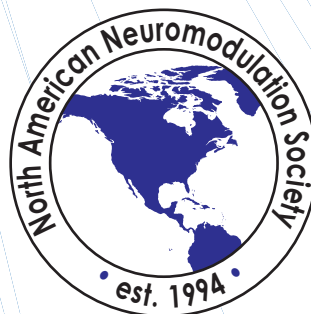


# Conference and Exhibitors' Guide

December 9-12, 2007  
Acapulco, Mexico

**ins**





**Biotech innovator Elan Corporation, plc  
discovers and develops therapies  
that improve patients' lives.**



Elan is committed to making a difference in the lives of patients and their families by developing scientific innovations to address significant unmet medical needs worldwide.

Elan is proud to be a Platinum Sponsor of the 2007 INS and NANS Conference.



Every **5** Seconds  
we help improve another life

**Elena**  
*Parkinson's disease*



**Medtronic**

*Alleviating Pain · Restoring Health · Extending Life*

# With Thanks to our Generous Sponsors and Exhibitors

As Chairs of the Joint Conference of the International Neuromodulation Society and the North American Neuromodulation Society, we thank the following companies for their generous support of this conference.

From the magnificent and informative Exhibit Hall in Princessa Ballroom A (13), to the educational Symposia during the Conference, to the convenience of our Internet Café, to the details of conference bags and badge lanyards, we encourage you to personally thank our Platinum Sponsors and our Exhibitors for making this Conference possible.

Elliot Krames, MD, President of the International Neuromodulation Society  
Joshua Prager, MD, President of the North American Neuromodulation Society  
Francisco Velasco, MD, Honorary Conference Chair

## Our Platinum Sponsors



## Our Exhibit Hall Exhibitors



## Our Foyer Exhibitors

Gastroparesis and Dysmotilities Association



IOP Publishing



# Exhibition Hall and Sponsored Activities Open to All Attendees

## Exhibition Hall Hours - Princesa Ballroom A (13)

### **Sunday, December 9**

1200 – 1800

(Includes Coffee Break at 1600 – 1630 and Margaritas at 1715 – 1800)

### **Monday, December 10**

0700 – 0800

1000 – 1030 Coffee Break

1200 – 1800

(Includes Coffee Break at 1600 – 1630 and Margaritas at 1715 – 1800)

### **Tuesday, December 11**

0700 – 0800

1000 – 1030 Coffee Break

1200 – 1800

(Includes Coffee Break at 1600 – 1630)

---

## **SPONSORED EDUCATIONAL ACTIVITIES**

### **Sunday, December 9**

1300 – 1415

Princesa Ballroom B-C (13)

**CME Luncheon Symposium:** Intrathecal Therapy: Evolving Options and Ideas, supported with a generous educational grant from **Elan Pharmaceuticals**. Meeting manager Medlogix. CME provider, CommgeniX.

1415 – 1715

Atlantes Center (I)

**Boston Scientific Symposium:** Advances, Physics and Outcome Improvements in SCS (non-CME)

### **Monday, December 10**

1300 – 1415

Princesa Ballroom B-C (13)

**ANS Luncheon Symposium:** Government Scrutiny of Drug and Device Marketing Practices: What Physicians Need to Know to Keep Interactions with Manufacturers from Turning into Infractions (non-CME)

1415 - 1715

Atlantes Center (I)

**ANS Symposium:** SCS: Spinal Cord Stimulation: Innovative Approaches and Provocative Debate (non-CME)

### **Tuesday, December 11**

1415 – 1715

Atlantes Center (I)

**Medtronic Symposium:** 2007 Update: Neurostimulation for the Treatment of Neuropathic Back and Leg Pain in Patients with FBSS (non-CME)

### **Throughout the Conference**

Enjoy conference bags, lanyards, and internet access at the Cyber Cafe in the Princesa Foyer (13).





