

International Parkinson and  
Movement Disorder Society

# Moving Along

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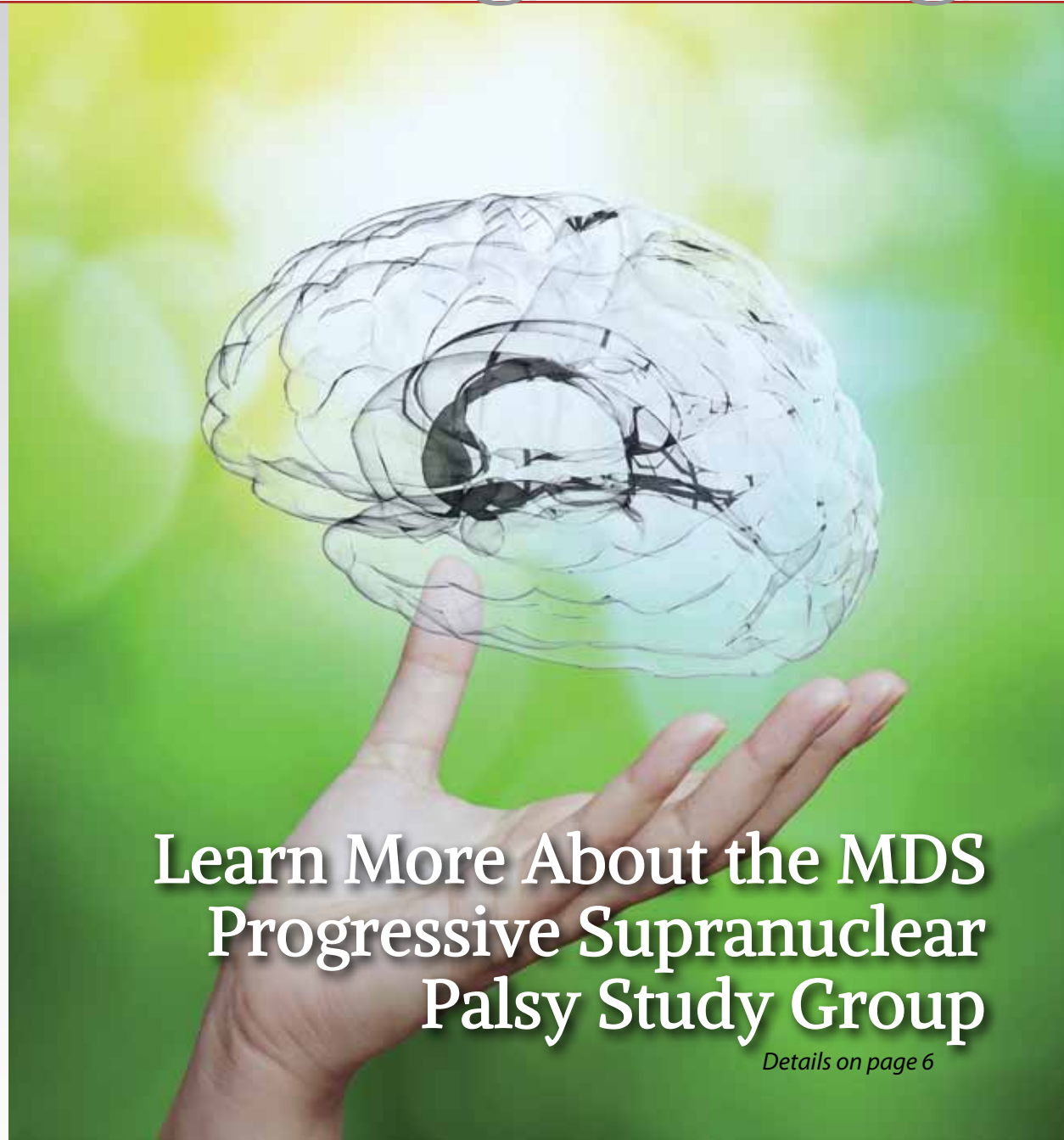
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JUNE 14-18  
2015



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International Parkinson and  
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## IMPORTANT DATES

APRIL 17, 2015  
Early Registration Deadline

MAY 15, 2015  
Final Pre-Registration Deadline

JUNE 14-18, 2015  
19th International Congress of Parkinson's  
Disease and Movement Disorders

19TH INTERNATIONAL CONGRESS OF PARKINSON'S  
DISEASE AND MOVEMENT DISORDERS

JUNE 14-18

2015

SAN DIEGO, CA, USA





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# Moving Along

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## Letters to the Editors

Your Comments and Questions Are Always Welcome

### Editorial Policy

As part of its democratic commitment, MDS welcomes the input of all its members about the features and articles that appear in this newsletter. Have a comment or question? Each issue will include responses in the "Letters to the Editor" section. All materials submitted become the property of MDS.

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This issue of *Moving Along* mainly deals with the reports from the Society's annual International Congress held in Stockholm as well as the various regional courses, schools and workshops organized by the three MDS Regional Sections around the world. In addition, we would like to introduce to the members the newly formed PSP Study Group. Other MDS Study Groups, Task Forces and Committees will be introduced in the forthcoming issues.

As you will see, the number and diversity of MDS regional activities is impressive and continually growing. The reason of the fervor put forth by the Society in supporting these regional educational activities is to offer small and focused meetings, in which the exchange of opinions and ideas between the experts and the audience is made easier by the size of the meeting. At the same time, the annual International Congress, with its now classical format, remains successful both scientifically and economically (which is not a trivial point during these years of continuous recessions for many countries of the world). At the same time, the next International Congress Scientific Program is already available thanks to the efforts of the International Congress Scientific Program Committee, led by Victor Fung and Irene Litvan. Each year, this committee has tried to add a number of new speakers from the younger generation, and it looks like this idea of a continuous generational renovation has been fully accomplished for the upcoming International Congress in San Diego.

During the International Congress and the various meetings organized by MDS, the participants not only improve their scientific knowledge, but also enjoy their free time (as seen in the picture below!).

Last but not least, the editors and staff of *Moving Along* would like to wish all of you a very productive and happy 2015!



*Moving Along*, Co-Editors, Carlo Colosimo and Mark Stacy at the 18th International Congress in Stockholm.



Former *Movement Disorders Journal* Co-Editors, Anthony Lang and Andrew Lees, take a break to enjoy Búzios during The 9th Brazilian Meeting of Movement Disorders.



As 2014 comes to a close, I'm proud to look back at all of the accomplishments of the International Parkinson and Movement Disorder Society (MDS) over the course of this year.

MDS has experienced tremendous growth yet again this year. Membership has grown over 17% this year, bringing our total membership to over 5,300.

The Society's two journals have each had great success this year. *Movement Disorders* has successfully raised its impact factor to an impressive 5.634 and is ranked 14 out of 194 Neurology Journals. 2014 also brought the successful launch of the online Journal, *Movement Disorders-Clinical Practice*, now with four issues published for 2014. We look forward to even more forward momentum as we go into 2015 with two strong journals.

MDS also successfully launched a new website in April 2014. The domain [www.movementdisorders.org](http://www.movementdisorders.org) has stayed the same, as well as the award-winning content of the website. The website now features a cleaner look, information that is streamlined and the ability to use the site on a multitude of platforms. The video library is also now viewable on any kind of device, including mobile phones and tablets. I encourage you to take advantage of this fantastic resource.

The Society has held its largest offering of live courses this year, including a very successful International Congress in Stockholm, Sweden and the 4<sup>th</sup> Asian and Oceanian Parkinson's Disease and Movement Disorders Congress in Pattaya, Thailand. MDS has also hosted a multitude of successful courses worldwide including the First Basic Scientists Summer School in Taipei, Taiwan and the first Allied Team Training in San Diego, CA, USA. MDS has also been able to support quality movement disorders education in underserved areas worldwide through outreach programs such as the Developing World Education Program, Ambassador Program and Visiting Professor Program.

Our expanding collaborations with lay foundations including the Michael J. Fox Foundation, CHDI, the Safra Foundation and National Parkinson Foundation have bolstered our portfolio of educational initiatives.

Thank you for being part of an impressive year for MDS. I look forward to seeing what 2015 will bring as we add to our list of ever-growing accomplishments and to seeing many of you in San Diego in June.

A handwritten signature in black ink, appearing to read 'Matthew B. Stern'. The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

Matthew B. Stern, MD  
MDS President, 2013-2015

## International Parkinson and Movement Disorder Society (MDS) Endorsed Progressive Supranuclear Palsy Study Group

— Günter U. Höglinger, MD, Heisenberg-Professor of Neurology, German Center for Neurodegenerative Diseases e.V. (DZNE); Chair, MDS Progressive Supranuclear Palsy Study Group

Progressive Supranuclear Palsy (PSP) is an adult-onset neurodegenerative disorder with distinct cerebral tau pathology. Its classical clinical manifestation, termed Steele-Sichardson-Olszewski Syndrome, includes an akinetic-rigid syndrome with oculomotor dysfunction, postural instability, frontal lobe and bulbar dysfunction. Clinico-pathological studies in recent years have demonstrated a striking clinical heterogeneity, positioning the disease into the spectrum spanning from primarily extrapyramidal movement disorders to fronto-temporal dementias, which is both highly challenging and exciting for clinical neurologists. MR-imaging and upcoming Tau-PET tracers are promising to help untangling this complex. Recent environmental, genetic and epigenetic studies have successfully started to unravel the etiological basis of this complex disorder. Neuropathological and experimental examinations started to provide deep insights into the molecular basis of the disorder, offering diverse attractive targets for therapeutic interventions. In 2014, two large international randomized controlled studies demonstrated impressively the feasibility to conduct pivotal and GCP-conform clinical trials. Thus, PSP has moved from a neglected corner into a hot spot of scientific attention.

The International Parkinson and Movement Disorder Society (MDS) endorsed PSP Study Group is an important player in this field. It comprises members from various continents and aims to foster clinical research into PSP. Clinical research networks have been created in North America (Coordinator Adam Boxer), UK (Coordinator Huw Morris), France (Coordinator Jean-Christoph Corvol), and Germany (Coordinator Günter Höglinger). Further initiatives are underway in Sweden (Christer Nilsson), Spain (Pau

Pastor), Italy (Carlo Colosimo), Greece (Maria Stamelou) and Egypt ([www.ENND.org](http://www.ENND.org)).

