10TH ANNIVERSARY SYMPOSIUM

Brain Disorders in the Developing World

Since its inception 10 years ago, the program “Brain Disorders in the Developing World: Research Across the Lifespan,” has funded research that, to date, has resulted in the publication of 435 peer-reviewed articles, plus 14 books or book chapters, and facilitated long-term training of at least 138 scientists in 44 low and middle income countries (LMICs).

In order to be eligible to apply, each project must include a team of investigators, at least one in the U.S. or another high-income country, plus one or more collaborators in a LMIC. In addition to the likelihood of accomplishing significant research, each project is expected to further the research capabilities of the LMIC partners. Importantly, almost all LMIC trainees received their mentoring in their home countries. The total funding, to date, collectively from the Fogarty International Center (FIC) and other National Institutes of Health, is approximately $84 million. The research findings from many projects have had significant impacts, leading to improved approaches to treatment and helping LMICs to develop health care policy. Policy responses range from establishing the first surveillance system for retroviral and viral meningoencephalitis in Peru, to bringing fetal alcohol syndrome to the attention of Russian leadership and key health officials.

This exciting and important symposium, with almost 400 registrants, featured 65 oral presentations and more than 100 scientific poster exhibits by grantees. Presenters described research results and projects under way in every continent except Antarctica. The subjects were diverse: epidemiological studies of neurodevelopmental disorders in India, South Africa and Uganda. They also were as specific as the management of head trauma in Latin America and prevention of neurocysticercosis in Burkina Faso. Following the symposium, 28 neurologists, neurosurgeons, epidemiologists and basic neuroscientists met for two days to begin the process of writing papers. The papers looked at future needs and opportunities for clinical and basic neuroscience research designed to address neurologic and psychiatric disorders across the lifespan in LMICs. These will be published as a supplement to a journal, with Donald Silberberg and Rajesh Kalaria serving as co-editors.

The Brain Disorders program has been coordinated since its inception by Kathleen Michels, PhD, program officer and neuroscience cluster coordinator, Division of International Research and Training, Fogarty International Center (FIC); Nalini P. Anand, JD, MPH, director, Division of International Science Policy, Planning and Evaluation, director, Center for Global Health Studies, Bethesda, Md.; and Raj Kalaria, PhD, FRCP, professor of neuropathology, IBRO-WFN liaison officer, Newcastle University, Newcastle upon Tyne, U.K.
The History of the World Federation of Neurology

By Johan A. Aarli

The World Federation of Neurology (WFN) was founded in 1957 in Brussels. Although there had been international medical congresses before it, the London Congress of Medicine 1913 was a landmark in the general acceptance of neurology.

The First International Neurological Congress was held in 1911 in Berne. Subsequent meetings took place in London, Copenhagen, Paris, and Lisbon. The pluralty of several international congresses of neurosciences was one of the reasons the Brussels Congress in 1957 was named The First International Congress of Neurological Sciences.

The movers were two Americans and one European: Houston Merritt, Pearce Bailey Jr. and Ludo van Bogaert, respectively. In 1956, Merritt and Bailey proposed a world neurological federation at a meeting of the American Academy of Neurology. The National Institute of Neurological Diseases and Blindness (NINDB), National Institutes of Health, U.S., offered an annual grant of $126,190 (U.S.) for five years in order to get the federation started. By the end of 1962, the WFN Secretariat had received more than $500,000 from the original NINDB grant. Thirty-eight national delegates met in Brussels in 1957.

Van Bogaert from Antwerp, Belgium, was a respected neurologist, and the leading neuropathologist of his time. He was elected WFN president, Macdonald Critchley and Auguste Tournay were elected vice presidents and Pearce Bailey was elected secretary-treasurer general.

Van Bogaert established the first Project Commissions (later renamed Research Groups) consisting of international leaders of various sectors of neurology. A series of commissions was established, such as the Research Group on Extrapyramidal Disease organized by Melvin Yahr.

Van Bogaert believed that it was time to create a new and separate organization of the Research Groups. The name of the association would be the World Association of Neurological Commissions (WANC).

There was agreement that Adolphe Critchley should become the WANC president and David Klein vice president and secretary-treasurer general. Van Bogaert’s successor as president, Macdonald Critchley, thought this was wrong, and that the research arm was essential for WFN in order to survive. Van Bogaert’s presidency was successful, but ended in a financial crisis. He had described the three elements of his WFN rescue plan: the increase in annual dues, a decentralization plan and the new organization for the Problem Commissions. The differences of opinion had been dramatic, and John Walton’s proposal was to create a new organizational unit of the WFN — the Research Committee. The Problem Commissions were renamed Research Groups and organized in the new Research Committee.

