



82nd Annual Meeting Was a Success Thanks to the AMSC and CEAC



The 82nd Annual Meeting of the American Society for *Clinical Laboratory Science* and Clinical Lab Expo was a successful event. As always, Chicago proved to be not only the perfect host for Cubs baseball and Lollapalooza, but

also science, networking, governance and the world's largest laboratory exposition.

ASCLS is especially thankful to the members of the Annual Meeting Steering Committee (AMSC) and the Continuing Education Advisory Committee (CEAC) who worked diligently over the last year to create a well-rounded program that provided education and events which appealed to every laboratorian.

Summary of events

The opening keynote speaker, Walter "Sunny" Dzik, MD, Co-Director of the Blood Transfusion Service at Massachusetts General Hospital, recounted the events during and immediately after the Boston Marathon bombing in April 2013. He spoke about the coordinated response of the blood bank to the unexpected events of that day and reminded the audience of the important role laboratorians served during this disaster.

Wednesday through Friday featured outstanding sessions and speakers who shared their knowledge on topics that spanned all laboratory disciplines and issues. Researchers were able to share their findings at oral and poster presentations. Several undergraduate student members also shared research as poster presentations.

Leadership Academy graduates presented their final

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ASCLS AWARDS 2014: INDUSTRY

Marcella Yee
ASCLS Awards Chair

ASCLS celebrated its 82nd Annual Meeting with two awards ceremonies. The first was held Wednesday, July 30, 2014. The mood was celebratory as attendees sipped mimosas or orange juice and gathered to honor our industry partners. Paula Garrott, the 2002-2003 ASCLS President, emceed the event. Industry partners who supported the clinical laboratory science profession throughout the year were recognized for their contributions, including exhibiting at the Annual Meeting, or the Clinical Laboratory Educators Conference, being an annual P.A.C.E.[®] provider, advertising in the *Clinical Laboratory Science* journal, having employees who are active ASCLS members, or sponsoring the awards program brochure and plaques.

A representative from BD Diagnostics presented outgoing ASCLS President J.R. Constance with the Past President's Gavel. BD Diagnostics, Bio-Rad Laboratories, Diagnostica Stago, and Ed Neren of NerenPossible were given plaques for their contributions to the Industry Awards Ceremony.

The following awards were presented to outstanding industry partners:

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ASCLS: One Voice, One Vision



President's Message

*Susanne Norris Zanto, MPH, MLS(ASCP)^{CM}SM
ASCLS President 2014-2015*

Can You Fall in Love on Facebook?

"You can break up on Facebook or text. But can you also fall in love?" These were the words of the Governor of Massachusetts, Deval Patrick, as he addressed the graduating class of Boston University this spring. Social media is definitely here to stay, but can you really develop a deep relationship without face to face interactions? If we are to believe in ASCLS, is social media the only means to communicate our message?

One promise I made during my President's Acceptance Speech in August was that I would communicate more details about the ASCLS Strategy Canvas and our new direction. As part of the Blue Ocean Strategy, we want to set ourselves apart from others by focusing on areas that can provide new opportunities for ASCLS. In this article, I will address creating a strong social media presence while maintaining our in-person networking.

You see everyone with a smart phone these days, and even during dinner the device is never far from hand. People are checking Facebook, Twitter, texts, e-mails, or some other popular site, even when there is lively conversation going on around them. I know I am guilty of this at times, especially since I recently became more Facebook savvy. Social media has become a common way to communicate and connect, and, in fact even in Helena, Montana, the food trucks use Facebook to announce where they will be parked for lunch. Who even uses the yellow pages in the printed telephone book anymore? Rarely does anyone pick up the telephone just to chat. How do smart phone users discover the benefits of being an ASCLS member?

I recently read a comic strip, Baby Blues, where Zoey, the young daughter, asked her mother how she and her father had met. After finding out that they met in-person during a class in college, and just started talking to each other, and not on-line, over the internet or Facebook, Zoey remarks that she has some "real

concerns about this relationship."

Should we be concerned because many, if not most, of our members communicate almost exclusively through social media and mobile devices? Let's first explore why we don't need to be concerned. With our Strategy Canvas, we believe that ASCLS needs to speak with one voice as we strengthen our presence in social media. In 2013, the Social Media Task Force, led by Rebecca Rogers of Tennessee, drafted a social media policy and reported that for ASCLS to maintain a successful presence on any social media platform, each site would require continuous moderation that should include consistent updating and monitoring. Our social media savvy professionals, especially Rebecca and Kyle Riding, have done a great job trying to maintain an ASCLS presence on Facebook, Twitter and Linked In, but they can't do it alone. To really push ASCLS into the forefront, we all need to make a concerted effort to post to social media. But we need a more formal structure to ensure that postings and moderation occur, and that the ASCLS message is consistent. We need to develop a group of volunteer members who would monitor, post on a regular basis, maintain consistency of messaging, and make our ASCLS presence known. Can we develop a team, modeled after the Consumer Information Team – this team's members split up the work and answer questions regarding interpretation of laboratory testing results? Our challenge is to find a similar leader to manage the Social Media team, like Susan Leclair does for the Consumer Information Team. We need someone with ASCLS experience who is willing to train, monitor the process, and ensure that the team is successful in providing a strong social media presence. Are you interested in being a part of such a team? Do you know someone who knows ASCLS, and would be willing to take on this challenge? Let me know (da_zzzz@yahoo.com). We are definitely looking for

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2014 President's Report – Keep Sharing Your Passion!

J.R Constance, 2013-2014 ASCLS President

It is amazing to me that I am writing my last article as ASCLS President. It seems like the year has flown by. My year as President began with me standing in front of the ASCLS House of Delegates in Houston, telling the delegates about my Passion for the Profession of Medical Laboratory Science; and my articles this year continued the theme of Sharing Your Passion in some way.

Planning for the 2014 Annual Meeting in Chicago began last September with the Annual Meeting Steering Committee (AMSC) meeting in Chicago where the AMSC, led by Jean Bauer and CEAC Chair David Falleur, selected sessions and speakers for the 2014 Annual Meeting. Their work culminated in a great 82nd Annual Meeting in Chicago the last week of July.

