AMSECT U
ONE YEAR LATER
SHARE THE GROWTH

Quality and Outcomes Meeting, Baltimore, MD
Dawn Oles, MHPE, CCP, LP   October 2014
Have you logged in to checkout AmSECT U?

1. Yes
2. No
Have you taken a class on AmSECT U?

1. Yes
2. No
Disclosures

I am an employee of AmSECT.

I have a passion for educating our community.

THERE ARE MANY THINGS IN LIFE THAT WILL CATCH YOUR EYE, BUT ONLY A FEW WILL CATCH YOUR HEART...PURSUE THOSE.
A Very Special Thank you!

Introduction to Perfusion Technology

SORIN GROUP
AT THE HEART OF MEDICAL TECHNOLOGY
AmSECT’s Mission

The mission of AmSECT is to foster improved patient care and safety by providing for the continuing education and professional needs of the extracorporeal circulation technology community.
Did you know?

What was discovered here in Baltimore?
Quality and Outcomes Conference
Incorporating Best Practices in Perfusion and New Advances in Blood Management
Sheraton Inner Harbor - Baltimore, Maryland
October 1-4, 2014
Baltimore
www.amsect.org
Launch Presentation

Fall 2013
AmSECT U
An Opportunity to Make a Difference

College of Education
Seven Colleges + 2

Blood Management
Education
Leadership
Life Sciences
Mechanical Circulatory Assist
Perioperative Services
Research Academy
Who is AmSECT U for?

Post-graduate learners
Chief Perfusionists
Perfusion Students
Manufacturers
Goals

- Create a collaborative learning environment to increase engagement in the Perfusion community.

- Develop an online learning path to individualize the learning experience to focus on assignments, certifications, and other clinical knowledge based training.

- Centralize the learning environment to ensure consistency in objectives, evaluation and availability.

- Provide tracking, reporting and tools for enhanced performance.

- Increase membership.
Learning through the years

WHAT do we need to do as an organization to get here?

Acquisition of Knowledge

Depreciation of Knowledge (half life of 5 years)

Maintenance and even modest accumulation of knowledge through professional practice and CE

(adapted from Knight 1997)
How did we learn?

Studies show that over a period of three days, learning retention is
10% of what we read
20% of what we hear
30% of what we read and hear
50% of what we hear and see
70% of what we say
90% of what we do

Source: National Training Laboratories, Bethel, Maine
How do adults learn?

- Adults decide for themselves what is important to be learned.
- We don’t like to admit what we don’t know.
- We need to validate the information based on our needs and beliefs.
- Expect what we are learning to be immediately useful.
- Have substantial experience upon which to draw or may have fixed viewpoints.
- Significant ability to serve as a knowledgeable resource to the trainer and fellow learners.
“Knowledge will bring you the opportunity to make a difference.”

Claire Fagen

Introduced the concept of AmSECT University Best Practice Meeting San Antonio, TX October 2013
The door to your classroom is open

- January: 7
- July: 25
- September: 38
- Goal to post 50 by year end.

- Materials for 55 additional classes received.
Where are we today?

AmSECT U

System
Benefits:

- Unlimited access to large variety of courses, content and modules
- Increased motivation for learning
- Flexibility to the learner: available 24/7
- Student centered approach
- Ability to participate in on-line educational discussion on that topic
- Socialization with colleagues enrolled in same course
- Earn CEU’s
Introduction to Flipped Classroom
Faculty: Jeff Riley
Faculty: Bruce Searles

The Flipped Classroom concept allows the delegate to review scientific content prior to the meeting encounter which allows more interaction with colleagues during the meeting. Complete this introductory course before you move on to do the pre-work for the meeting Hands-On Workshop Sessions 3 and 8.

Red Cell Preservation
Faculty: Ed Darling
Faculty: Mark Lucas
Faculty: Jane Ottens
Faculty: Jeff Riley
Faculty: Bruce Searles

Take this course to prepare for the simulation sessions dealing with RBC preservation during cardiac surgery. Completing this course gives the meeting delegate a head start on the scientific material that will be employed during the simulations.

Coagulation Metrics and Blood Product Recommendations
Faculty: Jeff Riley
Faculty: Bruce Searles

Complete this course to gain the basic information necessary to increase your success in the clinical problem-based learning scenarios. The scenarios in this Hands-On Workshop Stream deal with coagulation monitoring and blood product administration therapies.