Critchley became the next president. During his presidency, WANC became an integral part of the WFN. How could WFN now survive? Critchley was able to see that every cloud had a silver lining. He instilled a feeling of pioneer optimism in the organization. The work of the WFN not only continued, it flourished in spite of a miserable economy. The orientation of the federation remained truly international, harmonious and stimulating.

The reason lay in the vitality of the organization. No new administrative initiatives could be taken, but the activity that had been introduced in the Research Groups was high. How to balance the budget of the WFN?

Were the annual WFN dues too high? Since they had remained unchanged at $2 for 20 years despite inflation, the Finance Committee recommended the dues be raised to $5 on the basis of the WFN’s state of bankruptcy. The WFN accountants had to audit all financial statements of the WFN, including those of all Research Groups, and to urge the national societies that were delinquent in paying their dues.

The Finance Committee also suggested that a Publications Subcommittee of
Africa-Canada International Behavioral Neurology Videoconference Rounds

MORRIS FREEDMAN, MD, FRCP, TIM PATTERTSON, BA, RIAHD GOUIDER, MD, SANDRA E BLACK, MD, FRCP, FAAN, FAHA, CINDY J. GRIEF, MD, FRCP, MSc, AND PETER WHITEHOUSE

In 2012, the World Federation of Neurology (WFN) eLearning Task Force of the WFN Education Committee proposed an expansion of the groundbreaking Canada-Tunisia videoconference as reported in the World Neurology Newsletter (Vol 27 – No 1-February 2012). This interactive and live videoconference was held in late May 2011, two weeks into the Arab Spring Uprising. It demonstrated both the WFN vision to connect international centers throughout the world and the determination of Tunisia to participate in a global educational videoconference at a time of great disruption to its society.

Building on the success of the Canada-Tunisia international rounds, the WFN awarded an educational grant to expand this initiative into an Africa-Canada series involving Tunisia, Morocco and Canada. The grant was in conjunction with the Peter A. Silverman Global eHealth Program, and the international rounds are under the auspices of the Canada International Scientific Exchange Program (CISEPO), Canadian Neurological Sciences Federation, Division of Neurology, University of Toronto and Razi Hospital La Manouba, Tunas.


In front of screen in Canada (left to right) Ayman Selim, Carmela Tartaglia, Sandra Black, Arnold Noyek, Cindy Grief, Morris Freedman, Tim Patterson. On the screen from Tunisia (foreground, left to right) Riadh Gouider, Mouna Ben Djebara and (background) Tunisian participants.

Providing a Tunisian point of view, Gouider said, “The importance of the WFN’s goal to foster quality neurology education and challenges across national boundaries,” said Whitehouse.

Program (CISEPO), Canadian Neurological Sciences Federation, Division of Neurology, University of Toronto and Razi Hospital La Manouba, Tunis. Carmela Tartaglia and hosts Morris Freedman, Sandra Black and Riadh Freedman.

In front of screen in Canada (left to right) Ayman Selim, Carmela Tartaglia, Sandra Black, Arnold Noyek, Cindy Grief, Morris Freedman, Tim Patterson. On the screen from Tunisia (foreground, left to right) Riadh Gouider, Mouna Ben Djebara and (background) Tunisian participants.

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Gouider initiated the series Jan 15, 2014, with a presentation titled, “An Uncommon Cause of a Common Problem.” Audience participants included

Morris Freedman is with the Department of Medicine, Division of Neurology, Baycrest and University of Toronto, Toronto, and the Rotman Research Institute, Baycrest, Toronto. Patterson is with the Department of Telehealth, Baycrest, Toronto, and the Canada International Scientific Exchange Program. Gouider is with the Department of Neurology, Razi Hospital La Manouba 2010-Tunis-Tunisia. Black is Brill Chair in Neurology, University of Toronto, Sunnybrook Health Sciences Center, Toronto, and Department of Medicine, Division of Neurology, Sunnybrook Health Sciences Center and University of Toronto. Patterson is with the Department of Psychiatry, Baycrest and University of Toronto. Whitehouse is with the Department of Neurology, Case Western Reserve University, Cleveland, Ohio, and Department of Medicine, Division of Neurology, University of Toronto, Toronto.

International Conference on Freezing of Gait

BY MARK HALLET, MD

Management of patients with Parkinson’s disease has progressed well. Levodopa and the dopamine agonists are effective, and when complications arise such as dyskinasias and fluctuations, deep brain stimulation (DBS) can be effective. However, another significant problem is now emerging. That is gait difficulties later in the course of Parkinson’s disease that are not responsive to either the dopaminergic therapy or DBS. Patients can look pretty good in many ways, but will have trouble relatively isolated to balance and gait.