Specifically, we aim to improve the diagnostic criteria for PSP to incorporate the extended clinical spectrum of PSP. Therefore, we initiated the establishment of international S3-guidelines for the clinical diagnosis of PSP.

Secondly, we aim to characterize the earliest clinical signs and symptoms occurring over the disease course of pathologically confirmed PSP. Therefore, a retrospective analysis of a large multi-centric original clinico-pathological dataset has been successfully terminated (Respondek et al., *Movement Disorders*, in press). On this basis, prospective cohort studies in oligosymptomatic conditions suggestive of PSP are currently established.

Thirdly, we are undertaking actions to improve the quality of future clinical trials, including improvements of early diagnosis, registries to establish trial-readiness, and refinement of study protocols by optimizing natural history, neuroimaging and biomaterial data.

Finally, we aim to disseminate knowledge about PSP. For this purpose, the MDS European Section has recently successfully conducted an Education Course '50 years of Progressive Supranuclear Palsy' in October 2014 in Munich. A written report on the outcomes is published on page 18 of this issue.

In summary, the MDS-endorsed PSP Study Group aims to be an open platform to improve public knowledge and awareness, early diagnosis and treatment of PSP.



Meeting of the MDS PSP Study group at the 17th International Congress in June 2013 in Sydney, Australia. From left to right: Irene Litvan, David Williams, Gregor Wenning, Huw Morris, Georg Nübling, Stefan Lorenzl, Wolfgang Oertel, Günter Höglinger, Maria Stamelou, John Steele, John Leigh, Adam Boxer, Dominic Paviour.

## MDS International Congress in the “Capital of Scandinavia”

Stockholm, a city universally known for hosting the annual ceremony and banquet for the Nobel Prize awards, served as host to the 18<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders on June 8-12, 2014 for delegates traveling from 86 different countries. Located in a city renowned for its global recognition of emerging sciences, the Stockholm Convention Centre, Stockholmsmässan, was an ideal venue for the delegates to learn about the latest research and perspectives in the field of Movement Disorders and to network and collaborate with colleagues. Everyone's participation made for several highlights during the week:

- 4,500 total people registered (including press and exhibitors)
- 86 countries represented
- 100 Travel Grants awarded by MDS
- 196 faculty members participated in the Scientific Sessions
- 1,558 posters accepted
- 34 Late-Breaking posters accepted
- 17 MDS Study Group abstracts accepted
- 4 Therapeutic Plenary Sessions
- 7 Plenary Sessions
- 24 Parallel Sessions
- 8 Teaching Courses
- 12 Video Sessions
- 12 Skills Workshops
- 16 Guided Poster Tours
- 28 companies exhibited
- 23 representatives from the press attended

Under the direction of Victor Fung, the Congress Scientific Program Committee (CSPC) made every effort to ensure that the science for the 18<sup>th</sup> International Congress was diverse and educational. The 2014 Scientific Program incorporated Therapeutic Plenary Sessions, Plenary and Parallel Sessions, Teaching Courses, Video Sessions, Skills Workshops, Controversies, Blue Ribbon Highlights, Poster Sessions and Guided Poster Tours. There were 13 sessions focused on this year's theme of “Emerging and Experimental Therapies” which gave participants an educational and comprehensive overview on the subject.

All eight Teaching Courses from the 18<sup>th</sup> International Congress are available to purchase as streaming content online, which includes slides, audio, video and the accompanying syllabi. All 13 Themed Courses are also available to purchase as streaming content online, which includes slides, audio and video. To order access to view either of these video sets, please visit [www.mdscongress2014.org](http://www.mdscongress2014.org)

Delegates were formally greeted in Stockholm at the official Welcome Ceremony for the International Congress on the evening of Sunday, June 8. Highlights of the ceremony included a video presentation showcasing the accomplishments of the Society as

well as musical performances by Parkinson's disease patients; Swedish vocalist, Suzzie Tapper, and English Jazz Saxophonist, Barbara Thompson.



*Dr. Matthew Stern presents Prof. Esther Cubo with the President's Distinguished Service Award during the Welcome Ceremony.*

In addition, President Matthew Stern distributed these awards at the Opening Ceremony:

#### Honorary Member Awards:

Anthony Lang, *Toronto, ON, Canada*

William Weiner, *Baltimore, MD, USA (posthumous)*

#### President's Distinguished Service Award:

Esther Cubo, *Burgos, Spain*

#### Stanley Fahn Lecture:

Joseph Jankovic, *Houston, TX, USA*

#### C. David Marsden Lecture:

Olle Lindvall, *Lund, Sweden*

#### Junior Awards

Julia Muellner, *Bern, Switzerland*

Anhar Hassan, *Rochester, MN, USA*

Samuel Shribman, *London, United Kingdom*



**MDS International Congress in the “Capital of Scandinavia”** CONTINUED FROM PAGE 7

Additionally, 100 Travel Grants were distributed. Please see page 9 for more information on these awards.

Following the Welcome Ceremony, delegates gathered at the Welcome Reception, where they tasted a traditional Swedish smorgasbord. And for the first time ever at the MDS International Congress, guests were entertained by the musical talent of “retro folk rock” band, *Brainstorm*, featuring MDS members, Ray Chaudhuri (guitar and vocals), Alexandra Rizos (flute and vocals), and David Brooks (keyboard, piano and vocals).



Delegates were entertained by retro folk rock band, *Brainstorm*, at the 2014 Welcome Reception. From left to right: MDS Members, Peter Brooks, Alexandra Rizos and Ray Chaudhuri

Over 2,000 delegates gathered to watch unique Movement Disorder cases on the evening of Wednesday, June 11 during the 7<sup>th</sup> Annual MDS Video Challenge. The cases presented were selected from a large number of submissions by an international panel of reviewers. Led by Masters of Ceremony Anthony Lang and Kapil Sethi, the world-renowned Panel of Experts engaged the audience by guiding them through the thought process of diagnosing challenging movement disorder cases.

The nine cases that were presented to the Panel of Experts and the five short cases that were shown from the Masters of Ceremony came from Movement Disorder Centers around the world which offered an enjoyable spirit of competition to this event. The Gold medal was awarded to Unità Operativa Parkinson e Disordini del Movimento, Istituto Neurologico Nazionale C. Mondino in Italy (presented by Nicoló Gabriele Pozzi; paroxysmal dystonic-dyskinetic syndrome with abrupt onset), the Silver medal was awarded to University Hospital Heidelberg in Germany (presented Bettina Balint; Chediak-Higashi-Syndrome) and the Bronze medal was awarded to the Mayo Clinic College of Medicine in Scottsdale, Arizona, USA (presented by Shayamal Mehta; juvenile parkinsonism with severe levodopa induced dyskinesia due to POLG mutation).



7<sup>th</sup> Annual MDS Video Challenge Masters of Ceremony, Expert Panel, and Gold medal winners.

The International Parkinson and Movement Disorder Society would like to thank all of the institutions and national Movement Disorder groups who submitted a Letter of Intent at the start of this process and would especially like to thank those who were selected to present their case during the MDS Video Challenge. Streaming content of the MDS Video Challenge is available for purchase by ordering from the MDS website at [www.mdscongress2014.org](http://www.mdscongress2014.org). Please watch the website for more information about upcoming deadlines if you are interested in participating in the 8<sup>th</sup> Annual MDS Video Challenge to be held in San Diego on June 17, 2015.

To claim CME credit for your participation in the MDS 18<sup>th</sup> International Congress, please visit [www.mdscongress2014.org](http://www.mdscongress2014.org) and complete the on-screen instructions using your registration number found on your name badge or registration confirmation.

The International Parkinson and Movement Disorder Society would also like to extend their gratitude to faculty, supporters, exhibitors and delegates for traveling to Stockholm and for helping make the 18<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders another successful meeting!

Mark your calendars! MDS is already planning for the 19<sup>th</sup> International Congress in San Diego, CA, USA, June 14-18, 2015. Please visit our website for details regarding 2015 International Congress at [www.mdscongress2015.org](http://www.mdscongress2015.org) or contact the International Secretariat at [congress@movementdisorders.org](mailto:congress@movementdisorders.org) with any questions.



## 2014 MDS Awards Announced

During the 18<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, June 8-12, 2014, the Society was proud to honor the following MDS award recipients:

### President's Distinguished Service Award

The President's Distinguished Service Award is given in recognition of long and distinguished service to the International Parkinson and Movement Disorder Society (MDS).

#### 2014 Recipient

Esther Cubo

*Burgos, Spain*

Previous recipients of the President's Distinguished Service Award include Philip Thompson (2013), Marcelo Merello and Hubert Fernandez (2012), Oscar Gershanik (2011), Anthony Lang (2010), Serge Przedborski (2009), Cynthia Comella (2008), C. Warren Olanow (2007), Eduardo Tolosa (2006), Stanley Fahn (2005), and Mark Hallett (2004).

### Honorary Member Award

The Honorary Member Award recognizes individuals who have made extraordinary contributions to the field of Movement Disorders or otherwise to the International Parkinson and Movement Disorder Society (MDS).

#### 2014 Recipients

Anthony Lang

*Toronto, ON, Canada*

William Weiner (posthumous)

*Baltimore, MD, USA*

Previous recipients of the Honorary Member Award (formerly the Career Award) include Joseph Jankovic (2013), John Nutt (2013), Mark Hallett (2012), Eduardo Tolosa (2012), John GL Morris (2011), Masaya Segawa (2011), Ann Graybiel (2010), Andrew Lees (2010), Yoshikuni Mizuno (2009), Ira Shoulson (2009), Alim Benabid (2008), Mahlon DeLong (2008), Eldad Melamed (2007), Ali H. Rajput (2007), Niall Quinn (2006), Patrick McGeer (2006), Peter Jenner (2005), Thomas Chase (2005), Roger C. Duvoisin (2004), Hiroshi Shibusaki (2004), Yves Agid (2004), Stanley Fahn (2002), Oleh Hornykiewicz (2002) and Gerald Stern (2002).