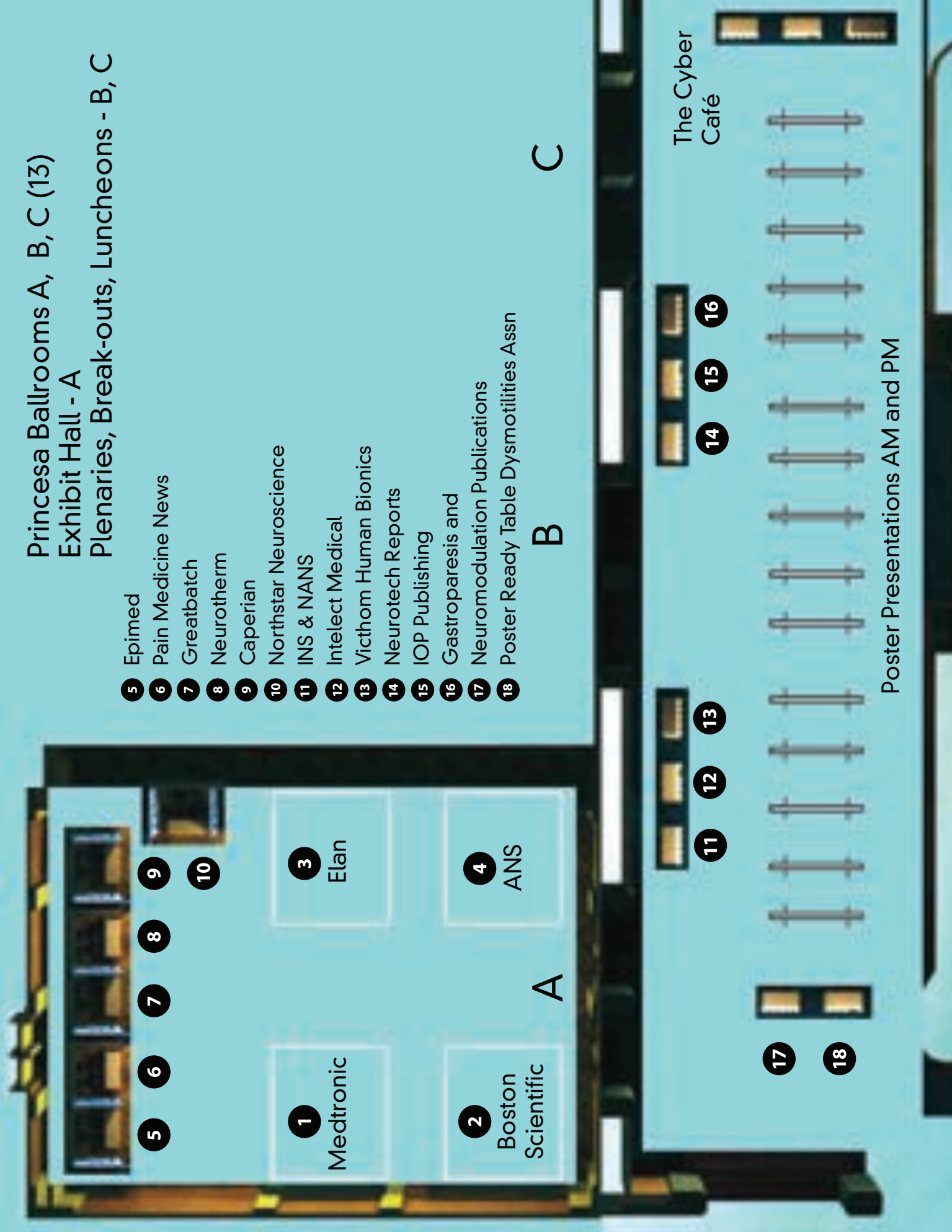
Princesa Ballrooms A, B, C (13)  
Exhibit Hall - A

Plenaries, Break-outs, Luncheons - B, C

- 5 Epimed
- 6 Pain Medicine News
- 7 Greatbatch
- 8 Neurotherm
- 9 Caperian
- 10 Northstar Neuroscience
- 11 INS & NANS
- 12 Intelect Medical
- 13 Victhom Human Bionics
- 14 Neurotech Reports
- 15 IOP Publishing
- 16 Gastroparesis and
- 17 Neuromodulation Publications
- 18 Poster Ready Table Dysmotilities Assn

