PRELIMINARY PROGRAM
17TH INTERNATIONAL CONGRESS OF PARKINSON’S DISEASE AND MOVEMENT DISORDERS

SYDNEY, AUSTRALIA
JUNE 16-20, 2013
IMPAX ON

Parkinson’s Disease

IMPAX proudly supports The Movement Disorder Society.
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Dear Colleagues,

On behalf of The Movement Disorder Society, we are pleased to formally invite you, for the first time, to the continent of Australia. Come to the “land down under” where the sun is warm, the culture is dynamic and the people are welcoming, to attend the 17th International Congress of Parkinson’s Disease and Movement Disorders in Sydney, June 16 - 20, 2013.

Situated next to long stretches of ocean and sandy beaches, Sydney is one of the largest, oldest and most multi-ethnic cities in Australia making it one of the world’s most beautiful places to live and visit. Let’s come together to learn about the latest research and therapies for movement disorders, collaborate with colleagues and actively participate in advancing the field of Movement Disorders, all while enjoying the history, sights, sounds, and tastes of Sydney and Australia.

We are looking forward to welcoming you to Sydney for the 17th International Congress and hope you will take part in the many exciting lectures and educational opportunities the 2013 International Congress offers.

With kind regards,

Günther Deuschl
President, The Movement Disorder Society, 2011-2013

David John Burn
Chair, Congress Scientific Program Committee, 2011-2013

Victor Fung
Co-Chair, Congress Scientific Program Committee, 2013
Acknowledgement of Support

The International Congress Oversight Committee of the 17th International Congress of Parkinson’s Disease and Movement Disorders wishes to acknowledge and thank the following companies for their support:

**Platinum Level**

- Abbvie
- Allergan
- Britannia Pharmaceuticals Ltd
- Ipsen
- Novartis

**Gold Level**

- Teva Neuroscience
- Teva Pharmaceutical Industries Ltd
- Lundbeck
- UCB

**Silver Level**

- Impax Pharmaceuticals

Above companies are confirmed as of January 22, 2013.
About MDS

The Movement Disorder Society (MDS) is an international, professional society of clinicians, scientists, and other healthcare professionals who are interested in Parkinson’s disease, related neurodegenerative and neurodevelopmental disorders, hyperkinetic movement disorders, and abnormalities in muscle tone and motor control. The spectrum of clinical disorders represented by the Society includes, but is not limited to:

- Ataxia
- Blepharospasm
- Dysphonia
- Dystonic disorders
- Gait disorders
- Huntington’s disease
- Myoclonus
- Parkinson’s disease
- Restless legs syndrome
- Spasticity
- Tardive dyskinesia
- Tics and Tourette syndrome
- Tremor

The Movement Disorder Society (MDS) was founded in 1985 on the initiative of Professors Stanley Fahn and C. David Marsden, whose leadership and vision guided the expansion of clinical expertise and research in this field. The organization merged in 1988 with the International Medical Society for Motor Disturbances.

Purpose, Mission And Goals

Purpose:
The objective and mission of the Society shall be to advance the neurological sciences pertaining to Movement Disorders; to improve the diagnosis and treatment of patients; to operate exclusively for scientific, scholarly and educational purposes; to encourage research; to provide forums, such as medical journals, scientific symposia and International Congresses, for sharing ideas and for advancing the related clinical and scientific disciplines; to encourage interest and participation in the activities of the Society among healthcare and allied professionals and scientists; and to collaborate with other related professional and lay organizations.

Mission and Goals:
To disseminate knowledge about Movement Disorders by:
- Providing educational programs for clinicians, scientists and the general public designed to advance scientific and clinical knowledge about Movement Disorders
- Sponsoring International Congresses and Symposia on Movement Disorders
- Collaborating with other international organizations and lay groups
- Publishing journals, videotapes and other collateral materials committed to high scientific standards and peer review

To promote research into causes, prevention and treatment of Movement Disorders by:
- Using the Society’s influence and resources to enhance support for research
- Facilitating the dissemination of information about research
- Encouraging the training of basic and clinical scientists in Movement Disorders and related disorders

For the purposes of favorably affecting the care of patients with Movement Disorders, the Society will provide expertise, advice and guidance to:
- Regulatory agencies to assist them in the approval process of safe and effective therapeutic interventions
- The public (media) and patient support groups by informing them of new research and therapeutic advances
- Governments to assist them in the development of policies that affect support of research and patient care
- Educational efforts to assist in developing standards of training in the specialty
About MDS

MDS Officers (2011-2013)

President
Günther Deuschl, Germany

President-Elect
Matthew Stern, USA

Secretary
Cynthia Comella, USA

Secretary-Elect
Francisco Cardoso, Brazil

Treasurer
Nir Giladi, Israel

Treasurer-Elect
Christopher Goetz, USA

Past-President
Philip Thompson, Australia

MDS International Executive Committee
Kailash Bhatia, United Kingdom
David John Burn, United Kingdom
Murat Emre, Turkey
Susan Fox, Canada
Victor Fung, Australia
Etienne Hirsch, France
Ryuji Kaji, Japan
Serge Przedborski, USA
Anthony Schapira, United Kingdom
A. Jon Stoessl, Canada

Joaquim Ferreira, Portugal
Susan Fox, Canada
Oscar Gershanik, Argentina
Glenda Halliday, Australia
Paul Krack, France
Anthony Lang, Canada
Irene Litvan, USA
Timothy Lynch, Ireland
Margarita Makoutonina, Australia
Pablo Martinez-Martin, Spain
Marcelo Merello, Argentina
Jose Obeso, Spain
Per Odin, Germany
Robert Rodnitzky, USA
Klaus Seppi, Austria
Philip Starr, USA
Matthew Stern, USA
Antonio Strafella, Canada
D. James Surmeier, USA
Ryosuke Takahashi, Japan
Louis Tan, Singapore
Philip Thompson, Australia

Past-Presidents
2009-2011 Philip Thompson, Australia
2007-2009 Anthony Lang, Canada
2005-2006 Andrew Lees, United Kingdom
2003-2004 C. Warren Olanow, USA
2001-2002 Werner Poewe, Austria
1999-2000 Mark Hallett, USA
1997-1998 Eduardo Tolosa, Spain
1995-1996 Joseph Jankovic, USA
1991-1994 C. David Marsden, United Kingdom
1988-1991 Stanley Fahn, USA

International Congress Oversight Committee
Chair: Anthony Lang, Canada
David John Burn, United Kingdom
Günther Deuschl, Germany
Victor Fung, Australia
Nir Giladi, Israel
Andrew Lees, United Kingdom
Matthew Stern, USA
Philip Thompson, Australia

Congress Local Organizing Committee
Chair: Victor Fung
Tim Anderson
Ainhi Ha
Andrew Hughes
Thomas Kimber
John O’Sullivan
Julian Rodrigues
Barry Snow
Rick Stell
Carolyn Sue
Philip Thompson
David Williams

International Medical Society for Motor Disturbances Past-Presidents
1993-1994 C. Warren Olanow, USA
1991-1992 Bastian Conrad, Germany
1989-1990 Mark Hallett, USA
1987-1988 Mario Manfredi, Italy
1985-1986 C. David Marsden, United Kingdom

MDS International Secretariat
The Movement Disorder Society
555 East Wells Street, Suite 1100
Milwaukee, WI 53202-3823 USA
Tel: +1 414-276-2145
Fax: +1 414-276-3349
E-mail: info@movementdisorders.org
Website: www.movementdisorders.org
International Congress Information

Dates
Sunday, June 16 through Thursday, June 20, 2013

Official Language
The official language of the International Congress is English.

Venue
The Sydney Convention and Exhibition Centre
Darling Harbour
Sydney NSW 2000
Australia

Exhibition
Manufacturers, distributors and suppliers of products and services for physicians and researchers involved with Movement Disorders are invited to participate in the International Congress exhibition. To receive a copy of the Exhibitor Prospectus, please contact the MDS International Secretariat at congress@movementdisorders.org or visit www.mdscongress2013.org. The exhibition is open to all registered delegates.

Abstract Poster Sessions
Poster Sessions will be featured Monday through Thursday during the International Congress to ensure delegates are given the opportunity to review as many abstracts as possible. Please visit www.mdscongress2013.org/abstracts for a detailed poster schedule, including information about the Guided Poster Tours.

Events
For more information about the events for the 17th International Congress, please see page 9.

Registration
Visit www.mdscongress2013.org/registration to register online.

Fees (in USD):
On or before April 19, 2013
MDS Member: .................................$550
Non-member: ....................................$750
Junior member/participant**: ..................$300
Health Professional (Non-Physician): ...........$300

From April 20 - May 17, 2013
MDS Member: .................................$600
Non-member: ....................................$800
Junior member/participant**: ..................$325
Health Professional (Non-Physician): ...........$325

From May 18 – June 20, 2013
MDS Member: .................................$650
Non-member: ....................................$850
Junior member/participant**: ..................$350
Health Professional (Non-Physician): ...........$350

The International Congress registration fee includes admission to all scientific sessions, Exhibit and Poster Hall, Welcome Ceremony, MDS Video Challenge and a meeting bag and documentation. Admission excludes guests and hotel accommodations.

**Participants born after January 1, 1983 (copy of official document required- please submit with registration form, without this document, the delegate will be charged the non-member rate)

Registration Confirmation
Attendees who register online will receive a confirmation message immediately. Please present this confirmation at the International Congress registration desk in Sydney in order to receive your registration materials.

Cancellation/Refund Policy
All cancellations must be requested in writing.
Up to May 17, 2013 (final pre-registration deadline):
100% refund, minus a $75 administrative charge
From May 18 – June 7, 2013: 50% refund
From June 8, 2013 onward: no refund

Group Registration
Companies registering groups of six or more individuals should contact the MDS Registration Bureau by completing a group registration form online: www.mdscongress2013.org/registration/group-registration.php. A username and password will be sent within a day or two to allow you to manage your own group.

Registration Desk
Name badges, scientific session tickets, purchased Welcome Ceremony Passes, and International Congress bags can be collected at the International Congress Registration Desk located in the Parkside Promenade on the Ground Level during the following hours**:

Saturday, June 15 .................................16:00 – 20:00
Sunday, June 16 .................................7:00 – 18:00
Monday, June 17 .................................7:00 – 18:00
Tuesday, June 18 .................................7:00 – 18:00
Wednesday, June 19 ..........................7:00 – 18:00
Thursday, June 20 ..............................7:00 – 16:00

**Please note that these hours are subject to change. Please watch for updated schedules at www.mdscongress2013.org and look for the schedule in the Final Program.
International Congress Information

Scientific Sessions

The 2013 Scientific Program will incorporate Therapeutic Plenary Sessions, Plenary and Parallel Sessions, Teaching Courses, Video Sessions, Skills Workshops, Guided Poster Tours and Blue Ribbon Highlights.

Sessions will focus on the latest developments in:
- Genetics in Movement Disorders
- Movement Disorder topics, including, but not limited to, ataxia, chorea, dystonia, myoclonus, Parkinson’s disease, restless legs syndrome, spasticity, stereotypes, tics and tremors
- Basic Science issues, including, but not limited to, genetics, neuroimaging, neuropharmacology, surgical therapy and transplantation
- Other less common clinical conditions

Special Accessibility Needs

Delegates requiring special arrangements in order to fully participate in the International Congress should provide a written description of such needs on their registration form or send an e-mail to congress@movementdisorders.org. To ensure appropriate accommodations, all special needs should be addressed in advance with the MDS International Secretariat.

Camera Policy

Cameras are not permitted in any 17th International Congress educational sessions or in the poster areas.

Weather

The average daytime temperature in Sydney in June is approximately 50°F (10°C).