### Junior Awards

Three Junior Award recipients were selected based on their significant contribution to research in the field of Movement Disorders.

#### 2014 Recipients

Julia Muellner

*Bern, Switzerland*

Anhar Hassan

*Rochester, MN, USA*

Samuel Shribman

*London, United Kingdom*

Previous recipients of the Junior Award include Alison Yarnall (2013), Mun Kyung Sunwoo (2013), Jee Young Lee (2013), Marios Politis (2012), Norbert Brüggemann (2012), Karin Tuschl (2012), Alexander Schmidt (Clinical 2011), George Tofaris (Basic Science 2011), Roberto Cilia (Clinical 2010), Raphael Hourez (Basic Science 2010), Helen Ling (Clinical 2009), Carlos Juri (Basic Science 2009), Luke Massey (Clinical 2008), Binith Cheeran (Basic Science 2008), Christine Daniels (Clinical 2007), Myriam Khondiker (Basic Science 2007), Andre Troiano (Clinical 2006), Akiko Imamura (Basic Science 2006), Peter Novak (Clinical 2005), Nutan Sharma (Basic Science 2005), David Williams (Clinical 2004), Pedro Gonzalez-Alegre (Basic Science 2004), Sylvie Raoul (Clinical 2002) and Jan Raethjen (Basic Science 2002).

### Travel Grants

MDS Travel Grants are offered annually in partial support of International Congress delegates in financial need to facilitate their travel to and participation in the International Congress of Parkinson's Disease and Movement Disorders.

#### 2014 Recipients

Hesham Abboud  
*Cleveland, OH, USA*

Olalekan Agunbiade  
*Ilesha, Nigeria*

Marion Albares  
*Bron, France*

Lorena Almeida  
*Salvador, Brazil*

Julius Anang  
*Montreal, QC, Canada*

Julieta Arena  
*Buenos Aires, Argentina*

Jean Baker  
*Burlington, VT, USA*

Bettina Balint  
*Heidelberg, Germany*

Danny Bega  
*Chicago, IL, USA*

Sonia Benítez-Rivero  
*Oxford, United Kingdom*

Florian Brugger  
*St. Gallen, Switzerland*

Daniela Calvo  
*Buenos Aires, Argentina*

Miriyam Carecchio  
*Novara, Italy*

Abderrahmane Chahidi  
*Tagzirt, Morocco*

Fubo Cheng  
*Tübingen, Germany*

Lucy Collins  
*Cambridge, United Kingdom*

Gemma Cummins  
*Cambridge, United Kingdom*

Rubens Cury  
*São Paulo, Brazil*

Marie Davis  
*Seattle, WA, USA*

Aman Deep  
*Phoenix, AZ, USA*

Emilie Favre  
*Bron, France*

Jesica Ferrari  
*Buenos Aires, Argentina*

D.L. Fischer  
*Grand Rapids, MI, USA*

Daniela Frosini  
*Pisa, Italy*

Richard Fu  
*London, United Kingdom*

Christos Ganos  
*London, United Kingdom*

2014 MDS Awards Announced CONTINUED FROM PAGE 9

Macarena Gonzalez <i>Buenos Aires, Argentina</i>	David Lindenbach <i>Binghamton, NY, USA</i>	Srivadee Oravivattanakul <i>Cleveland, OH, USA</i>	Valeria Sajin <i>Chisinau, Moldova</i>
Kristina Grim <i>Salt Lake City, UT, USA</i>	Melanie Lising <i>San Francisco, CA, USA</i>	Roberto Ortega <i>New York, NY, USA</i>	Alvaro Sanchez-Ferro <i>Cambridge, MA, USA</i>
Priti Gros <i>Longueuil, QC, Canada</i>	Marian Livingston <i>Portland, OR, USA</i>	Christiana Ossig <i>Dresden, Germany</i>	Veronica Santini <i>Boston, MA, USA</i>
Nawaz Hack <i>Gainesville, FL, USA</i>	Lan Luo <i>Houston, TX, USA</i>	Gian Pal <i>Chicago, IL, USA</i>	Harini Sarva <i>New York, NY, USA</i>
Mallory Hacker <i>Nashville, TN, USA</i>	Antonella Macerollo <i>London, United Kingdom</i>	Sanjay Pandey <i>Bethesda, MD, USA</i>	Sergio Scollo <i>Buenos Aires, Argentina</i>
Masa-aki Higuchi <i>Gainesville, FL, USA</i>	Graziella Madeo <i>Rome, Italy</i>	Isabel Pares <i>London, United Kingdom</i>	Yury Seliverstov <i>Krasnogorsk, Russia</i>
Franziska Hopfner <i>Kiel, Germany</i>	Daniel Martinez-Ramirez <i>Gainesville, FL, USA</i>	Raminder Parihar <i>Boston, MA, USA</i>	Stefania Sgroi <i>Bern, Switzerland</i>
Vincent Jourdain <i>Quebec, PQ, Canada</i>	Carine Maurer <i>Bethesda, MD, USA</i>	Amar Patel <i>New York, NY, USA</i>	Shital Shah <i>Philadelphia, PA, USA</i>
Michaela Kaiserova <i>Olomouc, Czech Republic</i>	María Merino <i>Buenos Aires, Argentina</i>	Camila Piccinin <i>Campinas, Brazil</i>	Kara Smith <i>Philadelphia, PA, USA</i>
Galina Kavaldjieva <i>Munich, Germany</i>	Kelly Mills <i>San Francisco, CA, USA</i>	Annika Plate <i>Munich, Germany</i>	Carolina Souza <i>São Paulo, Brazil</i>
Drew Kern <i>Toronto, ON, Canada</i>	Svjjetlana Miocinovic <i>Dallas, TX, USA</i>	Ketan Jhunjhunwala <i>Bangalore, India</i>	Baochan Tran <i>Philadelphia, PA, USA</i>
Meir Kestenbaum <i>New York, NY, USA</i>	Jitendriya Mishra <i>Chandigarh, India</i>	Ritesh Ramdhani <i>New York, NY, USA</i>	Kaviraja Udupa <i>Toronto, ON, Canada</i>
Mohammad Khalil <i>Dhaka, Bangladesh</i>	Marcello Moccia <i>Naples, Italy</i>	Gail Ramiro <i>Manila, Philippines</i>	Nelleke Van Wouwe <i>Nashville, TN, USA</i>
Julia Kraemmer <i>Paris, France</i>	Jolynne Mokaya <i>Nairobi, Kenya</i>	Eva Reiter <i>Innsbruck, Austria</i>	Salvador Velazquez Osuna <i>Mexico City, Mexico</i>
Florian Krismer <i>Innsbruck, Austria</i>	Eddic Morales-Sánchez <i>Guadalajara, Mexico</i>	Daphne Robakis <i>New York, NY, USA</i>	Padmaja Vittal <i>Chicago, IL, USA</i>
Pardeep Kumar <i>New Delhi, India</i>	Adriana Moro <i>Curitiba, Brazil</i>	Sergio Rodríguez Quiroga <i>Buenos Aires, Argentina</i>	Ana Westenberger <i>Lübeck, Germany</i>
Jose Laffita-Mesa <i>Holguin, Cuba</i>	Dimitrios Nacopoulos <i>Cleveland, OH, USA</i>	Liana Rosenthal <i>Lutherville, MD, USA</i>	Brenton Wright <i>New York, NY, USA</i>
Rachael Lawson <i>Newcastle upon Tyne, United Kingdom</i>	Martin Nevrlý <i>Olomouc, Czech Republic</i>	Malco Rossi <i>Buenos Aires, Argentina</i>	Jinglin Zhang <i>Beijing, China</i>
	Flavia Niccolini <i>London, United Kingdom</i>	Valerie Rundle-Gonzalez <i>Gainesville, FL, USA</i>	

## How to Make the Most Out of the New MDS Website

— Hubert Fernandez, MD, Head, Movement Disorders, Cleveland Clinic, Cleveland, Ohio, USA; MDS Website Co-Editor

— Susan Fox, MRCP (UK), PhD, Associate Professor Neurology, University of Toronto, Toronto Western Hospital, Toronto, ON, Canada; MDS Website Co-Editor

If you haven't visited the new MDS website lately, we encourage you to do so and explore all that is new with resources, activities and educational information for our members.

The new website, which launched in April 2014, boasts a clean, fresh look with redesigned navigation and webpages, along with colorful photos and graphics – all while keeping the current content and information pertinent to society members.

From educational resources to movement disorders videos, rating scales, International Congress information and guest articles, there is myriad information to help our members. Among the many new features, you will notice that you can browse the website easily in different formats from any device, such as your tablet, laptop, or smartphone.

Here are a few common questions we have received and answers that we hope you will find helpful when navigating the new website.

**Q: As a member, can I still access the *Movement Disorders Journal* in the same way from the MDS website?**

**A:** Yes, you will find links to both the MDS *Movement Disorders* journal and the new *Movement Disorders - Clinical Practice* journal on the home page and on the “MDS Journals” tabs at top of every webpage.

**Q: The Video Library looks different. How do I find a video? Can I download a video?**

**A:** The Video Library is accessible from the home page under “Quick Links” as well as under the *Resources* tab at top of every page. Once in the library, you will be able to search videos by keyword or collection title. We have combined all MDS videos into one library to house our collection of over 1,600 videos.

These include: Case of the Month, Quick Opinion Please, *Movement Disorders-Clinical Practice*, International Congress, Society Snapshots, Oral Histories, Presidential Lectures, and the *Movement Disorders Journal*. Videos are not downloadable for security reasons; however, to request a video for personal use, please contact the Secretariat at [info@movementdisorders.org](mailto:info@movementdisorders.org).

**Q: I would like to register for a course. Where is the information for upcoming educational workshops and conferences?**

**A:** As we did on the old website, we have a webpage devoted exclusively to all of our educational offerings. It is accessible from the *Education* tab at top of every page. In addition, at the very bottom of the homepage, you will see a scrolling menu of upcoming educational courses. Also, we reformatted our Conference Calendar to make searching of conferences easier. The calendar may be found under the *News* tab at top of every webpage.