In February I had the pleasure of attending another successful Clinical Laboratory Educators' Conference, CLEC 2014, in San Jose, CA. Co-Chairs Jan Hudzicki, Suzanne Gayrard and Mara Williams put on a great program.

This past March in Washington, DC, ASCLS co-sponsored another successful Legislative Symposium with ASCP, CLMA, AGT and AMT, where attendees learned about the latest legislation impacting clinical laboratories, and then headed up to the Hill to meet with their representatives to discuss clinical laboratory payments, modernizing the fee schedule and clinical laboratory personnel shortages. If you have not had an opportunity to attend a Legislative Symposium, I strongly encourage you to do so. It is a great way to learn about legislation impacting healthcare and the clinical laboratory, and about how our legislative system works.

This year ASCLS conducted its inaugural Advanced Management Institute, with content targeted to laboratory managers. Rick Panning and his committee put together an excellent program, with some nationally recognized speakers. The feedback from attendees was very good, and I am already looking forward to attending again next year.

The ASCLS Leadership Academy continues to do a wonderful job. At the ASCLS meeting in Chicago the

Leadership Academy graduated the class of 2013-2014, and kicked off the 2014-2015 class with 7 members, including Jonathan Gusilatar (MI), Kristen Croom (HI), Lacey Campbell (GA), Stephanie Souza (AZ), Ian Wallace (CO), Sarah Killian (MI), and Mallory Janquart (WI).

Several ASCLS Regions and constituent societies are presenting their own Leadership Academies; fulfilling the hope the national program would stimulate local programs that would be accessible to more ASCLS members.

The Consumer Information Team, under the guidance of Susan Leclair still answers about 75 questions a day, and they continue to get notes from people "who think that we have saved their lives or the lives of people they love." One example:

"Thank you so much for the easy-to-understand reply. It certainly reduces the anxiety when you know what's going on in your body and your explanation has assured me that my liver is functioning as it should. I wish my doctor had given me this explanation years ago."

In our ongoing effort to connect more closely with the patients we serve, Cathy Otto and the Patient Safety Committee have developed 3 new Patient Safety Education Tips, on INR, 24 Hour Urines, Lipids, and also created a state-focused publicity campaign to promote the patient safety education products.

The DCLS Oversight Committee, chaired by Nadine Fydryzewski has worked to develop a DCLS Tool Kit, and is working on a separate section of the Body of Knowledge specifically related to the Doctorate in *Clinical Laboratory Science*.

During the ASCLS Annual Meeting the Promotion of Profession Committee under the leadership of Chair Linda Laatsch, put together another successful ASCLS Provides HOPE drive, collecting donations for the Gads Hill Center.

As you are aware, we are constantly striving to grow our membership. The ASCLS Membership Committee has created two new ASCLS membership drives. The first is a **Member Rewards Program** that REWARDS you for recruiting new members, and the

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ASCLS AWARDS 2014: Member Awards

Marcella Yee
ASCLS Awards Chair

Awards for outstanding contributions were given to ASCLS members at the 82nd Annual Awards Ceremony, held July 31, 2014 at the Marriott Chicago Downtown Hotel.

As everyone sipped a celebratory glass of champagne, emcee Barbara Brown, 2003-2004 ASCLS President opened the ceremony, after parading down the aisle dressed in a “flapper” outfit accompanied to music selected by Ed Peterson, with some jokes and then proceeded on to business.

Golden Anniversary members were recognized for their 50 years of continuous membership, joining what was then known as ASMT in 1964. Present to receive their awards were: Kathleen Hansen, MN, Mickey Williams, IA, and Alicia Morgan, AK, represented by Shellie Smith. Other Golden anniversary Members are:



Vernis Adams, CA ● Dorothy S. Branson, MO ● Laverne Floyd, TN ● Terry Jo Gile, FL ● Albert Nagahashi, TN ● Glenda D. Price, MI ● Margaret L. Stark, WY ● Madeline Bonadies, NY ● Anne G. Distefano, NY ● Jean V. Garza, MI ● Judy K. Magnuson, ND ● Mary B. Petricek, NE ● Marjorie R. Schnerr, CT ● Elizabeth A. Turner, MA

Additionally, ASCLS members who were celebrating a membership milestone this year, i.e. membership in ASCLS 5, 10, 15, 20, 25, 30, 35, 40, and 45 years, had a designation on their badges, and stood to be recognized.

ASCLS Education & Research Fund: George Fritsma, E& R Chair, recognized recipients for the following awards and scholarships:

The **Joseph J. Kleiner Memorial Award**, for authors of exceptional articles published in the *Clinical Laboratory Science* Journal: Susan Morris, ID, represented by co-authors Catherine Otto and Karen Golemboski

The **Gloria F. “Mike” Gilbert Memorial Trustee Award** for professional excellence: Jennifer Dawson, TX

Member Grant Award for scientific investigation in the field of clinical laboratory science: Emily M. Hill, VA, for her study, “Emerging Pathogens in Cystic Fibrosis Patients at VCU Medical Center”, and Jean Sparks, TX, represented by Felix Omoruyi, for her study “Kalanchoe Pinnata Preparation in the Treatment of Type 2 Diabetes.”

I. Dean Spradling Research Grant for graduate student research: Ekaterina S. Syskin, MO, for her study, “Development of a Quantitative Biofilm Assay.”

