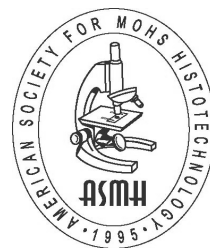


**AMERICAN SOCIETY FOR
MOHS HISTOTECHNOLOGY
19TH ANNUAL MEETING**



**FINAL
PROGRAM**

**May 3 – 4, 2013
Omni Shoreham
Washington, D.C.**

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GENERAL MEETING INFORMATION

CONTACT HOURS

The National Society for Histotechnology (NSH) approved the ASMH 19th Annual Meeting for up to 12.5 Continuing Education Unit Contact Hours. **Meeting attendees are responsible for signing-in on the Attendance Record form at the Registration Desk, as well as tracking their session attendance and reporting it directly to the NSH for contact hour credit.** There is no fee for this service. NSH can be reached at (443) 535-4060 or histo@nsh.org.

CERTIFICATE OF PARTICIPATION

Certificate of Participation is in your registration packet.

NETWORKING RECEPTION

A networking reception will take place on Friday, May 3, from 5 pm to 6:30 pm (Exhibit Hall; 1B West). Light hors d'oeuvres will be served, along with beer, wine, and soda. Please join us to meet and network with fellow attendees and exhibitors.

ANNUAL BUSINESS MEETING *(ASMH Members Only)*

The ASMH 2013 Annual Business Meeting will be held at 9 am on Saturday, May 4 (Empire Room; 2B West). Breakfast will be provided.

CONTINENTAL BREAKFAST

Continental breakfast will be provided to all meeting attendees on Friday, May 3 from 8:30 – 9:00 am outside of the general session rooms (Empire Room; 2B West).

ASMH HAS A NEW PHONE NUMBER

The ASMH office has a new phone number. Please make note: **(414) 918-9813**



Fax: (414) 276-8848
Email: info@mohstech.org
Website: <http://www.mohstech.org>

Photography Policy

The ASMH arranged for a photographer to be present throughout the 2013 Annual Meeting. ASMH may use these photos on its website or in other official printed publications. Individuals photographed will not receive compensation for the use and release of these photos and will be deemed to have consented to the use and release of photos in which they appear. Individuals also acknowledge ASMH has the right to crop or treat the photos at its discretion. If you are opposed to being photographed, please immediately notify the photographer or ASMH staff if your picture is taken. Thank you for your cooperation.



facebook.com/ASMHMohs



twitter.com/ASMHMohs

2012 - 2013 OFFICERS AND BOARD MEMBERS



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ACMS EXECUTIVE MEMBER

Paul H. Bowman, MD

ACMS REPRESENTATIVES

Alysa R. Herman, MD

Duane C. Whitaker, MD

ASMH THANKS OUR SUPPORTERS

The American Society for Mohs Histotechnology gratefully acknowledges the following companies who contributed workshop equipment and supplies to underwrite the educational goals of the ASMH Annual Meeting.

Equipment and Supplies Provided by:

Avantik Biogroup
Biocare Medical
Leica Microsystems

2012- 2013 ASMH COMMITTEES

PROGRAM COMMITTEE

Diana R. Encinas, *Chair*
M. Maureen Gagnot, HT (ASCP), *Co-Chair*
K. Renee Carty, LPN
Regina A. Colella
Stephanie S. Petrow, HT, *Ex-officio*
Stephanie D. Crawford, HT (ASCP)
Jeanie Wade, HT (ASCP), *Consultant*
Linda R. Cesario, DPM, HT (ASCP), *Consultant*

NOMINATING COMMITTEE

Cindy Rice, HT (ASCP)

MOHS TECH QUALITY ASSURANCE TRAINING (MTQA) COMMITTEE:

Linda R. Cesario, DPM, HT (ASCP), *Chair*
Daniel H. Gong, MS
Kathy L. Hicks, HT (ASCP)

MOHS TECH QUALITY ASSURANCE (MTQA) TRAINERS:

Joyce L. Bidwell, MA
Patricia A. Brunelle, HT
Linda R. Cesario, DPM, HT (ASCP)
Kimberly A. Emerick, HT (ASCP)
Amanda L. Faust, HT, BSW
Daniel H. Gong, MS
Kathy L. Hicks, HT (ASCP)
Alexander S. Ibrahim
Reginald M. Manney, HT
Marilyn McCulloch, CLT
Stephanie S. Petrow, HT
Ana I. Santos, CMA, PA
Fatat Sleiman, HT
Thomas E. Sturm, HT (ASCP)
Deborah A. Theis-Prueett, HT (ASCP)
Lynn Whitmore, HT (ASCP)
Lisa Zhu, HT (ASCP)



WELCOME FROM THE PRESIDENT

Dear ASMH members and colleagues,

ASMH enjoyed another great year and I welcome you to the 19th Annual Meeting! Our Program Committee, headed by Diana Encinas and Mo Gagnot, has been very dedicated to bring you a meeting filled with a variety of topics and exciting presentations this year.

The ASMH meeting is a great opportunity to not only learn about the different aspects of your duties as a Mohs Technician, but also to network and learn about other Mohs Technicians from around the globe. I encourage you take time to get to know your fellow techs in sessions and by taking advantage of the Networking Reception and the ASMH Social Event on Saturday evening. We welcome several new members this year; please introduce yourself to the new members you see during the meeting. With so many friendly and outgoing members, we definitely want to make our newest members feel welcome.

I express my sincere gratitude to the wonderful presenters who volunteered their time and resources this year. We have a great lineup of Mohs surgeons speaking, including 'Detecting Embedding Errors with Marking Ink' with Dr. James Barlow, 'Immunohistochemistry' with Dr. Ali Hendi; Dr. Glenn Goldman in 'Cutting Challenging Specimens,' and Dr. Natalie Curcio will present 'Periocular Tumors.' We also have a number of members taking part in group presentations and volunteering to assist with the workshops. Make sure you take a moment to thank each of them.

Check out the Exhibit Hall. There is an array of companies present to show you their products and services. The Exhibit Hall is located on level 1B and information on all attending exhibitors can be found on page 18.

Welcome to the ASMH Annual Meeting!

Sincerely,

A handwritten signature in black ink that reads "Jeanie Wade, HT (ASCP)". The signature is written in a cursive, flowing style.

Jeanie Wade, HT (ASCP)
ASMH President

WELCOME FROM THE PROGRAM CHAIRS

Dear ASMH members and colleagues,

We are very excited to welcome you to beautiful Washington, D.C., for the 19th Annual Meeting of the American Society for Mohs Histotechnicians.

We incorporated many of your suggestions and worked to put together a great meeting this year. Like always, we have a full agenda during the next two days, so please take a few minutes to read through the program for workshop and session start times. We are honored to include some members' physicians presenting on various topics. Also, we decided to separate the workshops into beginner and advanced levels to allow as much individual time and attention as possible. *(See page 14)*

Aside from the great educational lineup, take some time to enjoy the sights while you are here. We are in the city of monuments and memorials and at the heart of it all is the National Mall. Other great places to visit are the Washington Monument, U.S. Capital, and Lincoln Memorial. There are plenty of beautiful museums to see as well including the Smithsonian American History Museum, and Air and Space Museum – and don't forget the National Zoo! *(See page 11)* We hope the weather in D.C. cooperates so everyone can walk around to see the sites.

Lastly, please fill out the survey questionnaires at the end of every session to help us plan the next year's meeting in Phoenix, AZ.

On behalf of the planning committee and the ASMH, we thank you for joining us in Washington, D.C. for the 19th Annual Meeting of the ASMH.