**Q: Has the *Members Only* area changed?**

**A:** No, but it has been improved to be easier to read and to find tools exclusively for members. You may find a link to this section from the homepage and from the *Members Only* link at top right corner of every page on the website.

**Q: Sometimes I have trouble viewing graphics and certain content on the new website. Is this a problem with the website or is it my computer?**

**A:** We have found that some users are viewing the website with outdated browsers or operating systems. We encourage you to update your web browser (Internet Explorer, Firefox, Safari or Chrome) in order to enjoy all of the new features of the website. Next time you visit [www.movement-disorders.org](http://www.movement-disorders.org), you should see a popup message which will instruct you on how to upgrade. There is also a link at the bottom of the homepage titled “*Website Viewing Tips*” with further information for making the most of the website.

**Q: Where can I find articles that were posted several years ago?**

**A:** We are continuing to transition content from the old to the new website. For the most part, you can now find archived materials under the *News* tab at the top of every page. Content dates back to approximately early 2008. If you cannot find something, try the Google custom search field at top of any page on the MDS website.

**Q: Where can I find information about the International Congress? How do I register or submit an abstract?**

**A:** The International Congress website functions the same way as it always has. To access the International Congress website, simply click on the scrolling banner at the top of the homepage. It is also accessible from the *International Congress* tab at top of every page. Registration and abstract submission information can be found on the MDS International Congress website at [www.mdscongress2015.org](http://www.mdscongress2015.org).

**Q: Does the new website still offer language translations, such as Spanish or Chinese?**

**A:** No, the old pages were outdated and now we rely on Google Translate for translating pages into one of more than 80 languages. This option may be found in the top right corner of every webpage.

**Q: I would like to connect with others in the field of Movement Disorders. Where do I find information about MDS social media groups?**

**A:** MDS has a vibrant and growing social media community, which includes more than 2,500 followers on Twitter, a robust group of close to 1,000 Facebook members, and a professional LinkedIn network. To connect with your colleagues and friends, simply visit the homepage and click on one of the social media icons at the bottom of the page.

**Q: How can I submit new content to be posted on the website?**

**A:** We welcome content suggestions any time. You may send us your ideas or proposals right from the website. Simply navigate to the *News* tab at the top of any webpage and click on “Submit Content for Website.”

We hope that these answers will help as you familiarize yourself with the new MDS website. We welcome your feedback and encourage you to send your questions or suggestions to the Website Manager, Heidi Friedrichs, at [hfriedrichs@movementdisorders.org](mailto:hfriedrichs@movementdisorders.org).



## Invitation to Comment on the Work of the MDS Task Force on the Definition of Parkinson's Disease

— Daniela Berg, MD, Professor, Neurologische Klinik, Abt., Tuebingen, Germany; Chair, MDS Task Force on the Definition of Parkinson's Disease

— Ron Postuma, MD, MSc, Associate Professor, Montreal General Hospital; Co-Chair, MDS Task Force on the Definition of Parkinson's Disease



In recognition of the profound changes in our understanding of Parkinson's disease (PD), the International Parkinson and Movement Disorder Society, with then-President Günther Deuschl, commissioned a task force to consider a redefinition of PD in 2012. Since then, the Task Force has considered the critical issues that challenge our PD definition, and prepared an introductory manuscript, published in the May 2014 edition of the *Movement Disorders Journal*. We also have created a first draft of new MDS PD diagnostic criteria, as well as research criteria for prodromal PD.



We are well aware that it is of utmost importance to have input and advice from our members, many of whom have contributed importantly to our

current understanding of PD. We have thus posted the introductory statement of the Task Force on the MDS website to enable rapid and fruitful feedback (<http://www.movementdisorders.org/MDS/News/Online-Web-Edition/In-This-Edition/Definition-of-PD-Overview.htm>). You may visit the link to read the paper and offer your feedback.

Also, at the International Congress in Stockholm, we introduced the Task Force's suggestions for MDS PD diagnostic criteria and research criteria for prodromal PD. We have already to which received constructive and helpful comments from many members.

To give all MDS members the opportunity to share their ideas, we have placed the Stockholm talks on the website.

Our criteria are still in draft form, and we have presented them as a means of opening dialogue. Please take the chance to be part of the process by giving your feedback on the website or directly to [daniela.berg@uni-tuebingen.de](mailto:daniela.berg@uni-tuebingen.de) or [ron.postuma@mcgill.ca](mailto:ron.postuma@mcgill.ca). Thank you for your time and consideration.

## In Memoriam: A Tribute to Prof. Moussa Traore

— Richard Walker, MD, Consultant Physician, Northumbria Healthcare NHS Foundation Trust, United Kingdom; Chair, MDS Task Force on Africa

Prof. Moussa Traore from the Department of Neurology, Teaching Hospital of Point G, Bamako, Mali, sadly died on August 5, 2014. For many years he had been Head of the Department of Neurology at Point G Teaching Hospital and had built up the Neurosciences Department at the University of Bamako. He had two terms as Dean of the School of Medicine. He was the organizer of the bi-annual International Congress of Bamako, the next one of which was scheduled for December 2014.

I first had the pleasure of meeting Moussa when he attended a special symposium on "Management of Parkinson's Disease in Africa" at the 13<sup>th</sup> International Movement Disorders Congress in Paris, France, in 2009. After the session he was very keen to volunteer to help with any initiatives. It was following this that the MDS Sub-Saharan Africa Special Interest Group was established. I was asked to Chair this and Prof. Traore was one Co-Chair (representing Francophone Africa) with Prof. Njide Okubadejo, from Nigeria, the other Co-Chair. He regularly attended meetings and was involved with phone conferences in relation to this. He was very determined to improve teaching about movement disorders in sub-Saharan Africa (SSA), and organised several neurology conferences in Bamako. I was lucky enough to be invited to one of these in 2011, along with Prof. Andrew Lees and Prof. Eduardo Tolosa, who are pictured at this meeting with Prof. Moussa. He was an exemplary host and organized the meeting with simultaneous translation from English to French and French to English so that everyone attending was involved. He also successfully campaigned for people in Mali to have free access to PD drugs which was very innovative for this region.

He will be greatly missed by his family, the MDS Task Force on Africa, and particularly by his other colleagues, as well as patients, in West Africa.



From left to right: Eduardo Tolosa, Moussa Traore, and Andrew Lees

## MDS-European Section Letter from the Chair

— Olivier Rascol, MD, PhD, Professor of Clinical Pharmacology at Toulouse University Hospital, Toulouse, France, Chair; MDS European Section



In the second half of 2014, the MDS-ES has been working to strengthen partnerships within Europe through developing collaborations for scientific meetings, partnering with patient associations, developing the ES national research networks, and expanding the MDS-ES educational programs. The MDS-ES Leadership was involved in two large

European neurology meetings in 2014: the Joint Congress of the EFNS-ENS, which was held in Istanbul, Turkey, May 31-June 3, and the 18th International Congress of Parkinson's Disease and Movement Disorders in Stockholm, Sweden, June 8-12, 2014. Following these meetings, the MDS-ES leadership began working with the newly formed European Academy of Neurology (EAN) on a future agreement. The MDS-ES enjoyed a fruitful collaboration with the European Federation of Neurological Societies (EFNS) for over ten years, and we aim to continue as a partner and leader in Movement Disorder education with the EAN. In the meantime, the MDS-ES is planning the movement disorders education for the 1st EAN Congress in Berlin, Germany, June 20-23, 2015, and for the 2nd EAN Congress in Copenhagen, Denmark, May 28-31, 2016. Another exciting new collaboration was the agreement with the European Association of Nuclear Medicine for the MDS-ES to organize a joint symposium at their annual meeting in Gothenburg, Sweden, October 18-22, 2014.

Another segment that the MDS-ES is working to develop collaborations with is patient groups. The MDS-ES, under the direction of Dr. Anette Schrag, has been working with the European Parkinson's Disease Association (EPDA) on their new project titled "My PD Journey", and a second potential collaboration that MDS-ES will be working on, under the direction of Prof. Werner Poewe, is the 2015 World Parkinson's Disease Day.

In addition to these initiatives, the MDS-ES has been working to provide a forum for researchers in Europe to exchange network experience and projects. There may be future potential funding opportunities in European networking, and in order to better understand

the organization of existing national PD networks within Europe the MDS-ES has been working to identify these networks and the available resources. I have appointed Prof. Huw Morris to lead the "MDS-ES National Research Networks" project, which met for the first time during the MDS Congress in Stockholm, Sweden. There is an unmet potential for sharing data and collaborating across countries, and our hope is to help facilitate future collaborations among MDS-ES members.

The MDS-ES is also expanding this collaborative spirit into the educational initiatives; the section partnered with the MDS Task Force on Africa to help Sub-Saharan African residents participate in educational courses and the MDS-ES Visiting Trainee Grant program, and has increased the number of Developing World Educational Programs in the region from one in 2013, to six in 2014. In fact, the Section has developed more courses in 2014 than any year prior, including orphan topic courses on PSP and MSA and a three-year teaching course series in Morocco that will complete in Casablanca in 2015. By increasing our educational portfolio, the MDS-ES has been able to reach more countries, including countries where programs have not been held previously. These countries include Bulgaria, Hungary, Moldova, Serbia, Slovenia, Udmurtia, and Ukraine.

In closing, it has been an active and collaborative year for the MDS-ES. Looking forward, the 2015 MDS-ES Nominating Committee has formed the slate of candidates for the MDS-ES leadership for the 2015-2017 term so that the work of the MDS-ES may continue to move forward.

Sincerely,

Olivier Rascol, MD, PhD  
Chair, MDS-ES



## Update on Parkinson's Disease and Movement Disorders (Developing World Education Program) – Dnipropetrovs'k, Ukraine, March 25–26, 2014

— Volodymyr Golyk, MD, PhD, Chair Neurology and Border States Department, Ukrainian State Institute of Medical and Social Problems of Disability, Dnipropetrovs'k, Ukraine



The “Update of Parkinson's Disease and Movement Disorders” was conducted for the first time in Dnipropetrovs'k, Ukraine, March 25–26, 2014, under the co-direction of Volodymyr Golyk, MD, PhD, from Dnipropetrovs'k, Ukraine, and Pille Taba, MD, PhD, from Tartu, Estonia.

