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Role of the biomedical engineer in the treatment of children with neuromuscular disorders

— *Nicholas J. Gryfakis, M.S., Associate Newsletter Editor, Manager/Biomedical Engineer, Motion Analysis Center, Children's Memorial Hospital, Chicago, Illinois*

Every day, we aim to provide the best treatment possible to children with cerebral palsy, spina bifida, traumatic brain injuries and other developmental disorders. We all know that our special children demand special needs beyond the traditional paradigm. As a result, multidisciplinary teams consisting of physicians, therapists, social workers, and nutritionists work with our patients and families to improve their quality of life. While you may be well aware of the roles of those professionals, are you aware of the contributions of the biomedical engineer to their treatment?

Biomedical engineers (bioengineers) apply engineering principles and techniques to the medical field. They impact these children in a variety of ways depending on the specialty of the bioengineer. Specialties can include biomechanics, rehab engineering, and imaging just to name a few. Even within each specialty, sub-specialties exist similar to the way that a physician may specialize in orthopaedics and then further into pediatric orthopaedics.

Bioengineers with an expertise in biomechanics and sub-specialty of gait analysis have a direct impact on our patients. These professionals develop the complex models that are utilized to quantify and analyze the patients' movement. Further, the bioengineer is responsible for understanding how various pathologies affect the underlying assumptions and resultant data from these models. In some instances, bioengineers are active in the collection of gait analysis data including the instrumentation of the patient. In a gait analysis laboratory, bioengineers can guide interpretation and provide further insight of data to physicians and therapists. For example, the bioengineer may provide an explanation as to why the gait data indicates normal dynamic hip rotation in gait when visual assessment suggests internal hip rotation. This expertise could assist an orthopaedic surgeon in determining whether to perform a particular surgery such as a femoral derotation osteotomy.

While only one of the numerous bioengineering sub-specialties has been described in this brief article, bioengineers truly have an impact in many other capacities not described in this text. Bioengineers provide a diverse knowledge of medicine, technology, and engineering concepts that are of great benefit to the treatment team and most importantly, our patients. ■

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Letter From The President

—*Barry S. Russman, MD*

This is my final newsletter as the administrative President of the American Academy of Cerebral Palsy and Developmental Medicine (AACPDM). The President of the Academy serves for five years. As the second Vice-President, the individual is responsible (to be reflected in the new bylaw recommendation to be presented at the business meeting in Boston, September 2006) for the development and the smooth running of the committees. As first Vice-President, the responsibility is to organize the annual meeting with the help of the Scientific and Course committee chairpersons who are appointed by the First Vice President. As the President, the individual is responsible for the administrative details of the society. As immediate Past President, I serve on the Finance Committee and attend the Board meetings. Two years after the administrative year is completed, the person is responsible for being 'elderly', and wise.



This has been one of the most memorable experiences of my career. To be involved in the Academy in such an important position is something I have enjoyed, have met many new and wonderful people and can report that the Academy is in excellent condition for now and in the near and distant future. After the very exciting annual meeting in Orlando, Florida (September 2005), I felt that the administrative year would be mundane and boring. Quite to the contrary; the business before the Academy has been stimulating and at times quite demanding. We have enjoyed working with the new management company Executive Director Incorporated (EDI), and Tracy Burr who is the Executive Director. Tracy and her staff have worked incredibly hard. They have learned how the Academy works in a very short period of time, have developed an enthusiasm for the Academy's mission and are committed to ensure that the Academy meet the needs of the members. Mishaps have occurred, but positive change has occurred and we are looking forward to many years of a wonderful relationship.

As you all know, the Academy's missions are to provide strong educational programs and encourage research in cerebral palsy and developmental disabilities. We continue to work diligently and like to think we are doing well in both areas. Not only have the annual meetings been very successful, but the addition of the Academy's Ground Round and Tutorial Programs has prospered. Please speak to the head of the education committee, Dr. Andrew Morgan, as well as any member of the board for further information about these two programs. The research mission also continues to flourish. This year we shall be awarding two \$25,000 grants for start-up projects. These will be announced at the annual meeting. These were based on a competitive review of several applications that were submitted to the research and education committee. The first grant rendered by the academy is now in its third year and Dr. Blackman will be issuing a report as to the progress of his group.