One interesting feature of the gait difficulty is freezing of gait (FOG). With FOG, there is a failure to move forward despite intent to do so. FOG can occur at gait onset or in the middle of walking, particularly in some settings such as walking through a doorway or turning. At times, there can be off-freezing that is dopa responsive; the problematic situation is on-freezing. FOG also occurs in other Parkinsonian conditions such as progressive supranuclear palsy.

There have been two prior workshops devoted to the topic, but recently there was an international conference Feb 5-7, organized by Professors Nir Giladi and Jeff Hausdorff at the Dead Sea. The conference was sponsored by Tel Aviv University, the Tel Aviv Medical Center and the International Parkinson and Movement Disorder Society. More than 160 attendees came from 20 countries.

Freezing also can occur with upper extremity movements or speech, but gait is more commonly affected and more debilitating. The topic is now under intense scrutiny. Gait is a complex movement requiring integrated activity of all parts of the brain and spinal cord with both balancing and stepping. This is likely why gait is more commonly affected than other movements.

There are a number of theories as to the etiology, and, as freezing is likely to be multifactorial, many of these may well be relevant in different patients. One type of problem is the deterioration of motor control capabilities, such as loss of the internal drive for movement, difficulties with multitasking and difficulties in carrying out automatic movements. Lack of gait symmetry is often correlated with freezing.

Another interesting motor control problem in Parkinson’s disease is the sequence effect, the progressive decline of movement amplitude in a sequence of what should be similar movements. Step length often gradually declines prior to a freeze, so this seems important at least in some circumstances. Cognitive problems, importantly loss of executive function, appear relevant. There is clearly a role of environment factors, including the path that needs to be traversed; the narrow doorway, for example. There was considerable discussion of therapy. In the end, given the multiplicity of causes, therapy may have to be individualized. Certainly, there should be care to optimize dopaminergic therapy. Physical therapy can play a role. Much discussion focused on the value of DBS of the pedunculopontine nucleus (PPN). The PPN sits in a complex region at the junction of the midbrain and the pons and appears to be a part of, or at least close to, the mesencephalic locomotor region. The literature is really still sparse, and it is not clear that the DBS electrodes are actually in the PPN in all patients, but some patients do appear improved.

Gait freezing remains an important clinical phenomenon, a fascinating set of problems for physiology and a challenge for treatment. Giladi and Hausdorff have been leaders in all aspects, and the attendees were grateful to them for organizing a useful conference that will set the direction of research in the next few years.
Editor’s Update

John D. England

The Journal of the Neurological Sciences (JNS) and its publisher, Elsevier, are working together to improve the journal and to make the submission process easier for authors.

A major complaint from authors concerns the necessity to format manuscripts to fit the idiosyncratic requirements of journals. Since many high-volume journals have a high rejection rate, authors frequently must reformate their manuscripts for submission to a different journal. This is not only a hassle, but a time-consuming process for authors.

In order to simplify the submission process for authors, JNS has eliminated strict requirements for reference formatting. As of now, we will accept manuscripts with no strict requirements for reference formatting. Any style of reference formatting will be accepted as long as the style is consistent.

If the manuscript is accepted for publication, then Elsevier will change the reference formatting to fit the style for JNS. As an extension of this process, in the near future JNS and Elsevier will begin accepting entire manuscripts without strict formatting or referencing requirements. Elsevier already has introduced this feature, which is named “Your Paper Your Way (YPYW),” for several other journals in its portfolio. It has been so well-received by authors that we will shortly begin offering this service to authors of manuscripts submitted to JNS. Taken together, these new options for manuscript formatting flexibility should make it easier for authors to submit manuscripts to JNS.

As noted in the previous issue of World Neurology, we have begun an “Editor’s Selection” of articles from JNS. Elsevier has agreed to allow free access to selected articles for members of the World Federation of Neurology. The process for viewing these articles is now streamlined: Click on one of the two featured articles on the World Neurology Online page, or use the “See all free JNS articles” link below the featured articles. It will take you directly to the free article page on the JNS website. In this issue, we share these two recent articles:

The Clinical and Pathological Phenotypes of Frontotemporal Dementia with C9ORF72 Mutations. Ying Liu and others from China have written a review on the phenotypes of frontotemporal dementia associated with C9ORF72 mutations. The expanded hexanucleotide repeat (GGGGCC) in the chromosome 9 open reading frame 72 (C9ORF72) is now recognized as one of the major causes of hereditary frontotemporal dementia (FTD). It is also the most frequent genetic cause of the ALS/FTD complex. However, the clinical and pathological phenotypes associated with C9ORF72 mutations appear increasingly diverse, and the mechanisms of disease are not well understood. See Liu Y, et al. Journal of the Neurological Sciences 335 (2013) 26-35.