Sincerely,

Diana R. Encinas, Program Chair
M. Maureen Gagnot, HT (ASCP), Program Co-Chair

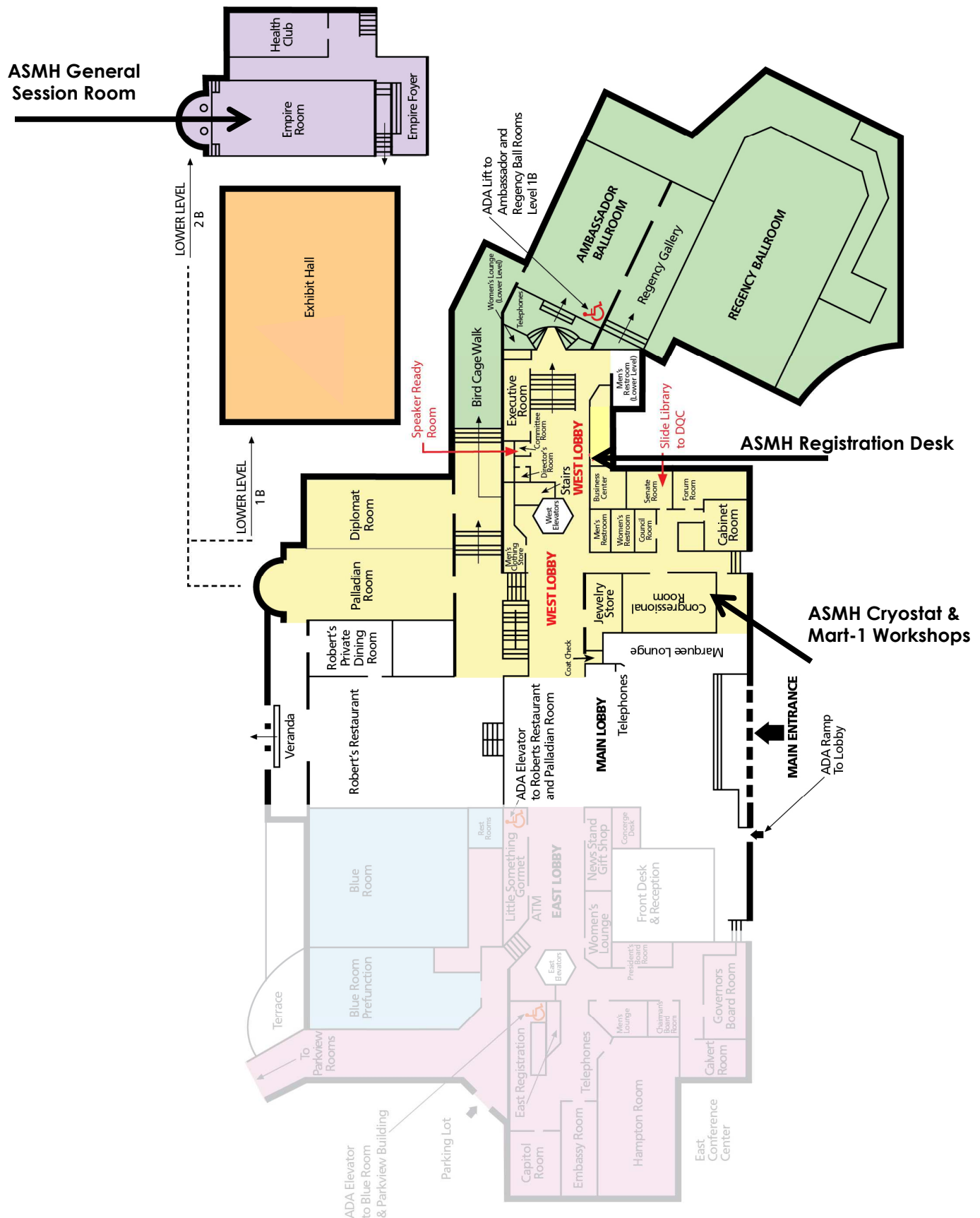
WELCOME TO OUR NEW MEMBERS

As of April 1, 2013

Jennifer Abney
Alyssa Allen
Dawn Ashinoff, HT
Taija Bastardi
Rheannon M. Bateman, HT (ASCP)
Brian Beck
Barbara Beitia
Cynthia C. Bell, HT
Jessica N. Blossom, HT
Deborah A. Bourne
Patricia A. Brunelle, HT
Lauren Cagle
Jennifer Cavanaugh
Chelsea Crabill
Scott Croughan
Lisa Dalby, CLA
Leslie Danaker
Kathleen Davis
Emily Evans
Leesa L. Fair, BAS HT (ASCP)
Nicole M. Fargione
James Ferrell
Joseph Figueiredo
Stephanie P. Fisher, HT
Jessica L. Fleming
Jason E. Fontenot
Kelsey E. Gerry
Arean Gorgee
Angela L. Hammers, LPN
Amber Henderson
Ebony K. Hills, BS, HT (ASCP)
Phillip H. Hogan, Jr., HT (ASCP)
Sabrina Huffman
Guy T. Inman
Joy Jenkins
Andrew Jensen, HT
Jennifer L. Jones
Valeri R. Jones, HT
Danielle Juiliano
Charity Layng
Tonya A. Lovell, MA
Sandra L. Lower, HT
Diane Loyola
Angelic R. Maden, HT
Tammy Madonna
Elisa R. Maloney

Laura Marciano
Jennifer L. Mason
Heather A. Mathes
Lindsey D. McMurray
Alma Alicia Menchaca, MA
Robert L. Milewski, HT
Sandy Morgan
Reggie Morrow, HT (ASCP)
Michelle Nobles
Priscilla Non
Jennifer O'Callaghan, HT
Shondel Obenland
Terese Pacht
Jessica R. Palmore, MA
Sarah Partington
Kristin Paulson
Heather Peel
Janice L. Pettitt, HT
Danielle Portelli
Cassandra E. Riddle, CMA
Trish A. Riemenschneider, HTL
Audra M. Rodriguez
Brandi B. Rompa, HT
Victoria S. Roy, HT
Brooke W. Schools, HT (ASCP)
Cynthia S. Scott, MA
Heather M. Seifert
Julie M. Shimizu
Christy Slater
Melinda A. Sokol-Hamilton
Janeice Stokes
Jia Sun, HT (ASCP)
Melissa A. Talley, MA HT
Andrea Taylor
Lauren Terrell
Nathanial H. VanDyk, HT
Wanda S. Wall
Jeanette Walles, HT
Jaime Webb
Donna Wengenroth
Loreen Whomsley
Vincent Wilkins
Jaemin Yoon
Sarah J. Young, CST
Darina Zentko

OMNI SHOREHAM FLOOR MAP



OMNI HOTEL & TRANSPORTATION INFORMATION

Omni Shoreham

2500 Calvert Street NW (at Connecticut Ave.)
Washington, District of Columbia 20008
Phone: (202) 234-0700
www.omnihotels.com/

Hotel check-in time is 3:00 pm ET

Check-out time is 12:00 pm ET (Noon)



High-speed wireless Internet access (\$9.95 per day plus tax)*

*Free in-room internet access if you sign up for the complimentary Select Guest® loyalty program. See www.omnihotels.com for details.

General Transportation

The following airports are near Omni Shoreham:

Reagan National Airport (DCA) (8 miles)

1 Aviation Circle
Arlington, VA 22202
Information: (703) 417-8000
<http://www.mwaa.com/>

Dulles International Airport (IAD) (28 miles)

1 Saarinen Circle
Dulles, VA 20166
Information: (703) 572-2700
<http://www.mwaa.com/>

Baltimore/Washington International Thurgood Marshall Airport (BWI) (37 miles)

Elm Road
Baltimore, MD 21240
Information: (800) 435-9294
<http://www.bwiairport.com/en>

Omni Shoreham Parking

The hotel's valet parking charge including in/out privileges: \$33 plus tax, per car daily

WASHINGTON, D.C. TOURIST INFORMATION

<http://washington.org/>

Bring your walking shoes for visits to the many monuments and museums. And no trip to the nation's capital is complete without a tour of the White House or the Capitol building.

From trendy Georgetown to energetic downtown, Washington, D.C. offers more than just tourist attractions. Home to a lively urban center with a variety of dining options and plenty of shopping, you can find culture at the Kennedy Center or activity on the Potomac River.