Another area that has taken a great deal of time is the development of a new relationship with our Journal, Developmental Medicine and Child Neurology. As you all know, the Journal is a very important part of our academy and certainly the members reiterated this in recent poll. We have tried to restructure the relationship with the Journal so that we can decrease the amount of money paid for the subscription plus develop an opportunity to obtain the Journal on line at even a greater reduced amount. This will save the academy money and we anticipate that the savings will be applied to further development of our education and research programs as well as keeping the dues as low as possible without sacrificing the mission of the Academy.

The role of the Academy in supporting Cerebral Palsy meetings in underdeveloped countries has also been extremely fruitful and rewarding. In the last three years, the academy has supported meetings in Greece, India and Warsaw. The success has been so important that we hopefully will be able to continue these efforts. Presently members of our academy, as well as, the European Academy of Childhood Disabilities (EACD) are working on the development of an international meeting supported by both academies. This will provide an opportunity to travel to an international site where opportunities

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AACPDM's Diamond Jubilee Annual Meeting



Besides the fantastic educational programming, the AACPD's Diamond Jubilee Annual Meeting is bound to be a smashing good time! The Program Committee, headed by Unni Narayanan, MD, Scientific Program Chair, and by Eileen Fowler, PhD, PT, Instructional Course Chair, as well as our Local Hosts, Bryan Snyder, MD, and Laurie Glader, MD. They and many others made up the village that organized the meeting. Please celebrate this 60th Anniversary Meeting with us. The Meeting Highlights are as follows:

Meeting Highlights

Specialty Day – *Sponsored by: Allergan*

These sessions are frequently slanted toward a particular specialty (eg. nurses, physiotherapists, developmental pediatricians, Orthopaedic surgeons, etc), or are alternatively focused on a specific topic (eg. outcomes research in cerebral palsy; transitional care of children with disabilities, etc). The symposia are held concurrently lasting 3 ½ hours, and allow for an in depth discussion of the topics. These sessions are very popular and expand the education reach of the meeting. Space is limited to 300 per symposium.

Special Interest Groups – These informal gatherings are intended to provide an opportunity for attendees with similar interests to meet each other. The objectives are to encourage networking, collaborations, and generation of new ideas that can be incorporated in future meetings.

Breakfast with the Experts – These one-hour sessions are led by one or more experts discussing subjects which are new, innovative, and/or controversial. These sessions are meant to be interactive and the audience is limited to less than 30 participants.

Opening Plenary Session – This general session will begin with the Gavel Exchange and the Presidential Address, followed by a Presidential Special Guest Lecture by Dr. Thomas Berry Brazelton



Mac Keith Basic Science Lecture presented by Dr. Evan Snyder on: "Stem Cells: Developmental Principles Should Guide Interventions in Neurological Disease"



Point-Counter Point Session – The popular debates promise to be educational, provocative, and entertaining. This year's topics include controversies dealing with issues of extreme prematurity; sensory integrative dysfunction; and surgery for scoliosis in severe cerebral palsy. Topics Covered:

- Extreme Prematurity: Who decides?
- Sensory Processing Disorder: Myth or Reality?
- Scoliosis in Severe Cerebral Palsy: To Fuse or Muse?

General Session

Senator Ted Kennedy is the 2006 recipient of the Cathleen Lyle Murray Humanitarian Award, and will be accepting this award via a video presentation.

Diamond Jubilee Celebration –

Celebrate with members old and new, the 60th anniversary of the American Academy for Cerebral Palsy and Developmental Medicine, at a special Diamond Jubilee reception and dinner featuring:

- "Reflections on 60 Years of the AACPD"
- Presidential Special Achievement Award presented to Dr. Allen Crocker
- Duncan Wyeth Award presented to Team Hoyt

NEW this year: Plenary Free Paper Session

This year, for the first time, there will be free papers presented in a plenary session devoted to outcomes and health related quality of life. The free paper session will be followed by the 2006 Gayle G. Arnold Presidential Lecture by Dr. Michael Goldberg, who will speak about "Are we Helping? How do we Know?"

The plenary session will conclude with the presentation of the 2006 Mac Keith Press Promising Investigator Award, the United Cerebral Palsy (UCP) Scientific Poster Award, the Fred P. Sage Award for the Best Multi-Media Abstract & a presentation by the 2005 winner of the Gayle G. Arnold Award for Excellence in the Care of Children with Cerebral Palsy.

International Affairs Luncheon – Join the International Affairs Committee and other guests for a luncheon and a program. This is a good opportunity to meet and exchange information with professionals from around the world.