Currency

The exchange rate for US Dollars as of January 18 is:
1 USD = .95 AUD

Events

Welcome Ceremony

Sunday, June 16, 2013
19:30 to 21:30

All International Congress attendees are warmly invited to meet friends and colleagues during the traditional International Congress Welcome Ceremony at the Sydney Convention and Exhibition Centre. This event is open to all registered delegates. Guests are able to purchase a Welcome Ceremony Pass that will allow them admission to this event. Please see below for more information on the Welcome Ceremony Pass.

Welcome Ceremony Pass

Participants who wish to bring an accompanying guest to the Welcome Ceremony may purchase a Welcome Ceremony Pass for $40 USD as part of their registration process. This Pass can only be used during the evening of the Welcome Ceremony on Sunday, June 16, 2013.

MDS Video Challenge

Wednesday, June 19, 2013
19:00 – 22:00

Please join Masters of Ceremony Anthony Lang and Kapil Sethi as they host a world-renowned panel of Movement Disorders experts in guiding participants through unique Movement Disorder cases. The cases will be presented by representatives from Movement Disorder Centers around the world and discussed by the Panel of Experts. Awards will be given for the most interesting and challenging cases. Country pride will add an enjoyable spirit of competition to this event. The goal of this session is for attendees to learn from a series of unusual, very interesting patients and see how senior experts approach these types of challenging cases.

The Panel of Experts are:
- Kailash Bhatia, London, United Kingdom
- Marina De Koning-Tijssen, Groningen, Netherlands
- Werner Poewe, Innsbruck, Austria
- Rick Stell, Perth, Australia
- Eng-King Tan, Singapore

Following the International Congress, the cases presented could be developed further for publication in the Journal or presentation on the Society’s website. This event is open to all registered delegates. For more information about the MDS Video Challenge, please contact Sarah Smith at ssmith@movementdisorders.org.
CME Information

Purpose
The purpose of the MDS International Congress is to offer a forum for clinical and basic discussion on a variety of Movement Disorder topics, including presentations of current research and available treatments.

Learning Objectives
Through state-of-the-art lectures, hot topic reviews, controversy debates, teaching courses, skills workshops and video sessions, participants will be better able to:
1. Describe the pathophysiology and neurobiology of Parkinson’s disease and other movement disorders;
2. Discuss the diagnostic approaches and tools available for Parkinson’s disease and other movement disorders;
3. Discuss the pharmacological and non-pharmacological treatment options available for Parkinson’s disease and other movement disorders.

Continuing Medical Education
The Movement Disorder Society is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Accreditation Statement
The Movement Disorder Society designates this live activity for a maximum of 35.5 AMA PRA Category 1 Credits™. Physicians should claim only credit commensurate with the extent of their participation in the activity. An application has been made to the EACCME® for CME accreditation of this event.

Target Audience
The target audience of the 17th International Congress of Parkinson’s Disease and Movement Disorders includes clinicians, researchers, post-doctoral fellows, medical residents, medical students and other healthcare professionals with an interest in the current research and approaches for the diagnosis and treatment of movement disorders.

Faculty Financial Disclosure Information
It is the policy of The Movement Disorder Society (MDS) to ensure balance, independence, objectivity and scientific rigor in all sponsored educational activities. All faculty participating in any MDS sponsored activities are required to disclose to the activity audience any real or apparent conflict(s) of interest that may have a direct bearing on the subject matter of the Continuing Medical Education (CME) activity. This pertains to relationships with pharmaceutical companies, biomedical device manufacturers, or other corporations whose products or services are related to the subject matter of the presentation topic. The intent of this policy is not to prevent a speaker with a potential conflict of interest from making a presentation. It is merely intended that any potential conflict should be identified openly so that the listeners may form their own judgments about the presentation with the full disclosure of the facts. It remains for the audience to determine whether the speaker’s outside interest may reflect a possible bias in either the exposition or the conclusions presented.

Faculty financial disclosure information will be provided to participants in Sydney.
# Program-at-a-Glance

**Sunday, June 16, 2013**

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<thead>
<tr>
<th>Time</th>
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<td>Committee Meetings 7:00 - 8:00</td>
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<td>7:30</td>
<td>Therapeutic Plenary Session I 8:00 - 10:00</td>
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<td>8:30</td>
<td>General Assemblies 10:00 - 11:00</td>
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<td>10:00</td>
<td>Therapeutic Plenary Session II 11:00 - 13:00</td>
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<td>10:30</td>
<td>Guided Poster Tours/Poster Sessions 12:30 - 14:00</td>
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<td>12:00</td>
<td>Corporate Therapeutic Symposia 14:00 - 15:00</td>
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MDS 17th International Congress Session Definitions

Blue Ribbon Highlights:
This session will provide a critical review of the best poster presentations by a panel of experts, highlighting the relevance, novelty and quality of both clinical and basic research presented by the delegates.

Controversies:
This Plenary Session is designed to involve all International Congress attendees. Content is prepared to stimulate interest and debate among a panel of experts. Views from several angles will be addressed as discussion of pre-selected “hot” topics will be open for debate among the panelists.

Corporate Therapeutic Symposia:
These company-based informational sessions will provide attendees with non-CME educational opportunities to learn the latest in therapeutics.

Guided Poster Tours:
Guided Poster Tours will give small groups of delegates an opportunity to hear discussion on a select group of abstracts in several sub-categories.

Parallel Sessions:
These concurrent sessions provide an in-depth report of the latest research findings, state-of-the-art treatment options, as well as a discussion of future strategies. Parallel sessions will have evidence-based components and incorporate the “hot” issues in Parkinson’s disease and other movement disorders.

Plenary Sessions:
These sessions provide a broad overview of the latest clinical and basic science research findings and state-of-the-art information.

Poster Sessions:
Poster sessions give each delegate an opportunity to view their colleagues’ posters on the most current research in the field of Movement Disorders. Authors will be present for 1.5 hours each day to explain their work and answer questions.

Skills Workshops:
These clinic-based training sessions provide an educational illustration of clinical techniques and treatment procedures through demonstrations utilizing patient videotapes and proper equipment to further develop practitioners’ skills and knowledge within the field of treatment of movement disorders.

Teaching Courses:
These educational programs provide up-to-date information focused on a single topic. The sessions highlight both the clinical and basic science of topics of relevance to Movement Disorder specialists. The sessions are unique in providing a syllabus that includes a review of the topic and the presentation slides. In addition, these programs provide ample time for questions and a discussion period at the conclusion of the presentations.

Therapeutic Plenary Sessions:
These sessions provide the latest information regarding the scientific and clinical evidence supporting treatment options for Parkinson’s disease and other movement disorders.

Video Sessions:
Designed to provide a broad overview of related movement disorders, the video sessions will focus on the phenomenology covering the many different kinds of movement disorders affecting the population today.

Special Meeting Theme
Clinicopathological Correlations in Movement Disorders – From Bench to Bedside

At each annual International Congress, the Congress Scientific Program Committee selects a theme that is highlighted throughout the meeting. This year’s theme, “Clinicopathological Correlations in Movement Disorders — From Bench to Bedside” will be showcased in two Plenary Sessions, eight Parallel Sessions, one Skills Workshop, one Teaching Course, and one Video Session. International experts will serve as faculty, and the meeting participants can elect to attend any or all of the sessions. These sessions are designated with a 🌟.
# 1105 Therapeutic Plenary Session I

**Experimental therapeutics in hypo/hyperkinetic movement disorders**

**8:00 – 10:00**

**Chairs:** Thomas Foltynie  
London, United Kingdom  
Werner Poewe  
Innsbruck, Austria

**8:00** What has been achieved in strategies to repair the brain in Parkinson’s disease?  
Stephane Palfi  
Creteil, France

**8:40** What has been achieved in strategies to repair the brain in Huntington’s disease?  
Thomas Freeman  
Tampa, FL, USA

**9:20** What are the future experimental therapies for movement disorders?  
Thomas Foltynie  
London, United Kingdom

At the conclusion of this session, participants should be better able to:

1. Assess the current status of experimental therapeutics in Parkinson’s disease  
2. Assess the current status of experimental therapeutics in Huntington’s disease  
3. Understand the new experimental therapeutics being considered for movement disorders

**Recommended Audience:** Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

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# 1106 Therapeutic Plenary Session II

**Deep Brain Stimulation: New developments**

**11:00 – 13:00**

**Chairs:** Andres Lozano  
Toronto, ON, Canada  
Peter Silburn  
Spring Hill, Australia

**11:00** Pedunculopontine (PPN) Deep Brain Stimulation (DBS): Does it really work?  
Elena Moro  
Grenoble, France

**11:40** Subthalamic nucleus (STN) DBS: The new target for primary dystonia  
Jill Ostrem  
San Francisco, CA, USA

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# 1107 Therapeutic Plenary Session III

**Management of the Parkinson’s disease journey**

**14:30 – 16:30**

**Chairs:** Christopher Goetz  
Chicago, IL, USA  
Heinz Reichmann  
Dresden, Germany

**14:30** How close are we to individualized medicine for Parkinson’s disease?  
Beom Jeon  
Seoul, Korea

**15:10** What is the best decision-tree for the management of Parkinson’s disease?  
Carl Clarke  
Birmingham, United Kingdom

**15:50** What to do when everything else has failed  
Janis Miyasaki  
Toronto, ON, Canada

At the conclusion of this session, participants should be better able to:

1. Recognize how therapeutic decisions and other practices can be tailored to the individual Parkinson’s disease patient by the use of clinical and genetic information and discuss how the concept of patient-specific medical care applies to Parkinson’s disease  
2. Support informed treatment-decision options in the management of Parkinson’s disease  
3. Gain awareness of the benefits of palliative care and other therapeutic interventions for late stage Parkinson’s disease patients

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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# 1108 Therapeutic Plenary Session IV

**Therapeutic options for mood, cognition and psychosis in Parkinson’s disease patients:**

**17:00 – 19:00**

**Chairs:** John Dalrymple-Alford  
Christchurch, New Zealand  
Marcelo Merello  
Buenos Aires, Argentina

**17:00** How to treat the anxious and depressed Parkinson’s disease patient  
Daniel Weintraub  
Ardmore, PA, USA

**17:40** How to treat the Parkinson’s disease patient with cognitive impairment  
Jennifer Goldman  
Chicago, IL, USA

**18:20** How to treat the Parkinson’s disease patient with psychosis  
Sergio Starkstein  
Fremantle, Australia

At the conclusion of this session, participants should be better able to:

1. Understand the issues involved in selecting the best options for treating mood disorders in Parkinson’s disease  
2. Review the drugs available for treating cognitive impairment in Parkinson’s disease  
3. Evaluate treatments available for reducing psychosis in Parkinson’s disease without worsening motor symptoms

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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**Welcome Ceremony**

**19:30 – 21:30**
### Monday, June 17, 2013

#### 2103 Plenary Session V

**Clinicopathological correlations in Parkinson’s disease**

**8:00 – 10:00**

**Chairs:** Stanley Fahn  
New York, NY, USA  
Andrew Lees  
London, United Kingdom

- **8:00** Ante-mortem diagnosis of Parkinson’s disease  
Andrew Lees  
London, United Kingdom

- **8:40** The natural history of Parkinson’s disease  
Mariese Anne Hely  
Bowral, Australia

- **9:20** Neuropathological correlations of motor and non-motor symptoms in Parkinson’s disease  
Peter Kempster  
Clayton, Australia

At the conclusion of this session, participants should be better able to:
1. Understand the main challenges in accurate ante-mortem diagnosis of Parkinson’s disease
2. Understand the natural history of Parkinson’s disease in the modern era
3. Understand the neuropathological correlates of motor and non-motor symptoms in Parkinson’s disease

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

#### 2104 Plenary Session VI, cont.

- **11:50** The unraveling of paroxysmal dyskinesia  
Kailash Bhatia  
London, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Use the new definition of dystonia and understand the physiology underlying the phenomenology
2. Understand how to classify patients with dystonia
3. Gain awareness of how recent genetic discoveries have improved our clinical and pathophysiological understanding of the paroxysmal dyskinesias (kinesigenic, exertional and non-kinesigenic)