This second MDS-endorsed teaching course in Ukraine aimed to improve awareness and clinical knowledge of Ukrainian neurologists in Parkinson's disease and movement disorders.

Ukrainian reality is that a majority of the medical, psychological and financial burden resulting from PD is not assisted by the governmental healthcare system. The Ukrainian neurological community

is in great need of updated and practical information in the field of Movement Disorders in order to treat the disease and inform patients against old diagnostic and treatment stereotypes amid growing awareness of Parkinson's disease.

This two day course covered the most recent research and updates on the etiology, pathogenesis, potential diagnostic markers and treatment modalities of Parkinson's disease and related disorders, bringing together distinguished scientists and clinicians with a wide range of expertise in this field. Pille Taba (Estonia), Angelo Antonini (Italy), Eduardo Tolosa (Spain), and Jaime Kulisevsky (Spain) were international MDS-ES faculty speakers for the course as well as all key Ukrainian professors-neurologists actively involved in Parkinson's disease and other movement disorders managing: Irina Karaban' (Kyiv), Sergiy Moskovko (Vinnitsa), Yanosh Sanotsky, (L'viv), Volodymyr Golyk (Dnipropetrovs'k), Tatyana Slobodin (Kyiv), Zinaida Rozhkova (Kyiv, neuroradiologist with special interest in PD and related disorders).

This teaching course was conducted during the difficult political situation in Ukraine and included a Travel Warning by the U.S. Department of State. Due to MDS policy, the international faculty were not able to travel to the region, resulting in the international faculty presenting real-time interactive presentations via the internet. Despite the difficult political situation in Ukraine, 98 participants from 15 of 27 country regions attended this successful course.

## MDS-ES Continuing Medical Education Course – Rabat, Morocco, April 18–19, 2014

— *Oaufae Messouak, PhD, Professor of Neurology, Wagram Energie, Fès, Morocco*

The second course of a three-year MDS-ES Developing World Education Program (DWEP) initiative was held in Rabat, Morocco, on April 18 and 19, 2014. The first iteration of the program was held in Fès, Morocco, in April 2013, and the final program will be held in Casablanca in the spring of 2015. This course series is particularly useful because there is a group of 30 participants from Morocco, Algeria, and Tunisia, that the MDS-ES grant is funding to attend the three consecutive programs. Overall there were 100 participants who benefited from the program in Rabat.

This year's program built on the foundation of motor and non-motor aspects of PD and dystonia that was presented in Fès, and focused on tremor, myoclonus, imaging, gait and atypical parkinsonism. Next year's program in Casablanca will focus on other areas of movement disorders that were not covered in 2013 and 2014, in order to give participants a full overview of movement disorders within the three-year program. Topics that are being considered include cognitive aspects of parkinsonism, Huntington's disease, psychogenic and drug-induced movement disorders.

An added event during the course in Morocco was a lively and enjoyable joint video session that was held in collaboration with the Moroccan Neurological Society Movement Disorders Group. We thank this group for their efforts and hope to continue this joint social event for the 2015 course.

A special thanks is extended to Prof. Messouak, who is leading the organization of the three-year implementation in Morocco; this year Prof. Messouak was assisted by Prof. Reggragi as the local organizer in Rabat, and Prof. Azulay from Marseille, France, as a member of the MDS-ES Education Committee. In addition, the lectures from both the Moroccan and MDS Faculty members were excellent, and the evaluations confirmed that the participants found the lectures engaging and informative.



*The participants of the 2014 MDS-ES Continuing Medical Education course in Rabat, Morocco.*

## Deep Brain Stimulation for Movement Disorders – Budapest, Hungary, September 11–12, 2014

— Gertrúd Tamás, MD, PhD, Semmelweis University, Budapest, Hungary

The “Deep Brain Stimulation for Movement Disorders” course that was held in Budapest, Hungary, on September 11 and 12, 2014, was the first course of a four-course DBS series that is planned in Europe. The MDS-European Section (MDS-ES) is pleased that the first course the section has hosted in Budapest was successful and an excellent kick-off for the series, which included a course in Milan, Italy, December 5–6, 2014, as well as upcoming courses in Barcelona, Spain, March 5–6, 2015 and Grenoble, France, September 10–11, 2015. This course was directed by Dr. Norbert Kovács, from Pécs, Hungary, Dr. Gertrúd Tamás from Budapest, Hungary, and Jens Volkmann, from Würzburg, Germany.

The first day covered a general introduction to Deep Brain Stimulation (DBS), as well as DBS for tremor, DBS for dystonia, DBS for Parkinson’s disease and surgical procedure and intraoperative neurophysiological monitoring. The second day included an introduction to programming DBS systems, a discussion of the postoperative adjustment period in advanced Parkinson’s disease, an overview of hardware-related complications, and a presentation on DBS for uncommon movement disorders. During the second-half of the second day, the participants broke into small groups to meet with



seven patients with implanted DBS system and discuss their treatment course, postoperative treatment problems and stimulation settings. There were 40 participants involved in the course from 11 different European countries, including Austria, Egypt, Germany, Hungary, Macedonia, Norway, Russia, Serbia, Spain, Turkey and Ukraine. The MDS-ES awarded ten travel bursaries for attendees from underserved areas to participate in the course.

Overall the participant evaluations were positive, and this course was a great opportunity to reach the Hungarian Parkinson’s disease community.



## 50 Years of Progressive Supranuclear Palsy – Munich, Germany, October 10–11, 2014

— Günter U. Höglinger, MD, Heisenberg-Professor of Neurology, German Center for Neurodegenerative Diseases e.V. (DZNE); Chair, MDS Progressive Supranuclear Palsy Study Group

In 1964, John Steele, J. Clifford Richardson, and Jerzy Olszewski provided the first clinicopathological description of a 'Heterogeneous Degeneration Involving the Brain Stem, Basal Ganglia and Cerebellum with Vertical Gaze and Pseudobulbar Palsy, Nuchal Dystonia and Dementia' for which they coined the term Progressive Supranuclear Palsy (PSP).

On October 10–11, 2014, the European Section of the International Parkinson and Movement Disorder Society conducted a Continuing

Medical Education Course in the Nymphenburg Palace of Munich in honor of the 50th anniversary of the first description of PSP.

John Steele, Guam, opened the meeting with a Keynote lecture on the milestones in past PSP research. He emphasized the importance of the definition of pathologically validated diagnostic criteria in 1996, the identification of environmentally caused PSP-phenocopies in Guam, Guadeloupe and Kii, the advances in understanding the genetic basis, the recent enlargement of the clinical spectrum by careful clinico-pathological descriptions, and the most recent discovery that the tau protein spreads in a prion-like manner through the nervous system in PSP.

The first block of lectures dealt with the clinical basics of PSP. Carlo Colosimo, Rome, presented the characteristics of the classical PSP manifestation, which is now termed Richardson's syndrome in reference to its initial description. Günter Höglinger, Munich, gave an overview on the atypical clinical presentations of PSP, foremost PSP with predominant Parkinsonism (PSP-P), with predominant Dementia (PSP-FTD), or Pure Akinesia with Gait Freezing (PAGF). Jan Kassubek, Ulm, demonstrated clinical and instrumental approaches to identify ocular movement deficits in PSP. Angelo Antonini, Venice, pointed to neuroradiological pearls to support the diagnosis of PSP, including predominant midbrain atrophy. David Burn, Newcastle, reviewed past studies on symptomatic therapies of PSP, most of which were neurotransmitter modulation approaches (e.g. Levodopa, Amantadine, Amitriptyline, Zolpidem), leading to incomplete and transient clinical benefit. Stefan Lorenzl, Munich, provided helpful guidelines for palliative care in PSP patients.

The second session was dedicated to the neurobiology of PSP. Eva Mandelkow, Bonn, elaborated on the physiological function of the microtubule associated protein tau in the healthy brain and its somatodendritic miss-sorting and aggregation in tauopathies. Huw Morris, London, presented the genetic predispositions and biochemical alterations leading to tauopathies. Luc Buée, Lille, reviewed insights on tauopathies obtained in animal models of the human disease. Brit Mollenhauer, Kassel, summarized past efforts to develop diagnostic biomarkers in blood or CSF, which have not yielded clinically relevant results so far. The neuropathology underlying PSP was demonstrated by Thomas Arzberger, Munich, focusing on the defining lesions, i.e. the 4R-tau aggregates in globose neurofibrillary tangles and tufted astrocytes, and on the variable components including anatomical diversities and co-morbidities. Olivier Rascol, Bordeaux, summarized the past successful efforts to develop feasible clinical trial designs for PSP and future needs regarding more stringent inclusion criteria, reliable readouts and natural history data. Wolfgang Oertel, Marburg provided an

*When I signed up for this course, I was a bit excited by the opportunity to have the most active researchers in the PSP all in one place, gathered round the idea of putting together the puzzle pieces of this devastating disorder.*

*In the very pleasant atmosphere of the Nymphenburg Palace, which proved more than an appropriate backdrop for such a jubilee, the meeting was opened by Professor John Steele. He presented the main breakthroughs in the revealing the mysteries of PSP over the last 50 years. As one of the witnesses of the very beginnings as well as the whole journey through the research and understanding of PSP, but still having that boyish curiosity and passion of a beginner, Prof. Steele reminded us, where we are now with the present knowledge and how to move forward in this journey.*

*In the very ambitious program, foremost experts in the genetics, pathophysiology, epidemiology, therapy, neuroradiology, to name but a few topics, crossed their way of thinking and managed to present the highlights in their field of expertise. The lecturers also helped us to analyze various concepts of investigation of PSP, by placing them in a context which gives precedence to an early diagnosis and early therapeutic interventions.*

*The course was very dynamic and interactive. It was interesting to hear conflicting views and animated debate on a variety of topics, which eventually produced plenty of new ideas for further investigations and opportunities for cooperation. On the other hand, the principal experts in this field were obligingly accessible which proved to be yet another benefit for the attendants.*

*While being fully aware that we all still have much to learn, following the end of the course, I got all the more confident that we have made substantial progress over these 50 years in understanding PSP and that promising therapies are on the horizon.*

*Milica Jecmenica Lukic  
Clinic of Neurology  
Belgrade, Serbia*

## Munich, Germany CONTINUED FROM PAGE 18

overview on possible therapeutic targets to treat PSP, including kinase inhibitors, OGA-inhibitors, microtubule-stabilizers, and tau-antibodies.