Family Forum – This special session is an opportunity for local-area parents and children with cerebral palsy and other developmental disabilities to meet with the experts in the field in order to learn about the progress that is being made in research. This session is organized by the local host in association with local groups representing families and caretakers. The questions and answer sessions are usually lively.

Free Paper Sessions – The Program Committee has selected 46 abstracts for oral presentation. These papers have been categorized by subject or specialty area. Forty papers will be presented in paired concurrent sessions on September 14th and 15th; six papers will be presented in a special plenary session on September 16th.

Instructional Courses – There are 31 Instructional Courses being offered with eight concurrent courses distributed over four 2-hour sessions on September 15th and September 16th, covering a diversity of topics, conducted by experts in the respective areas.

Scientific and Demonstration Posters – The Program Committee has selected 60 abstracts for presentation as Scientific Posters or Demonstration Posters which will be on display at the Exhibition Hall throughout the meeting. Presenting authors will be available at specified poster breaks to discuss their posters with the Attendees.

Teleconferencing – The AACPD is pleased to be able to provide a live Web cast of portions of the Annual Meeting to selected sites in Latin America, Asia, Australia and Europe. ■

Educational Corner

AACPDM Tutorials

The American Academy for Cerebral Palsy and Developmental Medicine provides the opportunity for a small group of participants to have one-on-one specialized training through an AACPDM Tutorial. The AACPDM Tutorial Advisor, who is a member, and is recognized as an expert in the subject at hand, hosts a concentrated learning experience at their local site. The tutorials have limited space in order to create a relaxed atmosphere in which attendees can rapidly expand their skills and knowledge in a particular subject while building camaraderie with young and senior colleagues. The cost to AACPDM members is \$50 (USD), and \$100 (USD) for non-members. All travel expenses are the responsibility of the attendee.

To register, please visit the website at www.aacpdm.org OR if you are interested in being a Tutorial Advisor, please contact Andrew Morgan, MD at amm@uicomp.uic.edu.

AACPDM Grand Rounds

The AACPDM Grand Rounds, formerly known as Founder's Lectures, are a series of online lectures presented by volunteer members of the AACPDM. The topics covered have been identified as being of significant interest to our membership. Each grand round presenter is well-known within the AACPDM for their experience and expertise. The grand round presentations are viewed online with the use of slide shows. Attendees have the option of listening and communicating with the presenter online, or interacting directly with the presenter through a telephone line. The AACPDM Grand Rounds are FREE to all AACPDM members and, \$50.00 (USD) for non-members. The AACPDM Grand Rounds are consistently scheduled for every second Tuesday of the month, at 9:00 PM Eastern time. The following are the upcoming AACPDM Grand Rounds:

- Tuesday, October 10, 2006
- Tuesday, November 14, 2006
- Tuesday, December 12, 2006

All who attend **MUST** pre-register by visiting www.aacpdm.org OR if you are interested in presenting at a future grand round, please contact Andrew Morgan, MD at amm@uicomp.uic.edu. ■

From the President — *continued from page 2*

to network and collaborate with individuals from around the world who are involved in the same type of work will be available.

The committees are the life-blood of the Academy. I want to thank the more than 100 members who are currently serving on a committee. Please volunteer your time; participating in the organization will enhance its value to you. Further, your presence with new ideas and enthusiasm will help advance the Academy's missions. I want to thank Joe Dutkowsky for working diligently in developing our newsletter and enhancing its value. We now have an editorial committee of four people rather than just placing the burden of producing this newsletter on one person. This should make it more interesting and maybe even educational for the members. Finally, we have developed a classified ad section in the newsletter so that people can offer positions available in the individual institutions. The web page is underutilized at the present time, but we anticipate with its further development, it will be a very important part of the academy's efforts. Please talk to the web committee, the chair being Bill Oppenheim for further information. Hopefully more people will become involved in this effort. Finally, I want to thank our management company and the Board of Directors for all of the support that they have given me during the past year. Most importantly, I want to thank the members for the support they have given.

As always, I am looking forward to your comments. ■



Barry S. Russman, MD

Call for Articles

If you are one of the many AACPDM members that have enjoyed the articles in the AACPDM Newsletter and have an interesting story to tell; the Publications Committee is looking for more articles of the same caliber. Please send a brief summary to the AACPDM office for consideration. E-mail your article summary to: tburr@aacpdm.org.



New from Mac Keith Press

—Compiled by Michael Pountney, Managing Editor, and Peter Rosenbaum, North American Editor.

