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**Thursday, February 21<sup>st</sup>****British Columbia Distinguished Lecture** (At the Hurlburt Auditorium, St. Paul's Hospital)

Chair: Bruce McManus

8:00 – 9:00      *Dynamic Disease Understanding: Predicting The Black Box Report Before A Plane Crash*  
**Andrew Krahn MD**

*Learning Objectives - at the end of this presentation, participants will have the ability to:*

- Appreciate the apparent inability to predict arrhythmias
- Use this lesson to recognize our limited insight into the dynamic nature of disease
- Understand novel tools for understanding disease evolution and lessons learned therein

9:00 – 9:30      Breakfast & Registration (At the Sheraton Vancouver Wall Centre Hotel)

**Welcome to FEST 2013**

9:30 – 10:00    Welcome from:

- **Bruce McManus**  
Co-Director, Institute for Heart + Lung Health
- **Karin Humphries & Chris Carlsten**  
Co-Chairs FEST 2013

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**Thematic Session 1 – Translational Research: From Bench to Bedside**

Chairs: Del Dorscheid, Jeremy Hirota

10:00 – 10:15      *Atherosclerosis and Smooth Muscle Cells: Insights from Bench to Bedside*  
**Gordon Francis**

*Learning Objectives - at the end of this presentation, participants will have the ability to:*

- Understand the role of arterial smooth muscle cells in cholesterol over accumulation and macrophage-type cells in human atherosclerosis

10:15 – 10:30      *Mast Cells and Eosinophils from Bench to Bedside*  
**Kelly McNagny**

*Learning Objectives - at the end of this presentation, participants will have the ability to:*

- Describe how mast cells and eosinophils play a pathological role in Th2-driven allergic airways disease
- Discuss how mast cell and eosinophil recruitment to the lung is facilitated by expression of the sialomucin CD34 which blocks their adhesion and facilitates their chemokine sensing

10:30 – 10:45      *Stem Cells: Panacea for Cardiopulmonary Ills?*  
**Ben Paylor**

*Learning Objectives - at the end of this presentation, participants will have the ability to:*

- Discuss how the lack of understanding about the interplay between different cardiac cell types has hampered the development of novel cellular therapeutics to improve regeneration and repair in the heart
- Understand that cardiac fibroblasts are a heterogenous population of mesenchymal cells residing within the heart, with differing subsets having different physiological and pathological roles
- Understand that tissue-resident population of mesenchymal progenitors (identified as CD45-neg, CD31-neg, PDGFRa-pos, Sca1-pos) are present within the heart and play a key role in the development of cardiac fibrosis

10:45 – 11:00      Discussion



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## Thematic Session 2 – Lung Fitness and Function: From Limitation to Liberation

Chairs: Neil Eves, Chris Ryerson

- 11:00 – 11:20      *Strong Beats, Clear Breaths – Is it Time to Re-think Exercise Limitation and Liberation in Mild COPD?*  
**Jordan Guenette**  
*Learning Objectives-* at the end of this presentation, participants will have the ability to:
- Explore the complex pathophysiological responses to exercise in mild COPD
  - Determine if pharmacotherapy can improve airway physiology, exercise performance and dyspnea in COPD patients
- 11:20 – 11:40      *Full Lives – The Rehab Revolution*  
**Pat Camp**  
*Learning Objectives-* at the end of this presentation, participants will have the ability to:
- Understand the role of rehabilitation in chronic lung disease and discuss future possibilities of rehabilitation to improve health outcomes
- 11:40 – 12:00      Discussion
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- 12:00 – 2:00      Poster Session & Lunch
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## Thematic Session 3 – CT Imaging: What's new in 2013?

Chairs: John Mayo, Jen Ellis

- 2:00 – 2:20      *CT Angio*  
**Carolyn Taylor and Jonathon Leipsic**  
*Learning Objectives-* at the end of this presentation, participants will have the ability to:
- Review the limitations of anatomical assessment of coronary artery disease (CAD)
  - Explore recent advances in assessing functional significance of CAD with cardiac CT perfusion and FFR-CT
- 2:20 – 2:40      *Clinical Pearls in Lung Cancer CT Screening*  
**Stephen Lam**  
*Learning Objectives-* at the end of this presentation, participants will have the ability to:
- Summarize the current issues in lung cancer CT screening
  - Discuss management of screening CT detected lung nodules
  - Discuss role of biomarkers in nodule management
- 2:40 – 3:00      Discussion
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## David Bates Lecture

Chair: Michael Brauer

- 3:00 – 4:00      *Setting Air Quality Standards: Risk, Uncertainty, and Public Health*  
**Jonathan M. Samet MD, MS**  
*Learning Objectives-* at the end of this presentation, participants will have the ability to:
- Assess risks using epidemiological and toxicological approaches
  - Use information on risk of air pollution in setting air quality standards and guidelines
  - Understand the interplay of risk, uncertainty, and other considerations in the standard-setting process
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## Thematic Session 4 – Another Lens: Behavioural and Psychosocial Factors in Heart Disease

Chairs: Bernice Budz, Martha Mackay

4:00 – 4:15

*At Home on Mechanical Circulatory Support: Trials and Tribulations*

**Annemarie Kaan**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Understand what devices are used to allow patients to live at home
- Recognize some of the challenges associated with living at home on a device
- Review the latest research in this area

4:15 – 4:30

*Integrating the Study of Patient-reported Outcomes in Clinical Practice*

**Sandra Lauck**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Explore the study of patient-reported outcomes (PROs) in research and clinical practice
- Discuss the findings of the study of PROs after implantable cardioverter-defibrillator as an example of PRO research