The last session dealt with advanced clinical issues related to PSP. John van Swieten, Rotterdam, and Thomas Bak, Edinburgh, presented the typical cognitive and behavioral changes of PSP patients, including apathy and mental slowing, and provided guidelines for their identification. Kailash Bhatia, London, aimed to delineate PSP vs. Corticobasal Degeneration (CBD); he concluded that the neuropathologically

defined diseases PSP and CBD appear to be distinct, albeit closely related entities, while there is a vast overlap of the clinical manifestations, rendering differential diagnosis on clinical grounds nearly impossible. Maria Stamelou, Athens, presented other diseases, which may mimic clinical features of PSP, including hereditary, infectious and drug-induced conditions as well as other sporadic neurodegenerative diseases, most of which require different treatment or genetic counseling. Ulrich Müller, Giessen, explained the genetically determined risk factors for PSP and the rare autosomal dominant MAPT mutations in familial PSP. Matteo Bologna, updated us on neurophysiological measures to help diagnosing PSP. Finally Richard Dodel, Marburg, showed that PSP strikingly impairs the quality of life of affected patients and caregivers, and emphasized the underlying urgent medical need to overcome this devastating disorder.

In summary, this workshop demonstrated impressively that, 50 years after its initial description, the international research community has made major steps ahead to understand the neuropathology, neurobiology, and clinical presentation of PSP. In recent years, the field has turned into a hot spot of translational research. While the goal, i.e. to prevent or to cure the disease, is not yet achieved, this exciting field of research is very dynamic by now, and expectations are high for major breakthroughs in the near future.



*Participants of the MDS-endorsed PSP Study group Education Course '50 years of Progressive Supranuclear Palsy' in October 2014 in Munich (Photo: Mark Janssen - MemoMoto).*

## 2nd Annual Allied Health Professional Summer School: Physiotherapy for People with Parkinson's – Torres Vedras (Lisbon), Portugal, September 25–27, 2014

— Joaquim Ferreira, MD, PhD, Professor of Neurology, University of Lisbon

The 2<sup>nd</sup> MDS Allied Health Professional Summer School: Physiotherapy for People with Parkinson's Disease took place in Torres Vedras, Portugal on September 25-27th, 2014. Young physiotherapists interested in training in the field of rehabilitation in Parkinson's disease, as well as those who already have had experience in movement disorders, were taught by an international group of clinicians and experts on physiotherapy and Parkinson's disease. It was attended by over 30 participants from 15 countries in Europe, America, Asia and Africa.

The summer school course included three intense days of training with lectures, panel discussions and practical demonstrations and patient interactions. The first day focused on topic presentations and discussion centered around Parkinson's disease, such as the pathology, the clinical picture, medical treatment options, DBS effects on gait and falls, motor learning, physiotherapy updates and optimizing multidisciplinary Parkinson's disease care. The second day focused on recommendations for physiotherapy in Parkinson's disease, going through history-taking, physical assessment and interventions on the core areas of physical therapy in Parkinson's disease. The third day covered simple and complex patient assessment and treatment

options. The participants were also introduced to the fundamentals of methodology of rehabilitation studies in Parkinson's disease.

Overall, this course was considered a great success and an exciting opportunity for physiotherapist throughout Europe and other continents to come together and learn about physiotherapy for Parkinson's disease.



## MDS-Asian and Oceanian Section Letter from the Chair

— Louis Tan, FRCP, Senior Consultant Neurologist, National Neuroscience Institute, Singapore; Chair, MDS-AOS



I am pleased to report that the members of MDS from the Asian-Oceanian region currently constitutes more than 30% of the membership of MDS. These 1,341 members consist of 33% Regular Members, 4% Health Professional (Non-Physician), 3% Junior members, 7% Associate Members, and 53% Waived Dues members.

In July 2014, the MDS-AOS accomplished another first by organizing its first Basic Science Summer School in Taipei. The summer school was attended by 42 participants from six countries and was the result of the hard work of Prof. Ruey-Meei (Robin) Wu and her Co-Directors Prof. Ryosuke Takahashi, Prof. Eng-King Tan and Prof. Carolyn Sue. We are grateful to them and to the other course faculty for their time and efforts in making this summer school a success.



To build on this success, we are already planning the 2<sup>nd</sup> Basic Science Summer School that will tentatively be held in Japan in 2015. Since the last *Moving Along* update, the MDS-AOS has helped fund two Outreach Education Programs in Roxas City, Philippines and Shanghai, Peoples Republic of China, organized by Dr. Cid Diesta and Dr. Xiaoping Wang respectively. The courses were very successful with each course educating over 200 individuals.

Additionally, the MDS-AOS Visiting Trainee Grant (previously the MDS-AOS Training Fellowship) has awarded four grants since its inception. The program has supported fellows from Vietnam, Malaysia, Taiwan and Singapore. The 2015 MDS-AOS Visiting Trainee Grant is currently accepting applications.

This year's highlight for the MDS-AOS was the 4<sup>th</sup> Asian and Oceanian Parkinson and Movement Disorders Congress (AOPMC) held in Pattaya, Thailand, November 28-30, 2014. We are grateful to Dr. Roongroj (Richard) Bhidayasiri, Chair of the AOPMC Scientific Committee and Local Organizing Committee; the various AOPMC Committees and the MDS International Secretariat for their hard work in putting the AOPMC together. We received 250 abstracts and 70 travel grant applications, and over 700 delegates at the Congress.

This Congress inaugurated two lectureships to honor MDS-AOS pioneers, Prof. Yoshikuno Mizuno and Prof. Philip Thompson, for their leadership and many contributions to the Section. These are the Yoshikuno Mizuno Lectureship and the Philip Thompson Lectureship. The recipients of the first Lectureship Awards are Prof. Nobutaka Hattori and Prof. Robert Iansek respectively.

Looking ahead, the MDS-AOS leadership also met in Pattaya, Thailand for a strategic planning retreat to chart and plan the next three to five years for the Section. Leadership renewal is also in progress and an MDS-AOS Nominations Committee has been formed, received nominations from MDS-AOS members and leadership, and has now proposed their recommended slate for the next MDS-AOS Officers and Executive Committee (2015 to 2017) to the Section and MDS leadership.

We thank all members for your support of MDS-AOS and look forward to more exciting activities in 2015.

With Best Regards

Louis Tan, FRCP  
Chair, MDS-AOS



## First Middle East Camp for Parkinson's, Movement Disorders and Neuromodulation – Dubai, UAE , April 12–13, 2014

— *Jawad A. Bajwa, MD, Assistant Professor of Neurology, KSBAUHS, Riyadh, Saudi Arabia; Course Director*

The First Middle East Camp for Parkinson's, Movement Disorders and Neuromodulation intended to create a dialogue between all regional stakeholders from academics, private practice and industry on how to bring about this meaningful change so to deliver evidence based care, training and research in the field of Parkinson's, Movement Disorders and neuromodulation. The mission was very successfully accomplished.

We had distinguished faculty representing four countries. Drs. Vitek, Oertel, Fernandez, Tan, Boholega, Machado and Bajwa represented unique and different strengths which complimented the scientific program very well. We had more than 150 participants from over 25 countries. The audience was engaged and the atmosphere was casual and interactive.

Almost all major educational themes were covered with special emphasis on medical and surgical management of Parkinson's disease and movement disorders. As with other MDS meetings, there was also a video dinner symposium which was well attended.

The meeting proved to achieve many milestones: It provided up-to-date discussion in the field to a very underserved region; it brought together a group of experts in the field from the region who can now start to assemble at minimum annually to discuss and plan regarding regional unmet needs; it facilitated discussion on fostering regional educational and research collaborations; and above all, it helped to bring evidence based care to this very in-need population.

The First Middle East Camp will transform into 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and so on, where each year a scientific themed based meeting will be organized rotating through various cities and countries in the region. It is expected that 2015 will provide a better platform and more robust interactions with the formation of "1<sup>st</sup> Middle East Movement Disorders Task Force" which will start to look at needs in the field and solutions for this ancient but evolving region.

I hope to see you all again for the 2<sup>nd</sup> Middle East Camp in Amman, Jordan, April 2-4, 2015!



## Third International Conference of PD and Movement Disorders – MDS-AOS Developing World Education Program – Shanghai, Peoples Republic of China, August 29–September 1, 2014

— *Xiao-Ping Wang, MD, PhD, Consultant Doctor at Shanghai First Peoples' Hospital in Shanghai, Peoples Republic of China*

As Conference Director of the 2014 MDS-AOS Developing World Education Program in Shanghai, I want to express my deep appreciation to all of you who contributed to the organization and realization of this great moment. The 3<sup>rd</sup> International Conference of PD and Movement Disorders took place on August 29 - September 1, 2014 in Shanghai, China. Over 200 people attended this conference, including domestic and overseas participants. Many renowned hospitals and institutions participated in the program including Peking Union Medical College Hospital, Beijing Hospital, Shanghai First People's Hospital, Shanghai Huashan Hospital, Shanghai Ruijin Hospital, Shanghai Zhongshan Hospital, Eastern China Hospital Shanghai, Institution of Neuroscience, Chinese Academy of Sciences, Zhongshan (Yat-sen) University Guangzhou, Fudan University, Sichuan University Hospital of Western China and Zhejiang University.

The conference mainly included two parts: rare case education of movement disorders on the first day and lectures covering the various aspects of basic neuroscience and clinical neurology on the second day. The program focused on movement disorders, parkinsonism, several fundamental aspects of biological sciences and the most recent advances in the field. The responses from participants have been fantastic, complimenting the primary objective, the scientific program, the cultural events program, the MDS International Secretariat, MDS-AOS and Local Committee organizations.