The journal: *Developmental Medicine & Child Neurology*

By the time you read this, you will have received the journal's bumper June issue, twice the normal length, which the Editors hope you will have enjoyed. This extra-long issue is one of several steps we've taken in response to concerns about the long lag time between acceptance of a paper and its appearance in print. In fact recently the queue has been as long as 10 months for most papers. Other steps we have taken:

- Additional pages: since January 2006 there are 8 more pages per issue
- Shorter papers: a maximum of 3000 words and ~25 references for original articles
- Higher rejection rate: only about a third of the papers submitted are being accepted (of course the high rate of submissions for publication speaks to the journal's excellent reputation in the field)

The result is that the time between acceptance and publication is beginning to come down sharply, and we're on course to be as quick as any of our competitors by next year.

Readers tell us they welcome shorter papers, and with the other recent innovations of Commentaries and more Reviews, the journal has become livelier and more interesting – as reported during informal opinion-gathering. As readers know, the Academy sent out a formal questionnaire about DMCN not long ago. That is something one cannot do frequently, but we're always keen to hear people's views, whether about the overall make-up of the journal or about individual items in it. Please feel free to contact us at: allat@mackeith.co.uk and share your perspectives on the AACPD's official journal.

New Books from Mac Keith Press...

We're increasing the number of books we publish, and are also diversifying. In the Clinics in Developmental Medicine (CDM) series, we've had several new volumes out since the last issue of the Newsletter: the long-awaited *Shaking and Other Non-accidental Head Injuries* by Bob Minns and Keith Brown; Eddy Estlin and Steve Lewis's *Central Nervous System Tumours of Childhood*; *Precht's Method of Qualitative General Movement Assessment* by Christa Einspieler; Thierry Deonna and Eliane Roulet-Perez's *Cognitive and Behavioural Disorders of Epileptic Origin in Children*; and most recently, Philip Baker and Colin Sibley's *The Placenta and Neurodisability*.

Coming very soon in the CDM series are:

- *Management of Disorders of Bladder and Bowel Control in Childhood* by Alexander von Gontard and Triggve Nèveus, a comprehensive and very practical survey of the field

- *Hyperactivity and Attention Deficit in Children and Young People: a Clinical Guide* edited by Eric Taylor, with all the latest work in this fast-moving field
- *Alcohol, Drugs and Young People: Clinical Approaches* edited by Eilish Gilvarry with an international cast of expert contributors
- *Paediatric Orthotics* by Chris Morris and Lou Diaz, the first book on this topic for several years

And a little further away, there's a second edition of Gene Bleck's popular *Orthopedic Management in Cerebral Palsy*, with Helen Horstmann as editor; *Neurological Assessment in the First Years of Life* by Giovanni Cioni and Eugenio Mercuri; *The Child with Cerebral Palsy: Management of the Upper Extremity* by Ann-Christin Eliasson and Pat Burtner; the third edition of Jean Aicardi's *Diseases of the Nervous System in Childhood*; and a new edition of *the Atlas of Neonatal Brain Sonography* by Paul Govaert and Linda de Vries. The long-delayed *Stroke in Children* by Vijeya Ganesan and Fenella Kirkham, planned as an IRCN title, will come out early next year in the Clinics series.

In the International Review of Child Neurology (IRCN) series, just out is:

Autism: a Neurological Disorder of Early Brain Development by Roberto Tuchman and Isabelle Rapin, and following very soon *Paediatric Clinical Neurophysiology* by Karin Edebol Eeg-Olofsson, with Daune MacGregor's *Head Injuries in Childhood* following early next year.

Our major diversification is our new series of Mac Keith Handbooks. These will be very practical handbooks in softback aimed at health professionals whose interest in their subject doesn't extend to details of the background research but who need to be completely up-to-date in their fields. Planned titles include *Cerebral Palsy*, *Ageing in Cerebral Palsy*, *Disabled Children Living Away From Home*, *Feeding and Disability*, and *Sleep in Disability*. They will start appearing in 2007 and we'd welcome ideas for further topics to cover.

Website

We've recently launched our own website – www.mackeithpress.org. Until now our web-presence has been the MKP section of the Cambridge University Press site, and that remains the site where all the Mac Keith product information is held. The new direct site has quick links to everything on the CUP site, but its main purpose is to provide an information and discussion site for people working in our field. There is a section for informa

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Editor's Note

—Joseph Dutkowsky, MD

Baby Aroma died last month.