Washington, D.C. Attractions

National Zoo (free admission) – 4 blocks

National Mall – 10 minutes

Lincoln Memorial – 15 minutes

Tidal Basin, home of the Franklin Delano Roosevelt and Jefferson Memorials – 15 minutes

Korean War Memorial – 1.5 miles

National Cathedral – 1.5 miles

Dupont Circle, shops, restaurants and art galleries – 1.5 miles

Washington Monument – 2 miles

International Spy Museum, history of espionage – 2 miles

Georgetown, home of John and Jacqueline Kennedy before residing in the White House – 3 miles

Vietnam Veterans Memorial – 3 miles

White House – 2 miles

U.S. Capitol – 3.5 miles

National Cemetery – 5 miles

Arts & Culture

Kennedy Center for the Performing Arts – 3 miles

Ford Theater – 2 miles

National Theatre – 2.5 miles

Air and Space Museum and IMAX Theater – 3 miles

American History Museum – 2 miles

Natural History Museum and IMAX Theater – 3 miles

Shakespeare Theatre – 3 miles

U.S. Holocaust Memorial Museum – 3.5 miles

Smithsonian Institute – 3.5 miles

National Gallery of Art – 10 minutes

Washington, D.C. Shopping

Adams Morgan – 1 block

Chevy Chase Pavilion (Saks Fifth Avenue) – 3 miles

Fashion Center (Macy's, Nordstrom) – 4 miles

Outdoor Recreation

Rock Creek Park – 6 blocks

Boating on the Potomac River – 15 minutes

Washington's famous cherry blossom trees – 15 minutes

Universities

Georgetown University – 2 miles

George Washington University – 3 miles

Howard University – 3 miles



PROGRAM-AT-A-GLANCE

Wednesday, May 1

1:00 pm – 6:00 pm	Meeting Registration/Information	West Registration; West Lobby
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Thursday, May 2

6:30 am – 5:00 pm	Speaker Ready Room	Committee Room; West Lobby
6:30 am – 5:00 pm	Meeting Registration/Information	West Registration; West Lobby
7:00 am – 9:00 pm	Visit Mohs Slide Library	Senate Room; West Lobby
12:00 pm – 6:30 pm	Exhibit Hall Open	Exhibit Hall; 1B West
5:00 pm – 6:30 pm	Exhibit Hall Grand Opening and ACMS Welcome Reception	Exhibit Hall; 1B West

Friday, May 3

6:30 am – 5:00 pm	Meeting Registration/Information	West Registration; West Lobby
6:30 am – 5:00 pm	Speaker Ready Room	Committee Room; West Lobby
7:00 am – 9:00 pm	Visit Mohs Slide Library	Senate Room; West Lobby
7:00 am – 8:30 am	MART-1 Lecture <i>Kristen L. Cox, HT</i>	Congressional A; West Lobby
7:00 am – 8:30 am	Cryostat Workshop <i>Robert Tagliaferro, HT</i>	Congressional B; West Lobby
8:30 am – 9:00 am	Continental Breakfast	Outside of Empire Room; 2B West
9:00 am – 10:30 am 9:00 am 9:15 am 10:00 am	General Session 1 Opening Remarks and Welcome <i>Jeanie Wade, HT (ASCP), ASMH President</i> Anti-griddle <i>Stephanie S. Petrow, HT</i> When Bigger isn't Better: Dealing with Large Tissue Cases <i>Kristin L. Cox, HT</i>	Empire Room; 2B West
10:30 am – 12:00 pm 10:30 am 11:15 am	General Session 2 CLIA <i>Debra L. Sydnor, CT (ASCP), IAC</i> Detecting Embedding Errors with Marking Ink See handouts on pg. 25 <i>James O. Barlow, MD</i>	Empire Room; 2B West
11:30 am – 6:30 pm	Exhibit Hall Open	Exhibit Hall; 1B West
12:00 pm – 1:00 pm	Lunch in the Exhibit Hall	Exhibit Hall; 1B West
1:00 pm – 2:45 pm 1:00 pm 2:00 pm	General Session 3 Troubleshooting Open Forum Drop off questions in advance at the ASMH Registration Desk <i>Diana R. Encinas</i> <i>M. Maureen Gagnot, HT (ASCP)</i> Immunohistochemistry <i>Ali Hendi, MD</i>	Empire Room; 2B West
2:45 pm – 4:15 pm	Advanced MART-1 Workshop <i>Sakina A. Sadiq, BS, HT, HTL, QIHC</i>	Congressional A; West Lobby
2:45 pm – 4:15 pm	Advanced Cryostat Workshop <i>Jeanie Wade, HT (ASCP)</i>	Congressional B; West Lobby
5:00 pm – 6:30 pm	Networking Reception	Exhibit Hall; 1B West

PROGRAM-AT-A-GLANCE

Saturday, May 4

6:30 am – 4:00 pm	Meeting Registration/Information	West Registration; West Lobby
7:00 am – 9:00 pm	Visit Mohs Slide Library	Senate Room; West Lobby
7:00 am – 8:30 am	MART-1 Workshop <i>Sakina A. Sadiq, BS, HT, HTL, QIHC</i>	Congressional A; West Lobby
7:00 am – 8:30 am	Cryostat Workshop <i>Robert Tagliaferro, HT</i>	Congressional B; West Lobby
9:00 am – 10:00 am	ASMH Annual Business Meeting and Breakfast <i>Members only</i>	Empire Room; 2B West
10:00 am – 2:00 pm	Exhibit Hall Open	Exhibit Hall; 1B West
10:15 am – 12:00 pm 10:15 am 11:15 am 11:30 am	General Session 4 They're Here! Are you ready for a CAP Inspection? <i>Marquazette G. Finger, MHS, HTL, HT (ASCP), QIHC, RMA</i> 2013 Abstract Award Winner: Oil Red-O: A New Protocol in a Mohs Micrographic Surgery Lab <i>Janet C. Schiff, BA</i> Cutting Challenging Specimens <i>Glenn D. Goldman, MD</i>	Empire Room; 2B West
12:00 pm – 1:00 pm	Lunch in Exhibit Hall	Exhibit Hall; 1B West
1:00 pm – 2:45 pm 1:00 pm 1:30 pm 2:00 pm	General Session 5 Dermopath 101 <i>Travis W. Blalock, MD</i> The First 60 Seconds: Keys to Great Slides in the First Minute of Preparation <i>Dawn B. Willett</i> Periocular Tumors <i>Natalie M. Curcio, MD, MPH</i>	Empire Room; 2B West
2:45 pm	Meeting Adjourned	
8:00 pm	ASMH Night Out/Social Event	DC Improv Comedy Club

CRYOSTAT & MART-1 WORKSHOPS & LECTURE

Friday, May 3: 7:00 - 8:30 am

2:45 - 4:15 pm (*Advanced*)

Saturday, May 4: 7:00 - 8:30 am

Cryostat Workshops

Receive direct guidance and advice from experienced workshop volunteers to learn tips and refine techniques that will help you with cryostat use in the Mohs lab. We will also cover cryostat embedding and cutting techniques and maintenance.

Advanced: The Advanced Cryostat Workshop will offer an in depth presentation on processing full thickness wedge specimens, provide instruction on how to acquire a complete representative section of fatty (non-cutting) type tissue, how to manipulate the contours of cartilage and to transition epidermis to an even plane with the deep margin. At the end of this workshop, you will be able to provide a high quality representative section with ease.

MART-1 Lecture & Workshops

Lecture (May 3, 7:00 – 8:30 am): An interactive introduction to immunohistochemistry for the treatment of melanoma. This workshop is designed for those who are not yet processing melanoma using MART-1 and are interested in learning the protocols for integration into their lab routine. We will also be discussing some of the helpful hints (aka "pearls") to improve the quality of the MART-1 slides as well as some troubleshooting ideas. Materials and slides will be provided for the participants.

Workshops: A demonstration of slide staining for MART-1 including procedures, equipment and staining protocols. Experienced workshop volunteers will assist with staining questions and issues involving many aspects of MART-1 staining and troubleshooting.

These workshops are sold out and require a separate ticket for entry.

SCIENTIFIC PROGRAM – FRIDAY, MAY 3

9:15 am – 10:00 am

Anti-griddle

Stephanie S. Petrow, HT

This session will cover the processes of the anti-griddle or "histo-plate" and its use in assisting the Mohs histotech by improving upon their speed and ability to process large cases.

10:00 am – 10:30 am

When Bigger isn't Better: Dealing with Large Tissue Cases

Kristin L. Cox, HT (ASCP)

Large tissue cases come in two varieties: those that start small and become large and those that start out large and become larger. The discussion will include reasons for why we see large tumors and the different approaches to the processing such cases.

10:30 am – 11:15 am

CLIA

Debra L. Sydnor, CT (ASCP) IAC

CLIA (Clinical Laboratory Improvement Act 1988) CLIA intent is to ensure accurate, reliable, timely testing. Review of CLIA objectives to maintain, and provide quality before, during, and after a Mohs procedure. Discuss CLIA concerns for the survey process, in regards to Mohs laboratories.

