



ASSOCIATION OF CHILDREN'S PROSTHETIC-ORTHOTIC CLINICS ANNUAL MEETING

**Joint Meeting with the American Academy
of Orthotists & Prosthetists**

**March 16-19, 2005
Disney's Coronado Springs Resort
Orlando, Florida**

ACPOC Program Committee:

Michael L. Schmitz, MD
Robin C. Crandall, MD
Robert D. Lipschutz, CP

ACPOC Local Hosts:

Janet G. Marshall, CPO
Rene van Wieringen, PT
Shriners Hospitals for Children
Tampa, Florida

Dear ACPOC Members,

Shriners Hospitals for Children Tampa is pleased to be the host of the 2005 Annual ACPOC Meeting in Orlando, Florida. After surviving the hurricane season, we are expecting the typical sunny blue skies to greet our guests. For the first time ever, we are co-locating our meeting with the American Academy of Orthotists and Prosthetists (AAOP) which will offer the venue of two meetings for the price of one!! Both organizations are committed to quality presentations and encourage all attendees to sample both without additional costs. The exhibitors will be centrally located to make it convenient to visit during breaks. Some lunches and breakfasts are included with the registration fee.

Some of the highlights of this ACPOC Annual Meeting:

- Three days of exhibits and posters
- Three days of quality scientific presentations
- Choices of several technical and clinical workshops
- Special guest speakers
- Opportunity to network with our multidisciplinary membership

The accommodations at Disney's Coronado Springs Resort are superb at a reduced rate, so reserve early. The location places you in the center of Orlando's internationally renowned theme parks including Disney World, Sea World, and Universal Studios.

We look forward to seeing you this Spring, ready for an educational and fun meeting!

The Shriners Hospital for Children Tampa Team

This program is preliminary and subject to change.

OBJECTIVES OF THE 2005 ACPOC MEETING

The objectives of this annual meeting are to present and evaluate new ideas, techniques and methodology and treatment of children with limb deficiencies, and to provide the participants with an opportunity to clinically evaluate and directly interact with proponents of new research knowledge pertinent to the management of these children. Participants will be able to hear presentations in a variety of formats including paper presentations, posters, symposia, and special presentations. Additionally, there will be an opportunity for speakers to present challenging cases to the membership for advice. A workshop format is also used to develop new approaches and ideas to difficult or unsolved problems.

WHO SHOULD ATTEND?

Attendees will find the ACPOC Annual Meeting a necessary forum to enhance their continuing education in working with orthopaedically challenged children. Physicians, nurses, orthotists, prosthetists, social workers, rehabilitation engineers, physical and occupational therapists, and other health professionals who care for children with orthopaedic and related disabilities will benefit from the exchange of ideas with their colleagues.

SCIENTIFIC WORKSHOPS

Workshops will be held from 1:30 – 4:30 pm on Wednesday, afternoon, March 16. Registration for these sessions is limited and on a first-come, first-served basis. Please list your workshop preference in order of priority.

Workshop A is designed to be an overview of the current methods and designs of prosthetic knee units being utilized. The intended audience of this workshop is physical therapists and physicians who are in need of a thorough introduction of prosthetic knee units and how they are best utilized for specific patient populations. Physical therapists and prosthetists with experience fitting individuals with transfemoral amputations may also benefit from this review.

Workshop B will explore, discuss, generate, and compile child and family friendly educational materials used for general limb deficiency and diagnostic-specific PT/OT education. Participants will be asked to bring any relevant

programs, protocols, handouts, videos, books, products (or lists of) that are used frequently and successfully. We will discuss systems for providing these resources (loan, purchase, list, library) as well as timing and best ways to present.

SPECIAL SPEAKERS

Presidential Guest Speakers

The Presidential Guest Speakers will be Randal R. Betz, MD, Chief of Staff at the Shriners Hospital for Children in Philadelphia, PA. and M. J. Mulcahey, MS, OTR/L. They will discuss Electrical Stimulation and Bracing Issues.



Hector Kay Lecture

The Hector Kay Lecturer will be Peter F. Armstrong, MD, FRCSC, FACS, FAAP, Director of Medical Affairs for the Shriners Hospitals For Children.