An Association Between Benzodiazepine Use and Occurrence of Benign Brain Tumors. Tomor Harnod and others analyzed data from the National Health Insurance System of Taiwan to ascertain whether there is an association between long-term benzodiazepine use and the development of brain tumors. They identified 62,186 patients who had been prescribed benzodiazepines for at least two months between Jan. 1, 2000, and Dec. 31, 2009. These patients were compared with a matched non-benzodiazepine cohort of 62,050 patients. The incidence rate for benign brain tumors was 3.33 times higher in the benzodiazepine cohort compared to the non-benzodiazepine cohort with an adjusted hazard ratio (HR) of 3.15 (95% CI = 2.37-4.20). Additionally, the adjusted HRs for benign brain tumors increased with benzodiazepine dose. Thus, in this cohort study, the authors found a significant association of benign brain tumor patients with long-term benzodiazepine use. There are many possible explanations for such an association, and the authors correctly avoid the conclusion of causation. But, benzodiazepines are commonly prescribed medication, and further studies of this important topic are warranted. See Harnod T, et al. Journal of the Neurological Sciences 336 (2014) 8-12.

England is editor-in-chief of the Journal of the Neurological Sciences.

Breaking News

WFN Survey: The Global Perspective on Neurology Training

Vaccinia Zoster Virus in the Temporal Artery of a Patient with Giant Cell Arteritis

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In the remainder, specific diseases such as multiple sclerosis (MS) and Parkinson’s are mentioned, and although less important on the global scale, patients with MMD/ALS. The atlas highlights the worldwide skewed distribution of palliative care services and access to palliative care depending on income and geographical regions worldwide. They conclude that palliative care is a human right, and that therefore each country should take improvement of palliative care up as a national strategy.

In some countries, it starts at the beginning; the access to opioids. A few weeks ago, a well-known Russian military committed suicide, stating in his final letter, that he did so because of an unbearable pain due to cancer and that he was not able to get opioids. Some countries are proud of their drug protection programs, which also means that they protect cancer patients from getting the right drugs at the right time. Here, a sensible political balance has to be reached. Opioids, of course, are important for the treatment of pain as well as the treatment of dyspnea. Provision of multiprofessional high-skilled palliative care follows those basic tenets.

So what does this mean for neurology? Cancer patients, cardiovascular patients and specific neurological diseases are treated within the responsibility of neurologists worldwide. As the atlas also states, their estimates only refer to patients at the end of their lives. The concept of early integration of palliative care has now fully reached the oncological world with the ASCO stating that all cancer patients should have access to palliative care. So, the need for palliative care is even greater than stated in the atlas, which the authors fully acknowledge. So where is the relevant interest in neurology? Do all neurologists worldwide know what palliative care structures already exist in their neighborhoods? Do they refer refer patients there early enough for common management of patients and families? Where is the topic of palliative care in the training of neurologists worldwide? Where are the neurologists who help establishing palliative care structures in their region? Where are the ones who advocate for a national palliative care strategy including all relevant patient groups? And finally, where is the interest of moving the field forward by valid research? Still, many neurologists think this in an unscientific topic not relevant to them, and that is a pity — mainly for many patients worldwide suffering not only from devastating neurological diseases but also from clear palliative care mismanagement by their neurologists.
DISORDERS
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guidance of several foundations and the WHO, The World Bank commissioned Dean Jamison, Alan Lopez and Christopher Murray to review data and help develop background for what became the bank’s 1993 annual report, “Investing in Health.” This report was the World Bank’s first annual report to deal with health.
I was privileged to be one of the contributors to this effort, which set the stage for what followed. As an aside, the Global Burden of Disease (GBD) metric was developed and refined by Jameson, Lopez and Murray during their work on this project.
My participation in the work leading up to The World Bank’s annual report in turn led to the opportunity to be part of the Geneva-based Global Forum for Health Research (GFHR). The GFHR was organized by international health leaders from many institutions and countries to help develop an overall strategy for improving efforts to address health problems in LMICs. It is perhaps best known for coining “The 10/90 Gap,” which represents the fact that only 10 percent of global resources address the 90 percent of people who live in LMICs, and conversely that 90 percent of those resources target the 10 percent who live in wealthy countries.
As part of their efforts, the GFHR offered competitive grants for the purpose of developing studies and reports dealing with specific problems. I applied for and received $150,000 as funding to develop a study of brain disorders in LMICs. This funding program, “Brain Disorders in the Developing World: Research Across The Lifespan,” has been such a spectacular success. The PIC’s initiative required that relevant NIH Institutes, notably the National Institutes of Mental Health, Neurological Disorders and Stroke, Child Health and Development, contribute financially and programmatically. This, in turn, has served as a significant stimulus to these institutes to develop additional grant programs that focus on problems in LMICs. It is likely that the IOM Report and/or the Brain Disorders Program also have served to stimulate the development of research and service programs by other agencies and governments around the world.
I hope that this description of my role in the development of the Brain Disorders program will help to illustrate the fact that one individual, reaching out to colleagues can make a difference in developing approaches to address neurologic, psychiatric and developmental problems, whether locally or globally.

