

# Continuing Education Program CMBEC28

## 1. Preparing for BMET Certification Examination

Date: September 9, 2004  
Duration: Full day  
Cost: \$350

Description:

Biomedical Technicians and Technologists attending this course will review the materials necessary for the successful completion of the BMET certification examination. The format of the exam will be discussed, as well as general study tips and techniques that will be helpful in preparing for the exam. Each participant will receive a study guide, certification information package, and a booklet containing all of the course materials.

Instructor: Larry Boyce, CBET(c), CET

Bio of the Instructor:

Larry has worked in almost every aspect of the Biomedical Engineering field: in-house service, shared service, private sector service, training, and education. In these areas he has served in a variety of capacities from BMET to manager. He likes to refer to his background as "colourful". Until recently he was Professor and Coordinator of the Biomedical Electronics program at Fanshawe College, a position that he held for 17 years. Currently he is the manager of Trudell Technical Services, a division of Trudell Medical Marketing Ltd.

## 2. Building a Bridge to the Future and Strategic Technology Planning

Date: September 9, 2004  
Duration: 1/2 day (Morning)  
Cost: \$300

Description:

(a) *Emerging health technologies are headed our way*

- A preview of what new clinical technologies will have an impact in the next few years based on ECRI's unique take on technology;
- Examine some of the challenges of forecasting and practical action steps for technology horizon scanning.

(b) *Strategic Technology Planning: Clinical Technology Strategy Made Simple*

- Learn about the effective strategies that can demystify the technology decision-making process and provide a better clinical and economic return on an institution's healthcare technology investment;
- Discover what the essentials are for developing a clinical technology assessment committee using real-world examples and case studies;

- Learn how to undertake strategic technology planning as a way to better manage and prioritize technology decisions.

Instructor: Anthony Montagnolo  
ECRI

Instructor's Bio:

Mr. Montagnolo is the Chief Operating Officer and Executive Vice President for ECRI, an international health services research and technology assessment organization. ECRI provides wide-ranging client base critical information and recommendations for the safe and cost effective use of healthcare technology. Through its programs and services, healthcare institutions worldwide have access to consultative support, publications, and on-line web-based information services providing critical decision-makers support in their efforts to plan for, acquire and manage healthcare technology.

### **3. Medical Technology Meets Patient Safety: ECRI's Perspectives on Medical Device Safety**

Date: September 9, 2004  
Duration: 1/2 day (Afternoon)  
Cost: \$300

Description:

For over 30 years, ECRI has been a leader in evaluating the safety of medical technology and has investigated hundreds of medical device accidents. Through those years, we have learned not only what can go wrong, but also often what does go wrong with medical technology. With the pragmatic experience of dealing with device safety every day, we have also gained tremendous insight into minimizing the occurrence and impact of medical technology hazards and accidents. In this session, we will offer our guidance on what medical device hazards should be addressed as a high priority and why. We will discuss important safety considerations to be understood when acquiring any technology as well. In addition, we will review an ECRI checklist for safety, and we will review our recommended process for implementing an effective hazard and recall management system.

Instructor: Anthony Montagnolo, M.S.,  
Executive Vice President and Chief Operating Officer, ECRI

Instructor's Bio: see #2 above.

### **4. The Heart and Brains of Video Conferencing**

Date: September 10, 2004  
Duration: half day (Morning)  
Cost: \$300

Description:

Video conferencing is becoming a much more feasible and effective means of communication between people separated by long distances. This half-day workshop will provide an introduction to video conferencing technologies and how people use them in the medical field. In this workshop, we will focus on:

- (a) underlying hardware and software components and standards for video
- (b) how the components work and can be configured;
- (c) strengths and weaknesses of various video conferencing configurations with an emphasis on the health systems and accessibility; and
- (d) common uses - live demonstrations of various video conferencing configurations will be provided.

Instructor: Bertha Konstantinidis

Bio of instructor:

Bertha Konstantinidis, BSc (Ryerson), is a software developer who works at the Centre for Learning Technology at Ryerson University. She has been working on research and development on various video conferencing systems and technology over the last four years. She is the primary developer for the high school version of PEBBLES, a pioneering system that combines video conferencing technologies with robotics technology to facilitate remote education.

## 5. IT Baseline Knowledge for the Clinical Engineer

Date: September 10, 2004

Duration: half day

Cost: \$300

Description:

Join Biomedical Information & Technology columnist and IT pundit, Jeff Kabachinski, for an informative discussion about the flood of IT developments in health care. Jeff will provide tips on how to stay on top of these changes, and perspectives on IT issues that range from network routing techniques to simply understanding the latest acronyms.

Instructor: Jeff Kabachinski,  
Technical Training Manager, GE Healthcare  
Multi-Vendor Support Operations

Bio of instructor:

Jeff Kabachinski of GE Healthcare Multi-Vendor Services Technical Training, manages the design, development and delivery of customized, quality technical education solutions. He holds a BSc in Electrical Engineering and an MS in Training and Development. Jeff has worked 22 years with a medical equipment manufacturer and has spent more than 13 years in organizational training and education. He holds 2 patents in medical technology and is certified as a MCNE and Six Sigma Black Belt. Jeff is a regular columnist for Biomedical Instrumentation and Technology Magazine. When not being diligent in his PhD studies, Jeff plays guitar and sings in a rock band called the *Malcontents*.

## 6. Troubleshooting fundamentals of Medical Networks - Practical Aspects of Network Troubleshooting

Date: September 10, 2004  
Duration: half day (Afternoon)  
Cost: \$300

### Description:

The seven-layer model of Ethernet. I only see three. So where did the other four go? Join Ryan Schreier for a presentation and discussion of the practical aspects of network troubleshooting. Don't have a \$10,000.00 network analyzer? What options and techniques can be used to troubleshoot modern networks? Finding basic problems is relatively easy if you know what to look for and follow normal troubleshooting techniques. More complex problems can be found with tools already at your disposal within Windows and Unix Operating Systems. Don't despair - prepare, compare and repair!

Instructor: Ryan Schreier, Senior Service Engineer  
Medical Engineering - Imaging Group  
University Health Network, Toronto

### Bio of instructor

Ryan attended Mohawk College and is an Electronics Technologist graduating in 1977. The intervening 27 years have been spent with Digital Equipment Corporation (Medical Computing specialist) and the University Health Network (Nuclear Medicine Specialist) trying to keep up with the oldest and latest technology. Currently in an in-house supervisory / engineering position attending to multi-site Nuclear Medicine systems and workstations, the main goal is to keep everything up and running with a minimum of downtime.

## 7. Ventilators: fundamentals and maintenance

Date: September 11, 2004  
Duration: Full day  
Cost: \$350

### Description

- Brief history
- Mechanics of ventilation
- Terminologies
- The basic building blocks of ventilators
- Ventilator systems
- Test equipment

Instructor: TBD

## **8. Laser Applications, Fundamentals of Operation and Service**

Date: September 11, 2004  
Duration: half day (morning)  
Cost: \$250  
Language: French instruction

Description:

- 1) brief discussion on the current types of lasers and typical usage available today - Jean Yves
- 2) Overview of fundamental design and construction - Onil Cote
- 3) Overview and approach to service for each type - Onil Cote
- 4) Laser Safety Notes and Q&A - JeanYves
- 5) Biomed Perspective: Discussion of pros and cons of available service options available today : third party, vendor, self, insurance etc. - speaker TBA

Instructors: Jean Yves and Onil Cote  
Coherent-AMT