

18th

International

SEATING

Symposium

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March 7, 8 & 9, 2002

**Westin Bayshore Resort & Marina
1601 Bayshore Drive, Vancouver, BC Canada**

Pre-Symposium Workshops

Held at the **Westin Bayshore Resort & Marina**
1601 Bayshore Drive, Vancouver, BC

MARCH 5, 2001

- Seating for Clients with High Complexity Needs

MARCH 6, 2001

- Sitting: An Early Intervention
- Building Your Evidence-Based Practice Toolkit
- Going Mobile: Powered Mobility Evaluation and Technology
- Seating System Fabrication Techniques

Announcing: The 2nd Annual Chris Bar Research Forum
sponsored by The ROHO Group, Inc.



SPONSORED BY:

Sunny Hill Health Centre for Children

(a part of Children's & Women's Health Centre of British Columbia)
Vancouver, BC, Canada

Interprofessional Continuing Education
The University of British Columbia

School of Health and Rehabilitation Sciences
The University of Pittsburgh
and RESNA, Washington, DC

SYMPOSIUM *Information*

Symposium Objectives:

At the completion of this symposium, participants will be able to:

1. Describe the range of seating and mobility techniques available for clients with a variety of disabilities;
2. Discuss the emerging research evidence supporting seating and mobility practices;
3. Locate resources for seating and mobility practice; and
4. Explain the advantages and disadvantages of a number of innovative service models and new technologies.

Location

The Westin Bayshore Resort & Marina

1601 Bayshore Drive (parallel to West Georgia Street)
Vancouver, B.C. Canada V6G 2V4

Hotel Accommodation

Please make your own reservation by calling the Westin directly. One night's guarantee by credit card is usually required. **Identify yourself with the Seating Symposium.** Hotel tax of 10% and 7% GST must be added to all rates. Telephone: toll free anywhere in North America 1-800-937-8461; Local calls +1 (604) 682-3377; Fax +1 (604) 691-6980.

Rates: CAD\$139 single and CAD\$149 double occupancy. A block of rooms has been booked and will be held at the conference rate until **February 05th, 2002.**

Tourism Information

Vancouver provides visitors with many opportunities to experience the West Coast lifestyle. If you would like more information on travelling in the area or other accommodations, please call these numbers:

Tourism BC: 1-800-HELLO-BC (435-5622) or visit their website at <http://www.hellobc.com>

Tourism Vancouver: (604) 683-2000, fax: (604) 682-6838 or visit their website at <http://www.tourism-vancouver.org>

Conference Airline

We have appointed Air Canada as the official airline of this conference. Simply contact Air Canada's North American toll free number at 1-800-361-7585 or your Travel Agent and take advantage of specially discounted economy airfares. *We advise booking as soon as possible to secure your seats.* Our convention reference number is: **CV665241.**

Conference Auto Rentals

Avis Rent-A-Car offers the best car rates available! Call AVIS Worldwide at 1-800-331-1600. Quote reference number **J993246** to receive the Seating Symposium discount rate.

Registration

You may register by telephone or fax using a credit card for payment, online at www.interprofessional.ubc.ca, or by mail with a cheque or credit card. Please see registration form for details. **Pre-registration prior to February 05, 2002** is strongly recommended to ensure you receive your course selections. You may register for either the pre-symposium courses and/or full program (2½ days), or for a single days.

Tuition Fees

See Registration Form for details.

All Symposium fees listed are in Canadian dollars (CAD\$). The tuition fee includes course materials and refreshment breaks. Those persons registered for **Thursday, March 7, 2002** are welcome to attend a complimentary reception immediately after the program.

Charge-by-phone

To charge by phone (Mastercard or Visa only), please call: local and outside B.C. +1 (604) 822-6156; or toll free within B.C. 1-877-328-7744 or Fax +1 (604) 822-4835.

Registration via the internet

Secure, fast, online registration is available for Visa and Mastercard holders at the conference organizer's website: www.interprofessional.ubc.ca. Please ensure that you have a copy of the program to assist you in your workshop selections while online. *A registration receipt will be mailed to all registrants regardless of payment method after processing by our office.*

Refunds

Will be made (less a CAD\$50.00 processing fee) if written notice of withdrawal is received by **February 05, 2002.** No refunds will be granted for withdrawal after that date.

Cancellation

The Division of Interprofessional Continuing Education reserves the right to cancel or move Pre-Symposium or main Symposium programs if registration is insufficient. In the event of cancellation, a refund less a CAD\$50 handling charge will be returned.

Study Credits/Certificate of Attendance

A **Certificate of Attendance** will be issued to all participants listing pre-approved continuing education credits

Physicians - MainPro and AMA Category 1 credits applied for.

American Occupational Therapy Association - continuing education credits applied for.

Conference Organizers

For enquiries regarding program, registration, exhibit, or other matters please contact the Conference Organizers (Interprofessional Continuing Education, UBC) at:

Tel: +1(604) 822-6156; Fax: +1(604)822-4835; or Email: interprof@cehs.ubc.ca.

Information online: www.interprofessional.ubc.ca

Other Resources online: www.seatingandmobility.ca

PRE-SYMPOSIUM *Program*

Tuesday March 5, 2002

SEATING FOR CLIENTS WITH HIGH COMPLEXITY NEEDS

One Day Program - Runs March 5 only

Commences: 9:00am to 4:30pm

Location: Westin Bayshore Resort and Marina

Registration: Limited to 30 participants

Jo-Anne Chisholm, MSc, RHSC, Reg OT(BC)

Director and OT, Access Community Therapists Ltd., Vancouver, BC

David Cooper, MSc (Kines)

Custom Seating Technician, Priority Systems, and Rehabilitation Engineer, Sunny Hill Health Centre for Children, Vancouver, BC

Maureen Story, BSR (PT/OT)

Seating Therapist, Sunny Hill Health Centre for Children; and Access Community Therapists Ltd., Vancouver, BC

The purpose of this workshop is to orient participants to the theory and process of seating for clients with high complexity needs. Participants will be given the opportunity to do a "hands-on" assessment with clients. Discussion format will be used to determine the best sitting posture for each client and how to translate this into an appropriate seating system. Custom-contoured foam in box and foam in place techniques will be demonstrated and discussed.