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

#### 2206 Parallel Session

**Inclusions in Parkinson’s disease: The link between pathology and molecular biology**

**15:30 – 17:30**

**Chairs:** Glenda Halliday  
Randwick, Australia  
Yoshikuni Mizuno  
Tokyo, Japan

- **15:30** What do monogenic forms of Parkinson’s disease tell us about IPD?  
Tamas Revesz  
London, United Kingdom

- **16:10** GWAS and pathology: How are they connected?  
Tatsuishi Toda  
Kobe, Japan

- **16:50** Is the Lewy body telling us anything useful about the pathogenesis of Parkinson’s disease?  
Glenda Halliday  
Randwick, Australia

At the conclusion of this session, participants should be better able to:
1. Understand the pathology found in Mendelian forms of Parkinson’s disease and its implications for the more common sporadic IPD
2. Understand how genetic risks for Parkinson’s disease in a population relate to the neuropathology and inclusions found in patients

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

#### 2207 Parallel Session

**The basal ganglia in health and disease**

**15:30 – 17:30**

**Chairs:** Jose Obeso  
Pamplona, Spain  
John Rothwell  
London, United Kingdom

- **15:30** New methods to shed light on the basal ganglia  
J. Paul Bolam  
Oxford, United Kingdom

- **16:10** Basal ganglia in health  
John Rothwell  
London, United Kingdom

- **16:50** Basal ganglia in disease  
Jose Obeso  
Pamplona, Spain

At the conclusion of this session, participants should be better able to:
1. Understand the concepts of novel methods now available for investigating basal ganglia function
2. Understand the normal functions of the basal ganglia
3. Discuss how basal ganglia dysfunction leads to hypo and hyper kinetic movement disorders

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

#### 2208 Parallel Session

**Impulsivity, addiction and reward mechanisms in movement disorders**

**15:30 – 17:30**

**Chairs:** Andrew Evans  
Hawthorn, Australia  
Antonio Strafella  
Toronto, ON, Canada

- **15:30** The pathophysiology of impulsivity and addiction  
Anthony Grace  
Pittsburgh, PA, USA
Monday, June 17, 2013

2208 Parallel Session

16:10 In vivo models of impulsivity and addiction
Catherine Winstanley
Vancouver, BC, Canada

16:50 Clinical overview of ICDs, DDS and related disorders
Andrew Evans
Hawthorn, Australia

At the conclusion of this session, participants should be better able to:
1. Recognize the anatomical basis of impulsivity, addiction and parallels with other forms of addiction
2. Understand the animal models of impulsivity and addiction
3. Recognize the clinical features of impulse control disorders and DDS in movement disorders

Recommended Audience: Basic scientists, Clinical academicians, Students/Residents/Trainees

2209 Parallel Session

Racial and socioeconomic disparities in Parkinson’s disease diagnosis, treatment and clinical outcomes
15:30 – 17:30

Chairs: Nicte Mejia
Somerville, MA, USA
Lisa Shulman
Baltimore, MD, USA

15:30 Racial disparities
Nabila Dahodwala
Philadelphia, PA, USA

16:10 Socioeconomic disparities
Nicte Mejia
Somerville, MA, USA

16:50 Geographic disparities
Catherine Dotchin
North Shields, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Understand racial and socioeconomic differences in Parkinson’s disease diagnosis
2. Discuss the impact of race and socioeconomic factors on Parkinson’s disease treatment and clinical outcomes
3. Gain awareness of possible clinical interventions to address racial and socioeconomic disparities in Parkinson’s disease diagnosis, treatment and clinical outcomes

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

2210 Parallel Session

15:30 Movement disorders associated to auto-antibodies

Chairs: Francisco Cardoso
Belo Horizonte, Brazil
Russell Dale
Sydney, Australia

16:10 Movement disorders associated with anti-NMDAR antibodies
Thomas Kimber
Adelaide, Australia

16:50 Movement disorders associated with novel antibodies
Sarosh Irani
Oxford, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Recognize the movement disorders associated with anti-basal ganglia antibodies
2. Discuss the mechanisms underlying movement disorders associated to auto-antibodies
3. Propose management strategies for movement disorders associated to auto-antibodies

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

2211 Parallel Session

16:50 Deep Brain Stimulation
Vincent Mok
Shatin, China

At the conclusion of this session, participants should be better able to:
1. Describe apomorphine infusion therapy with focus on critical factors for reaching optimal effect and management of the most common complications and side effects
2. Review levodopa infusion therapy with focus on critical factors for reaching optimal effect and management of the most common complications and side effects
3. Evaluate Deep Brain Stimulation with focus on critical factors for reaching optimal effect and management of the most common complications and side effects

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

2308 Teaching Course

Movement disorders and epilepsy
15:30 – 17:30

Chairs: Sam Berkovic
Heidelberg West, Australia
Carlo Colosimo
Rome, Italy

15:30 The relationship between myoclonus and epilepsy: New insights from neurophysiological and genetic studies in myoclonus dystonia and familial cortical tremor
Akio Ikeda
Kyoto, Japan

16:10 The relationship between paroxysmal dystonia and epilepsy: Lessons from recent genetic advances
Ingrid Scheffer
Melbourne, Australia

16:50 Update on the diagnosis and genetics of the progressive myoclonic epilepsies
Sam Berkovic
Heidelberg West, Australia

At the conclusion of this session, participants should be better able to:
1. Understand the relationship between myoclonus and epilepsy
Monday, June 17, 2013

**2308 Teaching Course**

2. Recognize the clinical and genetic overlap between parkinsonian movement disorders (especially the paroxysmal dyskinesias) and epilepsy
3. Learn an approach to the differential diagnosis and investigation of a patient with the syndrome of progressive myoclonic epilepsy and/or progressive myoclonic ataxia

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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**2309 Teaching Course**

Biomarkers for early Parkinson’s disease

15:30 – 17:30

Chairs: Charles Adler
Scottsdale, AZ, USA
Daniela Berg
Tübingen, Germany

**16:10**

Genetic, biochemical and tissue biomarkers

Pascal Derkinderen
Nantes, France

**16:50**

Imaging biomarkers

Klaus Seggi
Innsbruck, Austria

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**2403 Skills Workshop**

Next generation genetics for clinicians

18:00 – 19:30

*In this interactive session, participants will be better able to interpret the results obtained with new generation genetic methods and understand recent and future developments in disease genetics.*

Thomas Gasser
Tübingen, Germany

Nicholas Wood
London, United Kingdom

At the conclusion of this session, participants should be better able to:

1. Provide an overview of recent and future developments in disease genetics, and opportunities associated with these methods
2. Enable critical review of publications that use next generation genetic methods
3. Discuss the likely long term implication of these methods for clinical diagnosis and treatment

Recommended Audience: Basic scientists, Clinical academicians, Practitioners

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**2404 Skills Workshop**

The use of rating scales for hyperkinetic disorders in clinical practice

18:00 – 19:30

*In this interactive session, participants will be better able to recognize the attributes and performance of the most relevant rating scales for evaluation of such disorders as dystonia, chorea, and other hyperkinetic disorders in clinical practice. Evidence favoring the preferential selection of measures for different applications will be discussed.*

Carlo Colosimo
Rome, Italy

Cynthia Comella
Chicago, IL, USA

At the conclusion of this session, participants should be better able to:

1. Recognize the characteristics of the most relevant rating scales for evaluation of hyperkinetic disorders
2. Understand the correct application and interpretation of these scales in clinical practice

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**2405 Skills Workshop**

Eye movements and movement disorders

18:00 – 19:30

*In this interactive session, participants will be better able to recognize the most frequent eye movement disorders and learn how to examine them.*

Tim Anderson
Christchurch, New Zealand
R. John Leigh
Cleveland, OH, USA

At the conclusion of this session, participants should be better able to:

1. Describe the most appropriate tests in movement disorders and understand the underlying functional systems
2. Identify eye movement abnormalities in disease of cerebellum
3. Identify oculomotor syndromes in extrapyramidal disorders

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

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**2406 Skills Workshop**

Movement disorders in mitochondrial diseases: A practical approach

18:00 – 19:30

*In this interactive session, participants will be better able to appreciate the spectrum of movement disorders that can occur in patients with a mitochondrial disease, and to discuss the practical diagnostic and therapeutic management of such patients.*

Anthony Schapira
London, United Kingdom
Carolyn Sue
Sydney, Australia
Monday, June 17, 2013

2406 Skills Workshop [TICKET], cont.
At the conclusion of this session, participants should be better able to:
1. Appreciate the spectrum of movement disorders that can occur in patients with a mitochondrial disease
2. Summarize the diagnostic options that are available to diagnose mitochondrial diseases
3. Discuss the existing and experimental management options for patients with mitochondrial diseases
Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

2407 Skills Workshop [TICKET]
How to develop and run a brain bank
18:00 – 19:30
In this interactive session, the faculty will review the objectives and relevancy of brain banks in the field of movement disorders. Faculty will also address questions related with the registry of clinical data, recruitment of participants and the technical details of processing brains donated for research and the ethical principles safeguarding the running of a brain bank.
Dennis Dickson
Jacksonville, FL, USA
Jillian Kril
Sydney, Australia

At the conclusion of this session, participants should be better able to:
1. Describe the main structure of a brain bank
2. Recognize the technicalities in collecting, storing, and distributing brain and other tissues for research
3. Discuss the contribution of brain banks to progress in movement disorders
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

Unusual presentation of common movement disorders
18:00 – 19:30
In this interactive session, participants will be better able to recognize the spectrum of unusual presentations of common movement disorders, and to discuss the practical diagnostic work-up in such patients.
Alberto Espay
Cincinnati, OH, USA
Evzen Ruzicka
Prague, Czech Republic

At the conclusion of this session, participants should be better able to:
1. Recognize the spectrum of unusual presentations of common movement disorders
2. Appreciate that unusual presentations of common movement disorders are much more common than typical presentations of unusual movement disorders
3. Discuss the practical diagnostic work-up in patients with an unusual presentation of a common movement disorder
Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees

2509 Video Session [TICKET], cont.
Metabolic disorders: A frequently neglected or unrecognized cause of movement disorders
18:00 – 19:30
In this interactive session, participants will be better able to identify and recognize movement disorders caused by neurometabolic diseases in both children and adults, and the contributions of neuroimaging to their diagnosis.
Hyder Jinnah
Atlanta, GA, USA
Manju Kurian
London, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Identify characteristic movement disorders and syndromes that indicate underlying neurometabolic diseases in adulthood
2. Recognize neurometabolic diseases that cause movement disorders in childhood
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

2510 Video Session [TICKET]
Movement disorders in Asia-Oceania
18:00 – 19:30
In this interactive session, participants will be better able to understand spectrum, presentation, phenomenology, and management of movement disorders that occur more commonly in the Asia-Oceania region.
Lillian Lee
Quezon City, Philippines
Hidehiro Mizusawa
Tokyo, Japan

At the conclusion of this session, participants should be better able to:
1. Describe the spectrum of genetic and non-genetic causes of movement disorders that commonly occur in the Asia and Oceania region
2. Recognize the clinical presentation and phenomenology of movement disorders that are common in the region
3. Discuss the management of these movement disorders
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
Tuesday, June 18, 2013

