Carolinas Clinical Connection

Defining and Defending Healthcare

March 23 – 25, 2011

Embassy Suites
5055 International Blvd
North Charleston, South Carolina, 29418
Dear Friends:

On behalf of the 2011 Carolinas Clinical Connection planning committee, it is my pleasure to welcome you to Charleston, SC and the Embassy Suites North Charleston. The planning committee, composed of members representing several professional organizations, has worked very hard to secure top-notch speakers with topics of current interest for all. The speakers they have scheduled are at the forefront of “Defending and Defining Health” in their roles as laboratory medicine practitioners.

This conference would not be possible without the support and help of the many vendors in the exhibit hall. We have designed the program to allow for you to visit with them and thank them for their generosity. Many companies contributed money for the speakers, breaks, and social events. They have also gone to considerable expense to bring to our exhibit hall the latest in instrumentation and technology. Please take the time to thank them for their support. Recruiters with job opportunities are also waiting to talk to you about your career goals.

Quality healthcare will always be a necessity; our communities look to us to provide them with the best possible defense against the ravages of disease. Though we represent many professional societies and interests within laboratory medicine, the future demands we unite and chart a course to respond to and shape our ever changing and always challenging new roles in our field of medicine. May we all strive together to learn, grow professionally, and accept the challenge of “Defending and Defining” the course of healthcare!

Michelle Mantooth, General Chair

2011 Planning Committee

Program Chair……………………………………………………………………. Michelle Mantooth
Secretary/Treasure………………………………………………………………. Teri Leszczyszyn
Program Chair………………………………………………………………….. Tiffany Whittle
Program Committee:……………………………………………………………...Charles Baker
Janis Livingston
Michelle Mantooth

Registration Chair……………………………………………………………….Joyce Reed
Exhibit Chair…………………………………………………………………..Peggy McCutcheon
Machelle Rush
Suzie Clements

AMTI Coordinator……………………………………………………………….Suzie Clements
Pace Coordinator………………………………………………………………Michelle Mantooth
Hospitality Chair………………………………………………………………Joyce Lybrand
Moderators Chair………………………………………………………………Janis Livingston

Sponsoring Organizations

**South Carolina**

▲ South Carolina Society for Clinical Laboratory Science
▲ South Carolina State Society of American Medical Technologists

**North Carolina**

▲ North Carolina Society for Clinical Laboratory Science
▲ North Carolina State Society of American Medical Technologists
General Information and Highlights

Keynote Address
Iwana Ridgill is a hilarious motivational speaker. She has a Bachelors in Arts in English from USC. She is an adjunct instructor at Midlands Technical College. Her wit and humor will keep you laughing for the full hour.

Endnote Address
Dr. Chris Evans from SCDHEC will be presenting his talk on Medical Entomology. He will be discussing how medical entomology investigates the relationship of insects and other arthropods to the health of humans, domestic animals, and wildlife. Insects, arachnids, and other arthropods that cause pathological conditions in man as direct causal agents themselves, as intermediate hosts, or as vectors of disease.

Registration
You may go to http://scscls.les3z.org/current_CCC_stuff/ccc.htm To register and pay online.

Registration hours will be:
Wednesday 11:30 am - 6:00 pm
Thursday 7:30 am - 3:00 pm
Friday 7:30 am - 10:00 am

Society Meetings
Board Meetings are scheduled on Wednesday from 10:00-Noon. Annual Business Meetings are scheduled on Thursday from 5:00-6:30 pm.

Past President’s Luncheon
By Invitation Only.

To honor Past Presidents of SCSCLS, SCSSAMT, NCSCLS, and NCSSAMT.

RSVP required.
Invitations will be mailed in February by the sponsoring vendor INFOLAB, Inc.

Student Activities
The NCSCLS and SCSCLS student forum will hold a business meeting during this time period.

Continuing Education Credits
All sessions have been submitted for PACE and AMTIE approval. The South Carolina Society for Clinical Laboratory Science is an approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E. program.

In order to get P.A.C.E. credit, you will be given a code at the end of the session. This session code can be entered into CE organizer on the ASCLS website. An instruction sheet will be distributed at the conference.

In order to obtain AMTIE credit, you will need to sign the AMTIE attendance sheet at each session.