JOINT SYMPOSIA

Thursday, March 17 • Cerebral Palsy/Spasticity

Janet Lombardo, CPO, MBA; Michael L. Schmitz, MD; Katie Ennis, CO, MBA; Colleen Coulter-O'Berry, PT, MS, PCS

Children's Healthcare of Atlanta will present interdisciplinary strategies for the management of spasticity in children with Cerebral Palsy. Content includes the implications and impact of conservative, surgical, orthotic and physical therapy treatment options. Considerations for outcome oriented decision making and treatment plan development will be discussed

Friday, March 18 • Proximal Femoral Focal Deficiency

Robin C. Crandall, MD; Robert Lipschutz, CP; Hugh Watts, MD; J. Ivan Krajbich, MD

Some of the most challenging congenital limb deficiencies are the various forms of proximal femoral focal deficiency (PFFD). This 90 minute symposium will comprehensively discuss diagnostic and treatment options with respect to the multiple types of PFFD. Surgical and prosthetic options will be discussed in detail with emphasis not only on satisfactory outcomes but complications.

Programming Note: The presenter names in bold type are the primary presenters for the session.

TUESDAY • March 15, 2005

3:00 pm – 5:00 pm REGISTRATION

WEDNESDAY • March 16, 2005

7:00 am – 7:00 pm REGISTRATION

SCIENTIFIC WORKSHOPS

8:30 am – 11:30 am A: Prosthetic Knee Workshop
Robert D. Lipschutz, CP

1:30 pm – 4:30 pm B: The Search for the Perfect Handouts
Julie Honeycutt, PT

6:00 pm – 7:30 pm **ACPOC & ACADEMY
WELCOME RECEPTION**
Exhibit Hall

THURSDAY • March 17, 2005

7:00 am – 5:00 pm REGISTRATION

7:00 am – 8:00 am CONTINENTAL BREAKFAST

8:00 am – 11:00 am JOINT SESSION

8:00 am – 8:45 am **Welcome, Awards, Fellow
Introduction**

8:45 am – 9:30 am **HECTOR KAY LECTURE**
Introduction:
Kenneth J. Guidera, MD

Director of Medical Affairs, Shriners
Hospitals for Children
Peter F. Armstrong, MD

9:30 am – 11:30 am **THRANHARDT LECTURES**
See AAOP program, page 10, for
details

11:00 am – 4:30 pm EXHIBITS OPEN

11:30 am – 1:00 pm LUNCH
Exhibit Hall

1:00 pm – 2:30 pm

JOINT SYMPOSIUM

Cerebral Palsy/Spasticity

Janet Lombardo, MBA, CPO

Michael Schmitz, MD

Katie Ennis, CO, MBA

Colleen Coulter-O'Berry, PT, MS, PCS

2:30 pm – 3:00 pm

ACPOC & AAOP JOINT BREAK

Exhibit Hall

3:00 pm – 4:30 pm

SCIENTIFIC PAPER SESSION I

Moderator: Joel Lerman, MD

3:00 pm - 3:10 pm

Paper #1

Adult Outcomes in Fibular
Deficiency Following Amputation or
Lengthening

Janet Walker, MD

Dwana Knapp

Christin Minter

Juan Carlos Salazar

James O. Sanders, MD

John P. Lubicky, MD

David M. Drvaric, MD

Jon R. Davids, MD

3:10 pm – 3:15 pm

DISCUSSION

3:15 pm - 3:25 pm

Paper #2

Amputation Due to Meningococcae
Sepsis

Georg Neff, MD

3:25 pm – 3:30 pm

DISCUSSION

3:30 pm - 3:40 pm

Paper #3

Comparison of Two Dynamic Foot
Orthoses on Children with Delayed
Gross Motor Skills