3103 Plenary Session VII
The pathophysiology of hyperkinetic movement disorders
8:00 – 10:00
Chairs: David Brooks
London, United Kingdom
Ryuji Kaji
Tokushima City, Japan
8:00 Lessons learned from neurophysiology
Robert Chen
Toronto, ON, Canada
8:40 Insights from functional imaging
David Brooks
London, United Kingdom
9:20 What has neuropathology taught us about hyperkinetic movement disorders?
Jean Paul Vonsattel
New York, NY, USA
At the conclusion of this session, participants should be better able to:
1. Describe how neurophysiological studies improve our understanding of hyperkinetic movement disorders
2. Understand the anatomical and functional networks underlying hyperkinetic movement disorders
3. Understand the neuropathological correlations of hyperkinetic disorders
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3104 Plenary Session VIII, cont.
12:00 Therapeutics update on hyperkinetic disorders and ataxia
Ludger Schlöss
Tübingen, Germany
At the conclusion of this session, participants should be better able to:
1. Review recent advances in the pharmacological therapy of Parkinson’s disease
2. Provide an update on the progress of therapeutic interventions for hypokinetic disorders other than Parkinson’s disease
3. Give an overview of new therapeutic options in ataxia and Huntington’s disease
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3104 Plenary Session VIII, cont.
12:00 Therapeutics update on hyperkinetic disorders and ataxia
Ludger Schlöss
Tübingen, Germany
At the conclusion of this session, participants should be better able to:
1. Review recent advances in the pharmacological therapy of Parkinson’s disease
2. Provide an update on the progress of therapeutic interventions for hypokinetic disorders other than Parkinson’s disease
3. Give an overview of new therapeutic options in ataxia and Huntington’s disease
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3207 Parallel Session
Corticobasal syndrome: Clinical, neuroanatomical and genetic perspectives
15:30 – 17:30
Chairs: Anthony Lang
Toronto, ON, Canada
Irene Litvan
La Jolla, CA, USA
15:30 CBS features that predict the underlying pathologies
Keith Josephs
Rochester, MN, USA
16:10 Accuracy in diagnosing CBD: Newly proposed clinical diagnostic criteria
Melissa Armstrong
Baltimore, MD, USA
16:50 Genotype/Phenotype in CBS
Adam Boxer
San Francisco, CA, USA
At the conclusion of this session, participants should be better able to:
1. Identify CBS features that may best predict underlying cortical pathology
2. Learn newly developed clinical diagnostic criteria for CBD
3. Understand the role of genetics in the development of the various pathologies that present with a CBS
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3208 Parallel Session
The mysteries of dopamine in health and disease
15:30 – 17:30
Chairs: Yves Agid
Paris, France
D. James Surmeier
Chicago, IL, USA
15:30 How does dopamine control motor function work in the normal brain?
D. James Surmeier
Chicago, IL, USA
16:10 Dopamine deficiency at different ages: From dystonia to parkinsonism: Why?
Joel Perlmuter
St. Louis, MO, USA
16:50 Dopamine beyond movement
Yves Agid
Paris, France
At the conclusion of this session, participants should be better able to:
1. Understand the role of dopamine in motor control
2. Describe the extent of dopamine pathology in untreated and treated Parkinson’s disease
3. Discuss the extent to which abnormalities in dopamine cause different movement disorders at different ages
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
## Challenging the experts: Movement disorders clinicopathological correlations

**15:30 – 17:30**

In this session, four experienced movement disorders specialists will take the audience through a clinical case with video documentation in order to highlight how they interpret the history and signs in patients with complex movement disorders. Following the clinical discussion, expert neuropathologists will demonstrate the key pathological findings, both the diagnostic features and those features of particular pertinence to the clinical phenomenology of the case. This session will highlight the importance of clinicopathological correlation in helping to understand the relationships between brain structure and function, and pathological change in the brain and disease.

**Chairs:** Victor Fung  
Westmead, Australia  
Glenda Halliday  
Randwick, Australia

**MDS Panel of Experts:**  
Francisco Cardoso  
Belo Horizonte, Brazil  
Timothy Lynch  
Dublin, Ireland  
Barry Snow  
Auckland, New Zealand  
Eduardo Tolosa  
Barcelona, Spain

At the conclusion of this session, participants should be better able to:
1. Understand the relationship between movement disorder symptoms and signs and the location of cerebral pathology  
2. Enhance knowledge of clinicopathological correlations in unusual movement disorder syndromes  
3. Learn how experts use clinical history and signs to formulate their diagnosis in complex movement disorder cases

**Recommended Audience:** Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

## What’s new in Huntington’s disease?  
**15:30 – 17:30**

**Chairs:** Elizabeth McCusker  
Westmead, Australia  
Cristina Sampaio  
Princeton, NJ, USA

**15:30 Biomarkers of prodromal Huntington’s disease**  
Ralf Reilmann  
Münster, Germany

**16:10 From pathophysiology to new treatment strategies: Insights from the laboratory and animal models**  
Michael Levine  
Los Angeles, CA, USA

**16:50 Update on symptomatic and disease modifying treatments**  
Cristina Sampaio  
Princeton, NJ, USA

At the conclusion of this session, participants should be better able to:
1. Discuss the pathology and bio-markers of premanifest Huntington’s disease gene carriers  
2. Assess the contribution of preclinical research to understand pathophysiology and to study new treatment strategies in Huntington’s disease  
3. Describe current achievements in and future options for the treatment of Huntington’s disease

**Recommended Audience:** Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

## Thinking about cognitive dysfunction in Parkinson’s disease: How do we define it and can we model it?  
**15:30 – 17:30**

**Chairs:** Paolo Barone  
Naples, Italy  
Robert Rodnitzky  
Iowa City, IA, USA

**15:30 Neurotransmitters and cognitive impairment in Parkinson’s disease**  
Benedicte Ballanger  
Bron, France

**16:10 Animal models of cognitive dysfunction of Parkinson’s disease**  
Jay Schneider  
Philadelphia, PA, USA

**16:50 Defining mild cognitive impairment in Parkinson’s disease**  
Paolo Barone  
Naples, Italy

At the conclusion of this session, participants should be better able to:
1. Understand definition of cognitive dysfunction in Parkinson’s disease  
2. Differentiate between different subtypes of cognitive dysfunction in Parkinson’s disease  
3. Understand how to detect Parkinson’s disease cognitive dysfunction clinically

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

## Update on disturbances of sleep-wakefulness and movement disorders  
**15:30 – 17:30**

**Chairs:** Simon Lewis  
Sydney, Australia  
Wolfgang Oertel  
Marburg, Germany

**15:30 How to approach and manage patients with periodic or rhythmic movements during rest, drowsiness and sleep**  
Birgit Frauscher  
Innsbruck, Austria

**16:10 From dream-enacting behavior to synuclein in the brain: REM sleep behavior disorder as an early feature of synucleinopathies**  
Simon Lewis  
Sydney, Australia

**16:50 Why is my Parkinson’s disease patient sleepy? And how shall I treat him?**  
Wolfgang Oertel  
Marburg, Germany
Tuesday, June 18, 2013

3212 Parallel Session

At the conclusion of this session, participants should be better able to:
1. Identify and manage rhythmic or periodic movement disorders before or during sleep including restless legs syndrome, periodic movements of sleep and others such as hypnic jerks, head banging, body rocking and stereotypies
2. Describe the clinical, polysomnographic and pathophysiological features of RBD pointing to its association as an early feature of a neurodegenerative disease and particularly an evolving synucleinopathy
3. Explain the mechanisms, the diagnostic workup and management of daytime sleepiness in Parkinson’s disease

Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees

16:50 Other allied health interventions in Parkinson’s disease
Ana Aragon
Bath, United Kingdom

16:10 Nursing interventions for Parkinson’s disease
Sydney, Australia

15:30 Outcomes of physiotherapy for Parkinson’s disease:
New evidence from large randomized clinical trials
Colleen Canning
Sydney, Australia

15:30 – 17:30

3213 Parallel Session

At the conclusion of this session, participants should be better able to:
1. Have a state-of-the-art view of the latest scientific developments in allied healthcare for Parkinson’s disease, including new evidence from large RCT’s, evidence-based practice guidelines and other important progress in the field
2. Appreciate the broad spectrum of treatment approaches offered by allied health professionals and Parkinson nurse specialists, and understand the current level of scientific evidence that supports these various interventions
3. Understand the range of impairments, disabilities and activity limitations in Parkinson’s disease

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

16:50 Other allied health interventions in Parkinson’s disease
Ana Aragon
Bath, United Kingdom

16:10 Nursing interventions for Parkinson’s disease
Sydney, Australia

15:30 – 17:30

3314 Teaching Course

Movement disorders emergencies
15:30 – 17:30

Chairs: K. Ray Chaudhuri
London, United Kingdom
Louis Tan
Singapore

15:30 Emergencies in hypokinetic disorders
Renato Puppi Munhoz
Curitiba, Brazil

16:10 Emergencies in hyperkinetic disorders
Stephen Reich
Baltimore, MD, USA

16:50 Emergencies in surgically treated movement disorders patients
Rianne Esselink
Nijmegen, Netherlands

At the conclusion of this session, participants should be better able to:
1. Recognize the indications, motor and non-motor benefits, potential side effects and long-term outcome of DBS for Parkinson’s disease
2. Understand the indications, benefits, possible side effects and long-term outcome of DBS for dystonia, essential tremor and other hyperkinetic disorders
3. Understand the recent advances in the mechanisms of action of DBS and in technical developments such as close-loop stimulation

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

16:50 Mechanisms of DBS and recent technical developments
Chung-Chin Kuo
Taipei, Taiwan

15:30 DBS for Parkinson’s disease: Non-motor outcomes and long-term results
Jens Volkmann
Würzburg, Germany

16:10 DBS for dystonia, tremor and other hyperkinetic disorders
Michele Tagliati
Los Angeles, CA, USA

18:00 – 19:30

3403 Skills Workshop

Instrumental analysis of gait and posture in Parkinson’s disease

In this interactive session, participants will learn how to identify different alterations of parkinsonian gait and understand the relationship between freezing of gait, cognition and anxiety. In addition, participants will be instructed on the clinical utility of instrumental analysis and its current role in clinical practice.

John Nutt
Portland, OR, USA
Walter Maetzler
Tübingen, Germany
3403 Skills Workshop [TICKET], cont.
At the conclusion of this session, participants should be better able to:
1. Identify parkinsonian gait disturbance characteristics
2. Describe clinical utility of instrumental gait and posture analysis
3. Interpret pathophysiological and compensatory mechanisms of parkinsonian gait evidenced by instrumental analysis
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3404 Skills Workshop [TICKET]
Speech and swallowing in movement disorders
18:00 – 19:30
In this interactive session, participants will learn the fundamentals of normal speech and swallowing, in order to then understand how to diagnose and manage speech and swallowing disturbance in hypokinetic and hyperkinetic movement disorders.
Hanneke Kalf
Nijmegen, Netherlands
Debbie Phyland
East Melbourne, Australia
At the conclusion of this session, participants should be better able to:
1. Understand basic principles of the physiology of speech and swallowing
2. Diagnose and manage speech disturbances in patients with movement disorders
3. Diagnose and manage swallowing disturbances in movement disorders
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3405 Skills Workshop [TICKET], cont.
Terence Sanger
Los Angeles, CA, USA
At the conclusion of this session, participants should be better able to:
1. Recognize normal or benign abnormal movements in infants and children
2. Recognize the most frequent movement disorders in children and work out towards etiology
3. Recognize developmental disorders
Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees

3406 Skills Workshop [TICKET]
How to assess cognitive function in parkinsonian syndromes
18:00 – 19:30
In this interactive session, the faculty will review the clinical spectrum of cognitive symptoms associated with the different parkinsonian syndromes. The faculty will also describe brief and simple cognitive tests and more formal tests for conducting a cognitive assessment. Cognitive assessments will be appraised based on their applicability for the screening for cognitive impairment, differential diagnosis, rating of severity or monitoring disease progression.
John Dalrymple-Alford
Christchurch, New Zealand
Elsdon Storey
Melbourne, Australia
At the conclusion of this session, participants should be better able to:
1. List the clinical “red flags” marking the onset and progression of disability across the various stages of Parkinson’s disease
2. Discuss the clinicopathological correlates of cognitive dysfunction
3. Appraise the cognitive assessments in parkinsonian syndromes
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3407 Skills Workshop [TICKET]
Palliative care and end of life issues in parkinsonism
18:00 – 19:30
In this interactive session, participants will be better able to understand the prevailing symptoms in advanced parkinsonism that require palliative care approaches and discuss modern concepts that involve a whole-person approach, focusing on quality of life.
Stefan Lorenzl
Munich, Germany
David Oliver
Kent, United Kingdom
At the conclusion of this session, participants should be better able to:
1. Understand the prevailing symptoms in advanced parkinsonism that require palliative care approaches
2. Discuss end of life issues from patients’ and caregivers’ perspective
3. Discuss modern concepts of palliative care in parkinsonism
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

3408 Skills Workshop [TICKET]
Physical and social disability in Parkinson’s disease: From markers to self-management strategies
18:00 – 19:30
In this interactive session, participants will be better able to recognize the onset and progression of disability across the stages of Parkinson’s disease, its impact on quality of life (physical and social) and will be better equipped with the knowledge of self management strategies to empower the patients to live the normal life with chronic disorder.
Terry Ellis
Boston, MA, USA
Lisa Shulman
Baltimore, MD, USA
At the conclusion of this session, participants should be better able to:
1. List the clinical ”red flags” marking the onset and progression of disability across the various stages of disease
## Tuesday, June 18, 2013

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<td>Kiel, Germany</td>
<td>Asha Kishore, Susanne Schneider</td>
<td>Basic scientists, Neurology and Neurosurgery, Practitioners, Students/Residents/Trainees</td>
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<tr>
<td>3510</td>
<td>Video Session</td>
<td>Ten golden tips on how to better diagnose unusual movement disorders</td>
<td>Groningen, Netherlands</td>
<td>Daniel Healy, Marina De Koning-Tijssen</td>
<td>Basic scientists, Neurology and Neurosurgery, Practitioners, Students/Residents/Trainees</td>
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### Session 3408: Skills Workshop

2. Describe the spectrum of physical and social disability in the daily lives of persons with Parkinson’s disease
3. Discuss self-management strategies that can assist Parkinson’s patients in reducing disability

**Recommended Audience:** Basic scientists, Neurology and Neurosurgery, Practitioners, Students/Residents/Trainees

### Session 3509: Video Session

**Movement Disorders: Surprises in localization or pathology 18:00 – 19:30**

In this interactive session, the faculty will review videos and possible imaging/pathology of movement disorders that have been caused by unusual lesions or unexpected anatomical sites. The session will discuss lessons learned from these cases in understanding basal ganglia pathophysiology.

Asha Kishore
Trivandrum, India
Susanne Schneider
Kiel, Germany

At the conclusion of this session, participants should be better able to:
1. Review unusual causes of common movement disorders
2. Understand how lesions in the basal ganglia give rise to particular movement disorders
3. Develop a logical method to help evaluate unusual movement disorders

**Recommended Audience:** Basic scientists, Neurology and Neurosurgery, Practitioners, Students/Residents/Trainees

### Session 3510: Video Session

**Ten golden tips on how to better diagnose unusual movement disorders 18:00 – 19:30**

In this interactive session, participants will be better able to distinguish between myoclonus, tremor, tics, chorea and psychogenic movements.

Nin Bajaj
Nottingham, United Kingdom
Marie Vidailhet
Paris, France

At the conclusion of this session, participants should be better able to:
1. Develop examination techniques to analyze jerky and shaky movements
2. Recognize tremor, myoclonus, cortical tremor, chorea, tics and psychogenic movements
3. Use appropriate investigation to aid diagnosis

**Recommended Audience:** Basic scientists, Neurology and Neurosurgery, Practitioners, Students/Residents/Trainees
Wednesday, June 19, 2013

### 4104 Plenary Session X

**Presidential Lectures**

8:00 – 10:00

Chairs: Günter Deuschl
Kiel, Germany
Matthew Stern
Philadelphia, PA, USA

8:30 Junior Award Lectures

To be announced

9:30 C. David Marsden Lecture:
Parkinson’s Disease – The windmills of your mind

Peter Jenner
London, United Kingdom

**Prion hypothesis of Parkinson’s disease**

10:30 – 12:00

Chairs: Patrik Brundin
Lund, Sweden
Colin Masters
Parkville, Australia

**The biology of classic prion disease**

Colin Masters
Parkville, Australia

**What is the evidence for the prion hypothesis: A non-Parkinson’s disease perspective**

Jeffrey Kordower
Chicago, IL, USA

**Is Parkinson’s disease caused by a prion mechanism?**

Patrik Brundin
Lund, Sweden

At the conclusion of this session, participants should be better able to:

1. Understand the main challenges in accurate ante-mortem diagnosis of MSA
2. Recognize the spectrum of non-motor symptoms in MSA
3. Understand the latest developments in the pathogenesis and therapeutic frontiers in MSA

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Health Professionals (Non-Physician), Students/Residents/Trainees

**Molecular pathogenesis and animal models**

Gregor Wenning
Innsbruck, Austria

16:20

At the conclusion of this session, participants should be better able to:

1. Understand the main challenges in accurate ante-mortem diagnosis of MSA
2. Recognize the spectrum of non-motor symptoms in MSA
3. Understand the latest developments in the pathogenesis and therapeutic frontiers in MSA

Recommended Audience: Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

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### 4209 Parallel Session	(TICKET), cont.

**15:00**

The natural history of essential tremor: Lessons from clinical and physiological studies

Jan Raethjen
Kiel, Germany

**15:40**

The pathology of essential tremor

Holly Shill
Sun City, AZ, USA

**16:20**

Pathophysiological basis of other tremor

Rick Helmich
Nijmegen, Netherlands

At the conclusion of this session, participants should be better able to:

1. Describe the current clinical definitions, its problems as well as the evolving phenotype in the course of the disease and with increasing age and its pathophysiological correlates
2. Discuss the pros and cons for neurodegenerative processes in essential tremor, possible correlations with the clinical spectrum and alternative explanations for the pathological changes observed. The latest in genetics will also be covered
3. Understand tremor circuitry by analyzing how a lesion can either induce or relieve a tremor

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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**15:00**

New developments in RLS genetic and pathophysiology

Juliane Winklemann
Munich, Germany

**15:40**

The spectrum of treatment options in RLS

Diego Garcia-Borreguero
Madrid, Spain
Wednesday, June 19, 2013

4210 Parallel Session

16:20 Management of the difficult RLS cases: RLS associated with psychiatric disease, in pregnancy, other movement disorders
Birgit Högl
Innsbruck, Austria

At the conclusion of this session, participants should be better able to:
1. Understand the genetics architecture of RLS and implications on diagnosis and pathophysiology
2. Describe the spectrum of treatment options for RLS – including dopaminergic, non-dopaminergic therapy, iron and their complications
3. Manage difficult cases associated with psychiatric or other neurologic diseases including RLS in pregnancy (secondary RLS)

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4211 Parallel Session

rTMS as a potential treatment in Parkinson’s disease
15:00 – 17:00

Chairs: Alfredo Berardelli
Rome, Italy
Yoshikazu Ugawa
Fukushima, Japan

15:00 rTMS as a tool to understand the physiology of the motor system
Michael Ridding
Adelaide, Australia

15:40 rTMS in understanding the pathophysiology of Parkinson’s disease
Alfredo Berardelli
Rome, Italy

16:20 Is there a future for rTMS in the treatment of motor and non-motor aspects of Parkinson’s disease?
Yoshikazu Ugawa
Fukushima, Japan

At the conclusion of this session, participants should be better able to:
1. Understand the complex effects of rTMS on brain physiological mechanisms
2. Describe studies of rTMS in Parkinson’s disease

4212 Parallel Session

How to train the brain: Exercise for movement disorders
15:00 – 17:00

Chairs: Daniela Berg
Tübingen, Germany
Meg Morris
Bundoora, Australia

15:00 The basic science of training effects
Michael Zigmond
Pittsburg, PA, USA

15:40 Training for Parkinson’s disease: What is possible?
Meg Morris
Bundoora, Australia

16:20 Training for ataxia
Matthias Synofzik
Tübingen, Germany

At the conclusion of this session, participants should be better able to:
1. Understand the mechanisms of physical exercise on the brain in movement disorders
2. Discuss the physiological basis for therapeutic effects of exercise in hypokinetic movement disorders
3. Discuss the physiological basis for therapeutic effects of exercise in ataxias

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4213 Parallel Session

The broad heterogeneity of C9ORF72 mutations: The most common genetic forms of FTD/ALS/parkinsonism
15:00 – 17:00

Chairs: John Hodges
Sydney, Australia
Ian Mackenzie
Vancouver, BC, Canada

15:00 Genetic basis of C9ORF72 mutations
Peter Heutink
Amsterdam, Netherlands

15:40 Pathological features of C9ORF72 mutations
Ian Mackenzie
Vancouver, BC, Canada

16:20 Clinical phenotype of C9ORF72 mutations
Bradley Boeve
Rochester, MN, USA

At the conclusion of this session, participants should be better able to:
1. Learn the genetic mechanisms associated with the C9ORF72 mutation which make it the most common genetic cause of both FTD and ALS
2. Recognize novel pathological features of C9ORF72 mutations which indicate novel disease mechanisms with implications for treatment
3. Understand the variable phenotype associated with the C9ORF72 mutation which includes FTD, ALS and a wide range of other movement disorders

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4214 Parallel Session

What have we learned from the different integrated care models of Parkinson’s disease and other movement disorders?
15:00 – 17:00

Chairs: Bastiaan Bloem
Nijmegen, Netherlands
Nir Giladi
Tel Aviv, Israel

15:00 Management of gait disorders and falls in Parkinson’s disease and Huntington’s disease: Does an integrated care model really make a difference?
Lynn Rochester
Newcastle upon Tyne, United Kingdom

15:40 Integrated and comprehensive care for Parkinson’s disease: Clinical experience and new scientific evidence
Bastiaan Bloem
Nijmegen, Netherlands
Wednesday, June 19, 2013

4214 Parallel Session

16:20 The need for interprofessional continuing education for delivering optimal integrated care
Ruth Hagestuen
Minnetonka, MN, USA
At the conclusion of this session, participants should be better able to:
1. Appreciate the evidence from recent clinical trials on discipline specific versus integrated care models for the management of Parkinson’s disease
2. Appreciate the range of integrated care models in newly emerging fields, such as ataxia
3. Understand how to use inter-professional training approaches as a catalyst to develop and expand Parkinson’s teams and regional networks of care
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4315 Teaching Course

Recognizing and understanding hyperkinetic movement disorders
15:00 – 17:00
Chair: Hubert Fernandez
Cleveland, OH, USA
Ainhi Ha
Neutral Bay, Australia
15:00 Distinguishing clinical features of hyperkinetic movement disorders
Sarah Teixeira Camargos
Belo Horizonte, Brazil
15:40 Pathophysiology and molecular pathology of hyperkinetic disorders
Ryuji Kaji
Tokushima City, Japan
16:20 Treatment options in hyperkinetic disorders
Steven Frucht
New York, NY, USA
At the conclusion of this session, participants should be better able to:
1. Identify the distinctive features allowing to distinguish tremor, chorea, dystonia, tics, myoclonus and stereotypes, and to recognize other motor abnormalities that may occur in association with these disorders
2. Highlight how the motor, sensorimotor, associative and limbic basal ganglia loops are affected by the different hyperkinetic syndromes compared to hypokinetic syndromes, and to illustrate how dysfunction at the molecular level can entail circuit dysfunction that leads to hyperkinetic phenomenology
3. Review the medical, rehabilitation, and surgical options available to treat hyperkinetic disorders, to distinguish general from specific treatment options, and to highlight available guidelines and treatment algorithms
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4316 Teaching Course

Clinical examination in movement disorders
15:00 – 17:00
Chair: Richard Fernandez
Perth, Australia
David Williams
Melbourne, Australia
16:20 Examination highlights in hyperkinetic movement disorders
Mohit Bhatt
Mumbai, India
At the conclusion of this session, participants should be better able to:
1. Understand the application, recording, and interpretation of the scale, both for research and clinical practice
2. Recognize the relationships between the MDS-UPDRS and other measures usually applied for assessment of severity of the Parkinson’s disease manifestations
3. Apply the MDS-UPDRS and understand its performance in different settings
Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4403 Skills Workshop

New Unified Parkinson’s Disease Rating Scale: MDS-UPDRS
17:30 – 19:00
In this interactive session, participants will be better able to know how to apply and interpret the MDS-UPDRS, to establish equivalent relationships with other scales for motor and non-motor manifestations, and to grasp the performance of the scale in studies in which it has been applied.
Christopher Goetz
Chicago, IL, USA
Glenn Stebbins
Chicago, IL, USA

4404 Skills Workshop

Pearls in the management of DBS patients
17:30 – 19:00
In this interactive session, participants will be able to recognize post-operative issues with DBS in patients with Parkinson’s disease and dystonia, to develop strategies of management, and to optimize surgical and medical treatment after DBS.
Paul Boulos-Bejjani
Byblos, Lebanon
Stephen Tisch
Sydney, Australia
At the conclusion of this session, participants should be better able to:
1. Manage post-operative motor problems in Parkinson’s disease patients
### 4404 Skills Workshop (TICKET), cont.