The program objectives are as follows:
• To offer up-to-date sessions on topics in clinical laboratory science
• To provide a forum for interaction with other clinical laboratory personnel
• To improve professionalism and motivation within clinical laboratory science.

Vendor Appreciation Reception
This event on Wednesday from 6:00-8:00 pm is held to honor the vendors exhibiting at our meeting. Meet with your friends and enjoy wine, cheese and other appetizers while you explore the vendor exhibits. Make sure you let the vendors know how much you appreciate their support for CCC.

Awards Ceremony
Individual Societies will present awards from 1:00-1:30 pm on Wednesday, March 30. Societies wishing to present awards must contact Michelle Mantooth by email at Michelle.Mantooth@tridenttech.edu
### Wednesday March 23, 2011

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00-noon</td>
<td>Society Board Meetings</td>
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<tr>
<td>1:00-1:30</td>
<td>Opening Remarks and Awards</td>
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<tr>
<td>1:30-2:30</td>
<td>#7: Iwona Ridgill - An Inspirational Note</td>
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<tr>
<td>2:30-3:00</td>
<td>Break</td>
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<tr>
<td>3:00-4:30</td>
<td><strong>Hematology/Coagulation</strong></td>
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<tr>
<td>#2</td>
<td>Jerri Walters</td>
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<td>#3</td>
<td>Jennifer Meredith</td>
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<td>#4</td>
<td>Yusheng Zhu</td>
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<td>#5</td>
<td>Susan Sosebee</td>
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<td>#6</td>
<td>Susan Helms</td>
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<tr>
<td><strong>Microbiology</strong></td>
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<tr>
<td>Fearless Fluid</td>
<td>Hot Topics in Public Health Microbiology</td>
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<td>SYSMEX</td>
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<td><strong>Chemistry/Immunology</strong></td>
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<td><strong>Blood Bank</strong></td>
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<td><strong>Management</strong></td>
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<td><strong>Education</strong></td>
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<tr>
<td>4:30-5:30</td>
<td>Scientific Assembly Meetings</td>
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<tr>
<td>5:00-6:00</td>
<td>Vendor Appreciation Reception in Exhibit Hall</td>
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### Thursday March 24, 2011

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30-10:00</td>
<td><strong>Hematology/Coagulation</strong></td>
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<tr>
<td>#7</td>
<td>Kathleen Winner</td>
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<td>#8</td>
<td>Katherine Soreng</td>
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<td>#9</td>
<td>Joanna Baker-Hornick and Fred Hornick</td>
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<td>#10</td>
<td>Greg Harris</td>
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<td>#11</td>
<td>Helen Maxwell</td>
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<td>#12</td>
<td>Deb Brock</td>
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<tr>
<td><strong>Microbiology</strong></td>
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<td>Thrombosis and thrombophilia</td>
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<td>Beckman Coulter, Inc.</td>
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<td><strong>Chemistry/Immunology</strong></td>
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<td>SEPSIS</td>
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<td><strong>Blood Bank</strong></td>
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<td><strong>Management</strong></td>
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<td><strong>Education</strong></td>
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<tr>
<td>10:00-10:30</td>
<td>Break in Exhibit Hall</td>
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<tr>
<td>10:30-12:00</td>
<td>#13 Chris Damon, JD, &quot;2011 the Year the First Boomers Turn 65: Implications for Our Health Care System&quot; AMT</td>
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<tr>
<td>12:00-1:30</td>
<td>Lunch in exhibit hall, Past Presidents Luncheon (invitation only)</td>
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<td>1:30-3:00</td>
<td>Visit the Exhibits</td>
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<td>3:00-4:30</td>
<td><strong>Hematology/Coagulation</strong></td>
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<td>#14</td>
<td>Deb Brock</td>
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<td>#15</td>
<td>Mike Schmidt</td>
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<td>#16</td>
<td>Katherine Soreng</td>
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<td>#17</td>
<td>Nancy Mann</td>
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<td>#18</td>
<td>Roberta Bartholdi</td>
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<td>#19</td>
<td>Deb Brock</td>
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<td><strong>Microbiology</strong></td>
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<td>Mind your Ms and Ps: A Basic Review of Anemia</td>
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<td>5:00-6:30</td>
<td>Society Business Meetings</td>
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### Friday March 25, 2011