Valerie C. Wondra, MS

Kenneth H. Pitetti, PhD

3:40 pm – 3:45 pm

DISCUSSION

3:45 pm - 3:55 pm

Paper #4

Temperature Differences in a
Ventilated and Non-ventilated
Transtibial Socket

Steven Thomsen, CP

James N. Athearn, CO

George Gorton, III

Kelly Anne McKeown, MS

David Drvaric, MD

3:55 pm – 4:00 pm	DISCUSSION		Moderator: <i>Colleen Coulter-O’Berry, PT</i>
4:00 pm - 4:10 pm	Paper #5 The Effect of Gel Padding on Pressure Distribution in Ankle Foot Orthoses <i>Patricia Lawrence, MD</i> <i>Linda Fieback, MA</i> <i>Andrew Cinque, CPO</i> <i>Xiaofang Wei, MD</i> <i>Angela D’Alessandro, MD</i> John Rossi, BS <i>Heather Onorato, ATC</i> <i>Steven Lichtman, EdD</i>	9:00 am - 9:10 am	CS #1 Prosthesis for Caudal Regression Syndrome Sherryl D. Nash, BA,BS
4:10 pm – 4:15 pm	DISCUSSION	9:10 am – 9:15 am	DISCUSSION
4:15 pm - 4:25 pm	Paper #6 Comparative Pilot Study on the Effects of Twister Cables Versus Derotational Straps on Gait Parameters. Rene van Wieringen, PT <i>Edward Quigley, PhD</i> <i>David Fritz, BS, ME, MS, PO</i> <i>Tristan Seley, BS</i> <i>Jennifer Jenkins, PT</i> <i>Ron E. Gingras, CPO</i> <i>Dennis Grogan, MD</i>	9:15 am - 9:25 am	CS #2 A Unique Approach to Ambulation for the More Severely Involved Child with Osteogenesis Imperfecta Janet S. Noland, MPT <i>Jonathan Heifetz, CO</i>
4:25 pm – 4:30 pm	DISCUSSION	9:25 am – 9:30 am	DISCUSSION
		9:30 am - 9:40 am	CS #3 Treatment of Craniopagus Twins with Cranial Remodeling Bands Timothy R. Littlefield, MS <i>Jeanne K. Pomatto, CO, BOC</i>
		9:40 am – 9:45 am	DISCUSSION
		9:45 am - 9:55 am	CS #4 Management of the Newborn Cervical Spine Jeffrey A. Nemeth, CPO
		9:55 am – 10:00 am	DISCUSSION
FRIDAY • March 18, 2005		10:00 am - 10:10 am	CS #5 Alternate fitting solutions for the difficult neurological client requiring ankle foot orthosis intervention Donna Ryder, BSc <i>Eugene Banziger, CPO</i>
7:00 am – 5:00 pm	REGISTRATION	10:10 am – 10:15 am	DISCUSSION
8:00 am – 9:00 am	PRESIDENTIAL GUEST LECTURE Introduction: <i>Kenneth J. Guidera, MD</i> Electrical Stimulation and Bracing Issues <i>Randal R. Betz, MD</i> Chief of Staff of Shriners Hospitals for Children - Philadelphia <i>M. J. Mulcahey, MS, OTR/L</i> Shriners Hospital Rehabilitation & Clinical Research	10:00 am – 4:00 pm	EXHIBITS OPEN
		10:15 am – 10:30 am	Break in the Exhibit Hall
9:00 am – 10:15 am	CREATIVE SOLUTION SESSION I	10:30 am – Noon	JOINT SYMPOSIUM Proximal Femoral Focal Deficiency: A Combined Symposium Robert L. Lipschutz, CP Robin C. Crandall, MD Hugh G. Watts, MD J. Ivan Krajbich, MD