Objectives:

1. To understand the unique considerations in assessment of the client with high complexity seating needs;
2. To become familiar with the use of an outcomes-based assessment for this client group;
3. To develop clinical problem-solving skills in the area of seating and positioning with specific regards to clients with high complexity needs;
4. To practice assessment and custom seating skills and techniques including the use of foam in place and foam in box technology; and
5. To understand the complementary roles of seating therapist and technician in custom seating.

Wednesday March 6, 2002

SITTING: AN EARLY INTERVENTION

Commences: 9:00am to 4:30pm

Location: Westin Bayshore Resort and Marina

Registration: Limited enrollment

Session Coordinator: Elaine Antoniuk, BSc.PT, Seating Therapist, Sunny Hill Health Centre for Children, Vancouver, BC

Positioning and Mobility Resource Team Members, Sunny Hill Health Centre for Children, Vancouver, BC

Dr. Maureen O'Connell, MD, MSc, FRCP(C)

Head and Assistant Professor, Division of Developmental Paediatrics, Department of Paediatrics, University of British Columbia, Vancouver, BC

Dr. Chris Reilly, MD, FRCSC

Orthopaedic Surgeon, Children's and Women's Health Centre of British Columbia, Vancouver, BC

Janice Duvestein, BSR (OT/PT)

Section Head, Occupational Therapy Department, Sunny Hill Health Centre for Children, Vancouver, BC

Marnie Eastman, BSc, PT, MSc

Physiotherapist, Sunny Hill Health Centre for Children

This workshop is directed at clinicians working with young children with special needs aged 6 months to 3 years, living in the community. A child in this age group with a disability is usually a late independent sitter (some do not achieve this skill) therefore seating assistance is required to optimize function and health. Typically, this period is characterized by significant growth and developmental changes. The impact of a neurological assault on the developing systems will be discussed by physicians and clinicians who are specialists in their field.

There will be group opportunity to review and critically appraise a range of commercial and custom equipment available for this age group

Objectives:

1. To develop an understanding of spasticity and the management thereof; both medically and positionally;
2. To identify factors putting infants and toddlers at risk of developing orthopedic deformities, seating principles to minimize this risk; and medical management thereof;
3. To facilitate an understanding of the development of other systems (including vision, hearing and gastrointestinal systems) and the impact of impairments of these systems on positioning.
4. To use clinical reasoning to identify a range of commercial and custom equipment that best meets your clients' needs.

See Registration form for tuition fees.

Please note: If you register for the 18th International Seating Symposium, the Pre-Symposium workshops have a *reduced* fee.

PRE-SYMPOSIUM *Program*

Wednesday March 6, 2002

GOING MOBILE: POWERED MOBILITY EVALUATION AND TECHNOLOGY

Commences: 9:00am to 4:30pm
Location: Westin Bayshore Resort and Marina
Registration: Limited to 50 participants

Ian Denison, PT

Equipment Specialist, GF Strong Rehab Centre, Vancouver/
Richmond Health Board, Vancouver, BC

Susan Johnson-Taylor, OTR/L

Resource Clinician, Seating and Mobility Clinic, Rehab Institute
of Chicago, IL

David Kreutz, PT

Coordinator, Seating and Mobility Clinic, Shepherd Center,
Atlanta, GA

This pre-conference session will cover an overview of evaluation and powered wheelchair technology. This will include case studies, as well as breakout groups for hands-on programming and driving of the powered bases.

Objectives:

The participant will:

1. Understand the components of a powered mobility evaluation;
2. Understand powered mobility technology, including;
 - Powered wheelchair bases,
 - Powered wheelchair electronics,
 - Powered wheelchair input devices, and
 - Programming of powered wheelchair controllers

Participants will experience powered wheelchair performance over a variety of indoor and outdoor terrains, so please be sure to bring suitable clothing (coats/hat/gloves) for the outdoor period.

Wednesday March 6, 2002

BUILDING YOUR EVIDENCE-BASED PRACTICE TOOLKIT

Commences: 9:00am to 4:30pm
Location: Westin Bayshore Resort and Marina
Registration: Limited to 30 participants

Lori Roxborough, MSc. (OT/PT)

Sunny Hill Health Centre for Children, Vancouver, BC

Evidence-based practice (EBP) is increasingly being regarded as a key element of best practice in seating and mobility services. A number of tools are available to assist clinicians in utilizing evidence in practice. These tools include literature search tools, critical appraisal tools and evidence-based clinical guidelines. Workshop participants will assemble the tools most relevant to their practice and gain skills in using the tools to solve clinical problems. This interactive workshop will consist of an introductory lecture and guided work groups using EBP tools to solve clinical scenarios in adaptive seating.

Objectives:

At the end of this workshop, participants will be able to:

1. Describe the tools for evidence-based practice;
2. Formulate an answerable question;
3. Develop effective literature search strategies to locate the best evidence;
4. Critically appraise a research review article;
5. Critically appraise a clinical practice guideline; and
6. Apply the best evidence to solve a clinical scenario.

See Registration form for tuition fees.

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PRE-SYMPOSIUM *Program*

Wednesday March 6, 2002

SEATING SYSTEM FABRICATION TECHNIQUES

Commences: 9:00am to 4:30pm
Location: *Sunny Hill Health Centre for Children*
Registration: Limited enrollment

Robert Stickney, Seating Technologist, Sunny Hill Health Centre for Children, Vancouver, BC

Gordon Broughton, Seating Technologist, Sunny Hill Health Centre for Children, Vancouver, BC

Mark Dilabio, Seating Technologist, Sunny Hill Health Centre for Children, Vancouver, BC

This course will demonstrate the variety of techniques we use to position clients. Seating modalities for custom positioning of clients with moderate to complex needs will be covered. We will use foam in box, foam in place, and foam and plywood techniques. Modifications of commercial components to meet the needs of clients and caregivers will be presented. The use of the internet for seating and positioning related information will also be demonstrated.