One of our key recommendations was to establish a fund to promote research designed to ameliorate the major problems of those with nervous system disorders in LMICs. This recommendation, which at the time seemed much more like hope than reality, materialized in the form of the FIC/NIH Brain Disorders program. The way in which that happened was as follows: The grant from the GFHR was not adequate to cover the IOM’s costs of conducting the study and publishing the report. In the course of developing the additional funding that was needed, Gerald Keusch, then-director of NIH’s FIC, contributed and then saw the need and opportunity for Fogarty to develop the funding program, “Brain Disorders in the Developing World: Research Across The Lifespan,” that has been such a spectacular success. The PIC’s initiative required that relevant NIH Institutes, notably the National Institutes of Mental Health, Neurological Disorders and Stroke, Child Health and Development, contribute financially and programmatically. This, in turn, has served as a significant stimulus to these institutes to develop additional grant programs that focus on problems in LMICs. It is likely that the IOM Report and/or the Brain Disorders Program also have served to stimulate the development of research and service programs by other agencies and governments around the world.
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HISTORY
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WFN be formed and chaired by Professor Robert Daroff. The subcommittee was charged with development of resources from WFN-sponsored journals, starting with the contracts of the Journal of the Neurological Scientists, Journal of Neuroimaging, Acta Neuropathologica and the WFN’s World Neurology newsletter. It also was decided to have the WFN accountants shift from a cash to an accrual method of accounting commencing Jan. 1, 1987. Any further increase in the number of WFN officers, which would progressively jeopardize WFN’s finances, was strongly discouraged.
The WFN Finance Committee recommended that a Fundraising Subcommit-tee be formed, chaired by Professor Helmut Lechtrek, to investigate Registration fees, advertisement, hall rentals and sponsorships were new sources of income.

John Walton took over as the new WFN president in 1998. One of the most central aspects of the subsequent WFN re-organization was to establish a corporate status for the association. The impending appointment of officers based in different countries and continents made the creation of a new secretariat pressing. The committee structure had to be reviewed. Financial planning systems, including itemized annual budgets, were introduced and expenditure monitored by the treasurer and reported to the Finance Committee. It was recommended to separate the offices of secretary general and trea-asurer. Following the World Congress in Vancouver, Canada, in 1993, 50 percent of the profits were retained by the host society and 50 percent were transferred to the funds of the WFN, in return for the WFN administrative costs involved in planning the congress and program. The WFN income increased because of the increase in annual dues and the royalties from its scientific journals. Development in neurosciences had increased, and effective new drugs were available.
James Toole was the WFN secretary-treasurer general in Richard Masland’s administration. They managed to have the “90/90” goal, which stated that 90 percent of the profits were retained by the host society, and that 90 percent were transferred to the funds of the WFN, in return for the WFN administrative costs involved in planning the congress and program. The WFN income increased because of the increase in annual dues and the royalties from its scientific journals. Development in neurosciences had increased, and effective new drugs were available.

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Peripheral Nerve Injuries During World War I

There are many days related to neurological diseases being celebrated by professional organizations in collaboration with the World Health Organization (WHO), national organizations and local health ministries, including World Stroke Day, Epilepsy Day and Rabies Day. These days have proven to be extremely helpful in promoting public awareness and generating advocacy throughout the globe, including non-developed Asian and African countries. For example, the World Stroke Organization announced a global competition for public awareness and advocacy campaign focusing on World Stroke Day.

Brazil in 2012 and Sri Lanka a year later won the competition creating a huge impact at the national as well as regional levels. All of the days related to neurology are linked to neurological diseases. A few years ago, Vladimir Hachinski suggested that we should start a day for healthy brains. The human brain is so fascinating and is so closely linked to the health of whole human being that we should promote healthy brains. The future of this universe is linked to our brains so we should start a global campaign. The Public Awareness and Advocacy Committee came up with the slogan of “Our Brains-Our Future.”