2. Manage post-operative non-motor problems in Parkinson’s disease patients
3. Manage post-operative issues in patients with dystonia

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

**Supported by an unrestricted educational grant from Medtronic, Inc.**

### 4405 Lessons Workshop (TICKET)

**17:30 – 19:00**

**Lessons I learned from my patients**

In *this interactive session*, the faculty will present clinical cases from their own practice and discuss the lessons learned when critical appraisal of clinical features has led to a revision of diagnosis and change in management.

Niall Quinn
London, United Kingdom
Bhim Singhal
Mumbai, India

At the conclusion of this session, participants should be better able to:
1. Recognize the lessons for clinical practice from critically reviewing cases where diagnostic or management revisions were made
2. Identify frequent and preventable pitfalls in the evaluation of movement disorder patients
3. Recognize the merits of periodic reassessment of clinical features and patient’s management

**Recommended Audience:** Clinical academicians, Practitioners, Students/Residents/Trainees

### 4406 Skills Workshop (TICKET)

**The clinician loses his balance: How to approach genetic and non-genetic ataxias 17:30 – 19:00**

In *this interactive session*, which will be illustrated with video examples, participants will be instructed on using clinical, instrumental and genetic tools to investigate different forms of ataxias.

Thomas Klockgether
Bonn, Germany
Bart van de Warrenburg
Nijmegen, Netherlands

At the conclusion of this session, participants should be better able to:
1. Recognize the phenomenology of common and less common forms of genetic ataxias
2. Identify a clinical diagnostic approach to distinguish genetic from non-genetic ataxias
3. Understand laboratory and neuroimaging studies useful to identify the different forms of ataxias

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### 4407 Skills Workshop (TICKET)

**Urological and sexual dysfunction in parkinsonism 17:30 – 19:00**

In *this interactive session*, participants will gain a greater appreciation of the range of sexual and urological problems in people with parkinsonism and the treatment options available.

Gila Bronner
Ramat-Gan, Israel
Jalesh Panicker
London, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Understand basic principles of the physiology of micturition and sexual function
2. Diagnose and manage the bladder disturbances in parkinsonian disorders
3. Diagnose and manage the sexual disturbances in Parkinsonian disorders

**Recommended Audience:** Basic scientists, Clinical academicians, Health Professionals (Non-Physician), practitioners, Students/Residents/Trainees

### 4408 Skills Workshop (TICKET)

**The role of the Movement Disorders nurse: A global perspective 17:30 – 19:00**

In *this interactive session*, participants should be able to discuss international education and practice differences of nurses in movement disorders teams.

Carole Joint
Oxford, United Kingdom
Victor McConvey
Elwood, Australia

At the conclusion of this session, participants should be better able to:
1. Identify the international education and practice differences of specialized Parkinson’s nurses
2. Describe the role of the Parkinson’s nurses in optimising the delivery of advanced treatments, including DBS and continuous dopaminergic stimulation
3. Discuss the importance of specialised Parkinson’s nurses within a multidisciplinary team approach

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

### 4509 Video Session (TICKET)

**Movement disorders in children: A brave new world 17:30 – 19:00**

In *this interactive session*, participants will be better able to describe the different movement disorders in children, identifying the most common causes and become familiar with current therapeutic strategies.

Hilla Ben-Pazi
Jerusalem, Israel
Padraic Gratton-Smith
Matraville, Australia

At the conclusion of this session, participants should be better able to:
1. Identify the diversity of the phenomenology of movement disorders in children
2. Make a differential diagnosis of the etiology of most common pediatric movement disorders
3. Establish therapeutic strategies for movement disorders in children

**Recommended Audience:** Clinical academicians, Practitioners, Health Professionals (Non-Physician), Students/Residents/Trainees
Wednesday, June 19, 2013

4510 Video Session

What if it’s not Huntington’s disease?
17:30 – 19:00

In this interactive session, participants will be better able to recognize the phenomenology of Huntington’s disease and other disorders in which chorea is the main clinical feature.

At the conclusion of this session, participants should be better able to:
1. Recognize clinical features of psychogenic movement disorders
2. Recognize the pathophysiology and neurobiology of PMD
3. Consider management strategy for PMD disorders including medical and rehabilitative options

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

4511 Video Session

The spectrum of craniocervical movement disorders
17:30 – 19:00

In this interactive session, participants will be better able to describe the different manifestation of craniocervical movement disorders and choose the most appropriate therapeutic measures or management.

At the conclusion of this session, participants should be better able to:
1. Correctly diagnose the craniocervical movement disorders
2. Figure out the treatment and management of each specific condition
3. Link each condition to molecular/genetic diagnosis if possible

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

Thursday, June 20, 2013

5101 Plenary Session XI

Developments in psychogenic movement disorders
8:00 – 9:30

Chairs: Kailash Bhatia
London, United Kingdom
Mark Hallett
Bethesda, MD, USA

8:00 Clinical aspects of PMD
Anthony Lang
Toronto, ON, Canada

8:30 The neurobiology of PMD
Mark Edwards
London, United Kingdom

9:00 Management of PMD
Jon Stone
Edinburgh, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Recognize clinical features of psychogenic movement disorders
2. Recognize the pathophysiology and neurobiology of PMD
3. Consider management strategy for PMD disorders including medical and rehabilitative options

Recommended Audience: Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

5102 Controversies in Movement Disorders

10:45 (NO) Active impulse control disorders are an indication for DBS
Michael Okun
Gainesville, FL, USA

At the conclusion of this session, participants should be better able to:
1. Recognize the similarities and differences between PPD and DLB
2. Recognize the agreements both for and against “lumping” these two disorders together
3. Understand the frequency of ICDs in patients being considered for DBS surgery
4. Recognize the potential advantages and disadvantages to DBS surgery in patients with active ICDs

Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

5103 Blue Ribbon Highlights

11:00 – 12:00

Chairs: C. Warren Olanow
New York, NY, USA
Olivier Rascol
Toulouse, France

This session will provide a critical review of the best poster presentations by a panel of experts, highlighting the relevance, novelty, and quality of both clinical and basic research presented by the delegates.

Erwan Bezard
Bordeaux, France
Matthew Stern
Philadelphia, PA, USA

10:00 (YES) PDD and DLB are one and the same disorder and should be merged
John Duda
Philadelphia, PA, USA

10:15 (NO) PDD and DLB are one and the same disorder and should be merged
David John Burn
Newcastle upon Tyne, United Kingdom

10:30 (YES) Active impulse control disorders are an indication for DBS
Paul Krack
Grenoble, France

Supported by an unrestricted educational grant from UCB Pharma SA.
### 5205 Parallel Session

**Induced pluripotent stem cells for Parkinson’s disease: Past, present and future**

**15:00 – 17:00**

**Chairs:**
- Etienne Hirsch
  - Paris, France
- Dimitri Krainc
  - Charlestown, MA, USA

**15:00** Induced pluripotent stem cells in regenerative medicine: Past, present and future
- Eldad Melamed
  - Tel Aviv, Isreal

**15:40** IPS cells as a disease model
- Dimitri Krainc
  - Charlestown, MA, USA

**16:20** IPS cells as treatment
- Jun Takahashi
  - Kyoto, Japan

**At the conclusion of this session, participants should be better able to:**
1. Explain how iPSCs are generated and where we stand on its future use as treatment for neurodegenerative disorders
2. Interpret how iPSCs are instrumental in elucidation of patho-genetic mechanisms underlying neurodegenerative diseases including Parkinson’s disease
3. Describe risks and benefits of iPSC cell transplantation therapy in Parkinson’s disease

**Recommended Audience:** Basic scientists, Clinical academicians, Practitioners, Students/Residents/Trainees

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### 5206 Parallel Session

**Regional atypical parkinsonian syndromes**

**15:00 – 17:00**

**Chairs:**
- Irene Litvan
  - La Jolla, CA, USA
- Huw Morris
  - Cardiff, United Kingdom

**15:00** Clinical features of the atypical parkinsonian syndromes in Guam, Japan and Guadeloupe: Similarities and differences
- John Steele
  - Tamuning, Guam

**15:40** Underlying pathology and proposed etiopathogenesis
- Annie Lannuzel
  - Pointe-à-Pitre, France

**16:20** The link between the atypical parkinsonian syndromes in the Pacific and PSP, corticobasal syndrome and FTD/ALS
- Huw Morris
  - Cardiff, United Kingdom

**At the conclusion of this session, participants should be better able to:**
1. Understand the clinical features of atypical parkinsonian syndromes in Guam, Japan, and Guadeloupe
2. Understand the underlying pathology and proposed etiopathogenesis of these disorders
3. Understand potential links between these disorders and PSP, CBD and FTD/ALS

**Recommended Audience:** Clinical academicians, Practitioners, Students/Residents/Trainees

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### 5207 Parallel Session

**Gilles de la Tourette syndrome**

**15:00 – 17:00**

**Chairs:**
- Mary Robertson
  - London, United Kingdom
- Julian Rodrigues
  - Shenton Park, Australia

**15:00** Clinical features of Tourette syndrome
- Alexander Münchau
  - Hamburg, Germany

**15:40** The neural networks involved in Tourette syndrome
- Paul Sandor
  - Toronto, ON, Canada

**16:20** Medical and surgical treatment of Tourette syndrome
- Mary Robertson
  - London, United Kingdom

**At the conclusion of this session, participants should be better able to:**
1. Classify and investigate a patient presenting with “primary” (pure) dystonia
2. Classify and investigate a patient presenting with “secondary” (mixed) dystonia
3. Treat dystonia with medications and know when to consider more invasive or advanced therapies

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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### 5208 Parallel Session

**An update on dystonia**

**15:00 – 17:00**

**Chairs:**
- Victor Fung
  - Westmead, Australia
- Christine Klein
  - Lübeck, Germany

**15:00** An update on “primary” dystonia
- Christine Klein
  - Lübeck, Germany

**16:20** An update on medical and emerging therapies for dystonia
- Pedro Gonzalez-Alegre
  - Iowa City, IA, USA

**At the conclusion of this session, participants should be better able to:**
1. Classify and investigate a patient presenting with “primary” (pure) dystonia
2. Classify and investigate a patient presenting with “secondary” (mixed) dystonia
3. Treat dystonia with medications and know when to consider more invasive or advanced therapies

