

# BC Science Institute

## October 24, 2008



## Agenda

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7:45 am - 8:30 am	Registration and Coffee
8:30 am - 8:45 am	Welcome
8:45 am - 9:45 am	<b>Keynote Speaker - Wade Davis</b>
9:45 am - 10:15 am	Coffee and Networking
10:15 am - 11:15 am	Content Workshops
11:30 am - 12:30 pm	Content Workshops
12:30 pm - 1:30 pm	Lunch
1:30 pm - 2:30 pm	Content Workshops
2:45 pm - 3:15 pm	Closing Activities

## Workshops

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### Welcome to BC Science 10

*Lionel Sandner, Edvantage Press, author, BC Science 8, 9 and 10*

Two months into implementation is a good time to stop and reflect on how the first unit or two have gone in your class. What will be done differently next time, what can be added or taken away? Join Lionel Sandner as he discusses the various components of the BC Science 10 program and reviews the practical application of the workbook, website and exam bank.

### Provincial Exam—Update and Overview

*Lionel Sandner, Edvantage Press, author, BC Science 8, 9 and 10*

Grade 10 science includes a provincial exam at the end of the course. Join Lionel Sandner as he outlines the guidelines for the new Science 10 provincial exam. Time will be spent analyzing questions and discussing options for supporting the diverse range of learners in your science class.

### What the heck are Foldables™ and how do they fit with Science???

*Chris Zarski, Foldables Consultant*

Come and learn what research says and how to teach science for understanding incorporating Foldables™ into your teaching. Using topics and outcomes from the junior and senior high science curriculums, discover how you can integrate these graphic organizers as valuable teaching pieces. How do they help students in their learning, assess their own learning they help students in the learning process, assess their own learning and expand their own personal strategies. Come ready to roll up your sleeves for an action packed, hands on session! The materials you make will be ready to use in the classroom the next day!

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## **Take Action! on Climate Change: Teaching Your Students Positive Solutions towards the Climate Change Challenge.**

***Dianna Porter, Sierra Club, BC***

Educating youth about climate change (CC) can be challenging. Join the Sierra Club BC in an interactive, hands-on workshop that explores these pedagogical challenges, and introduces practical approaches to overcoming them. Activities from our CC focused Sustainable High Schools Program (Gr. 8-12) will bring the learning to life. You will take home tangible teaching ideas, lesson plans, and other CC teaching goodies.

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## **Motion - "Zero to sixty in under 15 hours"**

***Glen Fatkin, author, BC Science 9 and 10, North Surrey SS, Surrey, BC***

This session will focus on techniques and methods that can be used to teach the concepts of velocity and acceleration to Science 10 students. Several activities will be demonstrated using, traditional physics lab equipment as well as computer simulations and motion sensors.

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## **Fun with Motion**

***Don Mathewson, Kwantlen University College***

The theme of all of my sessions is: learn to love physical science. I present activities, demos and notes to help you understand the principles of physical science and to help you teach the key concepts to your classes. My goal is to help both you and your students enjoy physical science

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## **New Life Science 10 Curriculum**

***Karen Naso, author, BC Science 9 and 10, David Thompson SS, Vancouver, BC***

In this session we will examine the contents and challenges of the new Life Science 10 Curriculum, and the expectations on the provincial examination. In addition, strategies to promote higher level thinking and increase student engagement will be modeled in this interactive workshop.

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## **Chemistry Demos and Activites for the New Science 9 & 10 Curriculum**

***Chris Toth, St. Thomas More Collegiate, Burnaby, BC***

***Don Lacy, author, BC Science 8, 9 and 10, Stelly's SS, Saanichton, BC***

The presentation includes a review of standard demos every teacher should have in their tool kit plus more (including cold light, dust explosion, acid base-indicators, and Geiger counter). Printed handouts describing each demo are available so you can watch and try out later. Tailored specifically to the new Science 9 and 10 BC curriculum.

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## **BC Science Websites: A Tour From the Webmaster**

***Josef Martha, Edvantage Press***

Join Josef Martha, webmaster of BC Science 8-9-10 series websites, for an overview of the online components of the BC Science 10 program. All of the website features, including technology ideas, Home Version eBook, and much more, will be demonstrated and explained.

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## **Cool Technology Ideas: Using Probeware**

***Josef Martha, Edvantage Press***

Join Josef Martha, webmaster of the BC Science series websites, as he shares many cool technology lab ideas involving probeware. The latest in Pasco probeware will be demonstrated, emphasizing ease-of-use and convenient set-up for the instructor. Learn how you can use fully-developed probeware experiments found on the BC Science websites to enhance your instruction.

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## **Safety, Storage & Online Chemical Inventory System for your Chemical Lab**

**Ahmed Mustafa, National Sales Manager, VWR Science Education, for Boreal**

Refresh your safety consciousness and review the tenants of basic lab safety, dangerous chemical reactions, storage “best practices” and the regulations that keep you and your students safe. Also, learn about the new online chemical inventory database system to help you keep your chemical storage inventory catalogued, safe and current.

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## **Digital Microscopy - An Affordable Teaching Tool**

**Anna Szymczak, teacher, Southridge Senior School, Surrey, BC, for Boreal**

How does digital microscopy enhance your teaching methods and your students' learning experiences? A classroom teacher, Anna Szymczak, will introduce you to the powerful, easy-to-use Motic software that accompanies Boreal Microscopes and Moticams and share her classroom experience using digital microscopy. Digital Microscopy may be used as a demonstration tool in the classroom and as student equipment. Digital Microscopy has become a very affordable teaching tool, with high school Boreal2 digital microscopes starting at \$548.00; Moticam cameras starting at \$260.00; and Elementary digital microscopes starting at \$194.00.

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## **Heat Transfer: Teaching Tricks for the Earth Forces Unit of the new BC Science 10 Curriculum**

**Jim Milross, author, BC Science 9, Fraser Height SS, BC**

This high-energy, interactive session is directed both at novice and veteran teachers teaching the new Earth Forces Unit in the BC Science 10 curriculum. The intent is to share some strategies, hands-on “grabbers”, and snappy demos that will address the topics in the new course. The focus will be heat transfer in, on, under, and above the Earth’s surface, as well as a primer on plate tectonics.

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## **Assessment for All in Your Science Class**

**Briar Ballou, BC Science 8-10 advisor**

Summative, formative, for learning, of learning assessment. How do all these assessment strategies work in the everyday science classroom? Join Briar as she discusses practical assessment strategies that work. A variety of ideas you can use in your class will be provided. These ideas will support your students being successful with their science

***Keep checking the website for session updates!***