Objectives:

- 1. To increase the knowledge of the broad range of seating and positioning technologies;*
- 2. To increase the participants' knowledge of the custom contour process in fabrication of seating systems; and*
- 3. To increase both skill and knowledge sourcing information on the internet, related to seating and mobility.*

PLEASE NOTE:

This Pre-Symposium Workshop will be held at:

**SUNNY HILL HEALTH CENTRE FOR CHILDREN
3644 SLOCAN STREET, VANCOUVER**

SYMPOSIUM *Exhibitors*

Symposium Exhibitors

(Confirmed at time of publication:)

*Adaptive Engineering Lab
Adaptive Equipment Systems
Advanced Health Care Products, Inc.
Altimate Medical, Inc.
Bodypoint Designs
BodyTech NW
Cascade Designs, Inc.
Convaid Products, Inc.
Crown Therapeutics, Inc.
Daher Manufacturing, Inc.
Dolomite Home Care Products, Inc.
Electric Mobility (Canada) Corp.
Freedom Concepts, Inc.
HPU REHAB
Independence Providers, Inc.
Invacare Corporation
Medical Industries America, Inc.
movingpeople.net
Mulholland Positioning Systems, Inc.
Oak Hill Systems for Independence
Otto Bock Health Care
Parsons ADL, Inc.
Position Dynamics
Pride Mobility Products
Q'Straint
Rehab Management
Sammons Preston
Shurshape
SOS Rehab / Snug Seat
Stealth Products, Inc.
Sunrise Medical, Inc.
Supercor, Inc.
Symmetric Designs Ltd.
Tekscan
The MedBloc Group, Inc.
The ROHO Group, Inc.
US Rehab/VGM Canada
Varilite™
Vista Medical Ltd.
Vitacare Medical
Whitmeyer Biomechanix, Inc.*

See Registration form for tuition fees.

Please note: If you register for the 18th International Seating Symposium, the Pre-Symposium workshops have a *reduced* fee.

SYMPOSIUM *Program*

Thursday March 7

7:30 Registration and Continental Breakfast available

8:30 **Opening Remarks**
Stephen Tredwell

8:45 **KEYNOTE ADDRESS:**
Discrimination at Home: The Case for Universal Design of Private Housing
Barry Seeger
Dr Barry Seeger has been Director of Regency Park Rehabilitation Engineering, Australia's largest REC, for over 20 years, where one of his earliest tasks was to establish a Seating Service. He has published over 50 peer-reviewed papers and contributed to the development of Australian and International Standards for access and for wheelchairs and other rehabilitation equipment. His latest work has been influenced by a recent personal experience of disability.

9:30 **I'm Too Old For This...Aren't I? Meeting the Ever-Changing Needs of the Aging Population**
Sheila Buck

10:00 **Evaluation Strategies for Seating and Positioning in Individuals with Developmental Disabilities**
Karen Hardwick

10:30 Refreshment break and exhibits open

11:15 **The Chailey Levels of Ability: A Non-Interventional Observational Approach to Assessment (Evaluation)**
Teresa Pountney

11:40 **What is That Little Marker in the Middle of the Map?: Potential Clinical Applications for Center of Pressure Measurements**
Jean Minkel

12:05 **The Bi-Angular Back Revisited-Use, Misuse and Clinical Potentials**
Simon A. Margolis

12:30 Luncheon (Registrants on their own) and exhibits open

2:00 **INSTRUCTIONAL SESSIONS GROUP A**

A1 **Measuring the Clinical Utility of an Assessment: The Example of the Canadian Occupational Performance Measure**
Ingrid Barlow, Jan Miller Polgar
Audience: *Intermediate*
Clinical utility refers to whether a measure provides useful information for the clinician in comparison to the time and effort required to learn, administer, and interpret it. This instructional session will provide a framework for the determination of the clinical utility of an outcome measure using the Canadian Occupational Performance Measure as an example.

A2 **Recipe for Success- Acquiring Funding for Assistive Technology**
Kay Koch Hurst
Audience: *Beginner*
Don't know where to start when seeking funding or writing justification for assistive technology equipment? This session will focus on developing a strategy and the basics for documentation to aid in getting equipment funded. This session is intended to give the new clinician or RTS a basic framework for requesting funding for a variety of devices and equipment.

A3 **The Chailey Approach to Postural Management: The Theory and Practice of A 24 Hour Approach**

Alice Goldwyn, Teresa Pountney, Martin Seabrook

Audience: *Intermediate*

This course will describe our application of developmental biomechanics to therapeutic equipment design showing how children can be positioned in lying, sitting and standing to facilitate practical skills, improve functional ability and reduce risk of deformity.

A4 **Seating for Task Performance**

Karen Kangas

Audience: *Intermediate*

Providing seating for individuals with cerebral palsy has most often focused on tone reduction and management. These same strategies can often prevent independent functioning with tasks. Today we will explore changing approaches attentive to neurophysiology rather than anatomy to provide more adequate seating for added independent control.

A5 **Dynamic Seating and Positioning With The Younger Wheelchair User: An Overview of The Functional Aspects with Case Illuminations**

M Bart Van der Heyden

Audience: *Advanced*

The balance between wheelchair mobility, functional activities and seated stability will be discussed with case studies and fittings.

3:00 Refreshment break and exhibits open

3:45 **INSTRUCTIONAL SESSIONS GROUP B**

B1 **Delivering Seating and Mobility to the other 80% of the World**

Wayne Hanson, Cathy Mulholland, Mark Richard

Audience: *Beginner*

This is an interactive multi-media presentation that will illustrate what is being done to deliver wheelchairs to over 40 countries, as well as unique challenges confronting caregivers involved. Explore as a group how we can help more people with special needs throughout the world

B2 **Mobility and Wound Management: An Interdisciplinary Approach**

Karen Trenholm, Susan Moir, Karen Campbell, David Keast

Audience: *Advanced*

This presentation will outline an interdisciplinary patient-centred approach to wound management. Clinical presentations of case histories will be used to illustrate: wheelchair use in the management plan of wound care; the roles of health team clinicians; programs and services offered to patients in an interdisciplinary approach; and wheelchair features and seating systems beneficial to wound management.

B3 **Why Didn't It Work, And What We Did About It**

Catherine Ellens, Nicole Wilkins

Audience: *All levels*

How often have you completed a thorough assessment and prescription using sound clinical reasoning only to find that after all your efforts, it just didn't work? Case studies will be used to highlight some of the corrective solutions we tried. This session will focus on children and adolescents and their seating systems, wheelchairs and alternate positioning/mobility equipment.

B4 **Stand Up and Function!**

Kathryn Fisher, Brenlee Mogul-Rotman

Audience: *Beginner*

This presentation will outline implications of standing and medical benefits related to the wheelchair-dependent client. Focus will be on the assessment process, determination of need, prescription and matching client needs to equipment.