ASCLS E & R Edward C. Dolbey Scholarships:

Graduate: Regina T. Wulff, NY

Undergraduate MLS: Amy Beth Fitterer WA,, Michele Stretch, NE, Bernadette L. Urioste, CO

MLT: Denise E. Davis, CO, and Samantha Groves, MS

ASCLS E & R Michelle Kanuth Memorial Scholarship: Meghan Moore, OR

ASCLS E & R Memorial Scholarship: Jeyavathsala Kanagaratnam, RI

ASCLS E & R Dan Southern Scholarship: Linda Duong, TN

Alpha Mu Tau Fraternity Scholarships were presented by Scott Aikey, AMTF President. Over \$50,000 in scholarships were awarded to:

Graduate: Kimaria D. Baker, TN and Emily M. Hill, VA

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Undergraduate: Benjamin Branigan, NE Jordan E. Eggers, OR ● Lisa Fitzgerald, WI ● Luc A. Gagné, RI Rachel Goldsberry, OH ● Megan Gunderson, NE ● Megan C. Jammer, WI ● Elizabeth LeFors, CO Arianna Morton, DE ● Kevin Nicholson, NE ● Stephanie Noblit, PA ● Om P. Ojha, MD ● Sarah Sherrill, LA Shari Smith, CO* ● Mary Ward, KS ● Michelle Zullo, WI

Additional Alpha Mu Tau Fraternity memorial scholarships were awarded as follows:

Ruth French Memorial Scholarship: Charity F. Anderson, MS

James Holley Memorial Scholarship: Maha Iqbal, OR

Dorothy Morrison Memorial Scholarship: Christin L. Jones, OR

Ida & May Reilly Undergraduate Scholarship: Shannon Anthony, OR

Royce Watson Scholarship: Kristen Jeanne Bagnat, WI

Martha Winstead Memorial Scholarship: Amy Cammarata, LA

Forum for Concerns of Minorities scholarship awardees:

MLS Students: Brianda Beverley, VA, and Alicia Thomas, CO

Cardinal urEssential Award: Cyndi Carter from Cardinal Health announced a new award from Cardinal Health, called urEssential. Debra Woods received the inaugural award, which funded a \$20,000 scholarship in her name to the institution of her choice, to support students seeking careers in laboratory medicine.

Crystal Mino, Student Forum Chair, presented the **ASCLS Student Travel Awards**. The Student Forum conducted fundraisers to send one student to each of the Legislative Symposium and the Annual Meetings. Recipients are:
For Legislative Symposium: Stephanie Noblit, PA
For Annual Meeting: Brooks Kennedy, TX

J.R. Constance presented plaques to the **ASCLS Student Forum Travel Grant recipients:** Temitope Adeyeni, MO, Lisa Alexander, NE, Kimaria Baker, TN, James Gardner, LA, and Jazmen Myers and Rosemarie Nguyen, TX. Thank you to the very generous anonymous donor who made these travel grants possible this year!

Constituent Society Awards:

Renee Setina, PAC chair, presented the **Political Action Committee Awards:**

3rd place: Central New England

2nd place: ASCLS-Illinois

1st place: ASCLS Idaho

Linda Laatsch, chair of the **Promotion of the Profession Committee**, presented its awards for charitable giving. Each winning society raised funds for a charitable organization of their choice; funds raised are calculated per ASCLS member within that society as part of the judging:

3rd place: ASCLS-Alaska—held a silent auction to benefit Covenant House Alaska, a local charity to assist homeless young people with a safe refuge.

2nd place: ASCLS-Minnesota--held several fundraisers, raffles, and a T-shirt sale to benefit charities from local organizations to the American Red Cross for Typhoon Haiyen.

1st place: ASCLS-Delaware--members walked for fundraisers, raising money for the Juvenile Diabetes Research Foundation and the Pancreatic Cancer Network.

470 ASCLS members received the Omicron Sigma Award this year.

Keys to the Future: 62 members were recognized by ASCLS with a special key pin. Their names were posted at the ASCLS booth as well as being recognized at the Awards Ceremony.

The Student Forum Leadership Award recognizes a student member who has demonstrated outstanding

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leadership and who has contributed to the growth and development of the Student Forum. The nominees were: Amandalynn Graves, SD, Justin Hanenberg, NJ, Georgina M. Nicolo, CNE, and Erin Lee Weyers, MN.

The ASCLS Student Forum Leadership Award winner: Erin Lee Weyers.

The New Professional Member of the Year is awarded each year to recognize a member of ASCLS who has contributed significantly to the field of clinical laboratory science and the society within the first five years of professional membership. This year's nominees:

Shannon W. Billings, AK • Jasmin S. Davis, TX • Cynthia S. Dixey, NJ • Tiffany Landis, TN • Karen N. Larson, MN
Stephanie Noblit, PA • Jacqueline Raetz, CNE • Katie Tipton, SD* • Ian Wallace, CO

The New Professional Member of the Year winner: Shannon W. Billings.

Beth Warning presented the award **Bio-Rad Professional Achievement** in Immunology/Immunohematology to Kerry Harbert. The **Bio-Rad Professional Achievement** in Microbiology was awarded to Fran Ingersoll.

Susan Stalewski presented the **ESA Student Case Study & Research Paper Awards** which recognizes the scientific writings of students within clinical laboratory science programs. The winning ESA student case study winner is Haley Amoth. The winning ESA research paper winner is Mathew Clayton.

Susan Leclair, editor of the ASCLS journal, Clinical Laboratory Science, awarded The **CLS Distinguished Author Award** for outstanding writing to:

- Linda S. Gorman & Janelle M. Chiasera in the Focus section for "Endocrinology Review - Adrenal and Thyroid Disorders"
- Caleb Distel, Stephanie Jacobson, and Patricia Tille in the Clinical Practice section for "Alcohol Induced Ketoacidosis Exacerbated by an Acute Respiratory Infection with *Klebsiella pneumoniae*", and
- Edward Chan and Diane Seales, in the Research and Reports Section for "Evaluation of a Cost Effective Broth and Selective Agar Combination for the Detection of MRSA and *Staphylococcus aureus* from Surveillance Specimens Using Regular Workflow."

J.R. Constance presented the **Scientific Research Award** to **Rodney E. Rohde** for the article "Epidemiology of Rabies in Bats in Texas (2001–2010)"

ASCLS Newsletter Awards:

In the print category,

3rd place—NewsScope, Iowa, Vonnie Hinrichsen, editor

1st place (tied): The Centrifuge, Oregon, Beth Zentzis, editor; and The Analyzer, New Jersey, Katherine DeMenna, editor.

In the web-based category:

3rd place: "Illinois Insights", Illinois, Masih Shokrani, editor.