B

C

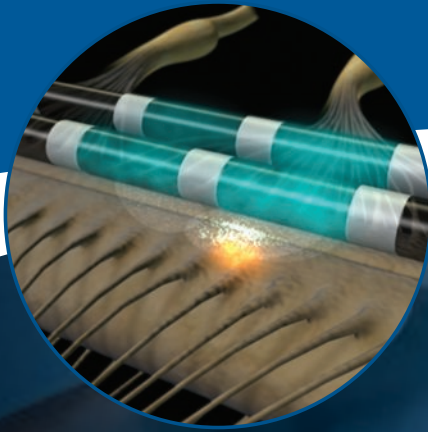


The Cyber  
Café

Poster Presentations AM and PM

Precision Plus™ with i-Sculpt™ Technology  
offers new, innovative benefits for you and your patients.

Boston  
Scientific



### Multiple Independent Current Control

The ONLY system that lets you precisely target pain by moving the electric field between simultaneously active contacts in 1% increments.

AND the ONLY system that automatically adjusts for impedance changes to maintain therapy when leads scar in.

**PLUS** Proprietary EGL Scan™ Technology that shows you the relative position of leads without fluoro, in seconds.

*Sculpt the Difference™*

PRECISION *Plus*™

Ask your Boston Scientific representative today about Precision Plus.

866.360.4747 Toll Free  
[www.ControlYourPain.com](http://www.ControlYourPain.com)

# Live Conference Schedule By Date and Time

## Saturday, December 8 - Sunday, December 9

**Saturday, December 8, 2007**  
**1800 - 2000**

**Mixteca / Maya Pool (K)**

Welcome Cocktail Party

**Sunday, December 9, 2007**  
**0645 - 0800**

Breakfast in Plaza Las Fuentes

**0700 - 0800**

**Princesa Ballroom B-C (I3)**

**Oral Presentations**

0700 - 0707

1. Therapeutic effect of deep brain stimulation of the nucleus accumbens on refractory drug addiction: a case report Jiwen Xu, MD, PhD

0710 - 0717

2. Deep brain stimulation in intractable epilepsy Jung Kyo Lee, MD

0720 - 0727

3. Deep brain stimulation for pain: a 50 case experience Erlick AC Pereira, MA, BM, BCh.

0730 - 0737

4. Automatic classification of microelectrode recording signals (MER) in deep brain stimulation of the subthalamic nucleus (STN) Frank Hertel

0740 - 0747

5. Mechanisms of Deep Brain Stimulation in Parkinson's Disease Konstantin V. Baev, MD, PhD

0750 - 0757

6. Deep brain stimulation and external cardiac defibrillation in an animal model: Evidence for tissue damage? Wilhelm Eisner, Prof., M.D.

**0800 - 1200**

**Princesa Ballroom B-C (I3)**

Plenary Session

**Plenary Session: Brain Day**

Session Chair: Ali Rezai, MD

0800 - 0840

KEYNOTE ADDRESS

Neuromodulation: The Inter-relationship Between Science and Industry, Alan Levy, PhD (Non-CME)

0840 - 920

MRI Safety for Implantable Neuromodulation Devices, Frank Shellock, PhD

0920 - 1000

Surgery for Obsessive-Compulsive Disorder, Bart Nuttin, MD, PhD (Non-CME)





# Live Conference Schedule By Date and Time

## Sunday, December 9

(cont.)

**1300 - 1415**  
**Princesa Ballroom (13)**  
**CME Luncheon Symposium**  
**Intrathecal Therapy:**  
**Evolving Options and Ideas**  
**Educational Grant supplied**  
**by Elan**

**1415 – 1715**  
**Afternoon Break-Out**  
**Sessions**

**1415-1715**  
**Atlantes Center (I)**  
**Advances, Physics and**  
**Outcome Improvements**  
**in SCS**  
**Boston Scientific**  
**Symposium (Non-CME)**

**1415 - 1600**  
**Marquesa Ballroom (16)**  
**Deep Brain Stimulation**  
Session Chair:Ali Rezai, MD

1000 - 1030\*\*

Coffee Break – Plaza Las Fuentes

1030 - 1110

Surgery for Depression, Ali Rezai, MD

1110 - 1200

Deep Brain Stimulation of Pedunculopontine Nucleus in Parkinson's Disease,  
Paolo Mazzone, MD, PhD