SYMPOSIUM *Program*

B5 **Sitting Biomechanics 1 - Back to Basics**
Patrick Meeker
Audience: *Intermediate*
This program is an anatomical, kinematic and biomechanical introduction to the spine and its relationship to the seated individual. We will review spinal anatomy and its influence on seated posture, lower extremity position and upper extremity function. Current research will be applied to positioning your clients for comfort, protection and function with their seating systems.

B6 **Key Prevention Strategies and Assessment Guidelines for Pressure Ulcers**
M Cynthia Fleck
Audience: *Beginner*
This session will focus on a problem faced by almost every seating professional: the basic assessment and prevention of pressure ulcers. The following objectives will be met: Identify the impact and cause of pressure ulcers; describe the fundamentals of wound assessment and treatment; discuss prevention guidelines; and describe how to get 'back to basics' where pressure ulcers are concerned; demonstrate appropriate wound staging; and identify the most therapeutic environment for the skin.

4:45 RECEPTION IN EXHIBIT HALL

Friday March 8, 2002

7:30 *Registration and Continental Breakfast available*

8:30 **Opening Remarks**
Stephen Tredwell

8:35 **2nd Annual Chris Bar Research Forum**
(sponsored by The ROHO Group, Inc.)

10:00 *Refreshment break and exhibits open*

10:45 **Powered Mobility Training for Children with Complex Needs**
Karen Kangas

11:10 **Paediatric Powered Mobility and Young Children: A Program of Research**
Jan Furumasu, Donita Tefft, Paula Guerrette

11:35 **A Controlled Environment Study of Functional Mobility Skills**
Jean Minkel

12:00 *Lunch and exhibits open (Registrants on their own)*

SIMULTANEOUS PAPER SESSIONS ROOM 1

1:30 **A Seating and Mobility System for a Client with T12 Spinal Cord Injury and Brachial Plexus Injury**
Elaine Koh Beck, Nancy Ong Guek Ing

1:40 **Force, Pressure and Alignment of Children with Cerebral Palsy Using a Sacral Pad and Kneeblock in An Adaptive Seating System**
Rachael McDonald

1:50 **Question and Answer period**

1:55 **Energy Cost of Propulsion of A Wheelchair with Under-Inflated Tires**
Ian Denison

2:05 **The Effect of Tire Pressure on Wheeling Efficiency**
Bonita Sawatzky

2:15 **Question and Answer period**

2:20 **Wheelchair Function and Exercise in Children with Spina Bifida**
Bonita Sawatzky

2:30 **Question and Answer period**

2:35 *Refreshment break and exhibits open*

SIMULTANEOUS PAPER SESSIONS ROOM 2

1:30 **Using Peer-Reviewed Literature to Justify Wheelchair Seating and Mobility Interventions**
Mark Schmeler, Rosemarie Cooper

1:40 **Seated Postural Control Measure Development**
Brigitte Gagnon

1:50 **Question and Answer period**

1:55 **Establishing Quantitative Criteria for a Seating and Mobility Assessment Waitlist**
Margaret McCuaig, Elizabeth Sebesta

2:05 **An Investigation Into Perceived Stress Levels Within The Confines Of Families With A Disabled Child**
Alan McAlpine

2:15 **Question and Answer period**

2:20 **The Effect of Corrective Seating on Arterial Saturation in 3 Adults with Severe Developmental Disabilities: A Single Subject Design**
Jo-Anne Chisholm, Lydia Phillips, Joanne Yip

2:30 **Question and Answer period**

2:35 *Refreshment break and exhibits open*

3:20 INSTRUCTIONAL SESSIONS GROUP C

C1 **Self-Initiated Mobility is the Way To Go**
Richard Escobar, Sharon Leslie, Christine Wright
Audience: *All levels*

Experiences from a NIDRR grant funded project on developing a new type of walker for very young children will be presented. Implications of using various alternative mobility devices (supported walkers, gait trainers, Go-Bot, Mini-Bot) with children and young adults will be shared through videotapes and slides.

C2 **Understanding the Relationship Between Drive Wheel Position and Input Device Selection**

M Elizabeth Walsh, Shari Schubert

Audience: *Intermediate*

This session is designed to provide an understanding of the importance of selecting the appropriate drive wheel position based on the type of input device the end user will be utilizing. The difference between proportional and non-proportional input devices and the affect of drive wheel position on maneuvering with a non-proportional versus a proportional input device will be covered.

C3 **The Ultimate Power Trip: Use of Power Mobility - Developing Criteria to Determine Choice**

Sheila Buck

Audience: *Beginner*

This session will review the prescription and use of scooters and low-end power through to high-end rehab. Criteria will be developed to determine drive wheel placement, electronics and frame style. Seating enhances driving performance and will be reviewed with emphasis on prevention as well as future adjustability.

C4 **Establishing a Quantitative Criteria for a Seating and Mobility Assessment Waitlist**

Margaret McCuaig, Elizabeth Sebesta

Audience: *All levels*

This session will provide participants with a tool developed by the OT/PT at The Lodge at Broadmead to manage substantial and ongoing waitlists for seating and mobility assessment and prescription. Participants will be introduced to the tool, the conceptual framework used to develop the criteria, and methods to modify the tool for other settings.

SYMPOSIUM *Program*

C5 Power Wheelchairs - A New Definition

Doug Gayton, Ian Denison

Audience: *Intermediate*

This workshop will give a new understanding of the relative merits and limitations inherent in the various configurations of wheelchairs available to consumers. Participants will leave with information that will improve abilities to match consumer needs to chair performance.

C6 Molded Seating: Where Do I Start?

M Mary Isaacson

Audience: *Advanced*

This session outlines the steps required to facilitate a successful molded seating system and how to overcome common molding mistakes. Also addressed will be the use of direct digitizing technology to enhance the molded shapes.

4:20 Changeover period

4:30 INSTRUCTIONAL SESSIONS D

D1 Using Peer-Reviewed Literature to Justify Wheelchair Seating and Mobility Interventions

Mark Schmeler, Rosemarie Cooper

Audience: *Intermediate*

Documenting the need for wheelchair intervention requires strong justifications on the part of the clinicians. This session will review the various levels of evidence that exist in literature and in practice. Examples of existing evidence will be shared in the form of sample statements used in Letters of Medical Necessity.

D2 Recipe for a Wheelchair Prescription: Spina Bifida in the New Millennium

Gloria Leibel, Linda Patrick, Kathryn Fisher

Audience: *Intermediate*

Clinicians involved in the prescription of seating and mobility equipment need to be aware of their clients' current and future needs. From working with the critical mass of clients with a diagnosis of spina bifida, certain trends have become obvious to clinicians. In this presentation we will use the concept of evidence-based practice in order to develop guidelines when prescribing a wheelchair for a client with Spina Bifida.