The World Federation of Neurology was established on July 22. The committee proposed that July 22 should be recognized as “World Brain Day.” This proposal was announced at the Council of Delegates meeting in September at the WCN. The proposal was received with a warm welcome by delegates, Hachinski, WFN president; Raad Hacke, WFN president-elect; Werner Hacke, WFN vice president; and other officials. The BOT meeting in February approved this proposal as an annual activity.

Our target audience is young brains throughout the world, and we want to promote healthy brain and brain health. Young students and minds are highly interested in knowing how the brain works and how we can make it work better. Brain health is a huge topic covering many areas, including understanding of brain function, optimization of brain function, disease prevention, mental health and treatment of brain disorders.

We should target to approach one billion people around the globe to educate about brain in 2014. Most activities will focus on World Brain Day, but it is a year-long campaign. National societies should plan activities focusing on young school and college students. With the help of social and electronic media, the information could go to millions of people. All societies should share their plans and activities, and those organizations with highest impact public awareness activities should be awarded. We should especially focus on Facebook and Twitter to connect with millions of people. Our young neurologists’ network on Facebook could be a great resource for this campaign. We should use multiple languages, especially focusing on Arabic, Chinese, French, German, Hindi and Spanish. We also could develop a five-minute promotional video with brief introduction of WFN in multiple languages. This video could be shared by millions through YouTube and Facebook. We have more than 100 member societies. If we are able to organize a few hundred programs on July 22 in all of those countries, it is bound to create an impact. Member societies could organize press conferences, media briefing sessions, lectures, seminars, conferences and poster competitions. Quiz competitions (Brain Quiz) have been successful and popular among school and college students.

Complexity of brain and neurological diseases often become a barrier for public awareness. “You should speak plain when you speak brain” was suggested by Keith Newton of the WFN. Our message should be simple and easily understandable for lay people. We could design a logo for this purpose, which may be a simple global message. WFN and local organizations could start a poster- or cartoon-designing competition to explain brain function and improve public awareness. Best posters, designs or cartoons could be awarded. We expect thousands of entries for this competition and some of these entries could become logos for our future campaigns.

There are many organizations working in this area, including the International Brain Council, International Brain Research Organization, the American Academy of Neurology, the International League Against Epilepsy and the World Stroke Organization. We should work with them for this common agenda. Strong liaison and lobbying with the WHO is important. If the WHO adopts this day in future, then this could be a great success for the WFN. If we are able to build a momentum around the globe in the coming years, we are sure it will become a WHO day in the future. •

Wasay is chair of the Public Awareness and Advocacy Committee for the World Federation of Neurology.
Moving Forward

BY RAAD SHAKIR

The first meeting of WFN trustees and regional directors was held Jan. 25-27 in London. The meeting was called for consultation and participation of all concerned in the formulation of policy and nominations for all WFN committees. This stems from the principle of global involvement through regional empowerment, which will drive WFN policy over the next four years.

The second principle is that all stakeholders should formulate policy in the first year of office and implement that policy in the ensuing three years.

The trustees and the six regional directors went through all activities making decisions on various WFN affairs for the next four years. (See photo below) All appointments to WFN committees came to an end Dec. 13, 2013. It was important that regional directors should suggest names for consideration; all trustees and directors did this. The duties and charges of all committees were circulated before representation in all committees. This ensures that the regions are better informed and their input is made at all levels.

The list of all committees is provided on page 8 of this issue of World Neurology. The committees will meet for the first time in 2014. Facilities for secretarial support and committee members’ interactions were decided, and the necessary support shall be provided.

The major issue of empowering the regions was discussed. This can take many forms of decentralization. Regions vary in their level of structure and activities. Some need much more support to form their own administrative and financial framework, while others are highly advanced and can help other regions in moving ahead. The WFN is the catalyst for interregional collaboration.

Regional directors are elected and have their portfolios; it is only correct that they should advise the WFN on the needs and policy in their parts of the world. A Regional Directors Committee has therefore been created. The deliberations and decisions will not only be channelled to the WFN but is planned that this will be the forum of region-to-region collaboration and interaction. It is likely that there will be more input into the needs of some regions from the experience and activity of another.

Activities such as traveling fellowships, regional symposia, departmental visits, short periods of training, research grants and other educational activities can be achieved with this form of empowerment and interaction. The well established and highly advanced regions have the ability to spread their knowledge and expertise worldwide. This is probably more achievable in a direct one-to-one manner rather than through a central administration.