2nd place: "e-LABorate", Minnesota, Paula M. Vagnone, editor

1st place: "VOLUSIONASCLS-South Dakota", South Dakota, Lezlee Koch, editor

The **Constituent Society Website Award** is a new award which recognizes excellence in a constituent society's or other ASCLS-affiliated website. Submissions were judged on appearance, content, creativity, artwork and graphics.

3rd place: ASCLS-Minnesota, Paula M. Vagnone, webmaster,

2nd place: ASCLS-New Jersey, Cynthia Dixey, webmaster, and

1st place: ASCLS-Colorado, Jenney Mead, webmaster.

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CONSTITUENT SOCIETY MEMBERSHIP AWARDS:

For the **Greatest Percent Increase** in membership:

2nd place: ASCLS-Mississippi with a 10% increase.

1st place: ASCLS-Delaware with a 15.9 % increase.

The **Greatest Percent Increase** in non-student memberships:

2nd place: ASCLS-Indiana with a 2.8% increase

1st place: ASCLS-Delaware with a 7.3% increase.

For the **Greatest Percent Retention:**

3rd place: Louisiana Society for Clinical Laboratory Science with 98.5% retention.

2nd place: CLSA -Alaska with 98.9% retention

1st place with 100% retention (tied): ASCLS-West Virginia & ASCLS-Wyoming.

The 2013-14 Membership Committee held a “**Gift a Member**” campaign this past year which invited ASCLS Members to pay for another member’s professional dues as a way to “share their passion” for ASCLS. This program was designed to mentor new or recently lapsed members back into the organization and inspire them to become active in ASCLS. These donors were asked to stand and be recognized for their generous gift to ASCLS and their fellow colleagues: Verona Nicolae, Susan Radley, Stacey Robinson and Barbara Snyderman.

Frank Scarano, Susan Stalewski, and George Fritsma presented awards to the winners of the **ASCLS Annual Meeting Poster Competition: Professional:** Katherine Franz; Graduate: Kathryn Traugher; **Undergraduate:** 3rd place: Brooke Boone; 2nd place: Temitope A. Adeyeni, 1st Place: Brooks K. Kennedy

Lynn Ingram presented the **ASCLS Leadership Academy** graduates with their certificates of completion after an intensive year: Emily Thebert Clarke, Ashley Collins, Ninive Costa, Jeremy Edwards, Stephanie Rink, Lolanya Snoddy Rivers, and Tess E. Smith

J.R. Constance presented the **Constituent Society Member Of The Year Award:** This is the first year for this award which celebrates the Member of the Year of each Constituent Society. These members came to the stage and were recognized:

Stacy Walz, AR Lynn Maedel, CO ● Katie McNeil, GA ● Kevin McNeil, GA ● Sally Pestana, HI
Masih Shokrani, IL ● Amy Frank, IA ● Jessica Lasiter, LA ● Suzanne Butch, MI ● Paula Vagnone, MN
Dinah Rauenhorst, MS ● Tim Randolph, MO ● Sadie Arnold, MT ● Shelby Currier, NC ● Nicole Lemieux, ND
Mary Beth Miele, PA ● Renee Rydell, SD ● Perry Scanlan, TN ● Linda Smith, TX ● Justin Rhees, UT
Lauren Gansemer, WA ● Jeannette Putnam, WI ● Theresa Barbre, WY

Suzie Zanto, ASCLS President-elect, emceed the final portion of the Awards ceremony, the **Lifetime Achievement Award**, which honors a member who has made remarkable contributions to ASCLS and the laboratory field, and who, by outstanding example, inspired others. This year, there are 10 nominees for the Lifetime Achievement Award:

Shirley Pitts, AND Barbara Adam Brown, CO ● Halcyon St. Hill, FL ● Linda S. Gorman, KY ● Catherine Otto, MD
Mabel Jane Hudson, MS ● Anne H. Weber, MT ● Carol Golyski, NY ● Lezlee Koch, SD ● Shirlyn B. McKenzie, TX

The Inaugural ASCLS Lifetime Achievement Award was presented to **Shirlyn B. McKenzie**. As Suzie read from the nomination letter, “True leaders do not create followers, they create more leaders - I believe this is this member’s legacy.” Shirlyn received a silver bowl from ASCLS President J.R. Constance, as well as a standing ovation. She thanked everyone, as well as those who mentored her.

Awards

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Congratulations to all nominees and winners. Please visit the ASCLS website at the Annual Meeting page for pictures of the Awards Ceremonies. The audience was also invited to post pictures on the ASCLS Facebook Page. Do plan to participate, nominate and apply for any appropriate ASCLS Award in 2015.



A special thanks to the many volunteers who assisted with the Awards at the annual meeting and throughout the year, and those who volunteered to judge the many awards.

Charlotte Bates ● Ashley Boucher ● Susan Burks ● Wanda Burrell
 Ashley Camara ● Suzanne Campbell ● Casey Ceasor ● Maribeth Flaws
 David Fowler ● George Fritsma ● Mildred Fuller ● Chad Guillians
 Lisa Hochstein ● Floyd Josephat ● Linda Laatsch ● Susan Leclair ● Elizabeth Leibach
 David McGlasson ● Shirlyn McKenzie ● Mary Ann McLane ● Roslyn McQueen
 Stephanie Mihane ● Kyle Riding ● Bernadette Rodak ● Gilma Roncancio-Weemer
 Barbara Russell ● Perry Scanlan ● Carol Shearer ● Masih Shokrani ● Stephanie Smothers
 Melody O'Donnell ● Holly Weinberg ● Marcella Yee ● Kimuria Baker ● Mary Worthing ● Farogh Nazari

2014 ASCLS Awards Committee

Marcella Yee, Co-Chair ● Gilma Roncancio-Weemer, Co-Chair ● Lisa Hochstein ● Stephanie Mihane
 Masih Shokrani ● Melody O'Donnell ● Mary Ann McLane - E & R Fund Representative
 Farogh Nazari - Industry Representative ● Ashley Boucher - New Professional Representative
 Ashley-Marie Camara & Amy Marques – Student Representatives ● Suzanne Campbell - Board Liaison
 ASCLS Staff Liaison: Elissa Passiment

ASCLS Executive Office

Elissa Passiment ● Andrea Hickey ● Karrie Hovis

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Greetings Future CLS Professionals

Elizabeth Johnson Ezeb (Louisiana), BSCLS, MLS(ASCP)^{CM}
 Student Forum Chair

I am extremely excited to share the goals set in place for our Student Forum this year. First, I would like to congratulate all selectees on their new positions as national student forum officers, regional student representatives, and student delegates for our wonderful organization.