4:30 – 4:45

*The Influence of Ethnicity on Cardiac Illness*

**Martha Mackay**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Describe three ethnicity-based differences in cardiac disease
- Discuss two avenues of research currently being pursued to investigate these differences

4:45 – 5:00

Discussion

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5:00

Reception begins

**Location: Pavilion Foyer**

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## Friday, February 22<sup>nd</sup>

7:30 – 7:55

Breakfast

## Graeme Copland Memorial Lecture

Chair: Mark FitzGerald

7:55 – 8:45

*New Perspectives in COPD*

**Bill MacNee MBChB MD FRCP(G) FRCP(E)**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Understand current thinking about the pathobiology and possible therapies for COPD
- Appreciate the complexity of COPD and its different manifestations

8:45 – 9:00

Discussion

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## Thematic Session 5 – Updates from the ICU

Chairs: Najib Ayas, Bill Henderson

9:00 – 9:15

*Moral Distress in ICU Workers*

**Peter Dodek**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Define moral distress in the context of critical care
- Understand the associations between moral distress in ICU health care workers and demographic characteristics

## Heart + Lung Scientific Symposium Agenda (cont'd)



- Understand the magnitude, causes, and consequences moral distress in ICU health care workers
- 9:15 – 9:30      *Intensive Care: Basic Science Perspective*  
**Keith Walley**  
*Learning Objectives- at the end of this presentation, participants will have the ability to:*
- Describe mechanisms of disease pathogenesis and treatment response found to be an essential component of treatment
- 9:30 – 9:40      Discussion

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9:40 – 10:00      Coffee Break

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### Thematic Session 6 – Health Economics and Resource Allocation

Chairs: Sam Lichtenstein, Marc Deyell

- 10:00 – 10:15      *Patient's and Physician's Preferences in Decision-Making for Antithrombotics in Atrial Fibrillation*  
**I fan Kuo**  
*Learning Objectives- at the end of this presentation, participants will have the ability to:*
- Understand the current knowledge gap in utilizing health preferences in decision-making at the clinical and regulatory level
  - Appreciate the use of choice experiments as a tool of health preferences elicitation using the example of oral anticoagulants as stroke prophylaxis in atrial fibrillation
- 10:15 – 10:30      *The Economic Burden of Asthma*  
**Mohsen Sadatsafavi**  
*Learning Objectives- at the end of this presentation, participants will have the ability to:*
- Recognize the extent of the burden of asthma in Canada and other Western countries, including direct and indirect costs
  - Distinguish between 'total burden' and 'preventable burden' in the context of asthma
- 10:30 – 11:00      *Comparative Effectiveness Research: Improving Cardiac Care in Canada*  
**Doug Lee**  
*Learning Objectives- at the end of this presentation, participants will have the ability to:*
- Understand current gaps in acute heart failure care
  - Recognize important therapeutic targets to improve acute heart failure outcomes
- 11:00 – 11:15      Discussion

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11:15 – 12:15      Poster Winners: 'Lightning' Oral Presentations  
**Chair: Chris Carlsten**  
*Winners 1- 6: 5 minute presentation, 5 minute discussion*

12:15 – 1:15      Lunch

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### Thematic Session 7 – Big Data in Cardiopulmonary Disease

Chair: John Webb, Scott Tebbutt

- 1:15 – 1:35      *Predictive & Improved Health Outcomes for Data in Motion*  
**Sridhar Srinivasan**  
*Learning Objectives- at the end of this presentation, participants will have the ability to:*
- Appreciate the evolution of data infrastructure to support various forms of research and application

## Heart + Lung Scientific Symposium Agenda (cont'd)



Institute for  
**HEART+LUNG** Health  
Strong beats. Clear breaths. Full lives.

- Understand the power of big data when managed in a secure, ethically sound, but accessible fashion

1:35 – 1:55

*Big Data in Mycobacterial Disease*

**James Johnston**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Describe the role of molecular epidemiology in BC
- Understand the challenges in interpreting whole genome sequencing information in an epidemiologic context

1:55 – 2:15

*Big Data: The Role of Epi Databases*

**Chris Thompson**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Appreciate the power of data resources in cardiovascular epidemiological research
- Recognize both the challenges and opportunities in establishing and maintaining such data resources

2:15 – 2:30

Discussion

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## Thematic Session 8 - Debates

Chairs: Andrew Krahn; Bill MacNee

2:30 – 2:50

*Intermittent Treatment vs. Regular ICS Therapy*

**Pro – Mark FitzGerald, Con – Don Sin**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Describe the advantages and disadvantages of using either intermittent or regular ICS therapy

2:50 – 3:00

Perspective from the audience

3:00 – 3:20

*Freedom – The Last Word on CABG versus PCI in Diabetics*

**Pro – Peter Skarsgard, Con – Graham Wong**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Compare the disadvantages and disadvantages of using either CABG or PCI in diabetes

3:20 – 3:30

Perspective from the audience

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3:30 – 3:45

Break

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3:45 – 4:00

Award Presentations

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## Alan Bernstein Distinguished Lecture

Chair: Karin Humphries

4:00 – 5:00

*Advancing Science to Improve the Health of the Global Poor*

**Prabhat Jha OC MD DPhil**

*Learning Objectives- at the end of this presentation, participants will have the ability to:*

- Understand global patterns of premature mortality in the past century
- Understand the role of science in reducing child and adult mortality in the future

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5:00

Thank You – Symposium Closes