11:15 am – 12:00 pm

Detecting Embedding Errors with Marking Ink

James O. Barlow, MD

This session will review how to use marking ink to determine when complete sectioning of a Mohs margin has been reached, demonstrate ways to detect a variety of embedding artifacts, and suggest practical criteria for selecting the first and last sections taken from a tissue block. We will also discuss how marking ink can explain a variety of common observations including: why it can be hard to initially section adipose tissue, why many cartilage sections separate during staining, and why specimens shrink during processing.

1:00 pm – 2:00 pm

Troubleshooting Open Forum

Diana R. Encinas

M. Maureen Gagnot, HT (ASCP)

This session will allow attendees to discuss laboratory concerns, techniques, and other questions in an open discussion format to gain knowledge from other Mohs technicians who have encountered those situations. **Questions for this session can be dropped off in advance at the ASMH Registration Desk (West Registration; West Lobby).**

2:00 pm – 2:45 pm

Immunohistochemistry

Ali Hendi, MD

This presentation will cover the practical and scientific aspects of the MART-1 staining process as it applies to the Mohs lab and treatment of melanoma. Basic lab supplies, costs and techniques will be discussed. The published data on the interpretation of MART-1 slides will be discussed. After this presentation the Mohs histotech should gain the knowledge, and confidence to set up and start processing MART-1 slides.

SCIENTIFIC PROGRAM – SATURDAY, MAY 4

9:00 am – 10:00 am

2013 Annual Business Meeting & Breakfast*

Business meeting to announce 2013 Board of Directors election results, ASMH year in review, as well as plans and goals for the coming year.

**Breakfast will be served during the business meeting only.
ASMH Members Only*

10:15 am – 11:15 am

They're Here! Are you ready for a CAP Inspection?

Marquazette G. Finger, MHSM, HTL, HT (ASCP), QIHC, RMA

The mission of the CAP Laboratory Accreditation Program is to improve patient safety by advancing the quality of pathology and lab services through education, standard setting, and ensuring the labs meet or exceed regulatory requirements. We will focus on the new format of the latest CAP Laboratory Accreditation Checklist and give helpful information on how to construct the "evidence of compliance" component necessary for a successful CAP inspection by providing information to assist the managers, supervisors, and testing personnel in what to look for when preparing or maintaining your lab for inspection from the eyes of an inspector. The most frequent deficiencies cited in the lab general and the problematic histology checklist will be discussed. The CAP Laboratory Accreditation Inspection process will be reviewed and how to prepare for the unannounced inspections.

11:15 am – 11:30 am

2013 Abstract Award Winner

Janet C. Schiff, BA

'Oil Red-O: A New Protocol in a Mohs Micrographic Surgery Lab'

The role of a staining protocol in a Mohs lab: How Oil Red-O stain was implemented to accurately diagnose and cure a patient with sebaceous carcinoma.

11:30 am – 12:00 pm

Cutting Challenging Specimens

Glenn D. Goldman, MD

This session will review how to cut challenging specimens: those with odd shapes, containing multiple tissue subtypes, or extensive adipose tissue. The session will also feature a number of videos demonstrating tissue sectioning pearls and pitfalls.

1:00 pm – 1:30 pm

Dermopath 101

Travis W. Blalock, MD

Creation of high quality histopathologic specimens requires communication between the histotech and Mohs surgeon. Better communication results in higher quality specimens and improves patient outcomes. This session will focus on familiarizing histotechs with normal, and some pathologic, features of skin specimens. By learning the basics of what a Mohs surgeon sees through the microscope, the histotech can better communicate with the surgeon detailed aspects of any given specimen. By understanding the basics of dermatopathology, the histotech can review slides independently prior to evaluation by the Mohs surgeon, and thereby identify areas that may need improvement, not to mention maximize efficiency in quality slide production.

1:30 pm – 2:00 pm

The First 60 Seconds: Keys to Great Slides in the First Minute of Preparation

Dawn B. Willett

This presentation will show attendees how to manipulate and mount tissue using the 'cold slide' method. Dawn will also explain how to handle a high-volume of cases quickly and efficiently, and share what she has learned over the past 10 years working as a lab manager.

2:00 pm – 2:45 pm

Periocular Tumors

Natalie M. Curcio, MD, MPH

At the conclusion of this session, participants should be able to identify a range of periocular tumors and become familiar with a broad variety of reconstructive options to repair both small and large periocular defects. Develop a reconstruction strategy for common periocular defects that can be performed in your office vs. those that must be referred to an oculoplastic surgeon. Review several cases illustrating a variety of tumors, histology, treatment by Mohs surgery or surgical excision, and reconstruction.

THANK YOU

ASMH expresses sincere appreciation to all speakers, session participants, and workshop volunteers for their contribution to the meeting program:

SPEAKERS & PRESENTERS

James O. Barlow, MD
Travis W. Blalock, MD
Kristin L. Cox, HT (ASCP)
Natalie M. Curcio, MD, MPH
Marquazette G. Finger, MHSM, HTL, HT (ASCP), QIHC, RMA
Glenn D. Goldman, MD
Ali Hendi, MD
Stephanie S. Petrow, HT
Sakina A. Sadiq, BS, HT, HTL, QIHC
Janet C. Schiff, BA
Debra L. Sydnor, CT (ASCP) IAC
Robert Tagliaferro, HT
Jeanie Wade, HT (ASCP)
Dawn B. Willett

WORKSHOP COORDINATORS

Rodney K. Barber, HT
Kristin L. Cox, HT (ASCP)
Diana R. Encinas
M. Maureen Gagnot, HT (ASCP)
Reginald M. Manney, HT
Sakina A. Sadiq, BS, HT, HTL, QIHC
Robert Tagliaferro, HT
Jeanie Wade, HT (ASCP)

ABSTRACT WINNER

2013 Abstract Award Winner

Oil Red-O: A New Protocol in a Mohs Micrographic Surgery Lab

Janet C. Schiff, BA; Steve J. Curley; ManishJ. Gharia, MD

Saturday, May 4, 2013

11:15 am – 11:30 am

Sebaceous carcinoma (SC) is a rare eyelid malignancy that is often misdiagnosed and treated as benign and less serious lesions due to SC's ability to disguise itself both clinically and histopathologically. Misdiagnosis and improper treatment causes a delay for patients. This delay allows time for SC to spread and metastasize beyond local regions. After receiving an inaccurate diagnosis, unsuccessful treatment and confounding biopsy pathology, a patient was referred to our Mohs micrographic surgery (MMS) clinic for an upper eyelid lesion.

To treat this patient our MMS laboratory researched, refined, and implemented a new staining protocol. The first MMS layer was received. Six μ m frozen sections were collected and stained with the new Oil Red-O (ORO) protocol. ORO stained samples highlighted lipids as red and nuclei as blue. The tissue was determined to be positive for SC. An additional MMS layer was processed similarly. Surgical margins were assessed and the patient was free of SC.

With MMS and the new ORO protocol we were able to simultaneously determine diagnosis of SC and treat a patient with a rare eyelid malignancy. We improved a patient's prognosis and now have the capability to accept future cases of SC.

Improve your skills as a Mohs Tech Participate in the Mohs Tech Quality Assurance (MTQA) Training Initiative!



The MTQA Training Initiative is the only ACMS-approved program designed to help current Mohs technicians improve their skills and learn new techniques. By working one-on-one with an ACMS-approved MTQA trainer, your training will be tailored to provide troubleshooting tips in the areas that you would like to learn about most. Each training session is typically 1-2 days and is set up to be convenient with the trainer's and the trainee's schedule. Upon completion of your training, you may claim up to 12 CEUs through the National Society for Histotechnology and you will receive a completion certificate from ASHM.

For more information on participating in this training program or becoming a MTQA trainer, visit www.mohstech.org or contact the ASHM office at (414) 918-9813 or info@mohstech.org.