Opening Comments and Objectives, Timothy R. Deer, MD

Update on the 2007 Polyanalgesic Consensus Conference Treatment Algorithm,  
Timothy R. Deer, MD Combination Intrathecal Therapy: Evaluating the  
Literature, Lynn R. Webster, MD

Update on Intrathecal Granulomas, Joshua P. Prager, MD, MS

Questions and Answers with Faculty

Advances in Spinal Cord Stimulation, Marshall Bedder, MD

Physics of Spinal Cord Stimulation , Dave Peterson, MS, Kerry Bradley, MS

Thomas Yearwood, MD, PhD

Improvement of Outcomes Using Multiple Independent Current Control, Brian  
Simpson, MA, MD, Richard Rauck, MD James Hagan, MS Patricia Skiba, RN

1415 - 1440

Patient-Specific Models of Deep Brain Stimulation” Cameron McIntyre, PhD

1440 - 1500

Cerebrospinal Stimulation Therapy for the Treatment of Vegetative State and  
Minimally Conscious State Takamitsu Yamamoto, MD, PhD

1500 - 1520

DBS for Tourette's Syndrome, Osvaldo Vilella Filho, MD, PhD

1520 – 1540

DBS for Hypertension?, Alexander Green, MD

1540 – 1600

Deep Brain Stimulation for Refractory Craniocervical Dystonia: One Year  
Follow-Up Result, Jin Woo Chang, MD, PhD

Continued after Coffee Break

# Live Conference Schedule By Date and Time

## Sunday, December 9

**1415 - 1600**

**Marquesa Ballroom (16)  
Intrathecal Polyanalgesia**

Session Chair:

Timothy Deer, MD

**1540 - 1547**

**Marquesa Ballroom (III-IV)  
Oral Presentations**

**1600 – 1630**

**Coffee Break**

**1630-1730**

**Afternoon Break-Outs  
Continued**

**1630 - 1715**

**Marquesa Ballroom (16)  
Deep Brain Stimulation**

Session Chair: Ali Rezai, MD,  
continued

**1630 - 1730**

**Marquesa Ballroom (III-IV)  
Oral Presentations**

1415 - 1440

Managing The Device:What do I do when a pump or catheter malfunctions? Robert Levy, MD, PhD

1440 - 1500

Managing The Infusion:Which drug do I use and when should I use it? Timothy Deer, MD

1500 - 1520

Managing the Future:What can I expect from the future of intrathecal therapy? Samer Narouze, MD, MS

1520 - 1540

Q&A and Session End

1540-1547

1.Variability of spasticity in patients on intrathecal baclofen (ITB) and the use of the Personal Therapy Manager (PTM) to treat this variability of spasticity Elmar Delhaas MD

1550-1557

2. Novel Approach to Intrathecal Opioid Therapy for Chronic Nonmalignant Pain, Joseph R. Holtman, MD, PhD

1630 – 1650

Neuromodulation for Anorexia Nervosa. Bomin Sun, MD

1650 – 1715

Q & A and Session End

1630-1637

1. Successful ability to steer spinal cord stimulation current using single percutaneous lead, placed with “midline anchoring” technique., Eugene Mironer, MD



# Live Conference Schedule By Date and Time

## Sunday, December 9

(cont.)

### 1630 - 1730 Princesa Ballroom B-C (13) Oral Presentations

1640-1647

2. Can we identify microcirculatory parameters predictive of the outcome of spinal cord stimulation (SCS) in patients affected with non-reconstructable chronic critical leg ischaemia (CLI)? Dott. Gianni Colini Baldeschi

1650-1657

3. Effects of sacral surface electrical stimulation to the uterine dysfunctions. Takahide Ogura, PhD

1700-1707

4. Expectation and Treatment of Psychiatric Comorbidity in Chronic Pain Patients ,With and Without Spinal Cord Stimulation Ciaramella Antonella

1710-1717

5. Neurogenic Mediated Intense Response of Psoriasis with Spinal Cord Stimulation Therapy Janene. Holladay, MD

1720-1727

6. Inhibition of Histamine-induced Bronchoconstriction in Guinea Pigs by Pulsed Electrical Vagus Nerve Stimulation Peter S. Staats, MD, MBA