D3 Performance: It's Not A Dirty Word

M Tina Roesler, Marty Ball

Audience: *Intermediate*

Many clinicians and rehab technology suppliers have often narrowed their focus on seating and postural support components by simply choosing a frame based on cost and the ability to interface with the chosen seating and positioning pieces. While in the past, performance chairs have been virtually synonymous with sports chairs, there is a growing need and demand for chairs that 'perform' on a day-to-day basis. This session will focus on the availability of performance wheelchairs and their applications across a continuum of settings.

D4 Establishing a Wheelchair and Seating Equipment Capital Replacement Plan for a Multi-Site Organization

Guylaine Desharnais, Erin Crawford

Audience: *Beginner*

The purpose of this workshop is to share experiences initiating and successfully implementing a Capital Replacement plan for the purchase of wheelchairs and seating equipment for a multi-site organization, representing approximately 900 wheelchair users. The objectives for this

D5 Paediatric Powered Mobility and Young Children: A Program of Research

Jan Furumasu, Donita Tefft, Paula Guerette

Audience: *Beginner*

This workshop will review a program of research conducted by the RERC at Rancho Los Amigos National Rehabilitation Center involving young children and powered mobility over the last 10 years and introduce another project to be conducted over the next 5 years. The results of the first project demonstrated that young children with an understanding of problem solving and spatial relations between the 24-30 month level were able to safely maneuver a powered wheelchair through basic and community-type skills.

D6 How Direct Digitizing Technology Can Enhance Molded Seating Shapes

M Todd M. Dinner

Audience: *Advanced*

The participants will understand how molded shapes are digitized from the molding frame. A demonstration will be given showing how these shapes can be enhanced to maximize the sitting tolerance, increase the pressure relief capabilities and to accommodate other materials used in off-the-shelf seating.

5:30 Adjourn

Saturday March 9, 2002

8:30 *Registration and Continental Breakfast available*

9:00 INSTRUCTIONAL SESSIONS E

E1 Research 101: Getting Started in Clinical Research

Francine Miller, William Miller, Jan Miller Polgar

Audience: *Beginner*

This interactive workshop will assist participants in getting started with clinical research. It is aimed at clinicians who want to do research but feel they don't have the skills or the time. We will describe the research process, then focus on the preliminary stages of reviewing the literature, building the team and developing the research question.

E2 Power Mobility for the Client with Osteogenesis Imperfecta

Jenny Massimino, Kristin Langewisch Abboud, Ann Eubank

Audience: *Intermediate*

This presentation will detail the importance of using powered mobility for pediatric clients. Specifically, we will investigate the use of powered mobility matching the clients' functional needs and goals while focusing on the pediatric osteogenesis imperfecta population.

E3 You've Picked the Right Frame; Now Don't Stop There!

M Shari Schubert

Audience: *Beginner*

Picking the right manual wheelchair frame is only half the battle. Maximizing mobility comes from adjusting the axle position and choosing the right wheel/caster packages. It is not as straightforward as it seems!

E4 Specialty Sport Chairs: From Fear to Fun

M William Lehr

Audience: *Intermediate*

Learn the difference between recreational and performance equipment; learn various seating positions and ordering and measuring techniques.

SYMPOSIUM *Program*

E5 The Importance of 24 Hour Positioning

M Trudie Read

Audience: *Beginner*

Everyone knows the necessity of a good night's sleep, however this is yet to be a promoted area for individuals with a physical disability, and their caregivers. This session will cover the psychological and physiological importance of sleep, and the need for 24hr functional positioning with discussion of suitable devices.

10:00 *Refreshment break and exhibits open*

SIMULTANEOUS PAPER SESSIONS ROOM 1

10:45 The Development of Client-Centred Guidelines for Power Mobility Safety

Jeanette Boily, Ben Mortenson

10:55 Power Mobility Assessment in the Community: Assessing the Driver

Cathy Brighton

11:05 Question and Answer period

11:10 Development Of An Observational Checklist For Assessing Head Position And Head Movement In Children With Severe Cerebral Palsy: Preliminary Reliability Testing (Normal Children)

Cheryl Honeycombe

11:20 Perspectives on Head Positioning for Children With Severe Cerebral Palsy Who Find It Difficult to Maintain an Upright Head Position (Child, Parent & Teacher)

Cheryl Honeycombe

11:30 Questions and Answer period

11:35 Results of a Post-Surgical Survey of Baclofen Pump Users

Susan Johnson-Taylor

11:45 Question and Answer period

SIMULTANEOUS PAPER SESSIONS ROOM 2

10:45 Cross Validation of the Functional Evaluation in a Wheelchair (FEW) and Consumer Goals

Tamara Mills

10:55 Evaluating the Comprehensiveness/Effectiveness of Seating and Wheelchair Prescription: A Validity Test of A Clinical Rationale Measure

Laura Cohen

11:05 Question and Answer period

11:10 The Importance of Comfort to Wheelchair Users - A Preliminary Study

Barbara Crane

11:20 Value Received From Recycling Motorized And Wheeled Devices

Jocelyne Tremblay, Marcel Côté

11:30 Question and Answer period

11:35 Measurement of Cushion Interface Pressure Using the Proposed New Wheelchair Seating Standards

Allen Siekman, Peter Axelson

11:45 Weight Bearing Distribution in Supported Standing - Indications and Precautions

Jill Sparacio, Tina Roesler

11:55 Question and Answer period

12:00 Positioning for the Spirit and Soul: When Work Becomes Our Religion

C. Kerry Jones

12:20 Closing Remarks

Stephen Tredwell

ASSOCIATED ACTIVITIES FOLLOWING THE SYMPOSIUM:

RESNA Credentialing Examinations

March 9, 1:30pm

Contact *Chastity Mosher, RESNA, for registration information: cmosher@resna.org, call +1(703) 524-6686 (ext.311) or visit RESNA's website at www.resna.org/certify/index.html*

WG11 Group Meeting

March 9, 10, 11

SYMPOSIUM *Faculty*

PLANNING COMMITTEE:

Lori Roxborough (Chair) MSc. (OT/PT), Sunny Hill Health Centre for Children, Vancouver, BC