12:00 Noon – 1:00 pm	LUNCH Exhibit Hall	3:00 pm – 3:30 pm	ACPOC & AAOP JOINT BREAK Exhibit Hall
1:00 pm – 2:00 pm	MEMBER BUSINESS MEETING	3:30 pm – 4:30 pm	CHALLENGING CASE PRESENTATIONS Moderator: Mary W. Clark, MD
2:00 pm – 3:00 pm	SCIENTIFIC PAPER SESSION II Moderator: Noella Shorgan, PT	3:30 pm - 3:40 pm	CCP #1 Management of Focal Gigantism by Foot Ablation, Distal BK Amputation and Osteocartilaginous “Capping” of Tibia and Fibula: A Challenging Case Presentation Robin C. Crandall, MD
2:00 pm - 2:10 pm	Paper #7 Use of Prostheses by Children with Myelodysplasia and Lower Extremity Amputations Rodney K. Alan, MD <i>Jean Brown, MS, RN</i> <i>Linda Pugh, BS</i> <i>Peter Stasikelis, MD</i>	3:40 pm – 3:45 pm	DISCUSSION
2:10 pm – 2:15 pm	DISCUSSION	3:45 pm - 3:55 pm	CCP #2 Timing and Decision Making in a Child with Arthrogryposis and Unilateral Congenital Knee Disarticulation <i>Loren J Decker, MA</i> Ann C Modrcin, MD
2:15 pm - 2:25 pm	Paper #8 Development and Clinical Testing of a New Stance-phase Controller for Paediatric Prosthetic Knee Joints Jan Andrysek, MASc <i>Stephen Naumann, PhD</i> <i>William Cleghorn, PhD</i>	3:55 pm – 4:00 pm	DISCUSSION
2:25 pm – 2:30 pm	DISCUSSION	4:00 pm - 4:10 pm	CCP #3 Overcoming Physical Barriers To Obtain Independent Power Mobility <i>Nick Hurst, Seating Specialist Suzanne Weiss, MSC, CCC-SLP</i> Michael Bobala
2:30 pm - 2:40 pm	Paper #9 Gross Motor Activities of Daily Living as a Means of Assessing Prosthetic Function Martha P. Ross, BSc, Eng <i>Edmund N Biden, PhD</i> <i>Victoria Chester, PhD</i> <i>Wendy Hill, BSc, OT</i> <i>Greg Bush, CP(c)</i> <i>Maureen Tingly, PhD</i> <i>Laura Brown</i>	4:10 pm – 4:15 pm	DISCUSSION
2:40 pm – 2:45 pm	DISCUSSION	4:15 pm - 4:25 pm	CCP #4 Amputation-First Step To A Better Quality Of Life Owen A. Larson, CP
2:45 pm - 2:55 pm	Paper #10 ATL Plagiocephaly and Photo Rating Study Michael L Schmitz, MD <i>Laura Plank, CPO</i> <i>Aaron Smith, CPO</i>	4:25 pm - 4:30 pm	DISCUSSION
2:55 pm – 3:00 pm	DISCUSSION	SATURDAY • March 19, 2005	
		7:00 am – 3:00 pm	REGISTRATION
		8:00 am – 9:00 am	SYMPOSIUM Etiology and Management of Chronic Wounds and Ulcers Kenneth J. Guidera, MD Heidi Stephens, MD; Jackie Frost, RN, BSN