**Recommended Audience:** Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

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### 5209 Parallel Session

**Movement disorders in internal medicine**

**15:00 – 17:00**

**Chairs:**
- Oscar Gershanik
  - Buenos Aires, Argentina
- Jonas Hon Ming Yeung
  - Hong Kong

**15:00** Movement disorders and non-neurological infections
- Fernando Alarcon
  - Quito, Ecuador

**15:40** Movement disorders in systemic disease
- Jonas Hon Ming Yeung
  - Hong Kong

**16:20** Movement disorders and non-psychiatric drugs
- Oscar Gershanik
  - Buenos Aires, Argentina
Thursday, June 20, 2013

5209 Parallel Session (TICKET), cont.
At the conclusion of this session, participants should be better able to:
1. Describe the phenomenology of movement disorders associated to non-neurological infections, metabolic disorders and non-psychiatric drugs
2. Discuss the mechanisms underlying movement disorders associated to non-neurological infections, metabolic disorders and non-psychiatric drugs
3. Treat movement disorders associated to non-neurological infections, metabolic disorders and non-psychiatric drugs
Recommended Audience: Clinical academicians, Practitioners, Students/Residents/Trainees

5210 Parallel Session (TICKET)
Striatal network adaptations underlying levodopa-induced dyskinesias
15:00 – 17:00
Chairs: Malcolm Horne
Parkville, Australia
D. James Surmeier
Chicago, IL, USA

15:00 Biochemical, anatomical and physiological hallmarks of LIDs
Malcolm Horne
Parkville, Australia

15:40 LID-induced adaptations in the striatal network
Paolo Calabresi
Rome, Italy

16:20 New therapeutic strategies for alleviating LIDs
Jonathan Brotnche
Toronto, ON, Canada

15:00 The role of magnetic resonance imaging techniques in neurodegenerative diseases
Martin McKeown
Vancouver, BC, Canada

15:40 Transcranial sonography in Parkinson’s disease
Daniela Berg
Tübingen, Germany

16:20 PET receptor imaging in movement disorders
Nicola Pavese
London, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Describe the biochemical, anatomical and physiological hallmarks of levodopa-induced dyskinesias (LIDs) in the striatum
2. Describe alterations in the properties of the striatal network controlling movement
3. Identify the therapeutic strategies being developed to alleviate LIDs
Recommended Audience: Basic scientists, Clinical academicians, Students/Residents/Trainees

5311 Teaching Course (TICKET)
Imaging techniques in degenerative movement disorders: A window on the pathologist’s world
15:00 – 17:00
Chairs: Daniela Berg
Tübingen, Germany
Antonio Strafella
Toronto, ON, Canada

15:00 The role of magnetic resonance imaging techniques in neurodegenerative diseases
Martin McKeown
Vancouver, BC, Canada

15:40 Transcranial sonography in Parkinson’s disease
Daniela Berg
Tübingen, Germany

16:20 PET receptor imaging in movement disorders
Nicola Pavese
London, United Kingdom

At the conclusion of this session, participants should be better able to:
1. Describe the biochemical, anatomical and physiological hallmarks of levodopa-induced dyskinesias (LIDs) in the striatum
2. Define the role of transcranial sonography in Parkinson’s disease
3. Describe the contribution of receptor imaging in movement disorders
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees

5312 Teaching Course (TICKET)
Update on botulinum toxin treatment
15:00 – 17:00
Chairs: Cynthia Comella
Chicago, IL USA
Erle Chuen-Hian Lim
Singapore

15:00 Scientific basis for botulinum toxin therapy
Raymond Rosales
Manila, Philippines

15:40 Methods for administering botulinum toxins
Erle Chuen-Hian Lim
Singapore

16:20 Case studies: Update on treatment approaches
Roongroj Bhidayasiri
Bangkok, Thailand

At the conclusion of this session, participants should be better able to:
1. Identify the scientific basis for botulinum toxin therapy and distinguish toxin formulations
2. Understand methods of administering botulinum toxins including palpation, EMG, ultrasound, and imaging
3. Discuss treatment paradigms for dystonia and spasticity using patient videos
Recommended Audience: Basic scientists, Clinical academicians, Health Professionals (Non-Physician), Practitioners, Students/Residents/Trainees
## Faculty Listing

<table>
<thead>
<tr>
<th>Name</th>
<th>City, Country</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Agid, Yves</td>
<td>Paris, France</td>
<td>3208</td>
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<tr>
<td>Alarcon, Fernando</td>
<td>Quito, Ecuador</td>
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<td>Albanese, Alberto</td>
<td>Milan, Italy</td>
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<tr>
<td>Anderson, Tim</td>
<td>Christchurch, New Zealand</td>
<td>2405</td>
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<tr>
<td>Antonini, Angelo</td>
<td>Venice, Italy</td>
<td>2211</td>
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<tr>
<td>Aragon, Ana</td>
<td>Bath, United Kingdom</td>
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| Neutral Bay, Australia 4315                           |
| Hagestuen, Ruth                                      |
| Minnetonka, MN, USA 4214                              |
| Hallett, Mark                                        |
| Bethesda, MD, USA 2104, 5101                          |
| Halliday, Glenda                                     |
| Randwick, Australia 2206, 3209                        |
| Healy, Daniel                                        |
| Dublin, Ireland 3111                                 |
| Helmich, Rick                                        |
| Nijmegen, Netherlands 4209                            |
| Hely, Mariese                                        |
| Bowral, Australia 2103                                |
| Henriksen, Tove                                      |
| Copenhagen, Denmark 2211                             |
| Heutink, Peter                                       |
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| Hirsch, Etienne                                      |
| Paris, France 5205                                  |
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| Högl, Birgit                                         |
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| Höglinger, Günter                                    |
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| Horne, Malcolm                                       |
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| Irani, Sarosh                                        |
| Oxford, United Kingdom 2210                          |
| Jenner, Peter                                        |
| London, United Kingdom 4103                          |
| Jeon, Beom                                           |
| Seoul, Korea 1107                                    |
| Jinnah, Hyder                                       |
| Atlanta, GA, USA 2509                                |
| Joint, Carole                                        |
| Oxford, United Kingdom 4408                          |
| Josephs, Keith                                       |
| Rochester, MN, USA 3207                              |
| Kaji, Ryuji                                          |
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| Kalf, Hanneke                                       |
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| Clayton, Australia 2103                              |
| Kimber, Thomas                                       |
| Adelaide, Australia 2210                             |
| Kishore, Asha                                       |
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| Klein, Christine                                    |
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| Klockgether, Thomas                                  |
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| Krainc, Dimitri                                      |
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| Kril, Jillian                                       |
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| Kuo, Chung-Chin                                     |
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| Lance, James                                         |
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| Quezon City, Philippines 2510                        |
| Lees, Andrew                                         |
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| Leigh, R. John                                       |
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| Levine, Michael                                      |
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| Lewis, Simon                                         |
| Sydney, Australia 3212                               |
| Lim, Erle                                            |
| Singapore 5312                                       |
Faculty Listing

Lin, Jean-Pierre  
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3405

Litvan, Irene  
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3407

Lozano, Andres  
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Lynch, Timothy  
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Maetzler, Walter  
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Mahant, Neil  
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Masters, Colin  
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McConvey, Victor  
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McCusker, Elizabeth  
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Moro, Elena  
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Morris, Huw  
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Munhoz, Renato  
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Oliver, David  
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Quinn, Niall  
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Yeung, Jonas  
Hong Kong  
5209

Zigmond, Michael  
Pittsburgh, PA, USA  
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Education Information

To better fulfill its global mission of advancing the neurological sciences as they relate to the field of Movement Disorders, MDS is continually expanding its educational program. This growing program offers an increasing variety of high caliber continuing medical education and continuing professional development opportunities in movement disorders.

Developing World Education Program

More educational support opportunities are available through the MDS regional sections: the Asian and Oceanian Section (AOS), the European Section (ES), and the Pan American Section (PAS). For more details, visit www.movementdisorders.org/education/outreach_education.php or e-mail education@movementdisorders.org.

Ambassador Program

This program is intended to provide excellent faculty in the field of Movement Disorders to existing conferences around world. Applications will be considered by the MDS Education Committee. For more details, visit www.movementdisorders.org/education/outreach_education.php or e-mail education@movementdisorders.org.

Visiting Professor Program

This program is intended to provide an excellent educational opportunity in movement disorders to regions of the world not adequately served by resources within that region. Applications will be considered by the MDS Education Committee of the appropriate MDS regional section. For more details, visit www.movementdisorders.org/education/outreach_education.php or e-mail education@movementdisorders.org.

Parkinson and Movement Disorders Course

The Parkinson and Movement Disorders Course is an overview of movement disorders and a clinical approach to the evaluation and management of common movement disorders. This curriculum is specially developed for trainees, internists, general neurologists and other clinicians interested in acquiring basic understanding of movement disorders. For further information or to learn how to apply to use this course, please visit www.movementdisorders.org/education/bmd_curriculum/ or e-mail education@movementdisorders.org.

Online CME Activities

Journal CME

Visit the Educational Resources page on the MDS website to view a list of Movement Disorders Journal articles available for CME credit. MDS is accredited by the Accreditation Council for Continuing Medical Education to provide certified continuing medical education for physicians. MDS designates these educational activities for a maximum of 1.0 AMA PRA Category 1 Credit™ each. Physicians should only claim credit commensurate with the extent of their participation in the activity. For further information, visit www.movementdisorders.org/education/.

Coffee Break CME

The Movement Disorder Society’s first online CME program specially designed for the busy clinician—Coffee Break CME—was launched in January 2012. This program is designed to provide continuing education critical to providing the best care possible. Scientific content is presented in a modular format, where each module is focused on a single topic which can be completed in a short period of time, providing the clinician with updated information relevant to their practice. Both standard approaches and new advances will be highlighted.

Each module is broken into sub-topics which are discussed in a short article and demonstrated in 1-5 case study videos. The scope of this program includes modules on: parkinsonism, tremor, dystonia, chorea, restless legs syndrome, and other topics as identified. After users have registered for a module, they are able to log in to the site as many times as needed to view all the material. At the beginning and completion of each module, participants are asked content-related questions to gauge their learning. MDS is accredited by the ACCME to certify 2.0 AMA PRA Category 1 Credits™ for each module.

To access Coffee Break CME, visit www.mdscoffeebreakcme.org or visit the MDS website, www.movementdisorders.org.

Streaming Video from International Congresses

The Movement Disorder Society is pleased to offer selected content from the 14th, 15th and 16th International Congresses, including Teaching Courses, Themed Courses and the MDS Video Games. For more information, please visit: www.movementdisorders.org/education/educational_webcasts.php.
Education Information

Other Online Education Activities

MDS provides a variety of online educational activities in addition to streaming video and CME programming. The following educational tools are available on the MDS website.

Slide Sets
This Members-Only service familiarizes learners with the differential diagnosis and clinical features that define various common involuntary movements, as well as the course of treatment and complications of movement disorders. Slide sets are available at www.movementdisorders.org/education/.

Current Slide Sets
- Ataxia (PPT) - Jennifer Goldman, MD
- Chorea (PPT) - Kathleen Shannon, MD
- The Diagnosis and Management of Dystonia (PPT) - Steven Frucht, MD
- Myoclonus: Diagnosis and Treatment (PPT) - Steven Frucht, MD
- Parkinsonism (PPT) - Kathleen Shannon, MD * Now available in Spanish.
- Restless Legs Syndrome (PPT) - Charles Adler, MD, PhD
- Tics and Tourette Syndrome (PPT) - Jennifer Goldman, MD

MDS Video Library
This Members-Only library consists of video supplements from the Movement Disorders journal since 1986. You may search the Video Library by keyword, author, volume and issue, or a combination of these fields. The Video Library is available at www.movementdisorders.org/education/.