I would like to thank the Scientific Committee, Co-Chaired by Prof. Chen HB and Prof. Fan DS, for their hard work on producing an extraordinary scientific program. A big thanks must also be given to Prof. Mark Hallett who did an excellent job on his lecture on psychogenic movement disorders. The conference proudly benefited from the knowledge and experience shared by our international speakers including Prof. Ivan Bodis-Wollner, Prof. Louis Tan, Prof. Tim Anderson and Prof. Simon JG Lewis. Lecture topics included Parkinson's disease, functional movement disorders, ALS/FTD, Tardive dyskinesia, Wilson's disease and related fundamental research/ clinical practice.

I also would like to thank Shanghai First People's Hospital, headed by Prof. Xing-Peng Wang and assisted by Drs. Wu, Chen and Shen, for the outstanding social program presented in the Pyramidal International Conference Center to study extra-pyramidal systems and their related disorders. I would also like to express my appreciation to the National Educational Ministry of China, National Natural Science Foundation of China and Wang Kuancheng Education Fund. We could not realize this fantastic international event without their help. Finally, my biggest thanks are given to the MDS Secretariat, MDS President, Prof. Matthew Stern and Ms. Megan Daniels, because of their hard work and kind support.

Everyone has joined together to make this program a success. I could not be more proud to speak on behalf of more MDS activities in Shanghai, China. We look forward to working with MDS in the future!

## MDS-Pan American Section Letter from the Chair

— Jorge L. Juncos, MD, Associate Professor of Neurology, Emory University, Atlanta, Georgia, USA; Chair, MDS-PAS



The MDS Pan American Section has had a very successful year expanding its educational programs and membership.

- I. Expansion of Educational Programs in 2014. We expanded the outreach to nine countries that included 1,252 attendees.

- Dr. Manuel Jose Aguilar Urriola from Hospital Santo Tomas in Panama City, Panama is attending a one year fellowship program at the Federal University of Parana in Curitiba, Brazil under Prof. Hélio Teive.

Feedback from trainees so far has been very positive. In 2015, the MDS-PAS will grant up to \$40,000 in Visiting Trainee Grant awards

Program Name	Dates	Program Location	# Attendees
Outreach: 4th International Scientific Conference "Restauración Neurológica 2014"	March 5-7	Havana, Cuba	150
Treatment of Parkinson's Disease: Past, Present and Future	March 20-22	Miami, FL, USA	154
Botulinum Toxin in Neurological Practice	April 4	Santiago, Chile	68
Outreach: SEMANA NEUROLÓGICA 2014	June 16-21	Toluca, Mexico	531
Outreach: The 9th Brazilian Meeting of Movement Disorders	Aug. 21-23	Búzios, Brazil	143
MDS-PAS School for Young Neurologists	Sept. 11-13	Buenos Aires, Argentina	48
Outreach: Clinical Research in Movement Disorders Workshop	Oct. 2-3	Buenos Aires, Argentina	28
Outreach: VI annual meeting of the Center for Movement Disorders (CETRAM)	Oct. 4	Santiago, Chile	60
Allied Health Team Training for Parkinson's Disease	Nov. 13-15	San Diego, CA, USA	70
Total Educated			1,252

The above courses have been highly successful well beyond attendance. I would like to highlight the 'Semana Neurologica' in Toluca. The integration of our program into this very large regional Neurology meeting illustrates our growing skills at integrating Movement Disorder courses into large regional meetings designed for non-specialists. This has helped grow exposure to the International Parkinson and Movement Disorder Society and increased our membership. In 2015, we hope to make similar inroads into the general medical community who care for the vast majority of MD patients in much of the MDS-PAS region. Reaching out to the National non-specialty societies may require consideration of a new Affiliate Membership category. Under the leadership of Dr. Ricardo Lopez Contreras, El Salvador has led the way in these efforts. Finally, Dr. Santiago Perez-Lloret must be commended for the innovative course in Clinical Research in Movement Disorders, an exciting concept that our Education Committee is considering for export to other countries.

- II. We launched the Visiting Trainee Grant program which awarded geographically balanced grants to the following young neurologists who began Movement Disorder rotations in 2014:

- Daniel Martinez-Ramirez from Hospital Central Dr. Ignacio Morones Prieto San Luis in Potosí, Mexico is attending a one-year fellowship at University of Florida in Gainesville, FL, USA under Dr. Michael Okun.
- Dr. Yamil Matuk from is attending a six week fellowship program at the Center for Movement Disorders (CETRAM) in Santiago, Chile under Dr. Pedro Chaná.

to young neurologists who would like to rotate through Movement Disorder training programs throughout the region.

- III. As illustrated by the Toluca example above, we have begun exhibiting at local conferences to expand membership in countries throughout the region. Our success is highlighted by the membership growth. We are also trying to expand the use of Affiliate Memberships. For instance, in the case of countries adjacent to each other but with low representation in the Society, such as those in Central America, we are exploring the possibility of helping them organize into groups with Associate Member in the International Parkinson and Movement Disorder Society. This would help strengthen their representation in the Society and add to their ability to implement courses in Movement Disorders with the help of the MDS-PAS.

In summary, it has been a very successful year for the MDS-PAS, and we plan to continue to build on quality and outreach in 2015, while exploring more proactive and creative ways of financing these commitments.

Sincerely,

Jorge Juncos, MD  
Chair, MDS-PAS

## MDS-PAS Developing World Education Program: 4<sup>th</sup> International Scientific Conference “Restauración Neurológica 2014” – Havana, Cuba, March 5-7, 2014

— Nancy Pavón, MD, PhD, Centro Internacional de Restauración Neurológica in Havana, Cuba

MDS-PAS sponsored five doctors to speak on topics related to Parkinson’s disease at the 4<sup>th</sup> International Scientific Conference “Restauración Neurológica 2014” on March 5-7, 2014 in Havana, Cuba. The program was directed by MDS-PAS members, Dr. Nancy Pavón and Dr. Jorge Bergado.

The focus of the program was to offer a forum for basic neuroscience, clinical and surgical discussions on Parkinson’s disease and cerebellar ataxias along with a variety of other movement disorder



*It was the first MDS event to take place in Cuba. Photo courtesy of Michele Tagliati*



topics, including the presentation of current research and available treatments.

There were approximately 150 course participants from Argentina, Bolivia, Colombia, Cuba, Mexico, Spain, Turkey and the United States. The course was taught by local and international faculty; the MDS-PAS sponsored Dr. Jorge Juncos (Emory University), Dr. Irene Litvan (University of California San Diego), Dr. Jeremy Schmammann (Massachusetts General Hospital), Dr. Carlos Singer (University of Miami) and Dr. Michele Tagliati (Cedars-Sinai Medical Center in Los Angeles).



## MDS-PAS Uses of Botulinum Toxins in Neurology and Rehabilitation: A Practical Skills Workshop – Santiago, Chile, April 4, 2014

— Carolina Kunstmann, MD, Clinical Neurologist at Clínica Alemana and the Centro de Estudios de Trastornos del Movimiento (CETRAM), Santiago, Chile

The course *Uses of Botulinum Toxins in Neurology and Rehabilitation: A Practical Skills Workshop* took place on April 4, 2014 at the Clínica Alemana de Santiago in Santiago, Chile.

There were 68 participants from Argentina, Brazil, Chile, Mexico, Paraguay, Peru and Uruguay.

The course was taught by local and international faculty, including Dr. Carlos Singer (University of Miami), Dr. Federico Micheli (Hospital De Clinicas, University of Buenos Aires) and Dr. Tania Gutierrez (Clínica Alemana de Santiago) and directed by Doctors Carolina Kunstmann (Clínica Alemana de Santiago) and Pedro Chana Cuevas (Universidad de Santiago de Chile).

This course introduced the use of botulinum toxin with lectures on the scientific basis of the use of botulinum toxin and descriptions of the clinical forms of dystonia and spasticity. The afternoon video workshop presented video case studies and practical experience performing injections on mannequins, giving participants the basic skills needed to begin treatment of patients with these conditions.



*Dr. Carlos Singer uses a mannequin to demonstrate the injection of Botulinum Toxin which was described in his presentation about Cervical Dystonia.*



*Participants enjoy the opportunity to speak with faculty member, Dr. Federico Micheli, from Buenos Aires, Argentina.*



*Afternoon group breakout sessions gave participants the opportunity to interact with the faculty.*



*Dr. Tania Gutierrez works with participants to perform hands on demonstrations.*

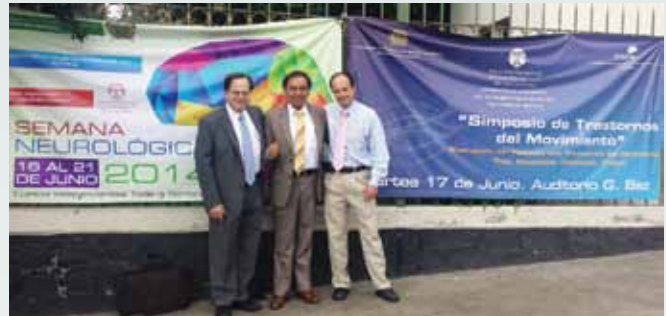
## MDS-PAS Ambassador Program at *Semana Neurológica* (“Neurology Week”) – Toluca, Mexico

— Oscar P. Gonzalez-Vargas, Sr., MD, Profesor de Neurología Facultad de Medicina UAEM

In June, the MDS-PAS hosted its first Ambassador Program at the *Semana Neurológica* at the Universidad Autónoma del Estado de México in Toluca, Mexico. The course attendance was 300 participants more than expected! The event attendees included 531 students, residents, nurses, primary care physicians, internists, general neurologists and neurosurgeons. Throughout the week different neurology topics were presented, including one day focusing on Movement Disorders.



Dr. Jorge Juncos from Emory University in Atlanta, GA, USA and Dr. Alberto Espay from the University of Cincinnati in Cincinnati, OH, USA served as MDS-PAS Ambassadors.



From left to right: Dr. Jorge Juncos (MDS-PAS Ambassador), Dr. Oscar González Vargas (Local Host/Director), Dr. Alberto Espay (MDS-PAS Ambassador).

