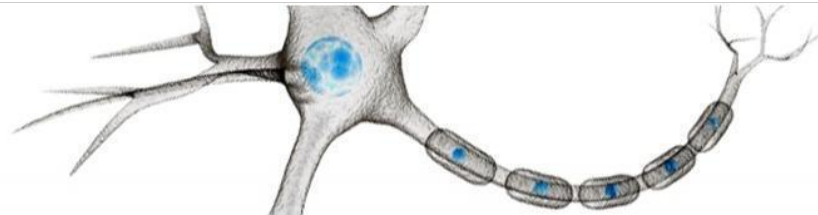


INS e-Newsletter



Summer 2008

Welcome to the New INS e-Newsletter!

The International Neuromodulation Society is growing, and to better serve our global community, we will start producing regular e-newsletters to keep our members around the world connected and apprised of all the latest developments in the INS, its Chapters and the neuromodulation world, in general. We invite you, our members, to submit articles to this publication, and to let us know what you think of this new electronic newsletter!

President's Message

It is with great pleasure that I am writing this "President's Message" to the membership this year, because 2007 was a banner year and a watershed year for the INS. I am proud to say that we, in the International Neuromodulation Society (INS), have far exceeded our goals for meeting our vision and mission for the year. The mission, as adopted by the Board of the INS, is to "promote, disseminate, and advocate for the science, best practice and accessibility of all aspects of neuromodulation. Our multidisciplinary Society is established to be inclusive of all scientists, physicians, bioengineers, members of industry and other professionals who have a primary interest in the field of neuromodulation." We have done that and more!

Membership

Membership in INS continues to grow. As the beginning of last year, our membership was approximately 600 members. At present, there are approximately 1200 members of our international community, a 100% increase. The largest chapter, the North American Neuromodulation Society (NANS), has doubled its membership, and now has approximately 600 members! We appreciate the efforts of all the chapters to grow our international community!

Chapters

Presently, the INS has 12 international chapters from 5 different continents. National chapters which are in various stages of formation include, a Chinese Chapter, a French Chapter, and a South African chapter. There is substantial interest from Argentina, Austria, Colombia, Costa Rica and South Africa to develop chapters. To be recognized as a chapter of the INS, each interested national or regional

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Save the Date!
**INS Congress in
Seoul, Korea
12-18 September 2009**
Abstract Deadline: 1 April 2009

group must:

- Form a legal, not for profit organization
- Recruit at least 20 paid members
- Welcome all members regardless of discipline
- Draft bylaws in compliance with INS bylaws
- Organize an annual scientific meeting
- Maintain its own financial independence from the INS
- Report regularly to the Executive Office of the INS

The Board of the INS

The Board of the INS represents the members of the Society and the countries that participate as chapters of the INS through their Presidents and Directors-at-Large. The Directors-at-Large nominees are either selected by a Nominating Committee, appointed by the President or are elected directly by the membership. The officers of the Society and Board are selected by the entire Board.

I am delighted to announce that Dr. Simon Thomson, formerly the INS Secretary, has been elected President-Elect and he will commence his three-year term in September 2009! The INS Officers have elected Dr. Damianos Sakas, who is also the President of the SE European Chapter, to succeed Dr. Thomson in the office of Secretary. Also, Dr. Vassilios Vadokas is the newly-elected President of the German Chapter. Congratulations Dr. Thomson, Prof. Sakas & Dr. Vadokas!