Case of the Month
Case of the Month is the MDS interactive online feature that presents unique and challenging movement disorders cases. MDS members are invited to answer questions after analyzing the video and case history, and are provided with the expert analysis. Please visit the MDS website to view this month’s case.

MDS is currently accepting submissions for Case of the Month. Case of the Month provides an opportunity for members to share interesting cases for educational purposes in a forum dedicated to movement disorders experts. For information about submission requirements, including video format and patient consent forms, please visit the MDS website at www.movementdisorders.org/education/.

Live Courses

MDS-ES 2nd Annual Winter School for Young Neurologists
March 1-3, 2013 – Tartu, Estonia
Course Directors: Pille Taba, Joaquim Ferreira, Marie Vidailhet

This program is an extensive, interactive course for young neurologists from Europe and Africa, offering a unique opportunity for hands-on examination of a wide variety of patients with movement disorders, overseen by a faculty of international experts in the field of Movement Disorders.

Target audience: Trainees in Movement Disorders, and for young neurologists, under the age of 40 who have not decided upon an area of specialization within neurology.

MDS-PAS 2nd Annual School for Young Neurologists
April 5-7, 2013 – Santiago, Chile
Course Directors: Pedro Chaná Cuevas, Olga Benavides

In the second occurrence of the Pan American School for Young Neurologists, participants who are interested in training in the field of Movement Disorders, as well as those who already have some experience in Movement Disorders will be taught by an MDS-PAS international faculty of senior movement disorders specialists.

Target audience: Trainees in Movement Disorders, and for young neurologists, under the age of 40 who have not decided upon an area of specialization within neurology.
International Congress DVDs

Available for Pre-Order

MDS is pleased to offer you the opportunity to pre-order the DVDs of the 2013 International Congress Teaching Courses, Themed Sessions, and the MDS Video Challenge DVD along with your Congress registration. Each DVD includes slides, audio and video, and for Teaching Courses, the accompanying syllabi.

2013 International Congress Teaching Course DVD

There are eight Teaching Courses:
- Biomarkers for early Parkinson’s disease
- Clinical examinations in movement disorders
- DBS in movement disorders
- Imaging techniques in degenerative movement disorders: A window on the pathologist’s world*
- Movement disorders and epilepsy
- Movement disorders emergencies
- Recognizing and understanding hyperkinetic movement disorders
- Update on botulinum toxin treatment

*Denotes Teaching Course is also a Themed Session, available on the Themed Session DVD as well

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2013 International Congress Themed Session DVD

The Special Meeting Theme of the 2013 MDS Congress is Clinicopathological Correlations in Movement Disorders – From Bench to Bedside. There are 13 Themed Sessions included on the DVD:

Parallel Sessions
- Corticobasal syndrome: Clinical, neuroanatomical and genetic perspectives
- Inclusions in Parkinson’s disease: The link between pathology and molecular biology
- Multiple system atrophy: A wolf in sheep’s clothing
- Regional atypical parkinsonian syndromes
- The basal ganglia in health and disease
- The mysteries of dopamine in health and disease
- What’s new in essential and non-essential tremor

Plenary Sessions
- Clinicopathological correlations in Parkinson’s disease
- The pathophysiology of hyperkinetic movement disorders

Skills Workshop
- How to assess cognitive function in parkinsonian syndromes
- How to develop and run a brain bank

Teaching Course (included on Teaching Course DVD as well)
- Imaging techniques in degenerative movement disorders: A window on the pathologist’s world

Video Sessions
- Movement Disorders: Surprises in localization or pathology

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2013 MDS Video Challenge DVD

MDS is pleased to offer you the opportunity to view the MDS Video Challenge* from the 17th International Congress. Each DVD includes slides, audio and video.

The MDS Video Challenge comprises unique movement disorders cases presented by representatives from Movement Disorder Centers around the world and discussed by senior experts in the field. The goal of the MDS Video Challenge is to have attendees learn from a series of unusual, intriguing cases and to see how senior experts approach and handle them. The MDS Video Challenge DVD is available for $30 USD (includes shipping).

*formerly known as MDS Video Games

Distribution of DVDs will begin in September 2013. DVDs will be shipped to the address you provide on the Congress registration form.

Available for Online Order

Also available for purchase:
- 2012 Congress Teaching Course DVD
- 2012 Congress Themed Session DVD
- 2012 Congress MDS Video Games
- 2011 Congress Teaching Course (streaming video only)
- 2011 Congress Themed Session (streaming video only)
- 2011 MDS VO Games DVD
- 2010 Congress Teaching Course (streaming video only)

For rates and ordering information please visit:
Membership Information

Membership Benefits

- A subscription to the print, DVD, and online journal, *Movement Disorders*, including supplemental publications, such as *The Movement Disorder Society Evidence Based Medicine Review: Treatments for Motor and Non-Motor Symptoms of Parkinson’s Disease*.
- A unique selection of educational opportunities, including live and online CME/CPD activities and reference material on topics in Movement Disorders.
- Reduced fees for participation in the Society’s educational programs. Educational Programs include the annual International Congress of Parkinson’s Disease and Movement Disorders, and regional programs, courses and workshops held each year.
- A searchable online and mobile directory listing mailing addresses, telephone and fax numbers, and e-mail addresses for members.
- A Members-Only Section of the MDS website, including a searchable Video Library, Case of the Month, teaching slide sets, and one-time login access to full text articles in the *Movement Disorders Journal*.
- Participation in the election of international and regional section leadership representatives.

FREE Membership!
Non-Members Applying for Membership

Non-Members will have the opportunity to apply for MDS membership at the International Congress for no additional fee with limited benefits through 2013, and full membership status, receiving the print journal, in January of 2014. Membership applications will be provided to all non-member attendees onsite with their registration packet and must be returned to the MDS booth prior to the conclusion of the International Congress. No applications will be accepted by the Secretariat after June 20, 2013.

Participants paying the Non-Member registration fee will be eligible to apply for membership at no additional cost. This option is not available to those registering as a Junior or Health Professional (Non-Physician) participant or anyone who registered as part of a group. Only those who have not previously been members of MDS will be eligible to apply.

2013-2014 will be another exciting year for MDS and we look forward to bringing you news of these and other new initiatives through the *Movement Disorders* journal, *Moving Along* newsletter and the MDS website.

For further information, please contact:
The *Movement Disorder Society*
International Secretariat
555 East Wells Street, Suite 1100
Milwaukee, WI 53202 USA
Tel: + 1 414-276-2145
Fax: + 1 414-276-3349
E-mail: info@movementdisorders.org
Website: www.movementdisorders.org
Top Attractions in Sydney

Darling Harbour around the Sydney Convention Centre

You will love visiting Darling Harbour as it holds activities for people of all ages. One can visit the Chinese Garden of Friendship, visit the Sydney Aquarium or National Maritime Museum, or enjoy great food by the restaurants on Cockle Bay Wharf. The Harbourside Shopping Centre also contains plenty of Aussie souvenirs.

Bondi Beach & Bondi-Bronte Walk

Visit the iconic Bondi Beach - within minutes of the city - or venture further afield to Manly or the Northern Beaches. Sydney is home to 39 ocean beaches making Sydney a unique city with the ability to combine an urban life with the laid-back beach lifestyle. Enjoy the Australian sunshine on miles of sand!

Sydney Opera House

As a huge influence in architecture, the Opera House is one of the most iconic structures in the world. Visitors can have a bite to eat in the restaurant as the structure over looks both the urban atmosphere and the waters of the harbour. Tours of the Opera House are available.

Royal Botanic Gardens

Enjoy the peace and tranquility of the gardens, open year-round and free to visitors. The Botanic gardens overlook the Opera House, Circular Quay and Macquarie Street along with numerous ponds and lush blossoming greenery.

Taronga Zoo and Cremorne Point/ Mosman Bay Walk

Taronga Zoo is and is located on the shores of Sydney Harbour in Mosman. This 52-acre zoo is home to over 2,600 animals! And while in Mosman, talk a brief stroll with a beautiful view from Mosman Bay to Cremorne Point with spots along the way for picnicking. This walk only takes about 60 minutes and provides phenomenal views of the city.

Sydney Aquarium

Located on the eastern side of Darling Harbour, the Sydney Aquarium contains a large variety of Australian aquatic life, displaying more than 6,000 individual fish and other sea and water creatures from most of Australia’s water habitats.

The Art Gallery of New South Wales

Admission is free to the fourth-largest public art gallery in Australia. Displays include art from settlement to contemporary, along with European and Asian art.

Centre Point Tower

The Center Point Tower is Sydney’s tallest free-standing structure, and the second tallest observation tower in the Southern Hemisphere. Sydney Tower Eye’s main observation deck is over 1,000 ft (300m) high!

The Blue Mountains

The Blue Mountains is a mountainous region bordering Sydney’s metropolitan area, with its foothills starting approximately 50 kilometers west of the state capital. This beautiful region consists mostly of a sandstone plateau and gorges up to 760 meters (2,490 ft) deep, with the highest point, Mount Werong, at 1,215 meters (3,986 ft) above sea level.
Map of Sydney

1. Aarons Hotel Sydney
2. Amora Hotel Jamison Sydney
3. Astral Residences
4. Astral Towers
5. Citigate Central Sydney
6. Establishment Hotel Sydney
7. Four Points by Sheraton Darling Harbour Sydney
8. Four Seasons Hotel Sydney
9. Fraser’s Suites Sydney
10. Hilton Sydney
11. Hotel Ibis Darling Harbour
12. Holiday Inn Darling Harbour
13. Holiday Inn Potts Point
14. Hyde Park Inn
15. InterContinental Sydney
16. Medina Grand Harbourside
17. Mercure Sydney
18. Mercure Sydney Potts Points
19. Metro Apartments on Darling Harbour
20. Metro Hotel Sydney Central
21. Novotel Rockford Darling Harbour
22. Novotel Sydney on Darling Harbour
23. PARKROYAL Darling Harbour, Sydney
24. Park Hyatt Sydney
25. Pullman Quay Grand Sydney
26. Pullman Sydney Hyde Park
27. Quay West Suites Sydney
28. QT Sydney
29. Radisson Hotel and Suites Sydney
30. Radisson Blu Plaza Hotel Sydney
31. Rydges World Square
32. Sebel Pier One Sydney
33. Sebel Surry Hills Sydney
34. Shangri-La Hotel, Sydney
35. Sheraton On The Park
36. Sir Stamford at Circular Quay Hotel
37. Sofitel Sydney Wentworth
38. Swissotel Sydney
39. Sydney Harbour Marriott at Circular Quay
40. The Harbour Rocks Hotel
41. The Menzies Sydney
42. The Darling Hotel and Spa
43. The Langham Sydney
44. The Westin Sydney
45. Y Hotel and Conference Centre, Sydney

SYDNEY CENTRAL BUSINESS DISTRICT
Housing

To reserve hotel accommodations for the 17th International Congress, please visit: 
www.mdscongress2013.org/housing

The housing bureau for the 17th International Congress is MCI Australia. If you have any questions or experience problems loading the page, please contact:

**MDS Housing Bureau**  
MCI Australia at guestservices.au@mci-group.com or call +61 7 3858 5404.

**GROUP BLOCKS**  
To reserve 10 or more rooms, please send your request by e-mail to guestservices.au@mci-group.com.
Important Dates

April 1, 2013
Late-Breaking Abstracts Submission Deadline

April 19, 2013
Early Registration Deadline

May 17, 2013
Final Pre-Registration Deadline

June 16-20, 2013
17th International Congress of Parkinson’s Disease and Movement Disorders

SAVE THE DATE — 2014 International Congress
18th International Congress of Parkinson’s Disease and Movement Disorders
Stockholm, Sweden
June 8-12, 2014