I am delighted to report that a decision was made to allocate 30 percent of our annual budget for grants. The WFN has become an international funder for projects from many parts of the world. We also are grateful for the collaboration with neurology specialty organizations, including WSO, ILAE and MDS for sharing the cost of some of the grants.

Patient Day at the WCN 2013

BY WOLFGANG GRISOLD

The EFNS and the Austrian Society of Neurology (OEGN) hosted a Patient Day on Sept. 21, at the site of the World Congress of Neurology in Vienna. It was opened by Eduard Auff, the Congress president; Vladimir Hachinski, WFN then-president; and Richard Hughes, EFNS president; signaling a high value and interest for this event.

The event was announced and publicized by media in Austria prior to the meeting.

Patient Days are important events within congresses, where distinguished speakers present new developments of the field and, where in a discussion following their presentations, attendees are able to ask questions. For the first presentation, a video presentation of a patient with a brain tumor was selected. The other disease topics were stroke, Parkinson’s disease and MS, each followed by discussion. The presentations were in German, and Austrian groups and associations for specific diseases (e.g. MS, stroke, Parkinson) were invited, as well as the OEGN website reps and media. About 400 patients and relatives attended and listened to the presentation by experts.

Within the EFNS, a Patient Day, in cooperation with EFNA, took place in Helsinki in 2003. It was aimed at translating the patients’ needs into a dialogue toward better medical care and quality of life and has since become a permanent feature of the meeting. Other medical specialties, in particular oncology, have regular patient days to inform, and also learn about patients’ needs.

For the World Federation of Neurology, this was a new type of meeting, aimed at including patient and caregivers, assessing their needs and receiving input to improve neurological services.

Patient days also serve to inform patients and caregivers in an efficient way regarding new developments. This is important, as patients and caregivers often get information from media and the Internet, and they may have difficulty determining what is the most correct information. Conversely, and perhaps more important, is the fact that the medical profession needs to know what it is that patients wish to know, and what patient and caregiver questions are.

Many aspects of the relationship of patient/caregivers with their physicians are changing.

Medicine developed from a paternalism-defined structure into a more patient-driven autonomy structure. Sometimes, the bureaucracy is overarching into an “in-between” model of physician-patient/caregiver interaction. Thus, it is more important than ever that physicians and patients find ways to communicate and work together.

Health organizations often include patient representatives on their boards, and in many European guideline committees, patient representatives are already important constituents.

Another important way to look at this kind of meeting is its role in furthering advocacy — better communicating health needs to local and national institutions and bodies. The basic source of need in all matters of health issues is the needs of patients and their caregivers, which drive the need to enable progress in medicine and in health structures. Health structures depend on general policy, and the role of advocacy is to make needs of patient/caregivers and health professionals heard.

Finally, and this is the summary of this task, informed patients will be better partners in fighting neurological disease. We hope that the patient day, after its successful introduction in Vienna, will become a regular part of WFN Conferences.

If you need more information, contact me at wolfgang.grisold@wfnneurology.org (WFN) or Tanja Weinhart (OEGN) at weinhart@admicos.com.

Grisold is WFN’s Secretary-Treasurer General.
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WORLD WAR I
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Farquhar Buzzard, the English physician, working a.o. at the National Hospital. From the English ranks, Arthur Henry Evans and James Purves-Stewart published their experiences, largely observations of injuries sustained by many of whom had fought against submarines sank seven U.S. merchant ships. U.S. President Woodrow Wilson went to Congress calling for a declaration of war on Germany. The U.S. Congress voted on April 6 to do so. Figures with respect to American peripheral nerve injury casualties during World War I were provided by several sources, including neurosurgeon Charles Harrison Frazier (1879-1936). Returning casualties with peripheral nerve injuries were treated in 12 peripheral nerve centers, usually located in general hospitals, where medical officers with experience in neurosurgery as well as consultant neurologists were working. Frazier provided the anatomical location of almost 2,400 peripheral nerve injuries. Byron Stookey (1887-1966) served with the British Royal Army Medical Corps (1915-1916) and the U.S. Army Medical Corps. In his Surgical and Mechanical Treatment of Peripheral Nerves (1922), he published relative frequencies of peripheral nerve injuries of 1,210 war casualties. Of all nerve injuries described in the four countries (more than 10,000 in the various publications), radial nerve lesions were generally the most frequent. Partial lesions of the radial nerve were rare, in contrast to the frequency of partial injuries of the ulnar and median nerves. At least two eponyms are remembered from this dark period in the history of neurology. Working on different sides of the front, a French (Tinel) and a German (Paul Hoffmann:1884-1962) neurologist are remembered in one eponym, notably the Tinel-Hoffmann sign. It indicates radiating tingling sensations in the otherwise anesthetic skin area innervated by an injured nerve, upon light percussion of the area. The sign was considered to indicate the presence of new sensitive regenerating nerve fibers. Another French neurologist, Jules Froment (1878-1946), once a co-worker of Joseph Babinski, is remembered by his “signe de journal,” based on the fact that in ulnar nerve neuropathy, the action of the paralyzed adductor pollicis muscle is compensated for by the flexor pollicis longus muscle, innervated by the median nerve, resulting in flexion of the distal phalanx of the thumb.