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<tr>
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<tbody>
<tr>
<td>7:30</td>
<td>Education Scientific Assembly Breakfast</td>
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<tr>
<td>8:30-10:00</td>
<td><strong>Hematology/Coagulation</strong></td>
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<tr>
<td>#20</td>
<td>Lisa Anderson</td>
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<tr>
<td>#21</td>
<td>Judy Venturella</td>
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<tr>
<td>#22</td>
<td>Kara Johnson</td>
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<tr>
<td>#23</td>
<td>Tiffany Walters</td>
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<td><strong>Microbiology</strong></td>
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<td>Verification and Validation in Clinical Microbiology</td>
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<td>#24 Dr. Chris Evans - Medical Entomology: Arthropod Pests of Public Health Importance SC DHEC</td>
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10:00 am—12:00 Society Board Meetings

1:00-1:30 pm Opening Remarks and Awards

1:00 - 2:30 pm General Session

Welcome & Keynote Address
1. An Inspirational Note
Iwana Ridgill
Level of Instruction: Basic
Contact Hours: 1.0

**2:30 - 3:00 pm Break - Exhibit Hall**

3:00 - 4:30 pm Break-out Sessions

2. Fearless Fluids
Jeri Walters SH(ASCP)
Technical Supervisor, Esoteric Testing, ACL Laboratories
Level of Instruction: Intermediate
Contact Hours: 1.5
The lecture will provide a logical approach to the often feared hematologic examination of CSF, serous, and synovial fluids. The presentation will include a brief introduction into the pathophysiology of these fluids — why they are there and why we test them. A primary emphasis will be cell identification in the various fluids and differentiation of benign and malignant cells. Cell counting techniques, both manual and automated will be discussed.

3. Hot Topics in Public Health Microbiology
Jennifer F. Meredith, Ph.D. HCLD (ABB)
South Carolina Department of Health and Environmental Control
Level of Instruction: Intermediate
Contact Hours: 1.5
In a world of global travel and changing climates, public health is constantly adapting to address emerging and re-emerging infectious disease threats. This session will cover those infectious agents that are currently the biggest public health concerns.

4. Determination of 25-hydroxyvitamin D in Serum and its Clinical Applications
Yusheng Zhu, PhD, DABCC, FACB
Medical University of South Carolina
Level of Instruction: Intermediate
Contact Hours: 1.5
This session will review the biosynthesis and metabolism of vitamin D and discuss the current methodology of 25-hydroxyvitamin D testing. Also, the clinical applications of 25-hydroxyvitamin D testing will be addressed.

5. Methods for Antibody Screening and Identification
Susan Sosebee, BB(ASCP), SBB
Anderson Medical
Level of Instruction: Intermediate
Contact Hours: 1.5
With new technology and automation in Blood Bank, participants will learn to identify acceptable methods and reagents for antibody screening and identification. They will learn the advantages and disadvantages for screening tests and realize that no method is 100% accurate for detecting all clinically significant antibodies.

6. Boosting Morale During the Current Economic State
Susan Helms, MA, MHA, MT(ASCP)SLS
Level of Instruction: Intermediate
Contact Hours: 1.5

4:30-5:30 pm Scientific Assembly Meetings

6:00– 8:00 pm Vendor Appreciation Reception
Spend the last couple of hours of the day visiting with the Vendors and show your appreciation while enjoying some light refreshments.
8:30 - 10:00 am  

### Break-out Sessions

#### 7. Thrombosis and Thrombophilia

*Kathleen Winner MS, MT(ASCP)SH*  
*Beckman Coulter*

**Level of Instruction:** Intermediate  
**Contact Hours:** 1.5

This course will explore the prevalence of thrombotic disease and the serious implications this has. Identification of risk factors, both inherited and acquired, will be discussed, as will the laboratory tests that can be performed for diagnosis.