EXHIBITOR FLOOR PLAN

Exhibit Hall hours:

Thursday, May 2 12:00 – 6:30 pm
 Friday, May 3 11:30 am – 6:30 pm
 Saturday, May 4 10:00 am – 2:00 pm

Exhibit Hall located on Level 1B West

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106 Mohs Histology Consulting Services

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Handouts

Friday, May 3

General Session 2; 11:15 am

Detecting Embedding Errors with Marking Ink

James O. Barlow, MD

DETECTING EMBEDDING ERRORS IN MOHS SECTIONS USING MARKING INK

JAMES O. BARLOW, MD
ARIZONA DERMATOLOGY SPECIALISTS

James O. Barlow, MD

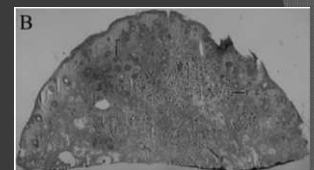
- ◉ Mayo Clinic Trained Dermatologist
- ◉ Fellowships
 - Medical University of South Carolina
 - California Skin Institute
- ◉ Long standing interest in Mohs histology and tissue processing...
- ◉ I have no relevant conflicts of interest to disclose

Goals

- ◉ Discuss the criteria used for the complete sectioning of a Mohs margin.
- ◉ Introduce the concept of En Face Inking
- ◉ Review common embedding artifacts
- ◉ Along the way I'll explain a few personal mysteries
 - how specimens shrink during processing
 - why adipose can be so difficult to section
 - why cartilage separates during staining

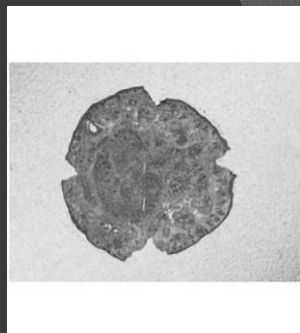
COMPLETE SECTIONING OF A MOHS MARGIN

- ◉ DEFINITION of a COMPLETE SECTION:
 - Full epidermal rim
 - Full section of dermis and adipose
 - No holes or breaks
 - Full edge of marking ink on divided specimens

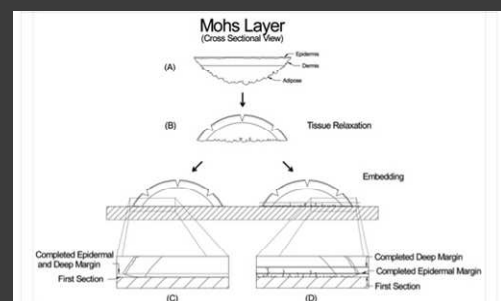


WHY ARE COMPLETE SECTIONS IMPORTANT

- ◉ Allows accurate assessment of 100% of the tumor margin
- ◉ The fundamental principle of how Mohs surgery provides both tissue conservation and the highest cure rates.
- ◉ Missing portions of the margin risk incomplete tumor removal and therefore recurrences



REQUIRES CHANGING A 3D SHAPE TO A 2D SURFACE?



JAMES O. BARLOW, MD. Using En Face Ink to Guide the Conservative Sectioning of a Mohs Margin. Dermatol Surg 2011;37:1730-1739

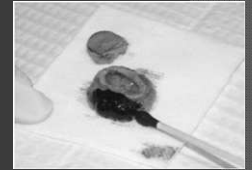
SECTIONING CONVENTIONS

- Sections are taken sequentially
- Conventionally 3-9 sections per stage are placed on slides
- Additional sectioning "recuts" may be needed until the complete margin can be visualized



WHAT IS EN FACE INKING?

- The application of a marking ink to the entire surgical margin of a mohs layer
- Defines the margin regardless tissue irregularities or further tissue manipulation



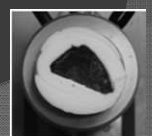
HOW TO PERFORM EN FACE INKING

- Cover the margin with marking ink
- Fix the marking ink in place before specimen processing
 - Isopropyl alcohol, Acetone, or Acetic acid



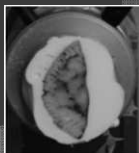
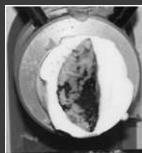
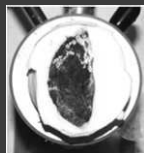
MAINTAINING ORIENTATION DURING EMBEDDING

- Both orientation ink and margin ink needs to be fixed separately to preserve orientation
 - Single specimens
 - Double knick 12 o'clock
 - Orientation ink placed before en face ink
 - Divided specimens
 - Orientation ink placed after en face ink, and relaxation



EN FACE INKING

- Can help visualize the progress of sectioning
 - Identifies initial block misalignments
 - Highlights high and low spots in the tissue block
 - Provides a starting point and ending point for picking up sections based upon ink clearance

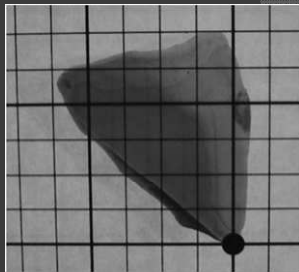


TYPES OF EMBEDDING ERRORS IN DIVIDED SPECIMENS

- Asymmetric compression or relaxation
- Fold over or squash error
- Tip lift
- Thin section collapse

ASYMMETRIC COMPRESSION OR RELAXATION

- Asymmetrical compression of the tissue resulting in elevation of one edge from the plane of sectioning
- Risks a False (-)



Mohs math – where the error hides Jeffrey I Ellis, Tatiana Khrom, Anthony Wong, Mario O Gentile and Daniel M Siegel

Specimen viewed from below

FOLD-OVER OR SQUASH ERRORS

- Occurs when non-marginal tissue slides into the plane of sectioning
- Viewed from below
- Risks a false (+)



Mohs math – where the error hides Jeffrey I Ellis, Tatiana Khrom, Anthony Wong, Mario O Gentile and Daniel M Siegel

Specimen viewed from below

TIP LIFTING ERROR

- Lifting of the deep margin can occur when attempting to flatten the outer epidermal rim
- Viewed from above
- Risks a False (-) results

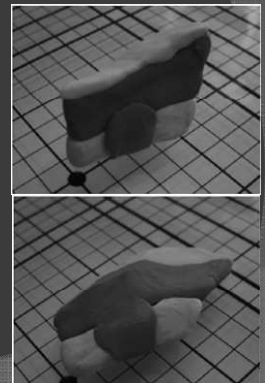


Mohs math – where the error hides Jeffrey I Ellis, Tatiana Khrom, Anthony Wong, Mario O Gentile and Daniel M Siegel

Specimen viewed from above

Thin Section Collapse

- When a thin layer is laid flat, the base of the specimen can be rotated and lifted out of the plane of sectioning
- Risks a false (-)



Mohs math – where the error hides Jeffrey I Ellis, Tatiana Khrom, Anthony Wong, Mario O Gentile and Daniel M Siegel

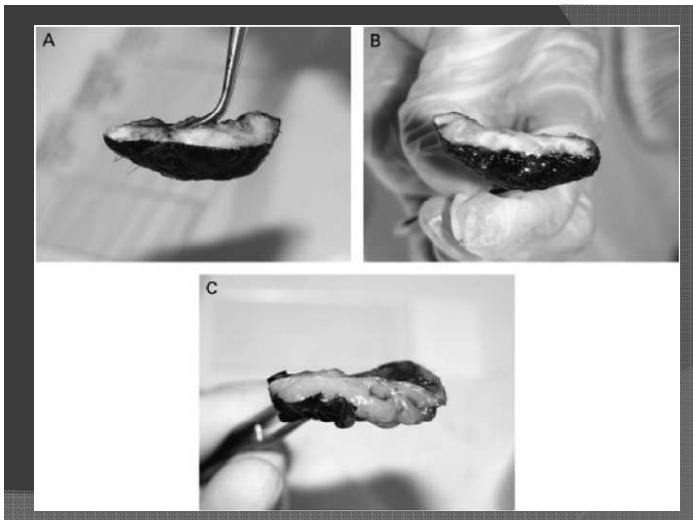
Specimen viewed from above

EMBEDDING ERRORS

- These models identify key aspects of processing techniques that may contribute to error.
- They recommend minimal division and minimal layer thickness of Mohs specimens to keep the inherent error rate at a minimum.
- **The epidermal edge is the only absolute edge** making even small errors of these type hard to detect on the non-epidermal edges of specimens

Mohs math – where the error hides Jeffrey I Ellis, Tatiana Khrom, Anthony Wong, Mario O Gentile and Daniel M Siegel

WHAT WOULD AN ABSOLUTE EDGE
FOR THE NON EPIDERMAL
MARGINS OF A MOHS LAYER
LOOK LIKE?