1630-1637

1. SCS in three different pathologies. 20 years experience Enrique Reig MD, PhD

1640-1647

2. An Initial Evaluation of Subcutaneous Stimulation for the Treatment of Chronic Pain. David Abejón MD

1650-1657

3. Electrode placement and relationships of periurethral nerves of an implantable electrostimulator, Accessa™, in female human cadavers. Kenneth P. Roberts, Ph.D

1700-1707

4. An algorithm for peripheral neuromodulation in neuropathic pain Teodor Goroszeniuk, FCA RCSI, DA

1710-1717

5. Peripheral subcutaneous nerve stimulation Athanasios Koulousakis, MD

1720-1727

6. Mechanical properties of electrode tips for spinal cord stimulation of two different companies Staal MJ, Groningen



# Live Conference Schedule By Date and Time

## Sunday, December 9

**1715 - 1800**  
**Exhibit Hall - Princesa**  
**Ballroom A (13)**  
**Margaritas and Social Time**

**Registration Desk Hours –**  
**At Your Service**  
**Pyramid Lobby (1)**

Thursday, December 6 -  
1600 - 2000

Friday, December 7 – Tuesday December 11  
0630 - 1700

Wednesday, December 12  
0630 – 1200



E X P E C T M O R E

BRILLIANT IDEAS  
ARE EMERGING.





# Live Conference Schedule By Date and Time

## Monday, December 10

**0645 - 0800**

**Continental Breakfast in  
Plaza Las Fuentes**

**0700 – 0800**

**Princesa Foyer (13)  
Poster Presentations**

**0700 – 0800**

**Princesa Ballroom B-C (13)  
Oral Presentations**

**0800 – 1200**

**Princesa Ballroom B-C (13)  
Plenary Session**

See separate Poster Schedule

0700-0707

1. Dual Device Therapy (Spinal Stimulation and Intrathecal Drug Delivery) for Treatment of Multi-Focal Pain, Steven Rosen M.D.

0710-0717

2. A Randomized, Multidose, Double-blind Study to Evaluate the Analgesic Response and Safety of Ziconotide Intrathecal Bolus Injection in Patients With Severe Chronic Pain , Stuart M. Rosenblum, MD, PhD

0720-0727

3. A Spiral Electrode for Peripheral Nerve Stimulation, John D. Loeser, M.D. Chong Lee, M.D.

0730-0737

4. Motor Cortex Stimulation for Intractable Chronic Pain, Richard K. Osenbach, M.D.

0740-0747

5. Spinal Cord Stimulation with Interleaved Pulses: A Randomized, Controlled Trial, Richard North, MD

0750-0757

6. Cranial Peripheral Nerve Stimulation for Intractable Headache: Prospective Two Year Followup Results  
Robert M. Levy, MD PhD

**Plenary Session: Pain Day**

Session Chair: Joshua Prager, MD

0800 - 0840

Evidence Based Neuromodulation John Loeser, MD

0840 - 920

Cellular & Physiological Mechanisms of Stimulation Robert Foreman, PhD

0920 - 1000

Mechanisms of Action of Deep Brain Stimulation, Warren Grill, PhD



# Live Conference Schedule By Date and Time

## Monday, December 10

**1200 – 1300**  
**Princesa Foyer (13)**  
**Poster Presentations**

**1300 - 1415**  
**Princesa Ballroom B-C (13)**  
**ANS Luncheon Symposium**  
**Government Scrutiny of**  
**Drug and Device Marketing**  
**Practices:**

**1415 - 1715**  
**Afternoon Break-Out**  
**Sessions**

**1415-1715**  
**Atlantes Center (I), Spinal**  
**Cord Stimulation: Innovative**  
**Approaches and Provocative**  
**Debate (Non-CME)**  
**ANS Symposium**

**1415 - 1715**  
**Marquesa Ballroom I-II (16)**  
**Deep Brain and Motor Cortex**  
**Stimulation**  
Session Chair: Ali Rezai, MD

1000 - 1030\*\*  
Coffee Break – Plaza Las Fuentes

1015 – 1045  
NANS General Assembly

1045 - 1125  
Mechanisms of Headache, Peter Goadsby, MD, PhD

1125 - 1205  
Model Predictions and Their Empirical Validation: What have we learned from modeling spinal cord stimulation?, Jan Holsheimer, PhD

See separate Poster Schedule

What Physicians Need to Know to Keep Interactions with Manufacturers from Turning into Infractions, Jim Dechene, Esq.

