineerThis lecture is sponsored by Leica Microsystems.

This course will provide a basic preventive maintenance guide that will assist users of histology equipment in the upkeep and troubleshooting of their instruments. The type of cleaning solvents that can and cannot be used will be discussed (along with some pictures that show what happens when the wrong cleaning supplies are used) and how and where to clean for best results. The types of tools that should be kept in the laboratory's tool chest, and how and when to use them, will be discussed and the ways, tools and thoughts behind the troubleshooting process will be investigated. Some symptoms that precede failures will be made known so that the users can notify their biomedical technicians or repair group of a pending failure, before the instrument breaks completely.

IHC Instrumentation: How to Decide What's Best for Your Lab

Toni Rathborne Somerset Medical Center

Whether you are bringing a new test into the lab, or replacing/adding another instrument to an already automated Histology department, the process should include sufficient research into the current options available. Will it be an outright purchase? Reagent agreement? Lease? What are the benefits and drawbacks to each? What is best for the staff involved? What about your LIS? Will the pathologists have any impact on the decision? How will the vendor selected be able to help you with your future needs? How will you justify your decision? All of these questions need to be addressed in addition to planning a successful trial period. At the end of this presentation you should have a better understanding of how the entire process should work.

Bone Biology and Histomorphometry

Joseph A. Tamasi, BS,MS Bristol-Myers Squibb Pharmaceutical Research Institute

Research efforts are committed to obtaining a greater understanding of bone function and the pathogenesis of metabolic bone diseases. Histology is an invaluable tool for research on bone and for evaluating the effects of new therapeutic agents. Specific information on bone activity at the cellular

level can be obtained through histomorphometic analysis of bone samples. This quantitative analysis provides a profile of bone changes that can not be obtained with other methods. However, bone histology presents many technical challenges that are not encountered with soft tissue. This presentation will give an overview of bone physiology, and it will focus on the histological techniques and morphologic evaluation used to study bone in rodent models.

A Review of Formalin Fixation

Michele French, BS, HT(ASCP) Bristol-Myers Squibb Pharmaceutical Research Institute and Diana Goodwin, HT(ASCP), QIHC LabCorp

This lecture will review the development and use of formalin in the histology lab, describe the dynamics of formalin fixation, and dispel common misconceptions about this fixative by presenting published scientific data. A comparison of optimal fixation times for both human and animal tissues will be presented. Also, how to set up a CAP approved disposal plan for formalin will be discussed.

Room B

Preparing for the HT/HTL Certification Exam

Linda Foster-Brown AstraZeneca Pharmaceuticals

This workshop will present an overview for candidates preparing for the HT/HTL certification exam. Participants will receive information on the ASCP HT/HTL eligibility routes, pertinent study information, and sources of continuing education. Handouts will detail an organized method of preparing for the exam. Topics that will be covered include: lab operations, fixation, processing, microtomy, and staining.

Room C

Cytoprepatory Techniques

Sophie K. Thompson, MHS, CT(ASCP)(IAC) and Dawn M. Curran, BS, CT(ASCP) Old Dominion University

Due to limited personnel in many hospitals, histotechnologists are sometimes asked to process cytology specimens or to supervise this preparation. This Workshop presents an overview of the cytopreparatory techniques used in the laboratory encompassing all body sites. Fundamentals and theory of cytopreparatory methods will be discussed along with staining methods employed. Topics to be discussed are smears and brushings, fluids using liquid-based technologies and cytocentrifugation, sputum processing, and fine needle aspiration techniques. The workshop will conclude with "hands-on" practice with making smears. After the conclusion of this workshop, the participant will be able to list all the techniques available to process cytology specimens. Attendees will be able to apply the various cytopreparatory techniques as required by the type of specimen.

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Immuno-staining Cytologic Material: Practical Considerations and Potential Pitfalls Joseph D. Myers, M.S., CT(ASCP)

This lecture is sponsored by Biocare Medical, LLC.

This workshop is intended to provide participants with a comprehensive overview of the procedures involved in immuno- staining cytologic (i.e. cellular) specimen material – including smears, fine-needles aspirates, Cytospin[™] preparations, 'monolayer' preparations (such as those produced with

the Hologic-Cytyc ThinPrepTM and BD-TriPath SurePathTM systems) and cell-blocks prepared using newer technologies (such as the Hologic-Cytyc CellientTM system). Although fundamentally similar to immuno-staining histologic (i.e. tissue) specimens, the primary differences in 'processing' and 'handling' cytologic specimens will be emphasized. Handout material, including reference tables, sample forms, and troubleshooting 'flow-diagrams' will be provided.