She was only four months old when I met her. A long awaited child for these parents, through no choice of her own, she came into the world with Down Syndrome. As I looked into her innocent face I searched for words in which I could encourage this mother as she struggled to bond with her daughter. But the struggle would not stop with Down Syndrome alone. Within several months, with problems with growth and feeding, a new issue would emerge. Through no choice of her own, a blood count revealed Baby Aroma had leukemia. Leukemia is more common in children with Down Syndrome and the type they get is particularly sensitive to treatment and frequently curable. But Baby Aroma, through no choice of her own, was born on the outskirts of Lima, Peru, where such treatment is not available.



Never will I forget the face of Baby Aroma. Gentle and peaceable, innocent and friendly, one feature dominated all others, her eyes. Those beautiful Peruvian brown eyes reached into my own and spoke in words that no earthly language can confine. It was her eyes that gave me a focal point to try and bring some cohesion to the cacophony of overwhelming emotions, thoughts, and experiences that attended my week working in the barrio of Lima last year. The essay which I wrote to describe those days, a version of which appeared in this newsletter one year ago, was entitled, "The Eyes".

I had been to one infant's funeral in this barrio known as Canto Grande. The priest, with whom I was working, had just finished evening mass in a semi-outdoor church with a temporary metal roof. We had planned to get something to eat when just outside the door we came upon a young man. He was in his mid-teens and told the priest that his wife had a third term miscarriage early in the day and asked if he could come and bless the dead child in their home. Dinner could wait; off we went deep into the barrio in a carriage pulled by an old motorcycle. We traveled up the hill into the worst section of all to an area known for unimaginable poverty, violence, AIDS, and drug resistant tuberculosis. The home was a shack at best housing multiple families. The front door was a head to foot cut in a piece of plywood and the window was another piece cut out at waist level. Neighbors gathered as the priest and the doctor entered the home. What we saw upon entering was right out of Kafka.

To the right of the door were two large candle stands on the dirt floor flanking a kneeler. Just beyond the kneeler stood a table with a box containing the dead preemie. Her tiny body lay dressed in a

long white baptismal gown. The room fell silent as the priest began a service to bless the infant. Suddenly, without warning, a child around ten years old swung around the corner. He clearly had autism and his entrance threatened any calm in the room. A sibling quickly gave him a hug and maintained it throughout the blessing. It's ironic that, later, the priest told me that he was not sure what to do while I was thinking that there was finally something happening that I could handle.

I've been told that Baby Aroma's funeral was very different. Though full of deep sorrow, her service was held in the church in a spirit of thanksgiving and reverence. It was remarkable how many people attended, many of whom were almost never seen at funerals. As different as the services were they were similar in one thing. Both children likely suffered and died because of where they were born. Disabilities cross all nationalities, cultures, and faiths. Yet we also know that they occur more frequently in areas of poverty and that these children typically are afforded the least chance for treatment or education. In the paternalism of The Cold War we called it The Third World. In today's reality it is more accurately called The Two-Thirds World.

It is no coincidence that this academy has steadily extended itself across the globe. This year, when you come to the meeting in Boston, note that there will be people from over twenty countries present, several on scholarships provided by the AACPDM. Through telecommunications we will transmit lectures and instructional courses of first rate quality to over ten centers on three continents. Our colleagues at MacKeith Press will continue their tireless efforts to get copies of *Developmental Medicine and Child Neurology* into the hands of professionals in countries where they can not afford a subscription. All people who reach out to these children are our colleagues.

I still marvel on the effect Baby Aroma's eyes have upon me. From what I've heard of her short seventeen months on this earth I am but one of many. They say the eyes are the window to the soul. Maybe in Baby Aroma's case her eyes were not a window but in fact a mirror. Looking in those eyes it is just possible that we did not see ourselves as we are, but saw who we truly could be.

Shalom, Pacem, Salam, Baby Aroma. ■

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New from Mac Keith Press — continued from page 3

tion about forthcoming meetings (note: no charge to advertisers), a section for the series of the Mac Keith Meetings we run (professional meetings, some for teaching, some for research), and a Forum section, not yet very active, for discussion of specific issues – for instance the new definition and classification of cerebral palsy, or the consensus statement on postural management for children with cerebral palsy.

We're very keen to expand the website, so please let us have material for inclusion in it and ideas for its expansion.