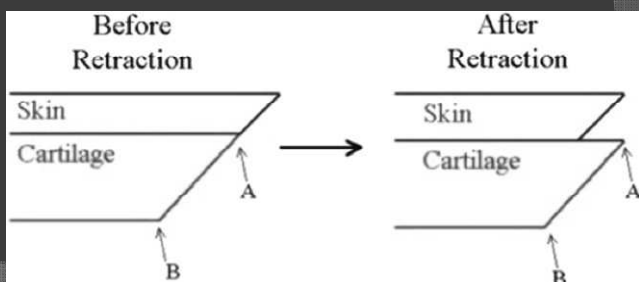


USING EN FACE MARKING INK

- ⊙ Allows identification of the four common embedding errors
 - Asymmetric compression or relaxation
 - Fold over or squash error
 - Tip lift
 - Thin section collapse
- ⊙ Provides an opportunity to correct these embedding issues before sectioning
- ⊙ Is most useful for large and/or complex specimens

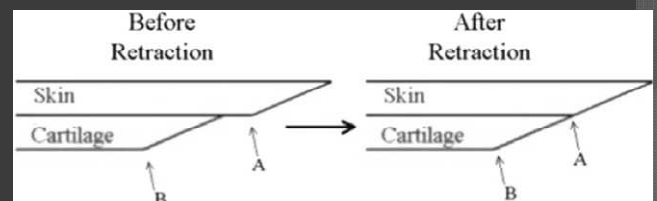
CARTILAGE EMBEDDING ERRORS

- ⊙ A difficult place to avoid embedding errors due to surgical technique.

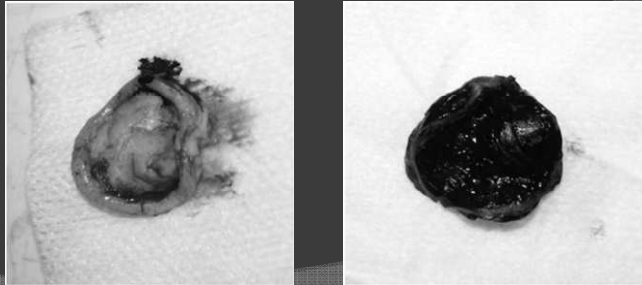


RAVI S. KRISHNAN, HEIDI B. DONNELLY. A Better Technique for Taking Mohs Sections Involving Cartilage. *Dermatol Surg* 2007;33:716–72.

- ⊙ Recommended greater beveling and wider epidermal margin to compensate for retraction.



EN FACE INK AND CARTILAGE LAYERS



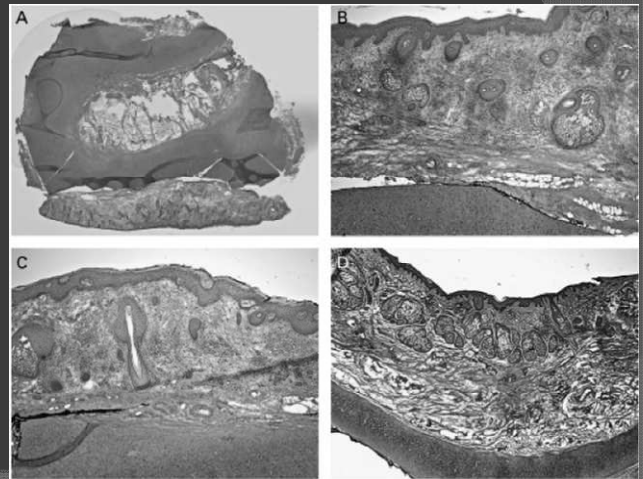
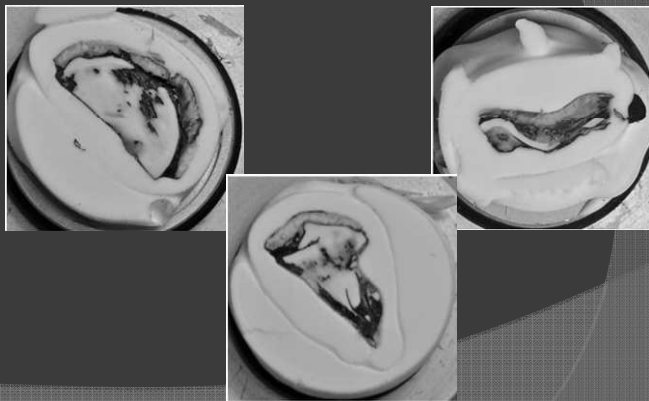
CARTILAGE EMBEDDING

◎ Specimen divided
for three distinct
styles of processing

1. Traditional 45 degree bevel
2. 20-30 degree bevel
3. Horizontal 90 degree processing



INITIAL SECTIONING



CARTILAGE SEPARATIONS

- ◎ So, why does cartilage separate and even float away during staining?
- ◎ Probably multi-factorial
 - Cartilage is rigid and poorly adherent even to charged slides
 - Perhaps the cartilage is not always connected to the peripheral tissues in the sections
 - En face ink supports this in many cases

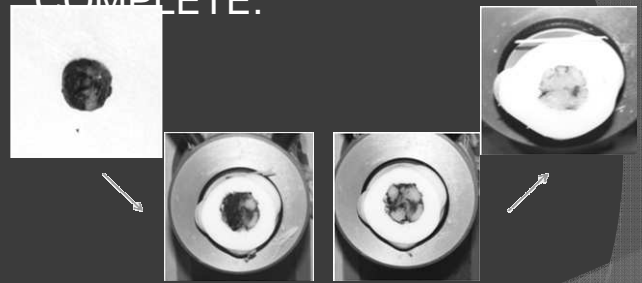
SECTIONING SURVEY

1. On average how many sections from a tissue block are required to reach a complete margin?
2. When do you start to pick up and save the first sections from the block?
3. How do you visually decide sectioning the block (aka the margin) is complete?

TOTAL SECTIONING OF A MOHS SPECIMEN

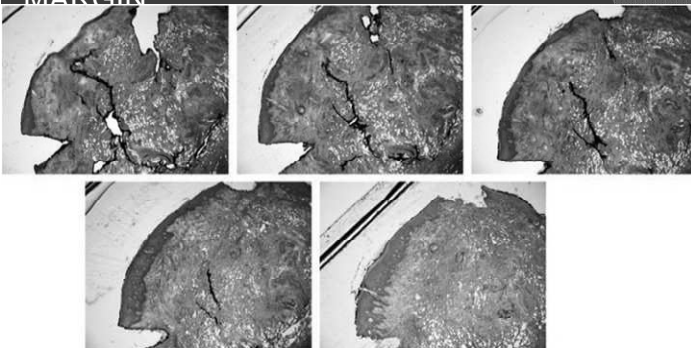
- A complete margin is reached between 104um and 1,160 um of tissue sectioning using a variety of techniques
 - Hanke WC, Leonard AL, Reed AJ. Rapid preparation of high quality frozen sections using a membrane and vacuum system embedding machine. *Dermatol Surg* 2008;34:20–5.
 - Bakhtar O, Close A, Davidson TM, Baird SM. Tissue preparation for Mohs frozen sections: a comparison of three techniques. *Virchows Arch* 2007;450:513–8.
 - Lear W, Anderson N, Akeroyd J, Berg D. A comparison of four Mohs tissue preparation methods using porcine skin. *Dermatol Surg* 2010;36:1419–25.

HOW TO VISUALLY DECIDE SECTIONING OF THE BLOCK IS COMPLETE.



Section the block until the ink clears...

USING EN FACE INK TO GUIDE THE CONSERVATIVE SECTIONING OF A MOHS MARGIN



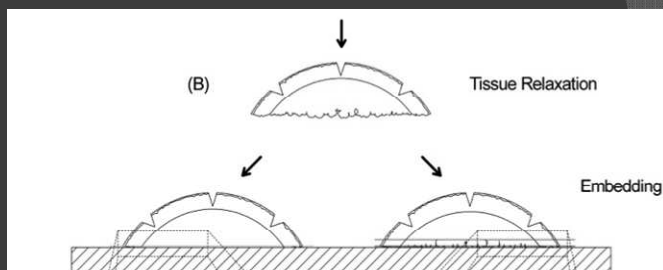
JAMES O. BARLOW, MD. Using En Face Ink to Guide the Conservative Sectioning of a Mohs Margin. *Dermatol Surg* 2011;37:1730–1739

USING EN FACE INK TO GUIDE THE CONSERVATIVE SECTIONING OF A MOHS MARGIN

- 100 first stage mohs specimens
- Epidermal margin was completed in 74% of cases before the deep margin
 - Mean difference of 248.8um
 - Broad range 30-1320um
 - Associated with large layer size, $p = .003$
 - Associated with early completion of epidermal margin, $p < .001$

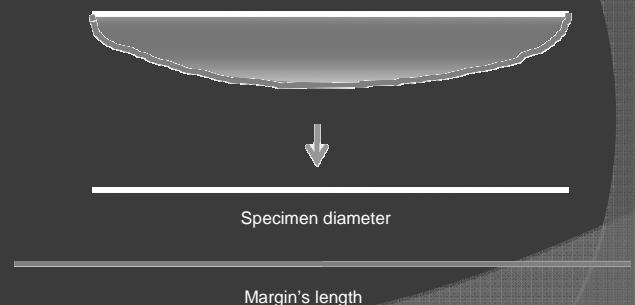
JAMES O. BARLOW, MD. Using En Face Ink to Guide the Conservative Sectioning of a Mohs Margin. *Dermatol Surg* 2011;37:1730–1739

DOES THE DEEP TISSUE MARGIN FLATTEN OUT OR DOES IT FOLD IN UPON ITSELF?