Jazmen Myers (Texas) is our Vice-Chair and Kimaria Baker (Tennessee) our Secretary. I have had the pleasure of meeting and exchanging interesting conversations about our future and could not be more pumped up about working with such a great group of people.

As of this month, I have talked with a few students and we are planning to implement student sessions that will give tips on certification exams, the importance of the student to the profession and our role in a flourishing organization.

As a complete Student Forum, our goal is to communicate and focus on the value of joining ASCLS for the laboratory student/professional and to explore the possibilities of adding more aspects to the Forum to meet student needs. Many plans are in talks as to how we, the students, can and will be a huge contributing factor to ASCLS. So with that being said, buckle up and hold fast, because this is going to be a speeding train destined for success!!

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Tips and Tidbits towards Building A Robust Online Course - Part 2

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ASCLA-GA President 2013-2014
Armstrong Atlantic State University
Medical Laboratory Science Program
Instructor: Clinical Immunology and Immunohematology

Before beginning Part 2 of this article, here is a quick refresher of Part 1:

Components of a Well-Designed Course:

- Uses SMART objectives.
- Is easy to navigate.
- Has multiple learning activities and assignments.
- Students know how they are doing throughout the course.
- There is student and instructor feedback.
- The Instructor can evaluate the effectiveness of the course.
- It can be revised and/or updated easily and effectively.

With the above components in mind, let us begin Part 2 by looking at three effective Instructional Design Models (IDM) for building robust on-line courses.

An IDM provides guidelines to help organize and structure your course whether it is on-line, blended, or traditional. Here are a few design models I have used to help design a course:

The ADDIE Model uses the following five stages.

- Analysis – pre-planning; think about type of student, goals and objectives of course; final outcome or assessment.
- Design – identify content; how will you arrange it? Sections or modules?
- Develop – develop content, assignments, assessments into course
- Implement – begin with a course overview and expectations; what type of interaction will you use? Student-to-student or student-to-teacher or both? How will you evaluate student progress in the course?
- Evaluate – did students achieve the goals of the course? How do you assess this? Student surveys, course evaluations at midterm and end of term? How can you make this course better?

(**ADDIE Model:** <http://raleighway.com/addie/>)

The ASSURE Model incorporates Robert Gagne's events of instruction to assure effective use of media in instruction. The components are:

A — Analyze learners

S — State standards & objectives

S — Select strategies, technology, media & materials

U — Utilize technology, media & materials

R — Require learner participation

E — Evaluate & revise

(ASSURE: <http://www.instructionaldesign.org/models/assure.html>)

The Backward Design Model incorporates the ideas of Wiggins and McTighe that learning experiences

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Molecular Tools Aid in Revealing a Glioma Disguised as a Stroke

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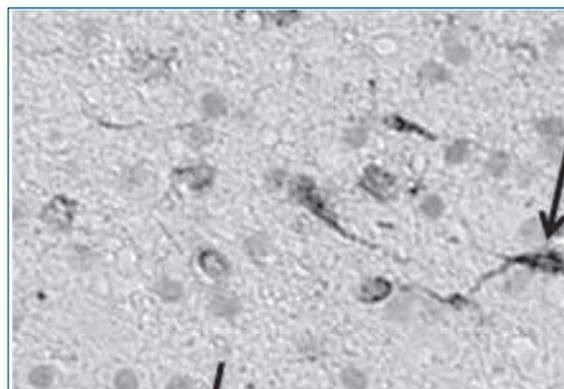
Introduction

The loss of blood flow to a portion of the brain, termed a cerebral infarction, leads to ischemia and cell death. This primarily occurs in individuals over the age of 60, but is infrequently observed in middle age. The most common cause for a cerebral infarction in the older population is the atherosclerotic buildup inside large vessels in the head and neck. Strokes in middle-aged populations are multifactorial, but primarily occur from one of several cardiac-generated thrombotic events. An event that leads to blood loss to any portion of the brain can cause ischemia, which presents clinically as a stroke. Neuroimaging techniques (magnetic resonance imaging (MRI) or computerized tomography (CT)) in conjunction with the clinical presentation allow for cerebral infarction diagnoses to be made. A glioma is a primary brain tumor that originates from the supportive cells of the brain, called glial cells. Similar to stroke, a glioma diagnosis involves a neurological exam and imaging with the addition of a biopsy. Interestingly, it is possible for even state-of-the-art imaging tools to be unable to differentiate between these two disease states without use of the latest molecular tools. This is a case where the working diagnosis was changed from resolving infarct to glioma after molecular assays were performed and evaluated.

Case Presentation

A 43-year-old male presented with recurring seizures that were not controlled by medication. The patient had been previously diagnosed with multiple sclerosis and also had a history of congestive heart failure, alcohol abuse, and suffered a right-sided stroke over five years ago. Radiographic imaging demonstrated an abnormal lesion in the right posterior temporal lobe. It was unclear if this lesion was an ischemic-related event attributed to another cerebral infarction or if there was a new underlying cause such as a low-grade brain tumor.