9:00 am – 9:30 am	ACPOC MEMBER BUSINESS MEETING	1:25 pm – 1:30 pm	DISCUSSION
9:00 am – 11:00 am	JOINT ACPOC & AAOP BRUNCH Exhibit Hall	1:30 pm - 1:40 pm	CS #8 Upper Limb Prosthetic Experience with Cornella de Lang Syndrome <i>J Thomas Andrew, CP</i>
11:00 am – 12:45 pm	SYMPOSIUM Clinical Outcomes Assessment of Children with Unilateral Congenital Below Elbow Deficiency (UCBED): A Multi-Center Study <i>Anita Bagley, PhD</i> <i>Michelle A. James, MD</i> <i>Katherine Brasington, OTR</i> <i>Lisa Wagner, OTR</i> <i>Joanne Shida, OTR</i> <i>Wendy Tomhave, OTR</i> <i>Kathleen Montpetit, BSc, OT</i> <i>Cheryl S. Lutz, OTR</i> <i>Joel Lerman, MD</i> <i>Loray Dailey, OTR</i> <i>Elaine Charest, OTR</i> <i>Cheryl Hanley, OTR</i> <i>Sharon McConnell, MS</i> <i>Brian K Pulater, CP, LP</i> <i>Joanne Libertore, OTR</i> <i>Becky Ligon, OTR</i> <i>Elroy Sullivan, PhD</i> <i>Joanna Patton, OTR</i> <i>Leslie Clawson, MSW</i> <i>Carrie Risi-Hart, OTR</i> <i>Susan Duff, OTR</i>	1:40 pm – 1:45 pm	DISCUSSION
		1:45 pm - 1:55 pm	CS #9 Five Year Post-op Follow-up of Two Children with Reconstruction of the Proximal Humerus Using the Rotated Clavicle After Excision of Malignant Tumors <i>Mei F Fong, BSc, PT</i> <i>Christina N Yu, Bsc, OT</i> <i>Gerhard N Kiefer, MD</i> <i>James A. Harder, MD</i>
		1:55 pm – 2:00 pm	DISCUSSION
		2:00 pm – 2:10 pm	CS #10 Electric Burns in Children and Prosthetics: Indian Scenario <i>P D Poonekar, MD</i>
		2:10 pm – 2:15 pm	DISCUSSION
		2:15 pm – 2:30 pm	BREAK
		2:30 pm – 3:15 pm	SYMPOSIUM An Overview of RGO and HKAFO Use in Patients With Myelodysplasia <i>Kenneth J Guidera, MD</i> <i>Janet Marshall, CPO</i> <i>Sandra Smith, MSPT</i> <i>Colleen Coulter-O’Berry, PT</i> <i>Joe Stratman, CO</i> <i>Michael Bush, MD</i>
12:45 pm – 1:00 pm	BREAK		
1:00 pm – 2:15 pm	CREATIVE SOLUTION SESSION II Moderator: <i>Owen A. Larson, CP</i>		
1:00 pm - 1:10 pm	CS #6 WREX: An Upper Extremity Functional Orthosis <i>Tariq Rabman, PhD</i> <i>Shanmuga Jayakuamar, MD</i> <i>Whitney Sample, BS</i> <i>Marnie King, BS</i>	3:15 pm - 4:30 pm	SYMPOSIUM Host Group of Challenging Case Studies <i>Janet G Marshall, CPO</i> <i>Kenneth J Guidera, MD</i> <i>Daniel Griner, CPO</i> <i>Rene van Wieringen, PT</i> <i>Pamela Versage, PT</i> <i>Jennifer Jenkins, PT</i> <i>Bryan Sinnott, CPO</i> <i>Edward Quigley, PhD</i> <i>Tristan Seley, BS</i>
1:10 pm – 1:15 pm	DISCUSSION		
1:15 pm - 1:25 pm	CS #7 Bridging the Upper Extremity Prosthetic Gap <i>Heather Miesen Hoyt, OTR/L</i>		

POSTER PRESENTATIONS

Poster #1

Pre-Surgery Education for Children and Families at the Center for Limb Differences

Beth Terborg, BSN

Poster #2

Clinical Update of Anti-Adduction Orthoses

Karl Fillauer, CPO

Poster #3

Design and Use of a Hip Cradle Orthosis For Pediatric Post Proximal Femoral Resection Patients

Timothy Finlan, OTR/L

Sandra Smith, MSPT

Poster #4

Two Models of a Low-Temperature Writing Device for a Child with Finger Deficiencies

Toni Thompson, MA, OTR/L, BCP

Poster #5

Coordination and Intergration of Orthotic Aids Provision in Children's Rehabilitation, Leads to Improvements in Quality

Michael Ceder, CPO

Christina Bjork Andersson, PT

Poster #6

Understanding the Effect of Total Mass and the Distribution of that Mass on the Natural Swing Periodicity of the Pediatric Transfemoral Shank

Phillip M. Stevens, CO, BEP; David Baty, CPO

Poster #7

Design and Use of Orthoses in Severe Brachial Plexus Injury

Ann Christine Modrcin, MD

Stephen A Mandacina, CP

Poster #8

A Case Study: A Novel Nighttime Positioning Device for a Child with Neuromuscular Scoliosis

Ann C. Modrcin, MD

Tom Hetzel, PT

Poster #9

Appropriate Fit: The Key for Successful Use of Prefabricated Upper Extremity Orthotic Devices

Lynn Thibault, OTR/L

Toni Thompson, MA, OTR/L, BCP

Poster #10

Wheelchair Custom Lower Extremity Support System for Post Surgical Cast Applications

Craig A. Kraft, BS, IT