The present INS Board consists of:

Executive Board

- Elliot Krames, President & Journal Editor-in-Chief, CA, USA
- Simon Thomson, President-Elect, Basildon, UK
- Liong Liem, Treasurer, Nieuwegein, the Netherlands
- Damianos Sakas, Secretary, Athens, Greece
- Brian Simpson, International Functional Electrical Stimulation Society Liaison Officer/Ex Officio, Cardiff, Wales, UK

Presidents of Regional Chapters

- Marc Russo, the Australian Neuromodulation Society
- Bart Nuttin, the Benelux Neuromodulation Society
- Eduardo Barreto, the Brazilian Neuromodulation Society
- Krishna Kumar, the Canadian Neuromodulation Society
- Vassilios Vadokas, the German Neuromodulation Society (DGNM)
- Paolo Poli, the Italian Neuromodulation Society
- Yoichi Katayama, the Japan Neuromodulation Society (JNS)
- Jung-Kyo Lee, the Korean Neuromodulation Society
- Jaimie Henderson, the North American Neuromodulation Society (NANS)
- Francisco Robaina, the Spanish Neuromodulation Society (SENEMO)
- Damianos Sakas, the South Eastern European Neuromodulation Society
- Jon Valentine, the Neuromodulation Society of the United Kingdom and Ireland (NSUKI)

Directors at Large

- Giancarlo Barolat, USA
- Ross Davis, Editor for Functional Electrical Stimulation, USA
- Timothy Deer, USA



The Ten Symbols of Longevity (detail), Korean, Joseon period, ca 1881, ten-panel folding screen, ink and color on silk, Murray Warner Collection of Oriental Art (Courtesy of the Jordan Schnitzer Museum of Art).

New Board Appointments



Simon Thomson, President-Elect

On behalf of the Board I would like to thank Prof. Mario Meglio, Immediate-Past President, and one of the founders of the INS for his years of dedicated participation on the INS Board. He has been a passionate proponent of our Society since its inception and, the INS would not be where it is today without his support. I also would like to thank Prof. Bengt Linderoth, outgoing Director-at-Large, for his unwavering support of the INS, and his seminal academic contributions to the field. Their terms in office ended in June, and we will miss them both!

In June of this year, two of the three “spots” for Directors-at-Large were up for election. The nominating committee appointed by the President, nominated four candidates: Drs. Giancarlo Barolat; Jin-Woo Chang; Timothy Deer; and Jean-Pierre Van Buyten. The INS membership put forth two additional nominees: Dr. Joshua Prager and Mr. Scott Drees.

I am pleased to announce that Dr. Giancarlo Barolat has been elected for a second three-year term, and that Dr. Timothy Deer has been elected for his first term. We congratulate them and welcome them to the Board! We also extend our sincere thanks to all the candidates for their willingness to serve on the Board of the INS.

Acapulco Conference

The Society held its 8th International Congress at the Fairmont Princess Hotel in Acapulco, Mexico on December 7-12, 2007, which was co-hosted with NANS, their 11th Annual Scientific Meeting. The Congress was a tremendous scientific and social success for the Societies, members and non-members who attended, and for industry.

The Congress began on the 7th and 8th of December with 3 Pre-conference Seminars, “Fundamentals of Neuromodulation,” chaired by Joe Pancrazio of the National Institute of Neurologic Diseases and Stroke (NINDS) of the National Institutes of Health (NIH) of the USA, “Clinical Neural Engineering,” chaired by Dominique Durand, Professor of Engineering at Case University, Cleveland, Ohio, USA and Editor-in-Chief of Neural Engineering, and “Starting a Neuromodulation Start-Up,” chaired by Christopher Coburn of the Cleveland Clinic, Cleveland, Ohio. On the 9th of December, the program was dedicated to the brain and chaired by Ali Rezai of the Cleveland Clinic. The 10th was dedicated to pain and was chaired by Joshua Prager, the then President of NANS. The 11th was dedicated to functional electrical stimulation and was chaired by the then IFESS President, Paul Meadows. The 12th was a day dedicated to neuromodulation for organ systems and was chaired by Magdi Hassouna, Urologist from Toronto, Canada.

There was a total of 650 attendees at the pre-conference and conference presentations, representing 28 different countries. 250 delegates attended the pre-conference seminars, and 134 represented our sponsors and exhibitors. We had 62 faculty members, 82 oral presentations, and 160 poster presentations. We thank our faculty members, poster presenters and delegates for contributing to the success of the event!