Further reading

Koehler is neurologist at Atrium Medical Centre, Heerlen, The Netherlands. Visit his website at www.neurohistory.nl

ATTITUDE DES POUCES DANS LA PREHENSION ENERGIQUE CHEZ UN BLESSE

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osseuma dans la préhension énergique chez un blessé atteint de paralysie cubitale gauche.

Froment sign (from Presse Medical, Thursday, Oct. 21, 1913).

FORWARD
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This only cements the close relationship with these organizations. The WFN total grants for 2013 were $413,000. The trustees decided that for 2014 a more structured system would be introduced. The application process is now open, and awards will be made in this summer.

Training African neurologists in Africa has been on the boil for six years since a report to the then-President Johan Aarli was made by the WFN Special Representative Ragnar Stien (Oslo). Two centers were visited then, and the first — Rabat, Morocco — was finally accredited by a special visit in September 2013. The Rabat center will start receiving its first African trainee in September 2014. The funding for this project, crucial for the future of African neurology, is set aside and is part of the WFN budget.

The second center in the Stien report is at the University of Cairo. This center will cater to English-speaking trainees, and a Memorandum of Understanding has already been signed in 2012. A visit by Secretary General Wolfgang Grisold and me in February 2014 will be followed by the formal accreditation visit soon.

The union of the two European neurological associations — European Federation of Neurological Societies and European Neurological Society — delights the WFN. The creation of the European Academy of Neurology is a most welcome event in international neurology.

The WFN was delighted to welcome Professor Jacques De Reuck representing EFNS and Professor Josef Valls-Solé representing the ENS to the London meeting.

We look forward to the formal declaration of the birth of EAN in Istanbul during the joint meeting of EFNS/ENS in June 2014.

Two regions are holding their biennial meetings in the early part of 2014.

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The Asian and Oceanian Association of Neurology (AOAN) held its meeting in March and the Pan African Association of Neurosciences in April. Both meetings are happening at crucial times for both organizations to consolidate the excellent progress the first has made and to gather support to move ahead in the case of the second.

Your WFN is planning to move forward with all of its activities and needs your support and advice. All ideas, which promote our goals and objectives, are welcome.

BOOK REVIEW

Electroencephalogram Examples and Guides

BY ELAINE WYLIE, MD

It is a privilege to introduce the book “Electroencephalogram Examples and Guides,” published in August 2013. The book provides a concise and comprehensive compilation of text and EEG recordings collected to shorten the learning curve toward competence in EEG interpretation.

This book will be valuable to a wide variety of readers. For specialists preparing for EEG certification examinations, such as those offered by the Asian Epilepsy Academy – ASEAN Neurological Association (ASEPA-ASNA) or the American Board of Clinical Neurophysiology (ABCN), it could serve as an essential guide. For the practicing neurologist, it can serve as a useful quick reference. For beginners, including EEG technologists and neurology trainees, it can be an effective teaching resource.

Throughout the book, complex concepts are simplified without the sacrifice of fine details. Facts and comparisons are given in point forms and tables. Classifications of various EEG findings are presented in an easy-to-understand algorithm. EEGs from common to rare conditions are presented in a stimulating quiz format. The index enables quick reference to EEG tracings from patients with different diagnoses.

Sections 1 and 2 deal with the basics of EEG, including indications, limitations and neurophysiologic principles. Section 3 provides actual EEG recordings, starting with normal findings, artifacts and benign variants and progressing through epileptiform and non-epileptiform abnormalities. Section 4 includes a systematic step-by-step approach to EEG interpretation, and Section 5 offers a quiz for readers to practice their EEG interpretation skills. Section 6 deals with EEG evaluation of syncope and blackout spells, while Section 7 deals with evaluation of coma and altered states of consciousness. Finally, Section 8 provides an opportunity for self-assessment of the reader’s discernment of the various points in the book.

This innovative book is recommended for anyone who seeks to learn EEG in an effective and systematic way. That the author also made the process pleasurable is compensated for by the flexor pollicis longus muscle, innervated by the median