Communication - Culture of Safety
Faculty: Dawn Olas
Faculty: Kenneth Shann

AmSECT working with SCA, STS and AORN members created videos demonstrating poor and better examples of team work in the cardiac operating room focusing on communication. Culture of safety concepts that deal with safe communication within cardiac teams is the focus. Do the pre-work, watch the videos and come to the meeting reading to discuss the example videos.
Communication - Culture of Safety
You have assignments that need attention

Continuous Renal Replacement Therapy

Introduction to ECMO
There are new forum posts
You have SCORM packages that need attention

Principles of Veno-Arterial ECMO
You have SCORM packages that need attention

Principles of Veno-Veno ECMO
My Reports

Scheduled Reports

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<th>Options</th>
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The first railroad station was built in Baltimore in 1830.
Monthly Enrollments 2014

Total First Time Enrollments 325
Membership

- American Perfusionists: 3800
- AmSECT Membership: 2140
- Registered non-members: 46
- Possible Opportunity: 2186
- New Enrollees: 325 (15%)
Monthly Class Enrollment

Understanding Coagulation Tests
Writing a Business Plan For an ECLS Program
Ultrafiltration in Cardiopulmonary Bypass
T-Tests and their Non-Parametric Equivalents

Think Safety; Practice Safety
TandemHeart

Spectrum M: Non-invasive Blood Gas Management
Seminal Events
Red Cell Preservation
Question Data Bank

Principles of Veno-Arterial ECMO
Perfusion Science Review Class
Mass General Test Class
Introduction to Transfusion Medicine
Introduction to Scientific Writing
Introduction to Interpreting TEG's
Introduction to Flipped Classroom
Introduction to ECMO

Intimal Hyperplasia: Immune Mechanisms in Vascular Remodeling
Hypoplastic Left Heart Syndrome: A Hybrid Approach
History of AmSIC
HIPEC: Hyperthermic Intraperitoneal Chemotherapy
Endocrine, Metabolic and Splanchnic Changes on CPB
Developments in the Surgical Management of Hypertrophic Cardiomyopathy

Descriptive Statistics
Creating a Perfusion Department Dashboard
Continuous Renal Replacement Therapy
Conducting a Program Evaluation
Communication - Culture of Safety
Cold Agglutinins and Cardiac Surgery
Coagulation Metrics and Blood Product Recommendations
Clinical Procedure Guidelines for Perfusionists
CARTIOHELP 1
ANOVA: Analysis of Variance (F-Test)
Most popular classes

- 252 (August) people have logged into a class
- Understanding Coagulation Tests
- Continuous Renal Replacement
- Introduction to ECMO
- Introduction to Interpreting TEG’s
- Endocrine, Metabolic, and Splanchnic Changes on CPB
- Principles of VA ECMO
- CARDIOHELP I
- Think Practice, Think Safety
Did you know?

The first umbrella factory in America was established in Baltimore in 1828?

"Born in Baltimore, raised around the world"
Our “Born in Baltimore”

- Delegates instructed to prepare for meeting.
- Get ready for the discussion
- Follow up through AmSECT U
- Did it work?
The first post office system in the US was inaugurated in Baltimore in 1774.
Institution Specific Sites

Mass General
Mayo Clinic
Maine Medical
Program Directors
Institution Specific Learning

- Build your own department-specific education program
  - Secure site only your users have access
  - Managerial oversight of employee activity
  - Compliance reporting for employee activity
  - Messages boards and broadcasts emails for department staff
  - Comprehension testing or newly revised center-specific protocols

Available Spring 2014
Compliance Reporting

- Training record management and reporting, including:
  - Certificate of completion
  - Compliance reporting
  - Earned CEU’s
  - Electronic auditing and uploading of all AmSECT U didactic activity
The first professional sports organization in the United States, The Maryland Jockey Club, was formed in Baltimore in 1743.
College of Leadership

Courses in the College of Leadership help develop effective perfusionist leadership capabilities needed in today's dynamically changing world. The College offers a diverse assortment of classes that include a blog for AmSECT Standards and Guidelines, Audit Preparation, Procedure Writing, Business Administration, Ethics, Management, and Public Relations.

AmSECT Standards and Guidelines (1)
Program Directors Question Bank

- 1000’s of referenced questions
- Indexed by AC-PE Curriculum
- All questions are referenced
- Volunteers building
- Purpose to track students through training
- Possibly compare institutions
The Star Spangled Banner was written by lawyer/poet Francis Scott Key.