David Cooper, MSc. (Kines.), Custom Seating Technician, Priority Systems; and Rehabilitation Engineer, Sunny Hill Health Centre for Children, Vancouver, BC

Elaine Liao, Director, Interprofessional Continuing Education, University of British Columbia, Vancouver, BC

Maureen Story, BSR (PT/OT), Seating Therapist, Sunny Hill Health Centre for Children; and Access Community Therapists Ltd., Vancouver, BC

Stephen Tredwell, MD, FCSC, Head, Department of Orthopedics, BC Children's Hospital; and Clinical Associate Professor, Department of Orthopaedics, University of British Columbia, Vancouver, BC

SYMPOSIUM PRESENTERS:

Barry Seeger, Ph.D, Director, Regency Park Rehabilitation Engineering, Regency Park, South Australia

Elaine Antoniuk, BSc. PT, Seating Therapist, Sunny Hill Health Centre for Children, Vancouver, BC

Peter Axelson, Director of Research and Development, Beneficial Designs, Inc.; and Chair, RESNA Technical Standards Board, Minden, NV

Marty Ball, Vice President of Sales, Ti Sports LLC, Kennewick, WA

Ingrid Barlow, M.Sc.OT, Department of Occupational Therapy, Glenrose Rehabilitation Hospital, Edmonton, AB

Jeanette Boily, Clinical Practice Leader, Occupational Therapy, George Pearson Centre, Vancouver Hospital and Health Sciences Centre, Vancouver, BC

Cathy Brighton, BSc.OT, Occupational Therapist; and Consultant, Veterans' Affairs Canada, North Vancouver, BC

Gordon Broughton, Seating Technologist. Sunny Hill Health Centre for Children, Vancouver, BC

Sheila Buck, BSc., OT. Reg(Ont), ATP, Occupational Therapist and Owner, Therapy Now! Inc, Milton, ON

Karen Campbell, Nurse Practitioner/Clinical Nurse Specialist, Parkwood Hospital, London, ON

Jo-Anne Chisholm, MSc, RHSC, Reg.OT(BC), Director and Occupational Therapist, Access Community Therapists Ltd., Vancouver, BC

Laura Cohen, PT, ATP, Research Associate, VA Human Engineering and Research Laboratory, University of Pittsburgh, PA

David Cooper, see *Symposium Planning Committee*

Rosemarie Cooper, MS, PT, Centre for Assistive Technology, UPMC Health System and Department of Rehabilitation, Science and Technology, University of Pittsburgh, PA

Marcel Côté, Program Management Advisor and Recycling Coordinator, Québec Health Insurance Board, Sillery, QC

Barbara Crane, MA, PT, ATP, Research Associate, Department of Rehabilitation Science and Technology, University of Pittsburgh, PA

Ian Denison, PT, ATP, Equipment Specialist, GF Strong Rehab Centre, Vancouver/Richmond Health Board, Vancouver, BC

Guylaine Desharnais, BSc.OT, Occupational Therapist, Banfield Pavillion, Vancouver General Hospital, Vancouver, BC

Mark Dilabio, Seating Technologist. Sunny Hill Health Centre for Children, Vancouver, BC

Todd Dinner, President, Signature 2000, North East, PA

SYMPOSIUM *Faculty*

SYMPOSIUM PRESENTERS (continued):

Janice Duvestein, BSR (OT/PT), Section Head, Occupational Therapy Department, Sunny Hill Health Centre for Children, Vancouver, BC

Marnie Eastman, BSc, PT, MSc., Physiotherapist, Sunny Hill Health Centre for Children, Vancouver, BC

Catherine Ellens, BSc, OT, Occupational Therapist, Sunny Hill Health Centre for Children, Vancouver, BC

Richard Escobar, ATP, Rehab Technologist, Rehab Technology Research Projects, Lucile Packard Children's Hospital at Stanford, Palo Alto, CA

Ann Eubank, OTR, ATP, Permobil, Inc., St. Louis, MO

Kathryn Fisher, B.Sc.OT, ATS, OT(C) Reg (Ont.), Occupational Therapist, Therapy Supplies and Rental Ltd., Toronto, ON

Cynthia Fleck, RN, BSN, ET, CWS, Director of Global Training and Education, The ROHO Group, Belleville, IL; and Board-Certified Wound Specialist

Jan Furumasa, PT, ATP, Center for Applied Rehabilitation Technology (CART), Rancho Los Amigos National Rehabilitation Hospital, Downey, CA

Brigitte Gagnon, OT, Québec Rehabilitation Institute (IRDPQ); and Masters Student, Centre for Interdisciplinary Research in Rehabilitation and Social Integration, Laval University, QC

Doug Gayton, ATP, Assistive Technology Service, GF Strong Rehab Centre, Vancouver/Richmond Health Board, Vancouver, BC

Alice Goldwyn, MSc, BEng, Clinical Engineer, Chailey Heritage Clinical Services, East Sussex, England

Kristen Goodman, Coordinator, Ambulatory Care, Parkwood Hospital, London, ON

Paula Guerrette, PhD, Center for Applied Rehabilitation Technology (CART), Rancho Los Amigos National Rehabilitation Hospital, Downey, CA

Wayne Hanson, Director of Advanced Product Development for Pediatrics, Sunrise Medical, Bozeman, MT

Karen Hardwick, Ph.D., OTR, FAOTA, Director, Habilitation Therapies, Austin State School, Texas Department MHMR; and Discipline Coordinator - Physical; Nutritional Management, TDMHMR, Austin, TX

Cheryl Honeycombe, BSc(Hons), DipCOT, Research Fellow, The School of Health Professionals and Rehabilitation Sciences, University of Southampton, England

Mary Isaacson, MA, OTR/L, ATP, Principal, Adaptabilities, Tulsa, OK

Susan Johnson-Taylor, OTR/L, Resource Clinician, Seating and Mobility Clinic, Rehabilitation Institute of Chicago, IL

C. Kerry Jones, The Space Between, Edwardsburg, MI

Karen Kangas, OTR/L, Occupational Therapist, Clinical Educator, and Practising Clinician and Consultant in private practice, Shamokin, PA

David Keast, Family Medicine, Parkwood Hospital, London, ON

Kay Koch Hurst, OTR/L, ATP, Assistive Technology Program, Children's Healthcare of Atlanta; and Marketing, Education and Training, Mobility Designs, Atlanta, GA