#### 8. Biomarkers of Sepsis: Sounding the Alarm

*Katherine M. Soreng, Ph.D.*

**Level of Instruction:** Intermediate  
**Contact Hours:** 1.5

Sepsis is a complex clinical syndrome that is a leading cause of death worldwide. Onset can be rapid, with mortality occurring in as little as 24-48 hours. Pathogenesis is associated with the “cytokine storm”, an uncontrolled response of the immune system, which can lead to hemodynamic instability and organ failure. Clinical symptoms alone are often insufficient for an early and accurate diagnosis, reducing an already limited window for effective treatment. Emerging biomarkers of sepsis, such as PCT, may allow a more rapid and accurate diagnosis, resulting in earlier intervention and improved patient outcomes.

#### 9. Foundation for Automation, QA, QI and LIS

*Joanna Baker Hornick and Fred Hornick*

**Level of Instruction:** Intermediate  
**Contact Hours:** 1.5

#### 10. Do I Really Need Automation in Blood Bank?

*Greg Harris, MT(ASCP)*  
*Lexington Medical Center*

**Level of Instruction:** Basic  
**Contact Hours:** 1.5

Upon completion of this session, participants will have a better understanding of why automation in blood bank will not only provide for better patient care, but also decrease reagent costs, and improve laboratory efficiency, productivity and quality for laboratories of any size.

#### 11. Updates in Phlebotomy

*Helen Maxwell, MLT(ASCP)*  
*Executive Director, The American Society of Phlebotomy Technicians*  
*Instructor, The Academy of Health Sciences*

**Level of Instruction:** Intermediate  
**Contact Hours:** 1.5

During the program entitled, *Updates in Phlebotomy*, participants will discover how CLSI Standards have evolved in Venipuncture, Skin Puncture, and the Transportation of Specimens. They will also review OSHA standards and new regulations on Personal Protective Equipment (PPE). Lastly, participants will find out how the Order of Draw has transformed in the laboratory as well.

#### 12. The Power of a Pause

*Deborah Brock, MHS, MT (ASCP) SH*  
*Tri-County Technical College*

**Level of Instruction:** Basic  
**Contact Hours:** 1.5

By using a few pauses during a lecture (about every 13 to 18 minutes), students are given an opportunity to clarify, assimilate, and retain the information presented during the prior mini-lecture. This practice helps to keep them better engaged as well! Come to this session prepared to learn and/or share “pause” activities that you can use in the classroom with your students.

**10:00 - 10:30 am Break - Exhibit Hall**
10:30 am - 12:00 pm

13. “2011 The Year the First Boomers Turn 65: Implications for Our Health Care System”
Chris Damon, JD
Level of Instruction: Basic
The “Baby Boom” generation constitutes a significant portion of the US population. When the last of the “Boomers” reach retirement age, almost 20% of the population will be 65 or older compared to less than 13 percent today. How will this impact the US healthcare system?

**12:00 - 1:30 pm Lunch**

**1:30 - 3:00 pm - Dedicated Exhibit Hours**

3:00 - 4:30 pm Breakout Sessions

14. Mind your Ms and Ps: A Basic Review of Anemia
Deborah Brock, MHS, MT (ASCP) SH
Level of Instruction: Basic
Contact Hours: 1.5
This session is intended to be a basic review of Anemias. The format is designed to assist new students of Hematology and/or practicing laboratory professionals who have not studied Hematology for awhile in differentiating the various types of Anemias. RBC shapes will be presented and the two general classifications of Anemias (Morphologic and Pathophysiologic) will be discussed.

15. Health Care Infections, A Winnable Battle Through Risk Assessment and Mitigation Through Antimicrobial Copper Touch Surfaces
Michael G. Schmidt
Professor and Vice Chairman, Dept. Microbiology and Immunology, MUSC
Level of Instruction: Intermediate
Contact Hours: 1.5
The 4th leading cause of death in the United States, behind heart disease, cancer and stroke, is Hospital Acquired Infections (HAI) where approximately five percent of the patients admitted to US hospitals will acquire an infection. Very little is known of what fraction of these infections result from a microbial contribution obtained from objects present in the built environment. Data will be presented from a comprehensive investigation of four health care centers where an assessment of the role that microbes from the built environment play in the acquisition of a HAI. Additionally, data from an interventional study evaluating the antimicrobial effects of metallic copper for its ability to reduce colonization rates and infection will be presented in order to assess whether or not metallic copper objects may serve to mitigate the levels of HAI caused from the microbes found in the built environment.