SCS: Innovative Neurostimulation Techniques and Applications (Non-CME)  
Timothy Deer, MD  
Companies Manufacture Components, Implanters Create Stimulator System, Claudio Feler, MD  
Achieving a Transverse Tripole Array with a Single Lead, Eugene Mironer, MD  
The Hot Seat With Dr. Robert Levy, MD PhD

1415 - 1440  
Treatment of primary camptocormia (dystonic bent spine or bent neck) by electrical stimulation of the globus pallidus internus: report of 3 cases  
Damianos Sakas, MD

1440 - 1500  
Deep Brain Stimulation for Pain, Jaimie Henderson, MD

1500 - 1520  
Neurostimulation for Learning Enhancement Emad Eskandar, MD

1520 – 1540  
Motor Cortex Stimulation for Pain Jean-Paul Nguyen, MD

# Live Conference Schedule By Date and Time

## Monday, December 10

(cont.)

**1415 - 1600**

**Marquesa Ballroom III-IV (16)  
Neuromodulation For  
Eyesight & Hearing**

Session Chair: Paul Meadows, MD

**1520 - 1600**

**Marquesa Ballroom III-IV (16)  
Oral Presentations**

**1600 – 1630**

**Coffee Break**

**1630-1730**

**Afternoon Break-Outs  
Continued**

1540 – 1600

Deep Brain Stimulation in Neurostimulation in Epilepsy, Ashwini Sharan, MD / Francisco Velasco, MD

Continued after Coffee Break

1415 - 1440

Sensory prosthetics for hearing and vision – Past, present and future approaches, Robert Greenberg, MD, PhD

1440 - 1500

Advances in Processing Strategies for Cochlear Implants John Niparko, MD

1500 - 1520

Q & A and Session End

1520-1527

1. Ultrasound-guided placement of a permanent percutaneous femoral nerve stimulator leads for the treatment of intractable femoral neuropathy, Samer Narouze, MD, MS

1530-1537

2. A controlled comparative cadaveric investigation of percutaneous spinal cord lead anchoring, Jon Raphael MB, ChB

1540-1547

3. Endoscopic Epidurolisis as tool to show the different morphological characteristics of the Failed Back Surgery Syndrome, and to predict the response to Spinal Cord Stimulation, William Raffaelli, MD

1550-1557

4. Rechargeable Spinal Cord Stimulation (SCS) with Zero Volt™ Battery Technology: a Case Report, Richard B. North, M.D

# Live Conference Schedule By Date and Time

## Monday, December 10

**1630 - 1715**

**Marquesa Ballroom I-II (16)**  
**Deep Brain and Motor Cortex Stimulation, continued**

Session Chair: Ali Rezai, MD

**1630 - 1730**

**Marquesa Ballroom III-IV (16)**  
**Oral Presentations**

**1630 - 1730**

**Princesa Ballroom B-C (13)**  
**Oral Presentations**

1630 – 1650

DBS for Cluster Headache, Gianni Broggi, MD, PhD

1650 – 1715

Q & A and Session End

1630-1637

1. Methods to Minimize Neurostimulator Leadwire Heating During MRI Scans  
Prof. Robert Stevenson, PE

1640-1647

2. Comparison of intra-operatively mapping of sensory responses of a single channel surgical lead versus a dual channel surgical lead and evaluation of the implantation technique. Preliminary results of the Respec study.  
Vangeneugden J, MD

1650-1657

3. Differences between staggered and parallel percutaneous lead tripole arrays: preliminary findings from a prospective post-market study., Eduardo Garcia, MD

1700-1707

4. Awake versus non-Awake Surgery for placement of Spinal Cord Stimulators,  
Steven M. Falowski MD

1710-1717

5. Efficacy of the Lamitrode® Tripole™ 8 surgical lead: Preliminary findings from a prospective post-market study., Abdi Ghodsi, MD