## MDS-PAS Ambassador Program at The 9<sup>th</sup> Brazilian Meeting of Movement Disorders – Búzios, Brazil, August 21–23, 2014

— Egberto R. Barbosa, MD, Faculty of Medicine, University of São Paulo, Brazil

The GERIN (The Recycling and Investigation in Neurology Group), was created in 1999, by its Founder Members, Luiz Augusto F. Andrade (Albert Einstein Israeli Hospital – São Paulo), Egberto Reis Barbosa (University of São Paulo), Francisco Cardoso (Federal University of Minas Gerais) and Helio A.G. Teive (Federal University of Paraná). The mission of this group was to organize a “Brazilian Meeting of Movement Disorders” every other year, in different places throughout Brazil or neighboring countries.

These meetings gather four to five top international movement disorders specialists and local Brazilian lecturers. Currently, nine meetings have been held. There have been eight throughout Brazil and one in Punta Del Este, Uruguay.

The target audience was movement disorder specialists, general neurologists, therapists (physiotherapists, fonoaudiologists), functional neurosurgeons and psychiatrists. Throughout the three day event, attendees and faculty are encouraged to interact during the lectures, coffee breaks and other social events. The venue hotels and convention centers are chosen in remote areas in order to create a closer relationship between the audience and faculty. It is a truly unforgettable opportunity, which hopes to enable a great exchange of knowledge, favoring future interactions and collaborative work among specialists.

The MDS-PAS has given Ambassador Program support at the most recent meeting, the 9<sup>th</sup> Brazilian Meeting of Movement Disorders, held

in Búzios, a beautiful beach resort 100 miles north of Rio de Janeiro. In addition, the Brazilian Academy of Neurology continues to support the GERIN initiative.

The highlighted international speakers at this year’s event were Oscar Gershanik (Argentina), Andrew J. Lees (UK), Vincenzo Bonifati (Netherlands) and Anthony Lang (Canada). The audience was comprised of 140 participants.

The MDS-PAS would like to acknowledge Dr. Jasper Guimarães for the collaboration and preparation of the application for the Ambassador Program, as well as the Organizing Committee, Luiz Augusto Franco de Andrade, Egberto Reis Barbosa, Francisco Cardoso and Hélio Teive.



From left to right: Luiz A F Andrade (organizer), Egberto R Barbosa (organizer), Susan Chien (Brazilian faculty) and Orlando Barsotini (Brazilian faculty), and Vincenzo Bonifati (international faculty) and his wife Fiorella.



## MDS-PAS School for Young Neurologists – Buenos Aires, Argentina

— Tomoko Arakaki, MD, Hospital JM Ramos Mejía, Buenos Aires, Argentina

The 3<sup>rd</sup> MDS-PAS School for Young Neurologists took place from September 11-13 in Buenos Aires, Argentina. The course was attended by 48 participants from Brazil, Chile, Bolivia, El Salvador, Peru, Colombia, and Paraguay. In addition to local faculty, the course also hosted international speakers, including Dr. Jorge Juncos and Dr. Litvan from the United States, Prof. Cardoso from Brazil, and Dr. Chaná Cuevas from Chile.

The two and a half day course included lectures, video case presentations by faculty and students, and small group interaction with patients. This year, the school included a session on the treatment of dystonia using botulinum toxins and a session with a patient who had experienced Deep Brain Stimulation treatment.

The last day of the course, eight selected participants presented video case presentations which they had prepared in advance. The students voted, and the top video case presentation was awarded to Dr. Cynthia García Fernández for her presentation of a patient with Myoclonus renal failure syndrome.

The course feedback has proved that the course is very important to raising enthusiasm and education of young neurologists in the subspecialty of movement disorders. We look forward to the next Schools for Young Neurologists in the MDS Pan American Section in Atlanta and Mexico during 2015.



*The course is a great opportunity for young neurologists to network and interact with colleagues. In addition to the educational aspect of the course, it serves to raise general enthusiasm for the subspecialty of Movement Disorders among young neurologists.*



*The faculty and students enjoy the opportunity to work closely in small groups with the faculty. Dr. Chaná leads a small group discussion of participant video case presentations.*



*Dr. Litvan leads a small group of course participants through a patient visit.*



*Local and international course faculty with the participant video presentation winner, Dr. Cynthia García Fernández.*



## MDS-PAS Developing World Education Program: Clinical Research in Movement Disorders Workshop – Catholic University, October 2–3, 2014

— Santiago Perez-Lloret, MD, PhD, CPI, Catholic University, Buenos Aires, Argentina

Scientific research is essential for medical practice; however, research methodology is seldom included in the usual medical school curricula or covered by post-graduate courses. In order to close this educational gap, we designed a hands-on workshop with the aim of training participants for critical analysis of clinical research studies.

The workshop included over 30 participants coming from Argentina, Brazil, Canada, Chile, Colombia, Honduras, Mexico and Peru. The Workshop was supported by the International Parkinson and Movement Disorders Society – Pan American Section (MDS-PAS) and the Argentinean Ministry of Science and Technology.

The two day course included plenary lectures and practical group exercises. Lectures covered major aspects of clinical research studies, including study design, outcome selection and the effects of bias and expectation. The faculty was composed of Dr. Anthony Lang (Division of Neurology, University of Toronto, Canada), Dr. Cristina Sampaio (CHDI Foundation, USA), Dr. Marcelo Merello (Movement Disorders Section, Raul Carrea Institute for Neurological Research, Argentina), and Dr. Santiago Perez-Lloret (Laboratory of Epidemiology and Experimental Pharmacology, Catholic University, Argentina).

The hands-on activity included critical analysis of clinical research studies dealing with motor and non-motor symptoms of Parkinson's disease. Participants were asked to evaluate clinical trials on the basis of the theoretical concepts discussed in the plenary lectures



*MDS EBM Committee member, Dr. Cristina Sampaio, led discussion about evaluating clinical trials.*

and by using the Quality Rating Scale currently used by the MDS Evidence Based Medicine in Movement Disorders (EBM) Committee. The discussion was led by MDS EBM Committee members Cristina Sampaio and Santiago Perez-Lloret.

The event was the first of its kind in the region and received positive feedback from attendees. We would like to thank the MDS-PAS Chair, Dr. Jorge Juncos, and the MDS-PAS Education Committee Chair, Dr. Irene Litvan, for their constant and invaluable support. We would also like to thank the Catholic University for their material support.

## MDS-PAS Ambassador Program, Psychogenic Movement Disorders at The VI Annual Meeting of the Center for Movement Disorders – Santiago, Chile, October 4, 2014

— *Andrés De La Cerda, MD, Center for Movement Disorders (CETRAM), Santiago, Chile*

The International Parkinson and Movement Disorders Society-Pan American Section (MDS-PAS) Ambassador Program supported The VI annual meeting of the Center for Movement Disorders (CETRAM) in Santiago, Chile on October 4, 2014. The conference, for the first time in Chile, devoted an entire day to Functional (Psychogenic) Movement Disorders.

Dr. Anthony Lang and Dr. Alberto Espay served as MDS-PAS Ambassadors. The program was directed by local MDS-PAS members Dr. Andres De la Cerda and Dr. Pedro Chana.

The conference reviewed the phenomenological range, diagnostic methods, neurophysiology, recent functional neuroimaging studies, and the multidisciplinary management of functional movement disorders. It also included a review of available and experimental therapeutic modalities. The session included an important segment on practical issues with heavy reliance on video material. The sessions emphasized both the phenomenologic spread as well as the importance of recognizing bizarre (pseudofunctional) presentations of organic disorders. A session was devoted to the delicate process of delivering the diagnosis to patients with functional disorders, as the very first therapeutic intervention given the importance of ensuring patient's acceptance of the diagnosis and plan. The day-long symposium concluded with the discussion of challenging clinical scenarios, including the management of psychiatric co-morbidities and the role of collaborative partnerships between physicians and allied health providers involved in the care of these patients.

There were 60 attendees, including neurologists, psychiatrists, psychologists, physiotherapists, and occupational therapists. It was a well engaged audience with much participation, which further ensured the success of the event. The MDS-PAS Ambassadors also presented the many benefits of joining MDS. Based on the enthusiastic response, further growth in our society is expected to come from the neurological community of Santiago and Chile in the months and years to come.



*From left to right: Dr. Andrés De La Cerda (Course Director), Dr. Anthony Lang (MDS-PAS Ambassador), Dr. Alberto Espay (MDS-PAS Ambassador), and Dr. Carolina Kunstmann (local faculty).*



# 2015 MDS Educational Calendar

International Parkinson and  
Movement Disorder Society



## Sleep in Movement Disorders

January 30-31, 2015

Barcelona, Spain



## Alpha-Synuclein: The Gateway to Parkinsonism – Innsbruck

February 11-13, 2015

Innsbruck, Austria



## MDS-PAS School for Young Neurologists

February 21-22, 2015

Atlanta, GA, USA



## MDS-ES Winter School for Young Neurologists

February 25-27, 2015

Tel-Aviv, Israel



## Deep Brain Stimulation for Movement Disorders – Barcelona

March 5-6, 2015

Barcelona, Spain



## Evidence Based Medicine Update on Treatments for Parkinson's Disease

March 13, 2015

Salvador da Bahia, Brazil



## Deep Brain Stimulation for Movement Disorders

March 13-15, 2015

Seoul, Korea



## 2nd Middle East Camp for Parkinson's, Movement Disorders and Neuromodulation

April 2-4, 2015

Amman, Jordan



## China CE Classes for Parkinson and Movement Disorders

April 11-12, 2015

Hangzhou, China



## Fostering New Directions in Parkinson's Research

May 4-9, 2015

White Plains, NY, USA



## MDS Parkinson's Disease Educational Course for Industry Professionals

June 13, 2015

San Diego, CA USA



## Deep Brain Stimulation for Movement Disorders – Grenoble

September 10-11, 2015

Grenoble, France



## Bridges and Boundaries in Movement Disorders: The Role of Neuroimaging

November, 2015

Pisa, Italy

For our full list of courses, visit [www.movementdisorders.org/MDS/education.htm](http://www.movementdisorders.org/MDS/education.htm)