Francis Scott Key was inspired to write it during the British attack on Fort McHenry on September 13, 1814 and the courageous defense made by American forces.

In 1931, the US Congress designated the “Star Spangled Banner” to be the National Anthem of the United States.
Badge-Based Professional Development: Purposes & Possibilities

Complete a Learning Plan
Complete 10 Classes
Complete 25 Classes

http://tamritz.org/badge-based-professional-development-purposes-possibilities/
The first bloodshed of the Civil War, a clash between pro-South civilians and Union troops in Baltimore, happened in 1861.
American Board of Cardiovascular Perfusion

- Applied to Board 7/2014
- Category I CEU’s
- Committee Reviewing
- Negotiations in Process
- Hopefully we will have announcement by the end of the year.
The first telegraph line in the world was established between Washington, D.C. and Baltimore in 1844.
## Communication for Generations

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<th>Gen X (30-45)</th>
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<td>10</td>
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<td>12</td>
<td>5</td>
<td>--</td>
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</table>

*Note: Median number of texts based on those who texted in past 24 hours.*
Communication Tools

Team Calendars
- Meetings
- Vacations

Discussion Boards
- Notes
- Surgeon Preferences
Baltimore was the first United States city to illuminate its streets using hydrogen gas in 1816. Electricity replaced these lamps a considerable time ago.
Curious?

What are we working on?
Learning Plans

ECLS
Leadership
Blood Management

Our Goal:
Increase your knowledge
ECLS Learning Plan (18 courses)

- Managers/Learners can build learning plans
  - Pediatric Physiology (Life Sciences)
  - Extracorporeal membrane oxygenators and cannulation
  - Equipment and devices (Mechanical Circ Support)
    - Pumps, in line analyzers
  - Mechanical Complications of ECMO
  - Management of anticoagulation
    - Heparin, Argatroban (Life Sciences)
  - Patient management
    - CRRT (Perioperative)
    - Plasmapheresis
    - Simulation Exercises
    - Transport Guidelines (Perioperative)
ECLS Super Store

- Roller Pumps
- Centrifugal Pumps
- Oxygenators
- Tubing/circuits
- Cannula
- Heat Exchangers
- Baffles
- Safety Devices
- Blood Gas / ACT Equipment
- Cerebral Oximetry Monitors
- Miscellaneous

Start Here

Customer Service

Checkouts

Entrance/Exit

Resources & References
A Review of Journal Clubs in Postgraduate Medical Education

Patrick C Alguire, MD

OBJECTIVE

To review the goals, organization, and teaching methods of journal clubs, summarize elements of successful clubs, and evaluate their effect on reading habits, and effectiveness in meeting teaching goals. Examples of clubs that utilize principles of adult learning are reviewed.

CONCLUSIONS

Journal club formats are educationally diverse, can incorporate adult learning principles, and are an adaptable format for teaching the "new basic sciences."
Other fun Learning Activities

- Heart Lung Machine
- Simulation
- Gamification
Baltimore doors of opportunity

- Dean
- Faculty
- Editors
- Course Builders
- Social Media
Challenges

- Passwords
- Firewalls
- Video Stream

Feedback welcomed and appreciated
How many of you have asked?

What does AmSECT do for me?

Why do I need to join a professional organization?

Did you know that AmSECT has not raised membership fees since 1990?

It is my hope that today's presentation WILL give you the reason to join.
Highest scoring single team score in a post season game.
Thank you, Thank you, Thank you

Dave Fitzgerald, Dean Leadership
Jeff Riley, President
Meyy Aranchulam, Exec Committee
Susan Englert, Dean of Perioperative Services
Ashley Hodge, Dean Life Sciences
Mark Kuruz, Dean of Research Academy
Greg Mork, Dean Education
Jim Reagor, Dean of Mechanical Circ Support
How likely are you to take a class on AmSect U?

1. Not likely
2. Probably, 25% likely
3. Most likely 50%
4. Absolutely 100%
Will you share what you have learned about AmSECT U with your colleagues?

1. Yes
2. No
Once we have Category I approval will you be more likely to take a class on AmSECT U?

1. Yes
2. Maybe
3. No
Are you willing to help as a volunteer to help grow the course offerings?

1. Yes
2. No
Did you learn anything about our host city?

1. Yes
2. No
3. Didn’t care
Imagine the possibilities......

Comments?

Suggestions?

Please email Dean@Amsectu.org