1720-1727

6. Cognitive and Affective Effects of Neuromodulation on Quality of Life,  
Erich Richter, M.D.

1630-1637

1. Spinal Cord Stimulation indications and outcomes: A retrospective review.,  
Bradley W. Carpentier, MD

1640-1647

2. Spinal Cord Stimulation for Intractable Pelvic Pain. Case Report.,  
Dr. Declan O'Keefe

1650-1657

3. Peripheral Nerve Field Stimulation: A novel treatment in chronic low back pain and failed back surgery syndrome., Dr Paul Verrills (M.D)



# Live Conference Schedule By Date and Time

## Monday, December 10

(cont.)

1700-1707

4. Method of Uni-acupoint Electrical Stimulation and Application in Pain Control, Hongwei Hao, PhD

1710-1717

5. Identification of the Location of the Dorsal Genital Nerves with Subsequent Electrical Stimulation for Treatment of Overactive Bladder Symptoms in Women, Howard B. Goldman MD

1720-1727

6. Automated vs. Manual Spinal Cord Stimulator Adjustment: A Sensitivity Analysis of Lifetime Cost Data from a Randomized, Controlled Trial, Alexander A. Khalessi

**1715 - 1800**

**Exhibit Hall - Princesa**

**Ballroom A (13)**

**Margaritas and Social Time**

### NEUROSTIMULATION SYSTEMS FOR PAIN THERAPY

Brief Summary: Product Technical Manuals and Programming Guides must be reviewed prior to use for detailed disclosure.

**Indication for Use** - Chronic, intractable pain of the trunk and/or limbs-including unilateral or bilateral pain. Contraindications: Diathermy. Warnings: Defibrillation, diathermy, electrocautery, MRI, RF ablation, & therapeutic ultrasound can result in unexpected changes in stimulation, serious patient injury or death. Rupture/piercing of neurostimulator can result in severe burns. Electrical pulses from the neurostimulator may result in an inappropriate response of the cardiac device. Precautions: The safety and effectiveness of this therapy has not been established for: pediatric use, pregnancy, unborn fetus, or delivery. Follow programming guidelines & precautions in product manuals. Avoid activities that stress the implanted neurostimulation system. EMI, postural changes, & other activities may cause shocking/jolting. Adverse Events: Undesirable change in stimulation; hematoma, epidural hemorrhage, paralysis, seroma, CSF leakage, infection, erosion, allergic response, hardware malfunction or migration, pain at implant site, loss of pain relief, chest wall stimulation, & surgical risks.

For full prescribing information, please call Medtronic at 1-800-328-0810 and/or consult Medtronic's website at [www.medtronic.com](http://www.medtronic.com). Rx Only. August, 2006.





# TARGETSTIM™

Pain relief that's right on target

The **ADVANCED** line of neurostimulators empowers physicians to:

- Quickly steer stimulation along or between leads to help find the optimal target and settings.
- Automate multiple steps to simplify programming.

**TARGETSTIM™** is just one of many helpful tools offered exclusively by Medtronic for the treatment of chronic pain.



*Medtronic pioneered the field of chronic pain relief over 30 years ago—even today, Medtronic provides the most advanced pain relief devices on the market.*

NEUROMODULATION

# Live Conference Schedule By Date and Time

## Tuesday, December 11

**0645 - 0800**

**Continental Breakfast in  
Plaza Las Fuentes**

**0700 – 0800**

**Princesa Foyer (I3)  
Poster Presentations**

**0700 – 0800**

**Princesa Ballroom B-C (I3)  
Oral Presentations**

See separate Poster Schedule

0700-0707

1. Neuromodulation in dysphgia induced by surface electrical stimulation to suprahyoid muscles area, Kosei Mitsuhashi, Ph.D .

