

## Sunday Continuing Education Courses - April 24 Formation en continu – le 24 avril 2016

### Continuing Education Courses (pre-conference)

- 8:30-5pm
- Lunch included for attendees

#### Section 1 – English

**8:30-noon-** Leveraging Technology

**1pm - 5pm-** Advanced Diagnostics

#### Section 2 - French

**8h30-midi** Contrôler le radon dans les nouvelles constructions au Canada (CRNCC)

**13h - 17h-** Cours Avancé sur les tests de Communication et Diagnostics

#### Section 3 - English

**1pm-5pm-** Emerging Technologies

This is a new idea this year. We have invited companies to give a presentation on a product that they have developed for the radon industry in Canada. This session will give radon professionals some insight into some tools that they may be able to use in their businesses. The following 4 companies will present their ideas in 1-hr sessions.

#### ***Presentations will include:***

**Demilec-** HeatLok Soya

**Radon Environmental-** Rapidos Short Term Test; Pylon Radon Air Test and Pylon Radon Water Test

**AccuStar-** New Technologies for System Monitoring

**Radiation Safety Institute of Canada-** Radon Chamber - secondary radon reference facility

### *COURSE ABSTRACTS:*

#### CONTRÔLER LE RADON DANS LES NOUVELLES CONSTRUCTIONS AU CANADA (CRNCC)

Ce cours a été développé pour les constructeurs, designers, architectes, ingénieurs, gens de métier, etc. qui sont impliqués dans la conception ou la construction en tout ou en partie d'une nouvelle construction résidentielle au Canada. Ce cours offre aux participants un aperçu des exigences du Code national du bâtiment du Canada 2010 en ce qui concerne l'infiltration des gaz du sol (y compris le radon) pour les nouvelles constructions résidentielles.

Le cours fournit aux participants de l'information pour bien comprendre ce qu'est le gaz radon et d'où il vient, comprendre les *risques pour la santé* liés au radon, comprendre comment les gaz du sol (y compris le radon) s'infiltrent dans les bâtiments, la mise en œuvre des méthodes durant la construction pour réduire l'infiltration de gaz de sol et de démontrer les meilleures pratiques pour le contrôle du radon dans les constructions résidentielles neuves.

#### COURS AVANCÉ SUR LES TESTS DE COMMUNICATION ET DIAGNOSTICS POUR DES SYSTÈMES DE DÉPRESSURISATION ACTIVE DU SOL (DAS) POUR L'ATTÉNUATION DU RADON

Ce cours avancé sur les tests de communication et diagnostics quantitatifs est un cours plus approfondi des méthodes enseigné dans les cours de base sur l'atténuation du radon. Il est présumé que les participants auront complété ces cours de base et qu'ils auront une connaissance de base de ces techniques. Durant ce cours, nous ferons souvent référence aux sujets couverts dans le cours de base. Les techniques enseignées dans ce cours pourront s'appliquer à tous les systèmes de dépressurisation active du sol (DAS).

Ce cours permettrait aux participants qui ont seulement les connaissances de base pour les tests de communication et diagnostics pour des systèmes de dépressurisation active du sol (DAS) une opportunité d'approfondir leurs connaissances avec des exercices pratiques et de la formation en classe sur l'utilisation d'équipement diagnostics, la sélection des ventilateurs et la conception des systèmes de conduits pour des systèmes avec soit un point ou plusieurs points de suction.

### ***Leveraging Technology in Radon***

**Colin Dumais** will be teaching a morning session with **Eric Bjornson** on *Leveraging Technology in Radon*. They will give some insight and ideas on how to use various technologies to make diagnostics more precise and accurate and help you gain more insight from the data. This session will help you come away with creative ideas to adapt and use in your daily mitigation work.

### ***Advanced Diagnostics for Mitigators***

Colin's **afternoon session will be an *Advanced Diagnostics for Mitigators* session in English. This is a great course and often a requested course for mitigators who are new into the business or those experienced mitigators who want to gain some more experience.**

### ***Emerging Technologies***

#### **David Innes with Radon Environmental**

**Rapidos Short Term Radon Test** - The new Rapidos alpha track detector has the convenience of a short term radon test with the accuracy benefits of a long term test. Both accurate and flexible, it is one of the most effective ways to measure radon in the home, schools and workplaces.

#### **Pylon Radon Air Test**

**Pylon Radon Water Test** - The Pylon Water Test is specifically suited for well water analysis where accurate results are needed quickly.

#### **Jason Sadowski with Radiation Safety Institute of Canada**

The Radiation Safety Institute of Canada specializes in the individual monitoring of workers exposed to radiation from radon, thoron, and long-lived radioactive dust. As part of this monitoring service, the Institute operates a radon calibration chamber located at its National Laboratory in Saskatoon SK. To help meet the needs of the growing radon industry in Canada, the RSIC, in collaboration with Health Canada, is working to have its chamber certified as an approved secondary radon reference facility.

This presentation will focus on the details of project as well as explain some of the complexity and challenges regarding radon calibration and measurement.

**Ryan Richie, Director of Sales with Spruce Environmental Technologies, Inc.**

### **New Technologies for System Monitoring**

U-tube manometers, installed on millions of radon systems, are the accepted method for monitoring operation. With technological advances, additional monitors have been developed that sense system pressure or air flow with the purpose of being used in conjunction with the u-tube to enhance the homeowner's ability to know whether a system is functioning without having to read the system's u-tube manometer. Most of these devices require an electrical connection. Now a new generation of battery-operated monitors has been introduced that notifies the homeowner audibly and visually when system air flow is low or non-existent.

### **Maxime Duzyk, Directeur adjoint, Science du Bâtiment/Building Science Manager with Demilec**

The basement is a high humidity zone, favorable to the development of harmful mold. According to independent laboratory testing, no mold growth is possible in HEATLOK®SOYA. There is no nutritional source to promote bacteria growth. The product is resistant to water and humidity. Several studies<sup>3</sup> demonstrate that it is the ideal insulation for flood prone areas. The polyurethane foam remains in place even after a flood. It does not degrade and once dry, HEATLOK®SOYA recovers all of its original physical properties.

In brief, installation of HEATLOK®SOYA beneath the slab and on foundation walls saves time as well as material, while providing a superior, durable insulation and seal, all at a competitive cost.