Our exhibit hall, though small because the host country, Mexico, is without a large neuromodulation industry, was well represented by delegates of the international neuromodulation scene. We thank all of our exhibitors and sponsors.

Platinum Sponsors

- [Advanced Neuromodulation Systems, a St. Jude Company](#)
- [Boston Scientific Neuromodulation](#)
- [Elan Pharmaceuticals](#)
- [Medtronic Neuromodulation, Inc.](#)



Damianos Sakas,
Secretary



Giancarlo Barolat,
Director-at-Large



Timothy Deer,
Director-at-Large



Vassilios Vadokas,
President German Chapter

Exhibitors

- Caperian, Inc.
- [Epimed International, Inc.](#)
- [Gastroparesis & Dysmotilities Association](#)
- [Greatbatch, Inc.](#)
- [Intellect Medical](#)
- [IOP Publishing](#)
- [Neurotech Reports](#)
- [NeuroTherm Limited](#)
- [Northstar Neuroscience](#)
- [Pain Medicine News](#)
- [Victhom Human Bionics, Inc.](#)

Our Journal

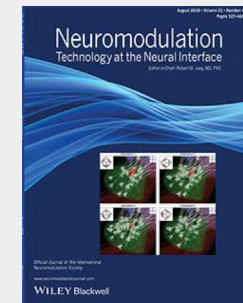
In 2007, our Journal underwent a name change from *Neuromodulation* to *Neuromodulation: Technology at the Neural Interface*. The Board of the INS expected this change would reflect the global and catholic nature of the field of neuromodulation and the vision of the Society to represent all of neuromodulation, the field of applied neuroscience. We would hope that this Journal will represent and entice manuscript submissions from the fields of applied neuroscience, neural networks, neural engineering, rehabilitational neuroscience, functional electrical stimulation, neural prosthetics, functional neurosurgery, cardiology, urology, gastroenterology, pain medicine, to name a few.

Our Journal continues to grow, in spite of its failure to be recognized and indexed by Medline and the Library of Medicine. However, our journal's Impact Factor has more than doubled this past year, and is currently **1.353!** I am proud of the Journal's accomplishments, I am grateful to the Editorial Board, authors and Industry sponsors for their dedication and support, and I have high hopes for recognition by Medline in due course.

Public Relations

This year, at the suggestion and with the support of our industry sponsors, the INS has stepped up to the plate to meet one of its missions and visions, and that is to be the "spokesperson" for the field of neuromodulation. The Society hired a public relations firm to represent the Society to the public, who created a media audit of the field to identify INS-specific needs in terms of representation to the media, to patients afflicted with diseases amenable to neuromodulatory therapies, and to the government. As a result of their work and "our good works," the INS was awarded the Neurotech Leaders Forum's "Most Innovative Society Golden Electrode" award at their conference in October of 2007. The INS is grateful to Jim Cavuoto, Chairman of the Neurotech Leaders Forum, and the awards committee for this recognition. Also, as a result of this work, the Society was asked to participate in the Neurotech Industry Organization's Public Policy Tour in Washington DC, which I attended in March of 2007. I look forward to expanding our public relations efforts on a global level with our new PR team at [Feinstein Kean Healthcare](#).

All in all, I, as your President and Editor-in-Chief of your Journal, am quite proud of what our Society has accomplished in just one year. The growth of our membership, the collaboration with NANS in a wonderful conference, the growth of the numbers of our chapters, the improvement in our science and above all, the fact that neuromodulation is an "idea whose time has come" and our Society is well positioned to represent it. Indeed we all should be quite proud. I, for one, am looking forward to the second half of 2008 and 2009. This year, it is my "job" to help new and interested national groups form new chapters and we, in 2008 should see China, Argentina, Colombia and South Africa



Impact Factor is now 1.353!

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[Contact](#)

become national chapters of the INS. We will continue to hasten our public relations and lobbying efforts to ensure that our members are well reimbursed for their efforts and that our patients continue to have access to these therapies.