Room D

The Polymer Revolution: Advantages and Challenges in Animal Research WET WORKSHOP, LIMIT 30

Linda Watson and Anne Lewin Bristol-Myers Squibb Pharmaceutical Research Institute

Over the past ten years, many new technologies have simplified immunohistochemical procedures and drastically improved the success rate of identifying antigens in tissue sections. The latest advancement is the production of enzyme labeled polymer systems. These systems are equivalent, or in some cases, superior in sensitivity to the avidin/biotin systems that have been utilized as the "gold standard" in IHC for many years. The benefits to using the polymer systems will be discussed. <u>This workshop is NOT for beginners</u> since basic material will not be discussed. It is intended for researchers familiar with IHC and routinely running avidin/biotin systems who would like to learn polymer techniques for use on various animal tissues. It will provide hands-on experience since participants will perform a short assay using a polymer system. During incubation steps, topics that will be discussed include: Advantages over ABC Methods, Comparison of Products (by manufacturer and species), Fixation, Antigen Retrieval Techniques, and the Use of Control Slides. Also, a large part of the workshop will be dedicated to an extensive discussion of troubleshooting background problems, and the proper use of blocking solutions for different tissue types including rat, mouse and monkey.



Hotel Information

Clarion Hotel & Convention Center 6821 Black Horse Pike Atlantic City West, New Jersey 08234



RATES & RESERVATIONS

The hotel is offering discounted room rates to meeting attendees for Thursday, June 10 and Friday, June 11. **Single/Double:** \$89/night **Suite:** \$99/night Room rates above do not include the 7% sales tax and 8% occupancy tax. There will be a \$25 Per Person charge for an additional 3rd & 4th guest in the room.

For reservations call 800-782-9237 or 609-272-0200. You must ask for the "New Jersey Society for Histotechnology" reserved rooms to receive the discounted rate.

Reservations need to be made before **May 10th** to guarantee the discounted rate. There is a FREE shuttle to the casinos only minutes away! FREE Full American Breakfast is included for guests of the hotel. For more information about the hotel and local attractions visit www.clarionacwest.com.

Arriving by Car

Directions from Philadelphia and South:

Follow I-95 North to Walt Whitman Bridge to Rt. 42 South. Follow Rt. 42 South to the Atlantic City Expressway. Continue following directions listed below "From the AC Expressway".

If you are travelling from the North and West:

Make your way to the Atlantic City Expressway. Continue following directions listed below "From the AC Expressway".

From the AC Expressway: take Exit 7S (Garden State Parkway South) for 1/2 mile. Exit at 37 (Pleasantville). After you exit, make a left at the traffic light (Washington Ave.) Turn right at the first traffic light (Fire Rd.) At the next traffic light, make a left (Rt. 40 / Black Horse Pike). The Clarion is 1/2 mile up on the right hand side.

General Meeting Information

Continuing Education Units will be awarded for qualified lectures and workshops. <u>Please Note:</u> The National Society for Histotechnology will send ALL attendees CEU Certificates in the mail approximately 6 weeks after the meeting, regardless of NSH membership status. Please do not contact the NJSH for certificates.

Meeting Registration Fees Includes: entrance to the vendor exhibits, buffet lunch on Friday and Saturday, AM & PM breaks, and the reception in the exhibit hall Friday evening. Please Note: There will be NO refunds on cancellations AFTER May 30th, 2010.

For general meeting questions contact:

Michele French 609-818-3278 or michele.french@bms.com

For registration questions contact:

Joe Tamasi 609-818-3288 or joseph.tamasi@bms.com

ALL REGISTRANTS are invited to attend a FREE reception in the Exhibit Area:

Friday Evening, June 11 6:00 - 8:00PM

> Hors d'oeuvers Raffle Prizes DJ & Dancing Cash Bar

Fiesta Theme!

Region II Meeting Registration Form

Mail in Registration Deadline: May 20th

NAME:	 -
MAILING ADDRESS: _	
-	
PHONE NUMBER:	
WORKPLACE:	

Please provide your E-MAIL address to receive confirmation of your registration:

Cost for each Educational Session: \$40 member*, \$60 non-member, \$25 student

Put an X in each room you would like to attend. Choose one room/session.

Session:	Α	В	С	D	Fee:
Thursday PM		N/A		N/A	
Friday AM					
Friday PM					
Saturday AM					
Saturday PM					
				Total Cost.	

*Applies to members of a participating state society (NJ, PA, DE, MD, VA) Students: Please plan to show your valid student ID upon arrival.

Do you plan to attend the FREE Friday Evening Reception?

Please circle one: YES NO The Friday Reception is FREE to paid meeting registrants. You may bring a guest for an additional fee of \$25.00. Do you plan to bring a guest?

Please circle one: YES NO

Pre-registration is encouraged. Walk-ins will be accepted to workshops and lectures as space permits, but a \$20 late fee will be assessed.

Please make your check payable to NJSH and mail with your registration Form to:NJSH (Joe Tamasi)P.O. Box 6792Lawrenceville, NJ 08648

Sorry, we do not accept credit cards!



The State Societies of NJ, PA, DE, MD and VA invite you to attend:

> The Region II Meeting June 10 – 12, 2010

Clarion Hotel & Conference Center Atlantic City West, NJ



Please Join Us for this Fantastic Educational Event!

NJSH P.O. Box 6792 Lawrenceville, NJ 08648

Postage

Mailing Label