Due to the uncontrolled persistent seizures, a surgical biopsy of the lesion residing in the posterior temporal lobe was performed. This surgical specimen was formalin-fixed and paraffin-embedded. A section of the tissue was stained with hematoxylin and eosin and sent to a pathologist for evaluation. Observation under light microscopy revealed mostly normal brain architecture with no detectable tumor cells. The R132H IDH1 immunostain was ordered to further exclude an infiltrating glioma. This assay uses a monoclonal antibody as a poor man's



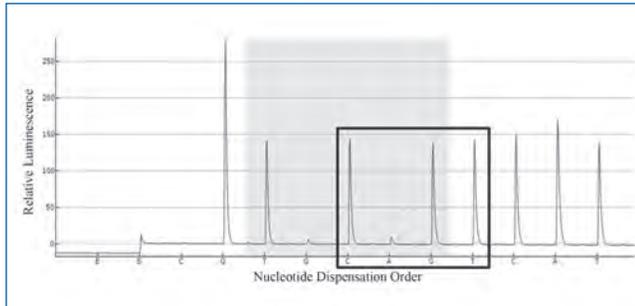
sequencer to detect an arginine to histidine missense mutation at codon 132 in the isocitrate dehydrogenase 1 (IDH1) gene. The antibody only binds to an epitope containing this tumor-specific mutation, not the normal sequence. A positive test is conclusive of a glioma. The results of the R132H IDH1 test demonstrated scattered cells that were strongly positive for this marker (Figure 1). Next, a quantitative DNA-based mutation analysis of IDH1 was carried out to confirm the immunohistochemical result. DNA was isolated from the biopsy and a portion of IDH1 was amplified by PCR. Pyrosequencing of codon 132 was then carried out to determine the exact nucleotide sequence. The pyrogram shown in Figure 2 demonstrates a small percent of mutated (G to A) DNA sequence was present that leads to a change in codon 132 from CGT to CAT.

Figure 1. Immunohistochemical detection of the R132H IDH1 mutation. A monoclonal antibody that recognizes histidine in an epitope surrounding amino acid 132 was used to detect the presence of this tumor specific marker by immunohistochemistry. The scattered dark staining cells denoted by the arrow are positive and diagnostic of a glioma.

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Molecular Tools From Page 10

Figure 2. IDH1 mutation detection by DNA sequence analysis. Pyrosequencing was used to confirm the immunohistochemical results. The outlined region contains the codon 132 sequence in question (CGA = normal; CAT is mutated). The adenine nucleotide comprises approximately 4% of the second position and, therefore, the resulting CAT codon does in fact call for the mutation-specific histidine to be inserted at this position.



The mutation accounted for approximately 4% of the DNA present in the sample, consistent with the number of scattered tumor cells identified by immunohistochemistry. Based on the results of the molecular studies the pathologist was able to definitively state this patient harbored an infiltrative glioma.

Discussion:

Strokes and cerebral infarctions are normally observed in the elderly, but can occur in younger populations.

The incidence of stroke in people age 55 and under is approximately 113/100,000 (infarction is 73/100,000) and accounts for 10% of all strokes (Weiss and Weinfeld 1981). The two greatest risk factors for cerebral infarction in this younger population include hypertension and heart disease (You, McNeil et al. 1997). Based on the fact this patient experienced a stroke and congestive heart failure in his 30s, it was very possible he had experienced another cerebral infarction. The onset of multiple sclerosis (MS) in this patient also added a confounding factor. MS is a progressive demyelinating disease in which an increase in seizures had been noted since the first description of MS. Although the etiology is unclear, the incidence of stroke is elevated (approximately 3-4%) in MS patients (Kelley and Rodriguez 2009). Therefore, the evidence in this case study strongly pointed to the radiographic lesion being due to a second cerebral infarction.

For the diagnosis of cerebral infarction to be made, all other causes must be ruled out. This patient underwent a seizure-related surgical procedure which allowed other causes to be investigated including glioma. Molecular analyses in the last decade have proven extremely useful in aiding pathologists in detecting brain tumors (Detecting brain tumors (Horbinski, Miller et al. 2011)). Three genetic markers that have diagnostic value are currently offered by molecular pathology/ anatomic laboratories: (1) co-deletion of the short arm of chromosome 1 and long arm of chromosome 19 are present in the vast majority of brain tumors arising in oligodendrocytes (oligodendrogliomas) and is detected by fluorescence in situ hybridization (FISH); (2) chromosome 7 trisomy and Epidermal Growth Factor Receptor (EGFR) amplification are diagnostic of glioblastoma and can be performed in a single FISH assay; and (3) the presence of an IDH1/2 mutation strongly suggests an infiltrative glioma and can be detected by direct DNA sequencing alone or in combination with immunohistochemical methods.

This case also highlights the power of pyrosequencing for mutation detection. Many laboratories use Sanger chain-termination sequencing for detecting tumor-specific mutations in numerous genes. The shortcoming with Sanger sequencing is that it is mainly qualitative with a detection limit of approximately 20%. In contrast, pyrosequencing is quantitative with a detection limit approaching 2%. Therefore, pyrosequencing tests require a limited need for tissue microdissection with specimens containing 5% tumor still acceptable for molecular analysis. Furthermore, the ability to quantify the percent of any nucleotide in a specific position also allows pyrosequencing to be the tool of choice for methylation detection in gene promoters.

As demonstrated here, molecular detection of an IDH1 mutation was essential in assisting the pathologist to a final diagnosis of glioma when light microscopy was equivocal. As more molecular markers of diseases are identified and as new technologies such as next-generation sequencing become available, the role of the medical laboratory scientist in the molecular pathology lab will not only aid in diagnosis, but also in prognosis as treatment options continue to grow.

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President-Elect Candidate Presentation

Barbara Snyderman

Thank you for the opportunity to be considered a candidate to lead this great organization.

As I look at this audience, I see the most valuable resource our profession and ASCLS has: the members who believe being part of a professional organization is vital to their future. If I could bottle the enthusiasm in this room and distribute it to laboratories that would be a great start in improving the feelings of our colleagues. You know the value of professionalism, membership and in participating and contributing to ASCLS. The excitement at this annual meeting is overwhelming—but then we go home. Do we share the enthusiasm and the experiences we had? We tend to take an ASCLS vacation for August, and then we get in to the same routine we do every year—planning local meetings, starting over with membership campaigns and contacting our lapsed members.

What if we didn't take that month off? What if we began planning for the following year BEFORE we came to this meeting or have one in August so we can feed off the excitement of being at an Annual Meeting? We need to reach out to our co-workers and explain why we were here and invite them to attend meetings. I am convinced that had it not been for the late Dezna Sheehan approaching me after my first national meeting that my career would have been different and I would not be standing here today. She, along with my program directors, mentored me and helped me believe that participating in and attending meetings were the keys to being a professional.