JAMES O. BARLOW, MD. Using En Face Ink to Guide the Conservative Sectioning of a Mohs Margin. *Dermatol Surg* 2011;37:1730–1739

CROSS SECTION OF A BEVELED MOHS LAYER



SPECIMEN'S DIAMETER SHOULD EXPAND DURING PROCESSING

- Margin's length is much longer than the lesion's diameter

- Length of an arc:
$$L(C) = \sup_{a=t_0 < t_1 < \dots < t_n = b} \sum_{i=1}^{n-1} d(f(t_i), f(t_{i+1}))$$
- So lets just say its longer than the diameter...

- Water volume expands ~7% when it freezes
 - Which is why ice floats and pipes burst in the winter, skin is 80% water?

IRONICALLY MOHS SPECIMENS ACTUALLY SHRINK?

- Erin S. Gardner, MD, William T. Sumner, MD, and Jonathan L. Cook, MD
 - Predictable Tissue Shrinkage During Frozen Section Histopathologic Processing for Mohs Micrographic Surgery

Predictable Tissue Shrinkage During Frozen Section Histopathologic Processing for Mohs Micrographic Surgery
Erin S. Gardner, MD, William T. Sumner, MD, and Jonathan L. Cook, MD

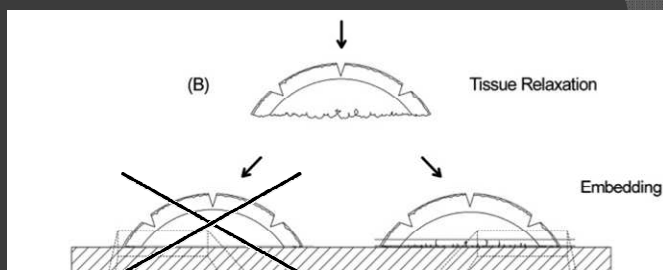
Table 3. Change in Length (mm) After Histopathologic Processing

	Between measurement points			Across measurement points		
	I-II	II-III	III-IV	I-IV	II-IV	I-III
Mean change in millimeters (SD)	0.73 (1.40)	0.58 (1.45)	0.08 (0.84)	1.39 (1.88)	0.66 (1.27)	1.31 (1.97)
P value	<.001	<.001	>.05	<.001	<.001	<.001

Predictable Tissue Shrinkage During Frozen Section Histopathologic Processing for Mohs Micrographic Surgery
Erin S. Gardner, MD, William T. Sumner, MD, and Jonathan L. Cook, MD

- Specimen's diameter shrinks an average of 11.6% during processing
 - Occurs during all steps but more so during relaxation and embedding
 - Elastic fibers contract centrally
 - Tumors on trunk and extremities shrank more (16.3%) than head and neck (10.2%)

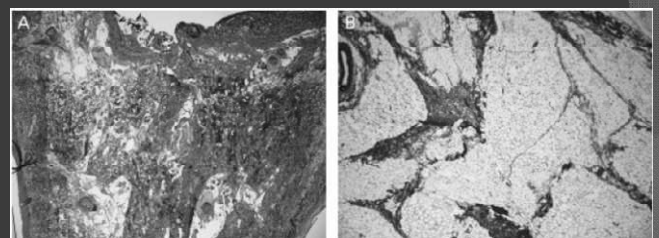
THE DEEP MARGIN'S TEXTURE FOLDS IN UPON ITSELF



JAMES O. BARLOW, MD. Using En Face Ink to Guide the Conservative Sectioning of a Mohs Margin. Dermatol Surg 2011;37:1730-1739

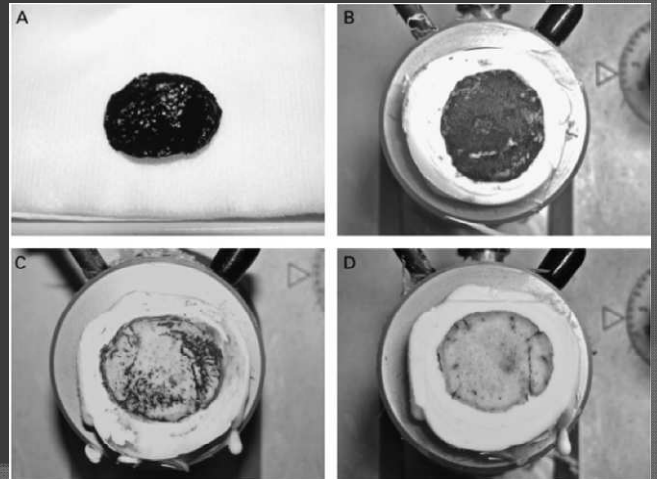
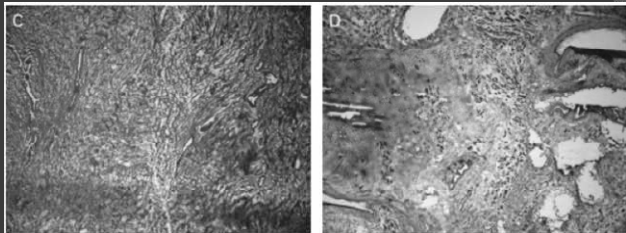
HOW EASILY WOULD WE SEE EMBEDDED MARGIN DEFECTS?

- Midline vertical separation in dermis (A)
- Midline vertical separation in adipose (B)



HOW EASILY WOULD WE SEE EMBEDDED MARGIN DEFECTS?

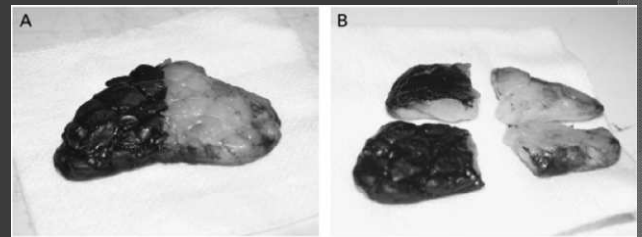
- Midline vertical separation in fascia (C)
- Midline vertical separation in muscle (D)



THE DEEP TISSUE MARGIN'S TEXTURE FOLDS IN UPON ITSELF

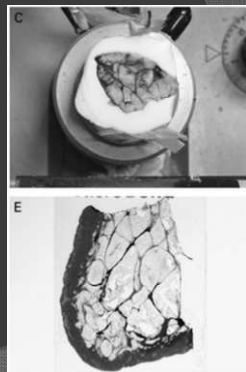
- Inevitable nature of the tissue and process itself
- May explain why there is such wide range of sectioning required to reach a complete deep margin.
- En face ink provides an effective means of identifying this fundamental consequence of the embedding process.

EN FACE INKING IS ESPECIALLY USEFUL ALONG THE FIBROUS SEPTAE OF ADIPOSE TISSUE...



EN FACE INK BETTER DEFINES THE SEPTAE OF ADIPOSE TISSUE

- Is this important?
- May explain why it is difficult to get intact sections from a tissue block comprised of adipose tissue
- If tumor tracks along the septae, how do we determine when a complete section has been reached?



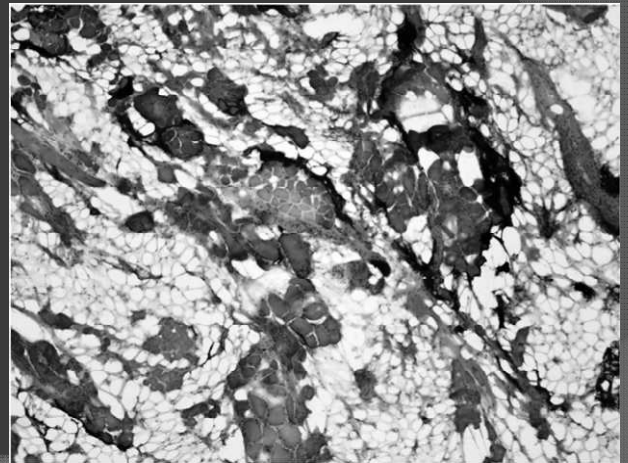
RELEVANCE?