16. Prenatal testing for infectious disease: TORCH and beyond
Katherine M. Soreng, Ph.D.
Level of Instruction: Intermediate
Contact Hours: 1.5
Prenatal testing for infectious disease commonly involves screening the mother for infections associated with failed fetal development or congenital abnormalities that may manifest at birth or later in life. Screening often includes testing for the major components of the TORCH complex, along with organisms such as hepatitis B and HIV. Timing of the infection is critical as fetal damage often depends on the gestational age at which infection takes place. Maternal serologic tests can often identify infections that pose a risk to the fetus. Effective treatment can both reduce risk of transmission to the newborn as well as improve management of the mother’s health.

17. Where have we come – some 35 years later
Nancy Mann, MT(ASCP), SBB
Level of Instruction: Intermediate
Contact Hours: 1.5

18. Site Inspections: A Survival Kit
Roberta Bartholdi, MS, BSMT(ASCP) CLS
Director, QA and Laboratory Practices Consultant, SCDHEC
Level of Instruction: Intermediate
Contact Hours: 1.5
This session will discuss preparing for a CLIA or CAP inspection from a quality assurance point of view. It will give you the tools, handouts and QZ processes to meet standards for site inspections.

19. Contact Hours: 1.5
Friday, March 25, 2011

8:30 - 10:00 am

**Break-out Sessions**

**20. Molecular Detection of Factor V Leiden and Prothrombin 20210 Mutation**
Lisa M. Anderson, MMDS, SH(ASCP)MB
Saint Louis University

Level of Instruction: Intermediate  
Contact Hours: 1.5

Factor V Leiden and Prothrombin 20210 Mutation are two inherited coagulation disorders that can have an impact of a patient’s day-to-day life. Although this presentation will cover cause and clinical manifestations of these disorders, the primary focus will be the molecular methods of detection used currently in the clinical laboratory.

**21. Verification and Validation in Clinical Microbiology**
Judy Venturella MS, MT(ASCP) SC, SM/RM (NRCM)
Lexington Medical Center

Level of Instruction: Intermediate  
Contact Hours: 1.5

Available verification and validation information commonly applies to analysis in Hematology or in the Chemistry laboratory. This session will provide guidance on how to apply verification and validation in the Clinical Microbiology laboratory, where qualitative results and subjective interpretations are more common, with a focus on Microbiology instrumentation.

**22. Current Status and Future Hope for the Diagnosis of Ovarian Cancer**
Kara Johnson, Ph.D

Level of Instruction: Intermediate  
Contact Hours: 1.5

Despite advances in cytoreductive surgery and chemotherapy, ovarian cancer remains one of the most deadly gynecological cancers. The biggest problem in diagnosing ovarian cancer is that the symptoms are non-specific, leading to late-stage diagnosis with low survival rates. There is a broad need for improved diagnostics for early and accurate detection of ovarian cancer.

Tiffany Walters MT(ASCP)SBB.
Immunohematology Reference Laboratory Manger for the American Red Cross.

Level of Instruction: Intermediate  
Contact Hours: 1.5

This session will focus on the investigation and resolution of a complex serological case study. The case study will discuss multiple serological procedures for antibody resolution, to include phenotyping, allogeneic adsorptions, ficin treatment, dithiothreitol treatment, and autologous neocyte separation. The session will also discuss the importance of the American Rare Donor program and effective donor recruitment.

**10:00 - 10:30 am Break - Exhibit Hall**

10:30 am - 12:00 pm

**General Session**

**FINAL KEYNOTE ADDRESS**

**24. Medical Entomology: Arthropod Pests of Public Health Importance**
Chris Evans, MS, PhD
South Carolina Department of Health & Environmental Control (SCDHEC)

Level of Instruction: Basic  
Contact Hours: 1.5

Medical entomology investigates the relationship of insects and other arthropods to the health of humans, domestic animals, and wildlife. Insects, arachnids, and other arthropods that cause pathological conditions in man as direct causal agents themselves, as intermediate hosts, or as vectors of disease will be discussed.
The Embassy Suites North Charleston is about a 2 mile straight drive from the airport. The Organization as described in the following motel information is CCC or Carolinas Clinical Connection. Make your reservations early; we have a limited room block for Friday night, and do not have the run of the house (in other words we are not a priority for their reservation booking). Likewise, the rates quoted below are not guaranteed for Saturday night (double rate goes up to $159 plus applicable taxes), and may not apply once we have met the room block for Friday night. Please book at the Embassy Suites as your first choice, and choose one of the many other hotels in the immediate area only if Embassy Suites can’t take care of your stay request.