We need to get out of the laboratory! I have been in many labs in my career, and I can tell you the majority of staff does not leave their departments during the day. What if you were to eat your lunch in the cafeteria? Sit down with other health care practitioners and have a conversation with them. In turn, they might ask you about what you do or about a laboratory test. Sharing knowledge with others is a great way to feel professional.

You may be familiar with a site on Facebook called "Lab Humor." Several weeks ago, the founder posted a long paragraph about how proud he was to be in this profession. My joy at reading his message turned

to sadness when I read the comments he got—they were overwhelmingly negative. We complain—a lot—and not just about our work. We too often make comments about other health care professionals and the work they do that is related to ours yet we don't take the time to explain why our requests are important to the patient. If we help our hospital colleagues understand our practice, we can create dual respect and lead to feelings of professionalism.

We also do not celebrate ourselves enough! Medical Laboratory Professionals Week has become a time to eat, play games, and collect gifts. Few labs have outreach programs for their hospital co-workers to explain what goes on in our departments. Why do we wait for that one week a year? Why don't laboratorians create open house and publicity programs all year long? Participating in this type of educational opportunity is a great way to feel professional and get the word out about what we do.

I also believe we need to encourage all laboratorians that continuing education matters. Professionals should be concerned about maintaining competency and being informed about the changes in our practice no matter how long they have worked. I hope the certified younger practitioners will begin to change the attitude of the profession.

We all need to be the voice of our profession and our organization! You know that attitudes are infectious. If you have a smile on your face, it is hard for another person to not smile back. It is the same with attitude. If you project a professional attitude and talk about how membership and professionalism go hand in hand, you might reach one co-worker. That's all it takes. That one might reach another... Spread the professional attitude!

We have to communicate to our colleagues that ASCLS is NOT just about continuing education! There are many opportunities for our colleagues to obtain the credits they need, but the other organizations do not offer what ASCLS does: government representation, consumer advocacy, patient safety information and networking, to name a

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82nd Annual Mtg. From Page 1

project entitled "Member Retention: Why They Don't Renew," which provided information regarding member retention strategies and ideas for improvement. The Leadership Academy graduates, once again, developed excellent programs and resources for members.

The closing keynote on Friday afternoon, "What Do Most Influential People Do Differently: How Do You Get People to Do What You Want Them to Do" presented by Garrison Wynn, was a light-hearted session teaching us we must understand people's values to influence their actions. ASCLS thanks Siemens Healthcare Diagnostics for their sponsorship of the keynote.

ASCLS continues to enjoy collaborating with ASCP at the Annual Meeting. ASCP sponsored two educational sessions which were webcast live to almost 200 laboratorians around the country! Both ASCLS and ASCP members could view the webcast at no cost while it was presented live.

The popular Mobile Meeting Application returned this year. The annual meeting sessions, speakers, handouts, sponsors, Clinical Lab Expo map and more could all be accessed from a smartphone or tablet. ASCLS is grateful to Bio-Rad Laboratories for sponsorship of this useful tool at the meeting.

New this year was wireless internet connection in every hotel meeting room allowing attendees to access handouts via the internet using their personal electronic device. Meeting delegates again voted electronically at the meeting providing a quicker dissemination of election results. The ASCLS Social Networking Team kept members connected and informed by frequent posts to the ASCLS Facebook site and by

tweeting throughout the meeting.

HOPE

The Promotion of the Profession Committee (PPC) coordinated the annual ASCLS Provides HOPE – Helping Other People Event. This year's event benefited the "Gads Hill Center," a social service organization that provides educational programming to low-income families, children, teens, and adults in the Chicago area. It was a tremendous success to help ASCLS "Provide the Face" and benefit this organization. Several boxes of school supplies and \$1085 were donated during the Annual Meeting. ASCLS was especially grateful to Dove Medical Supply for helping coordinate the collection of laboratory supplies for the STEM programs provided by Gads Hill Center. Many thanks to all who donated and to the members of the PPC, especially Jamie Blankenship, HOPE coordinator, and Linda Laatsch, PPC Chair.

Kudos to AMSC and CEAC

Kudos are extended to Yolanda Sanchez, the host society liaison, Jean Bauer, the AMSC Chair, David Falleur, the CEAC Chair, and other members of AMSC and CEAC for their efforts in making the 82nd ASCLS Annual Meeting such a great success.

AMSC members included:

Jean Bauer, AMSC Chair
David Falleur, CEAC Chair
Scott Aikey, CEAC Vice-chair
J.R. Constance, ASCLS President
Susie Zanto, ASCLS President-Elect
Jillene Collins, Industry Liaison
Debbie Faubion, Industry Liaison
Yolanda Sanchez, Host Society Liaison
Lacey Campbell, FYP Director
Pam Magnani, Meeting & Speaker Management
Elissa Passiment, ASCLS Executive Vice-President
Joan Polancic/Karrie Hovis, ASCLS Director of Professional Development & Project Management

CEAC members included:

David Falleur, Chair
Scott Aikey, Vice-Chair
Jean Bauer, AMSC Chair
Donna J. Spannaus-Martin
Nadine Fydryszewski
Becky See
Kristin Landis-Piwowar
Diane Davis
Glen McDaniel
Kyle Riding
Yolanda Sanchez
Crystal Mino
Susie Zanto, ASCLS President-Elect

Many thanks to each of these dedicated members and staff whose efforts provided an excellent ASCLS experience!