Elaine Koh Beck, NZRP, MAPA (NSW, Australia), Senior Physical Therapist, Seating Clinic, Tan Tock Seng Hospital Rehabilitation Centre, Singapore

David Kreutz, PT, Coordinator, Seating and Mobility Clinic, Shepherd Center, Atlanta, GA

Kristin Langewisch Abboud, OTR/L, Shriners Hospitals for Children, St. Louis, MO

William Lehr, ATS, Education Specialist, Sunrise Medical, New York, NY

Gloria Leibel, BSc, PT, Physiotherapist, Bloorview Macmillan Children's Treatment Centre, Toronto, ON

Sharon Leslie, MS, PT, Physical Therapist, Rehab Technology Research Projects, Lucile Packard Children's Hospital at Stanford, Palo Alto, CA

Simon A. Margolis, CO, ATS/P, Vice President for Clinical and Professional Development, National Seating and Mobility, Inc., Plymouth, MN

Jenny Massimino, MPT, Shriners Hospitals for Children, St. Louis, MO

Alan McAlpine, M.Phil., Chief Medical Technical Officer, Department of Medical Physics and Clinical Engineering, Morriston Hospital, Swansea, Wales

Margaret McCuaig, MA, OT, HSCL Rehabilitation Consultant, Health and Disability Support Services, Prevention and Health Promotion Division, Ministry of Health, Province of BC, Victoria, BC

Rachael McDonald, Institute of Child Health and Great Ormond Street Hospital for Children NHS Trust, London, England

Patrick Meeker, MS, PT, Regional Clinical Specialist, The ROHO Group, Belleville, IL

William Miller, PhD, OT, Assistant Professor, University of British Columbia; and Vancouver, Hospital and Health Sciences Centre, Vancouver, BC

Francine Miller, BSc, OT, Access Community Therapists Ltd., Coquitlam, BC

Jan Miller Polgar, PhD, Associate Professor, School of Occupational Therapy, University of Western Ontario, London, ON

Tamara Mills, MS, OTR/L, Research Associate, Department of Rehabilitation Science and Technology, University of Pittsburgh, PA

Jean Minkel, PT, Principal, Minkel Consulting, New Windsor, NY

Brenlee Mogul-Rotman, B.Sc.OT, OTR, ATP, OTRReg (Ont.), Toward Independence, Richmond, ON

Susan Moir, BSc.OT, Occupational Therapist, Parkwood Hospital Seating Program, London, ON

Ben Mortenson, Clinical Practice Leader, Occupational Therapy, Purdy Pavilion ECU, Vancouver Hospital and Health Sciences Centre, Vancouver, BC

Cathy Mulholland, OTR, Clinical Educator, Mulholland Positioning Systems Inc., Santa Paula, CA

Maureen O'Donnell, MD, MSc, FRCPC, Head and Assistant Professor, Division of Developmental Paediatrics, Department of Paediatrics, University of British Columbia, Vancouver, BC

Nancy Ong Guek Ing, OTR, ATP, Senior Occupational Therapist, Seating Clinic, Tan Tock Seng Hospital Rehabilitation Centre, Singapore

Linda Patrick, BSc, PT, Physiotherapist, Bloorview Macmillan Children's Treatment Centre, Toronto, ON

Lydia Phillips, BSc.OT, Reg. OT(BC), Community OT, Access Community Therapists, Vancouver, BC,

Teresa (Terry) Pountney, MA MCSP SRP, Research Physiotherapist, Chailey Heritage Clinical Services, East Sussex, England

Trudie Read, OTR/L, Education Specialist, Bodypoint Designs Inc., Seattle, WA

Chris Reilly, MD, FRCSC, Orthopaedic Surgeon, Children's and Women's Health Centre of British Columbia, Vancouver, BC

Mark Richard, Manager, Hope Haven International Ministries, Rock Valley, IA

Tina Roesler, MS, PT, ABDA, International Clinical Operations Manager, The ROHO Group, Belleville, IL

Lori Roxborough, see Symposium Planning Committee

Bonita Sawatzky, PhD, Assistant Professor, Department of Orthopaedics, University of British Columbia, Vancouver, BC

Mark R. Schmeler, M.S., OTR/L, ATP, Centre for Assistive Technology, UPMC Health System and Department of Rehabilitation, Science and Technology, University of Pittsburgh, PA

Shari Schubert, ATS, Rehab Education Specialist, Sunrise Medical, Longmont, CO

Martin Seabrook, BA, Design Engineer, Active Design Ltd, Birmingham, United Kingdom

Elizabeth Sebesta, OT, Rehab Services, The Lodge at Broadmead, Victoria, BC

Allen Siekman, Beneficial Designs, Inc., Santa Cruz, CA

Jill Sparacio, OTR/L, ATP, ABDA, Principal, Sparacio Consulting Services, Downer's Grove, IL

Robert Stickney, Seating Technologist, Sunny Hill Health Centre for Children, Vancouver, BC

Maureen Story, see Symposium Planning Committee

Donita Tefft, MA, CCC-SP, Center for Applied Rehabilitation Technology (CART), Rancho Los Amigos National Rehabilitation Hospital, Downey, CA

Jocelyne L. Tremblay, Director, Out-Of-Province and Technical Aids Program Branch, Québec Health Insurance Board; and Steering Committee Member, Agency for Health Services and Technology Assessment, Sillery, QC

Karen Trenholm, Physiotherapist, Parkwood Hospital Seating Program, London, ON

Bart Van der Heyden, PT, European Training and Education Manager, The Roho Group, Destelbergen, Belgium

Elizabeth Walsh, OTR, ATP, Education Specialist, Sunrise Medical, Longmont CO

Nicole Wilkins, BSc.OT, Occupational Therapist, Sunny Hill Health Centre for Children, Vancouver, BC

Christine Wright, MPA, OTR, Occupational Therapist; and Principal Investigator, TOT Walker NIDRR Project, Lucile Packard Children's Hospital at Stanford, Palo Alto, CA

Joanne Yip, BSR, OT/PT, GF Strong Rehab Centre, Vancouver/Richmond Health Board, Vancouver, BC

PRE-SYMPOSIUM COURSES

Registration

REGISTRATION DEADLINE: February 25, 2002
 Registrations received after this date cannot be processed.
 On-site registration may be available, subject to space.

CLOSE TO THE REGISTRATION DEADLINE?
 Try our online registration at www.interprofessional.ubc.ca
 - it's fast, easy and secure!