- The potential influence of buckling of tissue during mechanical manipulation and processing has been not been well identified in Mohs tissue sections....
- These effects cannot change the historical cures rate for Mohs surgery...
- It may have a role in slide interpretation?

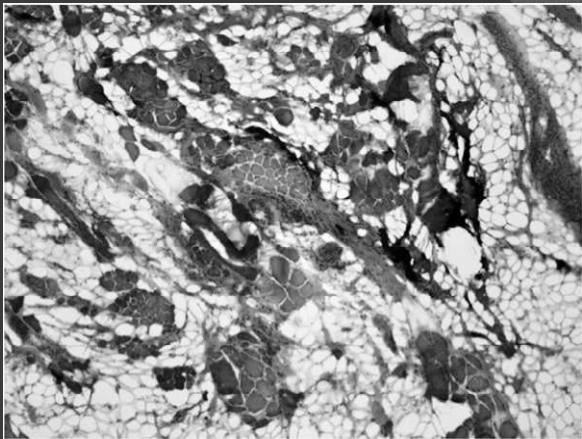
SLIDE INTERPRETATION

How Many Sections Are Required to Clear a Tumor? Results from a Web-Based Survey of Margin Thresholds in Mohs Micrographic Surgery
TODD V. CARTEE, MD, AND GARY D. MONHEIT, MD

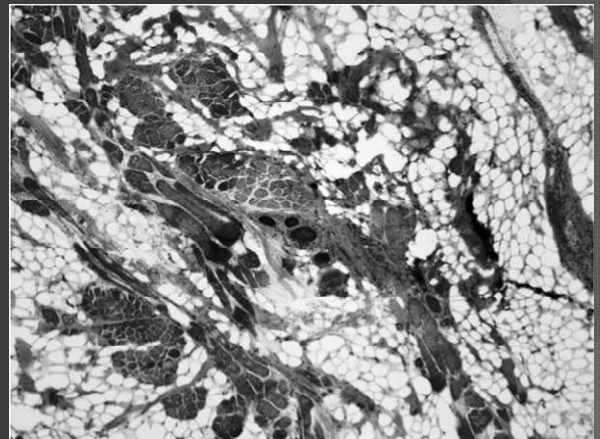
● A web-based survey of the standard practice when definitively tumor-free section(s) are examined during a Mohs stage before finding cancer in a deep section. Factors influencing the decision were explored.



JAMES O. BARLOW, MD. Using En Face Ink to Guide the Conservative Sectioning of a Mohs Margin. Dermatol Surg 2011;37:1730-1739



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How Many Sections Are Required to Clear a Tumor? Results from a Web-Based Survey of Margin Thresholds in Mohs Micrographic Surgery
TODD V. CARTEE, MD, AND GARY D. MONHEIT, MD

- The number of clear sections required to declare a margin negative varied widely among respondents;
 - 25% were comfortable with one clear section
 - 19% would obtain an additional layer with eight clear sections.
- Margin thresholds depended on tumor type but were independent of surgeon experience.

How Many Sections Are Required to Clear a Tumor? Results from a Web-Based Survey of Margin Thresholds in Mohs Micrographic Surgery
TODD V. CARTEE, MD, AND GARY D. MONHEIT, MD

- So what might this mean?
 - 25% trust their section's integrity
 - 19% don't trust a narrow margin no matter how many clear sections precede it.
 - The remaining 56% vary their decision case to case....
- Human nature lends us to believe aggressive tumors probably tend to get an additional layer just in case...

How Many Sections Are Required to Clear a Tumor? Results from a Web-Based Survey of Margin Thresholds in Mohs Micrographic Surgery

TODD V. CARTEE, MD, AND GARY D. MONHEIT, MD

- ◉ These patterns were independent of surgeon experience.
 - Is this dogma taught during training?
 - Is there any evidence based support for either extreme?
- ◉ En face inking can provide some additional reassurance that the critical sections are truly a complete representation of the margin's integrity...

IN CONCLUSION: EN FACE INKING

- Offers a solution to detect and prevent embedding errors
- Suggests practical criteria for selecting the first and last sections taken from a tissue block
- En face ink provides the surgeon with a consistent endpoint for section evaluation
- Prospective studies would be needed to determine the relevance of this added processing step.

ACMS PROGRAM-AT-A-GLANCE *(For reference only)*

Thursday, May 2

8:45 – 9:00 am	Opening Session	Regency Ballroom; 1B West
9:00 – 9:45 am	Literature Review	Regency Ballroom; 1B West
9:45 – 10:00 am	Break	
10:00 – 11:00 am	Tromovitch Award Abstract Session	Regency Ballroom; 1B West
11:00 am – 12:00 pm	Tumor Board	Regency Ballroom; 1B West
12:00 – 1:00 pm	Networking Lunch	Exhibit Hall; 1B West
1:00 – 2:00 pm	Scientific Abstract Session	Regency Ballroom; 1B West
2:00 – 3:00 pm	Photodynamic Therapy	Regency Ballroom; 1B West
3:00 – 3:15 pm	Break	
3:15 – 4:15 pm	Immunohistochemistry	Regency Ballroom; 1B West
4:15 – 5:00 pm	Slide Scanner Review	Regency Ballroom; 1B West
5:00 – 6:30 pm	Exhibit Hall Grand Opening & Welcome Reception	Exhibit Hall; 1B West

Friday, May 3

8:45 – 9:45 am	Masters' Reconstruction Session	Regency Ballroom; 1B West
9:45 – 10:45 am	Complications	Regency Ballroom; 1B West
10:45 – 11:00 am	Break	
11:00 am – 12:00 pm	Mohs in Hard-to-Access Sites	Regency Ballroom; 1B West
12:00 – 1:30 pm	ACMS Annual Business Meeting & Lunch <i>Non-Members and guests: lunch on your own</i>	Regency Ballroom; 1B West
1:30 – 2:30 pm	Healthcare Reform Symposium	Regency Ballroom; 1B West
2:30 – 3:30 pm	Quality Measurement and Value Based Purchasing Keynote Speaker: Kate Goodrich, MD, MHS	Regency Ballroom; 1B West
3:30 – 3:45 pm	Break	Regency Ballroom; 1B West
3:45 – 4:45 pm	Burning Issues in Transplant Dermatology	Regency Ballroom; 1B West
4:45 – 6:15 pm	Fellowship Training Directors' Session	Palladian Room; 1B West
6:15 – 7:15 pm	Reception Introducing Fellows-in-Training <i>(For Program Directors and current FITs only)</i>	Diplomat Room & Terrace; 1B West

Saturday, May 4

8:45 – 9:45 am	Dermpath Challenges: Difficult Cases from the University of Pennsylvania	Regency Ballroom; 1B West
9:45 – 10:45 am	Frozen Section Challenges	Regency Ballroom; 1B West
10:45 – 11:00 am	Break	
11:00 am – 12:00 pm	Morbidity and Mortality	Regency Ballroom; 1B West
12:00 – 1:00 pm	Lunch in the Exhibit Hall	Exhibit Hall; 1B West
1:00 – 2:00 pm	Aesthetic Repair of Nasal Surgical Defects	Regency Ballroom; 1B West
2:00 – 3:00 pm	How Would You Reconstruct It?	Regency Ballroom; 1B West
3:00 – 4:00 pm	Clinical Pearls Abstract Session	Regency Ballroom; 1B West
7:00 – 11:00 pm	ACMS Capital Gala	Ambassador Ballroom; 1B West

Sunday, May 5

9:00 – 10:00 am	Diagnostic Quality Control Exam Review	Regency Ballroom; 1B West
10:00 – 11:00 am	Melanoma Update: Sentinel Lymph Node Biopsy and New Novel Therapies for Stage IV Disease	Regency Ballroom; 1B West
11:00 am – 12:00 pm	Masters' Pearls	Regency Ballroom; 1B West
12:00 pm	Meeting Adjourns	

Save the Date

**ASMH 20th
Annual Meeting
May 2 – 3, 2014**



**Marriott Desert Ridge
Phoenix, AZ**