•••••

Industry From Page 1

Bio-Rad Laboratories:

Honorable Mention

Siemens Healthcare Diagnostics:

Crystal Award

Roche Diagnostics:

President's Award

Also the following companies were recognized for their support throughout the year: Advance Newsmagazines, ASCP, ANIARA Diagnostics LLC, Beckman Coulter, The Binding Site, Horiba Medical, McKesson Corporation, Rush University, Sysmex America, Inc., Terumo BCT, Inc., Greiner Bio-One North America, Inc., and Hemo Bioscience Inc.,

•••••

J.R. Constance From Page 3

Member GIFT a Member Program,

designed to encourage those who are able to gift a membership to someone who may not think they have the money to pay for a membership, whether a student or new professional, or a seasoned laboratory scientist. In addition, working with Elissa Passiment and the committee, ASCLS recommended

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J.R. Constance From Page 13

the creation of two new membership packages targeting the recruitment of entire laboratories and educational programs. There are still some bugs to work out with these two packages but I certainly believe both of these packages have some great potential.

Finally, at the ASCLS House of Delegates this year we voted on an updated Body of Knowledge document. Thank you to Shauna Anderson Young and to all of the individuals who worked diligently to complete this document.

I would like to express a sincere thank you to our ASCLS Executive Vice President Elissa Passiment and the ASCLS office staff, the ASCLS Board of Directors, Committee and SA Chairs and all of you ASCLS members who supported me during my year as ASCLS President.

Thank you all for continuing to **Share your Passion for the Profession!** I look forward to having the opportunity to work with you in the future.

*President's Message From Page 3*

members with social media experience who are willing to help spread the ASCLS message.

Now, let's explore why we should be a little concerned about this social media revolution. When Governor Deval Patrick gave the BU commencement address, his words resonated with me. He stated "I worry that social media is eroding the intimacy that is needed for true relationship building...". He goes on to say "I'm not the dull middle-aged Luddite that I sound like right now. I love the convenience, reach and flexibility of social media. My point

is that human intimacy still matters. That's how we build trust, how we convey kindness and grace, how we love, how we heal the world. And human intimacy still depends on looking someone in the eye, touching them, actively listening, being present."

My husband Jack and I recently visited a Comedy Club in Seattle, where Dan, a young comic, was complaining about having to solve story problems in school, and how he decided to write his own: Dan has 432 friends on Facebook and he invited all of them to come see him perform at the Comedy Club. Dan received 38 replies that they would come, but only 5 people showed up. How many friends does Dan really have?

I decided just before the Annual Meeting that I needed to do a better job creating my social media presence, so I started "friending" my ASCLS friends over Facebook. OMG! I didn't realize, especially around ASCLS Annual Meeting time, how fun it was to be virtually in touch with all of the friends and colleagues I have gained through ASCLS. There is no way I could keep in touch through telephone calls and e-mails, but with just a glance at Facebook, I no longer have as much to "catch up" on when we get together. (And I will have no excuse for forgetting a birthday.) However, in-person interactions are how I developed the close relationships I have, and how I came to believe in ASCLS. Having already established that personal intimacy is the real reason I found I enjoyed Facebook.

This year I called our ASCLS national meeting my ASCLS Reunion – where I get to see people who I haven't seen for a year or more, and really connect. You can't equal that face to face reunion by connecting through social media –

yet you really can't lose the connection that social media provides as well. We need to create that strong social media presence for ASCLS, but we can't forget the importance of the networking that occurs at in-person meetings like our Annual Meeting, the regional meetings, and the state and local meetings. That is where I made my deepest and strongest relationships, which are only enhanced by communicating through social media.

Once a month, I will be posting an e-newsletter and blast it to the ASCLS members over e-mail. This is intended to inform the membership of all the activities that happen at the Committee level over the course of the year and show them how ASCLS works for them year round. But I realize that posting to Facebook and other social media avenues is equally as important, and I will attempt to communicate that way as well.

Can you tell I am personally trying to find a balance between communicating through social media and in-person relationship building? ASCLS needs to find that balance, too. In the words of Governor Patrick, "Be present – and see what a difference it makes in your lives and in the world." Although we know that ASCLS needs to strengthen the communication of our message through social media, let's look up from our smart phones once in a while, and connect on an intimate level with someone else. Remember, has anyone ever fallen in love over Facebook?



 Online Course From Page 9

should be planned with the final assessment in mind (Wiggins and McTighe, 2000, page 8). Instructors and educators are encouraged to begin their course design at the end and work backwards to the beginning.

There are three stages to this design:

- Identify desired results
- Determine acceptable evidence of learning
- Design learning experiences and instruction to meet stages 1 and 2.

(Backward Design: http://www.instructionaldesign.org/models/backward_design.html) For more information you may want to check out this website: <http://www.arps.org/users/ms/coaches/backward%20design%20101.htm>

As you can see, all models contain similar information and design. It is up to you to experiment with these and other IDMs to begin the process of forming your own on-line course. As you develop and run your course you will need to evaluate its effectiveness in getting the material across to the students. This can be done by using a rubric or course goals stating what the course should accomplish.

Another tool for evaluating the effectiveness of your course design is the Quality Matters Rubric. Quality Matters (QM) is a faculty-centered, peer review process designed to certify the quality of online and blended courses. An updated version of the QM Rubric will be released this year. The QM Rubric contains the following eight general standards:

- Course overview and introduction
- Learning objectives (competencies)
- Assessment and measurement
- Instructional materials
- Learner interaction and engagement
- Course technology
- Learner support
- Accessibility

Information about this rubric and how to become a certified online and blended reviewer can be found at: <http://www.qmprogram.org/rubric>.

I have used this rubric to develop new courses as well as evaluate and improve current courses. All of my courses are “in progress” as I continually strive to reach the eight standards set by Quality Matters. As more institutions and programs plan to deliver quality instruction on-line, it is imperative that we, as professionals and instructors, produce robust learning modules, units, and courses for our students. Without these robust types of courses the student will be at a loss, unable to complete our programs or compete for clinical jobs. This will greatly impact the quality of our profession as well as best patient care practices.

 Molecular Tools From Page 11

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 President-Elect From Page 12

few. We have talked about elevator speeches for when people ask us what we do: we need one to address the benefits of membership and how membership and professionalism go hand-in-hand.

So the strategy is simple: it is all about US—those of us in this room and our colleagues at home. We must share our experiences at this meeting and how participating in ASCLS has changed the course of our careers. We all hold the answer to the issue and hold the key to our own successes.

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One Voice,
One Vision**



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