Lastly, I want to say that I am humbled by all of you and am proud to serve. I thank you for this magnificent personal opportunity. I hope to see all of you at the next Congress of the INS to be held in Seoul, Korea on September 12-18, 2009!

- Elliot Krames, MD, President

Chapter News

Welcome New Chapters in Brazil, Canada and Korea!

Australian Neuromodulation Society

The Australian Chapter recently hosted its 3rd Annual Scientific Meeting at the Perth Convention Centre in Western Australia. The conference, held on the 30th March 2008, was part of the 28th Annual Scientific Meeting of the Australian Pain Society. The theme for this year's meeting, Neuromodulation: Technology at the Neural Interface, continued on from the international meeting held in Acapulco, Mexico in December last year. [Full Text](#)

Brazilian Neuromodulation Society (New!)

Under the leadership of Dr. Eduardo Barreto and Dr. Osvaldo Vilela-Filho, the Chapter became official in December 2007. Congratulations and welcome!

Canadian Neuromodulation Society (New!)

Under the leadership of Dr. Philip Peng and Dr. Krishna Kumar, the Chapter became official in July 2008. Congratulations and welcome!

German Neuromodulation Society

The German Society has a newly-Elected President: Dr. Vassilios Vadokas. Congratulations, Dr. Vadokas! The INS is grateful to Dr. Athanasios Koulousakis, the Chapter's first President, for his efforts in forming and leading the chapter.

Japan Neuromodulation Society

We held the 4th Annual Meeting of the Japan Neuromodulation Society (JNS) on May 17, 2008 in Tokyo. The president of this meeting was Prof. Kazushige Murakawa. (Pain Clinic, Hyogo College of Medicine). The main theme of this meeting was "Spinal Cord Stimulation Therapy in Neuromodulation." We believe that this provided us with an excellent opportunity for close interaction among neurosurgeons, anesthesiologists, neurologists and basic neuroscientists in related fields.

On January 25-26, the 47th Annual Meeting of the Japan Society for Stereotactic and Functional Neurosurgery was held in Hamamatsu, and more than 200 researchers participated. We had a productive presentation and symposium session focusing on topics such as deep brain stimulation, spinal cord stimulation and motor cortex stimulation. In particular, we were fortunate to have the opportunity to hear special lectures by Prof. A. M. Lozano, Prof. J. W. Chang and Prof. E. H. Chudler.

Prof. Lozano and Prof. Chang presented lectures on the topic of Neurosurgery for Mental Disorders, and Prof. Chudler presented a lecture on the Role of Basal Ganglia in Pain.

The JNS will surely develop more and more and will establish a new clinical scientific field in Japan.
-Prof. Yoichi Katayama, President

Korean Neuromodulation Society (New!)

Under the leadership of Prof. Jung-Kyo Lee, and Prof. Jin-Woo Chang, the Chapter became official in May 2008. Congratulations and welcome!

Spanish Neuromodulation Society

The Spanish Neuromodulation Society will hold its annual meeting on 21 November 2008, in Madrid, Spain.

North American Neuromodulation Society

The North American Neuromodulation Society will hold its 12th Annual Meeting, "New Frontiers," at the Madalay Bay Hotel in Las Vegas, Nevada, on 4-7 December 2008.

Neuromodulation Society of the United Kingdom and Ireland

The year 2007 was a good one for NSUKI and our membership grew to around 60 members. We held a very positive and successful 7th Annual Scientific Meeting (ASM) at York on 16th & 17th November 2007. This was a joint meeting with British Stereotactic & Functional Neurosurgery Group. The scientific faculty of NSUKI put together an excellent 2-day agenda with general appeal to all those involved in neuromodulation. The meeting was well attended as were the industry sponsored satellite symposia organised by Boston Scientific, Medtronic and Eisai (Ziconotide). The NSUKI Board are particularly grateful to Dr. Peter Toomey for his invaluable assistance in organising such an excellent conference.