Please type or print clearly
 One registration form per person. Please copy if more are needed.

DR. MR. MRS. MS. MISS.

 Last Name First Name Initials

 Organization Name/Mailing Address

 Mailing Address

 City & Country Prov/State Postal Code

 Daytime Telephone Number / Local Fax Number

AFFILIATION/PROFESSION:

(select only one)

- | | |
|---|---|
| <input type="checkbox"/> Consumer | <input type="checkbox"/> Occupational Therapist |
| <input type="checkbox"/> Engineer | <input type="checkbox"/> Physiotherapist |
| <input type="checkbox"/> Equipment Supplier | <input type="checkbox"/> Physician |
| <input type="checkbox"/> Nurse | <input type="checkbox"/> Student |
| <input type="checkbox"/> Technician | |
| <input type="checkbox"/> Other: _____ | (please specify) |

PRE-SYMPOSIUM SESSIONS:

If you are planning to attend Pre-Symposium information). Registrants to both the Pre-Symposium sessions and the main Symposium are offered discounted fees to the Pre-Symposium sessions*. See below.

Tuesday March 5, 2002	Pre-Symp. Only	With Main Symposium*
Seating for Clients with High Complexity Needs/1 day	<input type="checkbox"/> \$150	<input type="checkbox"/> \$130 (IN9507A)


Wednesday March 6, 2002 (1 day courses)	Pre-Symp. Only	With Main Symposium*
Sitting: An Early Intervention	<input type="checkbox"/> \$150	<input type="checkbox"/> \$130 (IN9507B)
Going Mobile: Powered Mobility Evaluation and Technology	<input type="checkbox"/> \$150	<input type="checkbox"/> \$130 (IN9507C)
Building Your Evidence-Based Practice Toolkit	<input type="checkbox"/> \$150	<input type="checkbox"/> \$130 (IN9507D)
Seating System Fabrication Techniques	<input type="checkbox"/> \$150	<input type="checkbox"/> \$130 (IN9507E)


TOTAL PRE-SYMPOSIUM REGISTRATION PAYMENT:

METHOD OF PAYMENT

Charge by Phone/Fax:
 Local/Outside BC: +1(604) 822-6156
 Toll free within BC: 1-877-328-7744
 Register by Fax: +1 (604) 822-4835

We do not accept American Express





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 Please make your cheque payable to the **University of British Columbia** and send to:
 Registration, Interprofessional Continuing Education,
 The University of British Columbia, Room 105 - 2194 Health Sciences Mall,
 Vancouver, BC, Canada V6T 1Z3

18th INT'L SEATING SYMPOSIUM

Registration

REGISTRATION DEADLINE: February 25, 2002
 Registrations received after this date cannot be processed.
 On-site registration may be available, subject to space.

CLOSE TO THE REGISTRATION DEADLINE?
 Try our online registration at www.interprofessional.ubc.ca
 - it's fast, easy and secure!

Please type or print clearly

One registration form per person. Please copy if more are needed.

DR. MR. MRS. MS. MISS.

 Last Name First Name Initials

 Organization Name/Mailing Address

 Mailing Address

 City & Country Prov/State Postal Code

 Daytime Telephone Number / Local Fax Number

AFFILIATION/PROFESSION:

(select only one)

- | | |
|---|---|
| <input type="checkbox"/> Consumer | <input type="checkbox"/> Occupational Therapist |
| <input type="checkbox"/> Engineer | <input type="checkbox"/> Physiotherapist |
| <input type="checkbox"/> Equipment Supplier | <input type="checkbox"/> Physician |
| <input type="checkbox"/> Nurse | <input type="checkbox"/> Student |
| <input type="checkbox"/> Technician | |
| <input type="checkbox"/> Other: _____ | (please specify) |

TUITION FEES

(All amounts quoted and payable in Canadian Dollars)

18TH INTERNATIONAL SEATING SYMPOSIUM (IN9508)

Individual Rates Before Feb 15, 02 After Feb 15, 02

- | | | |
|-----------------------------|--------------------------------|--------------------------------|
| Full Symposium (2 1/2 days) | <input type="checkbox"/> \$355 | <input type="checkbox"/> \$375 |
| Thursday, March 7 only | <input type="checkbox"/> \$185 | <input type="checkbox"/> \$195 |
| Friday, March 8 only | <input type="checkbox"/> \$185 | <input type="checkbox"/> \$195 |
| Saturday, March 9 only | <input type="checkbox"/> \$ 95 | <input type="checkbox"/> \$ 95 |

I will attend the reception on
 Thursday March 7 Yes No

TOTAL PAYMENT ATTACHED: _____

INSTRUCTIONAL SESSIONS:

Number all sessions in each set in the order of preference (1=most preferred). Titles have been abbreviated for space.

INSTRUCTIONAL SESSIONS GROUP A

- A1 Measuring the Clinical Utility
- A2 Recipe for Success
- A3 The Chailey Approach
- A4 Seating for Task Performance
- A5 Dynamic Seating and Positioning

INSTRUCTIONAL SESSIONS GROUP C

- C1 Self-Initiated Mobility
- C2 Understanding the Relationship
- C3 The Ultimate Power Trip
- C4 Establishing a Quantitative Criteria
- C5 Power Wheelchairs
- C6 Molded Seating

INSTRUCTIONAL SESSIONS GROUP E

- E1 Research 101
- E2 Power Mobility for the Client with OI
- E3 You've Picked The Right Frame
- E4 Specialty Sports Chairs
- E5 Importance of 24Hr Positioning

INSTRUCTIONAL SESSIONS GROUP B

- B1 Delivering Seating and Mobility
- B2 Mobility and Wound Management
- B3 Why It Didn't Work
- B4 Stand Up and Function!
- B5 Sitting Biomechanics
- B6 Key Prevention Strategies

INSTRUCTIONAL SESSIONS GROUP D

- D1 Using Peer-Reviewed Literature
- D2 Recipe for a Wheelchair Prescription
- D3 Performance Is Not A Dirty Word
- D4 Establishing a Wheelchair and Seating
- D5 Paediatric Powered Mobility
- D6 Direct Digitizing Technology

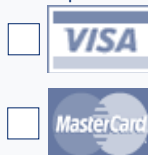
**PRE-SYMPOSIUM REGISTRATION
 FORM IS ON REVERSE**

METHOD OF PAYMENT

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 Vancouver, BC, Canada V6T 1Z3