

2nd Annual BioMedic Networking Event

June 23rd 2011

Life Science Research Institute,
Dalhousie University

This event is sponsored by:



innovacorp



PROGRAM

4.30 Atrium

Registration
Meet & Greet

5:00 BioNova Boardroom

Opening Remarks

Dr. Carolyn Watters
VP Academic & Provost, Dalhousie

Kevin McNamara
Deputy Minister of Health & Wellness

BioMedic Program Overview

Dr. Cheryl Kozey
Director, BioMedic

Dr Manohar Bance
Head of Division of Otolaryngology

Trainee Highlight

Florentin Wilfart,
PhD Candidate, BioMedic

Guest Speaker

Dr. Art Coury—“Corporate Medical Product
Development: Some Lessons Learned”

Questions

6:00 Atrium

Networking Session & Student Presentations

NSERC CREATE: BioMedic



A Training Program in Biomedical Technology
Innovation & Commercialization

Who We are

BioMedic is a training program in biomedical device innovation funded through a 5-year \$1.6M grant from the NSERC (Natural Sciences and Engineering Research Council of Canada) CREATE program in June 2009. We were the first CREATE program awarded at Dalhousie and we received support from VP Research Office, Faculty of Engineering as well as external support from BioNova and NRC-IRAP (National Research Council-Industrial Research Assistance Program).

Objective: to bridge the training gap between innovation and commercialization by developing skills needed to effectively translate novel research into meaningful health care products.

Outcome: skilled graduates that will effectively stimulate research, development and economic growth in biomedical devices. Furthermore we want to bridge the gap between academia, industry and commercialization.

The BioMedic program is part of the School of Biomedical Engineering (SBME) at Dalhousie University with our academic partners in the Faculty of Management and strong clinical links to Capital Health District Authority/IWK.



DALHOUSIE UNIVERSITY

School of Biomedical Engineering
Faculties of Engineering & Medicine

Facts about SBME

Commercialization activities in last 2.5 years:

- 22 Invention Disclosures
- 24 Provisional/Full Patent Applications
- 2 Spinout Companies in Halifax

SBME has stimulated growth in expertise in:

- Biomedical Technology Development and Commercialization
- Protection and Patenting
- Regulatory Framework and Reimbursement Strategies

NSERC CREATE BioMedic offers:

- Core Training in Biomedical Engineering Theory and Application
- Training in the Business of Medical Technology
- Certificate in Biomedical Entrepreneurship
- Industrial Placements
- Clinical Needs & Mentoring

Guest Speaker Biographical Sketch

Dr Art Coury

Art Coury holds a B.S degree in chemistry from University of Delaware (1962); a PhD in organic chemistry (1965) and an M.B.A (1980) from University of Minnesota.

His industrial career included positions as:

- Senior Research Chemist at General Mills, Inc (1965-1976);
- Director, Polymer Technology and Research Fellow at Medtronic, Inc (1976-1993);
- Vice President, Research and Chief Scientific Officer at Focal, Inc (1993-2000)
- Vice President, Biomaterials Research at Genzyme Corporation (2000-June, 2008).

He currently is a consultant.

His career focus has been polymeric biomaterials for medical products such as implantable electronic devices, hydrogel-based devices and drug delivery systems. He holds over fifty distinct patents and has published and presented widely in his field.

His teaching positions have included adjunct or affiliate appointments at the University of Minnesota; the Harvard-MIT Graduate Program in Health Sciences and Technology; the University of Trento, Italy.

Guest Speaker Biographical Sketch

Dr Art Coury

His professional service has included

- Chair, Minnesota Section, American Chemical Society (1989-1990);
- President, Society for Biomaterials, USA (1999-2000);
- President, American Institute for Medical and Biological Engineering (2003-2004);
- Membership on a number of university, society and corporate advisory boards

Dr Coury's recent recognitions have included the delivery of distinguished lectureships; receipt of the 2007 Innovation and Technology Development Award of the Society for Biomaterials; being named as one of "100 Notable People in the Medical Device Industry" by MD&DI magazine, 2008; induction into the National Academy of Engineering, USA, 2009; recognition on the University of Delaware Alumni "Wall of Fame," 2010; "The Man, the Myth, the Materials," a symposium in honour of Art Coury's 70th birthday.

List of BioMedic presentations (by Lab)

Biomaterial Research Group

- Arash Momeni (PhD Candidate)
 - Calcium Polyphosphate Modified Cements for Drug Delivery & Bone Regeneration
- Patricia Comeau (PhD Candidate)
 - Novel Processing of Calcium Polyphosphate
- Brett Dickey (MASc Candidate)
 - The Development & Evaluation of a Novel Material for Minimally Invasive Augmentation of Vertebral Bodies

Researchers:

Dr Mark Filiaggi

Dr Daniel Boyd

Airway Mechanics Lab

- Hamed Hanafi (PhD Candidate)
 - Airway Diagnostic ICU Monitor
- Lucas Posada (MASc Candidate)
 - TremoFlo Lung Diagnostics Device

Researcher:

Dr Geoff Maksym

Anesthesia Research Group

- Florentin Wilfart (PhD Candidate)
 - Innovative Device for CO2 Removal in Anesthesia

Researchers:

Dr Don Weaver

Dr Geoff Maksym

List of BioMedic presentations (by Lab)

Musculoskeletal/Orthopedics Research Group

- Julie Briand (PhD Candidate)
 - In-vivo High-Frequency Ultrasonography of Human OA Progression
- Jennifer Hurry (MAsc Candidate)
 - Digital Radiographic Bone Mineral Density Determination Method into the RSA suite
- David Konadu (PhD Candidate)
 - Tibial Bone Density – Total Knee Implant Migration
- Andrew Allan (MAsc Candidate)
 - Femoral Fracture Reduction Device

Researchers:

Dr Janie Astephen Wilson

Dr Michael Dunbar

Dr Cheryl Hubley-Kozey

Microfabrication Lab

- Andre Bezanson (MAsc Candidate)
 - High Frequency, Multiple Array Ultrasonic Transducer Development
- Zahra Torbatian (PhD Candidate)
 - A High Frequency Ultrasonic Endoscope for Imaging the Auditory System

Researchers

Dr Jeremy Brown

Dr Manohar Bance

Dr Rob Adamson

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BioMedic Partners & Stakeholders



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UNIVERSITY**

School of Biomedical Engineering
Faculties of Engineering & Medicine



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