Mr. Brian Simpson is organising the next ASM. **The meeting will take place at the Hilton Hotel, Cardiff in Wales on 6th, 7th & 8th November 2008.** There are plans to make this a joint meeting with the Benelux Chapter of the INS. As in previous years, INS members from outside of the UK & Ireland will be very welcome to join us at our ASM.

The International Neuromodulation Conference in Acapulco was well attended by NSUKI members with several making the long journey to Mexico. Dr. Jon Valentine & Dr. Simon Thomson attended the INS Board meeting at which the highlight was without doubt the election of Dr. Thomson as the next President of the INS. Congratulations, Simon!

Last autumn, the NSUKI membership voted in an election for our next President. The results were announced at the ASM at York and Dr. Francis Luscombe, who has previously served on the board as Treasurer, was elected as the next President. He has now rejoined the NSUKI Board as President-elect and will take over the presidency in November 2008. Congratulations and welcome back, Francis!

Educational neuromodulation seminars had been planned for January 2008 at the Association of Anaesthetists of Great Britain & Ireland facilities at Portland Place, London. Dr. Francis Luscombe & Dr. Jon Valentine organised these events. Unfortunately due to some administrative problems the seminars had to be postponed. The new dates for the 2 seminars are:

- 15th Oct 2008 - An introduction to Intrathecal Drug Delivery
- 16th Oct 2008 - An introduction to spinal cord stimulation

This year, NICE (National Institute for Clinical Excellence) are appraising spinal cord stimulation for neuropathic and ischemic pain and their report is expected by November 2008. NSUKI has participated in this process which is recognised as being very important for all those involved in neuromodulation in the UK. Dr. Jon Valentine & Sam Eldabe (NSUKI Secretary) were nominated as the NSUKI representatives and submitted their contribution to NICE prior to the deadline of 20th November 2007.

Dr. Simon Thomson has put in a bid to the National Audit Advisory Group for £100K for our National SCS Database. NSUKI recognises the importance of developing a national database for neuromodulation procedures and Dr. Thomson is taking a leading role in this process.

There are currently no neurosurgeons on the NSUKI Board. To ensure continuing input, Mr. Roger Strachan, Consultant Neurosurgeon, has been co-opted to represent neurosurgical interests. Roger has been closely involved with NSUKI leading up to our joint meeting with the British Stereotactic & Functional Neurosurgery Group in November last year.

The NSUKI website is making progress with Dr. Sam Eldabe taking the leading role. Our website include details of the NSUKI Board, President's Newsletter and details about meetings. A members' forum sponsored by a grant from Eisai is also planned and should be up and running before the end of this year.

With so much going on, we have a great deal to look forward to in 2008 and it should be a very exciting year for all of us.

-Dr. Jon Valentine, President

IFESS News

Gladly, I accept the invitation to introduce myself and report about IFESS activities in this newsletter.

Since the beginning of the year, we have a newly elected slate of Officers and six new members of our Board of Directors.

I, Manfred Bijak, feel extremely honored to serve as IFESS President for the next three years and will do my best to lead this Society further on the path my predecessors built. My background is biomedical engineering in research and development as well as teaching and education. You can find me in Vienna, Austria in the Vienna University hospital at the Center of Biomedical Engineering and Physics. Please feel free to contact me any time regarding IFESS matters.

Our new officers are Jane Burrige from UK (Vice President); Glen Davis from Australia (Secretary) and Thierry Keller from Switzerland (Treasurer).

At this point, I wish to thank the outgoing Officers and Board of Directors who served us so ably these past three years, especially our Past President, Paul Meadows, whose leadership and vision were felt by all.

In early fall 2007, we had the 9th Vienna International Workshop on Functional Electrical Stimulation

organized by Winfried Mayr, Melitta Pichler and myself in Krems, Austria. Later, we had our Twelfth Annual Conference in Philadelphia, PA, USA. Brian Smith, Randal Betz, Richard Lauer, Samuel Lee, MJ Mulcahey Theresa Johnston and Carole Tucker organized a wonderful meeting that was held at and supported by the Shriners Hospital for Children.