**ROOM COST: Includes Managers Reception and Breakfast Bar**

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<tr>
<th>Room</th>
<th>Single Rate</th>
<th>Double Rate</th>
<th>Triple Rate</th>
<th>Quad Rate</th>
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<tbody>
<tr>
<td>Run of House</td>
<td>$129</td>
<td>$129</td>
<td>$139</td>
<td>$149</td>
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Hotel room rates are quoted per room per night and are subject to applicable state and local taxes at time of check in. Taxes are currently 12.5% plus applicable charges.

**Reservations will be made on or before February 28, 2011 12:00 Midnight (the “Cut-Off Date”) to receive the negotiated group rate.**

**Group Name is: Carolina Clinical Connection**  
**Group Code: CCC**

**Entertainment Options for Early Arrivers**

There are so many fun things taking place during this time of year – the Wildlife Expo, numerous arts and crafts festivals, Spoleto Festival, Piccolo Spoleto, the Cooper River Bridge Run, and so on. Not to forget to mention, the Embassy Suites is connected to the North Charleston Coliseum and Performing Arts Center, and I’ll be able to send a calendar of upcoming events as it gets closer to meeting time.

You can literally walk about a block and be shopping to your heart’s content in the Tanger Outlet Malls.

Embassy Suites offers a van service for $5/person for a full van to drive you downtown; my advice is to have them drop you off at the visitors center and purchase a dash pass to take you wherever you may want to go downtown or just walk (the temperatures will be very moderate and the humidity will not have increased too much at this point in the year). Charleston will be in full bloom and absolutely gorgeous, so a walk and a digital camera would make for a great afternoon.
Speaker Contact Information

Lisa M. Anderson, MMDS, BS CLS
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Ridge Diagnostics, Inc
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zhuyu@musc.edu
REGISTRATION FORM  
Carolina Clinical Connection  
March 23-25, 2011  
Embassy Suites  
North Charleston, SC

Name: ____________________________________________________________

Address:  __________________________________________________________

City, State, Zip _______________________________________________________

Phone: _________________________ (Work) Phone: ________________ (Home)

Employer: ____________________________________________________________________

Email Address: __________________________________________________________________

Please check all current memberships that apply to you, and include membership number:

- SCSCLS _______  o SCSSAMT _______ o NCSCLS _______  oAACC _______
- NCSSAMT _______ o NCABB _________ o CLMA: _________  oAGT _______

Please circle the session #'s you plan to attend

<table>
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<th>Wednesday</th>
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Full Conference registration includes entrance to all scientific sessions, exhibits, reception on Wednesday, and lunch on Thursday.

<table>
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<tr>
<th>Circle all fees that apply:</th>
<th>Member</th>
<th>Non-member</th>
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<tbody>
<tr>
<td>Full Conference (includes lunch)</td>
<td>150.00</td>
<td>180.00</td>
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<tr>
<td>Full Conference- student (includes lunch)</td>
<td>50.00</td>
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<tr>
<td>Full Conference- student (no lunch)</td>
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<tr>
<td>Wednesday or Friday only Pass (no Lunch)</td>
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<tr>
<td>Thursday only pass (includes lunch)</td>
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<td>One day pass- student (no lunch)</td>
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<tr>
<td>Additional Lunch Tickets</td>
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<td>Institutional Pass (no lunch) - One day only 2 persons at a time</td>
<td>$200.00</td>
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<tr>
<td>Total Registration Fee:</td>
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MAKE CHECK or MONEY ORDER PAYABLE TO CCC 2011  
PAYMENT MUST ACCOMPANY REGISTRATION FORM.

Sorry, credit cards are not accepted. Refund requests must be made in writing and postmarked by

Refund Policy: No refunds will be issued unless notified two business days in advance of program.  
A $15.00 administrative fee will be deducted from the refund. Substitutes are encouraged.

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PO Box 2283  
Lexington, S.C. 29071