AACPDM representation

Mac Keith Press has a 28-member Editorial Board, of whom seven are Academy members. The Board guides all MKP's editorial activities and reviews everything we publish. Six AACPDM Editorial Board members are drawn from the Academy's Publications Committee, with the addition of a North American Editor. John Mantovani, Chair of the AACPDM Publications Committee, is also Vice-chair of the Editorial Board. The other current members, all of whom serve for six years, are Joe Dutkowsky, Loretta Knutson, Annette Majnemer, Richard Stevenson, and Chester Tylkowski. Peter Rosenbaum is the North American Editor. ■

AACPDM Opportunities

Do you have a position to fill? Are you in search for a new job or career? The AACPDM is now accepting classified advertisements for the next issue of the newsletter. Special discounts will be given to AACPDM members. Contact the AACPDM Office today!
Phone: 414.918.3014 or
e-mail: tburr@aacpdm.org

Classified Ad

UNIVERSITY OF VIRGINIA 5th ANNUAL INTENSIVE WORKSHOP ON GRANT WRITING, PREPARATION AND SUBMISSION IN REHABILITATION RESEARCH

What: This program is a 4 1/2-day workshop that includes lectures, small group discussions, and individual mentoring, as well as sessions on grantsmanship, writing, research design, and hypothesis generation. The majority of the participants' time will be spent developing their own proposal, assisted by one-on-one senior mentors.

When: January 17 – 21, 2007
Applications accepted online at <http://erris.med.virginia.edu/> beginning July 1, 2006. (*Application deadline September 18, 2006.*)

Where: The Boar's Head Inn, Charlottesville, Virginia.

Who: Junior and mid-level faculty in a medical rehabilitation discipline who have either not submitted a grant application to or who have not been successful in obtaining research funding from the NIH.

Selection: Thirty participants will be selected through a competitive application process.

Cost: Each participant will be charged a registration fee of \$1,250. This fee covers hotel costs, all meals, training materials, and logistical support. Transportation costs and incidentals are the responsibility of the participant. To ensure the most productive experience possible, family members or guests are strongly discouraged from attending. No arrangements will be made for family members.

Faculty: Senior individuals who have a track record of NIH-sponsored research. Additional staff members who have expertise in biostatistics, human subjects review, literature searches, budget preparation, and grant packaging will also be available.

Goal: Completion of a competitive NIH (or NIDRR) proposal by the end of the workshop.

For additional information visit the ERRIS website at
<http://erris.med.virginia.edu/> or contact:

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or

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Enhancing Rehabilitation Research in the South (ERRIS) and this workshop are supported by grant number 1R24 HD 39631-03 from the National Institutes of Health, National Center for Medical Rehabilitation Research (NIH-NCMRR).



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palsy and developmental medicine

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2006 Event Calendar

For the most up-to-date information, visit www.aacpdm.org.

SEPTEMBER

- 13-16 AACPDm's 60th Annual Meeting – Diamond Jubilee
Location: Boston, Massachusetts
Details: www.aacpdm.org

OCTOBER

- 6-8 2nd Annual - The Icelandic Dialogues: Medicine, Perception and Spirituality
Location: Kruines, Iceland
Details: www.mastclinic.com/
- 10 AACPDm Grand Round: Constraint Induced Movement Therapy: What is Evidence?
Presented by: Patricia A. Burtner, PhD, OTR/L
Location:
Details: www.aacpdm.org
- 8-11 American Neurological Association (ANA) – 131st Annual Meeting
Location: Chicago, Illinois
Details: www.aneuroa.org
- 18-21 Child Neurology Society (CNS) – 35th Annual Meeting
Location: Pittsburgh, Pennsylvania
Details: www.childneurologysociety.org
- 19-21 European Academy of Childhood Disabilities (EACD) – 18th Annual Meeting
Location: Barcelona, Spain
Details: www.eacd2006.com/

NOVEMBER

- 14 AACPDm Grand Round: The Use of Botox Injections to the Upper Extremity in the Treatment of Children With Cerebral Palsy
Presented by: Andrew Koman, MD
Location:
Details: www.aacpdm.org
- 29-Dec. 3 3rd International POSNA/AAOS Pediatric Orthopaedic Symposium
Location: Orlando, Florida
Details: www.aaos.org

December

- 15 AACPDm Grand Round: A Practical Guide to Powered Mobility for Toddlers with Severe Neuromotor Impairment
Presented by: Ginny Paleg, PT
Location:
Details: www.aacpdm.org