Both meetings were perfectly organized; delighting the participants with very interesting keynote lectures and excellent presentations showing the ongoing development in the field of FES and adjacent areas.

We thank the organizers of both meetings for their tremendous efforts! Thanks to Paul Meadows' commitment, the full length proceedings of both meetings are available on the IFESS CDROM along with all the other proceedings of IFESS conferences and Vienna Workshops.

Another important event related to the mission of IFESS must be mentioned: The FESAiR Workshop (June 7 - 8, 2007), held in Vancouver, British Columbia.

Our thanks go to the organizers Maura Whitaker, Jenny Robertson, Christine Singleton and Geraldine Mann for their tremendous dedication to bringing FES knowledge to physio therapists and others.

This year we will have our 13th Annual Conference titled "From Movement to Mind" from 21st -25th of September 2008 in the beautiful city of Freiburg, Germany, hosted by Thomas Stieglitz in close cooperation with the VDE. Please visit the [IFESS Website](#) Conferences page for details.

Finally I wish you all the best and hope to see you at our Annual Conference in Freiburg!
- **Manfred Bijak, IFESS President**

Trainee Grant is Now Available for the 2009 INS Congress in Korea!

This grant will be used to underwrite the travel and accommodation expenses of eight (8) students, fellows, and trainees in the field of neuromodulation. If you believe you may be eligible for a grant, please [contact](#) the INS grant administrator.

Funding for this conference was made possible (in part) by NS061558 from the National Institute of Neurological Disorders and Stroke (NINDS) and the National Institute for Diabetes and Digestive and Kidney Diseases (NIDDK). The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

New Investigator Competition

The International Neuromodulation Society (INS) is pleased to announce its third competition for New Investigator Best Manuscripts in the area of Neuromodulation, and will offer up to four awards of a minimum of \$2,500 each. The award(s) will be given in recognition of outstanding originality and ingenuity in the scientific work concerned with neuromodulation. All areas of neuromodulation will be

considered in this competition. Both basic and clinical science will be encouraged for submission. Our aim is to encourage investigation of mechanisms of action. The current lack of information is impeding the approval of new treatments and preventing neuromodulators from improving the efficacy, safety, and applicability of existing treatments. The INS is very enthusiastic about this competition, because it believes it will encourage new investigators to invest their time and energy to make critically important contributions to the field of neuromodulation.

To qualify for the competition, each candidate must have completed training within the last five years, or must be within the first five years of his/her faculty appointment at the time of submission of the manuscript, nomination and supporting documents.

The nomination for the award will require the following documentation in addition to the manuscript:

- a letter from the department chair or supervisor needs to certify that the candidate meets the qualifications
- a current curriculum vitae
- 2 letters of recommendation must be submitted with the manuscript. One recommendation must come from the immediate supervisor of the candidate.

Since selection of the award recipient will be based on the review of a manuscript describing original work, he/she must be the first author. If the manuscript has additional co-authors, then the manuscript must be accompanied by a letter from the co-authors attesting to the significant contribution of the first author in the investigation described in the manuscript.

The best manuscripts will be chosen, through a review process, by an Awards Review Committee. The Committee, led by Dr. Robert Foreman, Chair of the Department of Physiology at the University of Oklahoma Health Sciences Center, is made up of outstanding basic and clinical scientists who have made important contributions to science and to neuromodulation.

The award-winning manuscript(s) must be submitted to [Neuromodulation: Technology at the Neural Interface](#), the journal of the INS, and the official journal of the International Functional Electrical Stimulation Society, for publication. The submission deadline is **December 31, 2008**. For further details, please [contact](#) the Editorial Office.

The INS gratefully acknowledges the support of Medtronic Neuromodulation for this competition.

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