0710-0717

2. Improvement of swallowing movement after electrical stimulation to lower leg acupoints in poststroke patients, Chizuru Akamatsu, MA

0720-0727

3. The Chemical Stabilities of Admixtures Containing Ziconotide and Fentanyl or Ziconotide and Sufentanil During Simulated Intrathecal Administration  
David E. Shields, PhD

0730-0737

4. Neuromodulation of the epileptic focus for intractable seizures originating in non lesional eloquent areas, Ana L Velasco, MD, PhD

0740-0747

5. Vagus Nerve Stimulation for the Treatment of Intractable Epilepsy  
Guoming Luan, MD

**0800 – 1200**

**Princesa Ballroom B-C (I3)  
Plenary Session**

**Plenary Session: FES Day**

Session Chair: Paul Meadows, PhD

0800 - 0840

Upper Limb Post-stroke Rehabilitation: Implantation of 5-7 Microstimulators and Effects, Ross Davis, MD

0840 - 920

Fully Implanted Nerve Sensing and Stimulation System for Treatment of Paralysis After Hemiplegia or Related Neurological Disorders, Andy Hoffer PhD

0920 - 1000

Motor Cortex Stimulation for Stroke Rehabilitation: Update on the Everest Study, Robert Levy, MD, PhD

1000 - 1030

Coffee Break – Plaza Las Fuentes



# Live Conference Schedule By Date and Time

## Tuesday, December 11

(cont.)

**1200 – 1300**  
**Princesa Foyer (13)**  
**Poster Presentations**

**1300 - 1730**  
**Afternoon Break-Out**  
**Sessions**

**1415 - 1715**  
**Atlantes Center (I)**  
**PROCESS Studies in Spinal**  
**Cord and Neuro Stimulation**  
**Medtronic Symposium**  
**(Non-CME)**

**1415 - 1715**  
**Marquesa Ballroom I-II (16)**  
**SCS for Visceral Pain**  
Session Chair: Elliot Krames, MD

1030 - 1110

Functional Electrical Stimulation Therapy: Retraining Reaching and Grasping Functions in Severe Stroke Patients, Milos Popovic, PhD

1110 - 1200

Transcranial Magnetic Stimulation: A Non-invasive Method of Brain Stimulation  
Felipe Fregni, MD, PhD

See separate Poster Schedule

2007 Update: Neurostimulation for the Treatment of Neuropathic Back and Leg Pain in Patients with FBSS.  
PROCESS Study: Spinal Cord Stimulation Improves Outcomes in FBSS Patients  
Richard B North, MD, Line Jacques, MD  
PROCESS Study: Cost-Effectiveness Analysis of Neurostimulation in the Management of Intractable Pain, Rod Taylor MSc PhD  
Neuropathic Pain: When and how do we diagnose? Panel Discussion with Joshua Prager, MD, MS, Rod Taylor MSc PhD, Richard B North, MD and Line Jacques, MD  
Future Directions in Neurostimulation (Technology update), David Caraway, MD, PhD

1415 - 1440

Nociception of the Heart, Robert Foreman, PhD

1440 - 1500

Mechanisms of Electrical Neuromodulation in the Treatment of Chronic Refractory Angina Pectoris, Michael DeJongste, MD, PhD

1500 - 1520

SCS for Visceral Pain: The Scientific Evidence, Elliot Krames, MD

1520 – 1540

SCS for Visceral Pain/Review of the Literature, Leo Kapural, MD, PhD

1540 – 1600

Pelvic Neuromodulation on Voiding Dysfunction: What We Have Learned in 20 Years, Magdy Hassouna, MD, PhD

Continued after Coffee Break



# Live Conference Schedule By Date and Time

## Tuesday, December 11

**1415 - 1600**

**Marquesa Ballroom III-IV (16)  
Braingate / Positive Feedback**

Session Chair: Gerhard Freih, MD

1415 - 1440

Development of Neural Interface Systems: Signals for Control and Diagnosis, John Donoghue, PhD

1440 - 1500

Early pilot clinical trial experience with an intracortically-based neural interface system for people with paralysis, Leigh Hochberg, MD, PhD

1500 - 1520

Decoding plan activity from neuronal ensembles in human and non-human primates, Jaimie Henderson, MD

1520 - 1540

Microelectrode Recordings of Human Cortical Activity in Epilepsy, Sydney Cash, MD, PhD

1540 - 1600

Q & A and Session End

**1415 - 1600**

**Princesa Ballroom B-C (13)  
Oral Presentations**

1400-1407

1. Efficacy of Extradural Motor Cortex Stimulation in Advanced Idiopathic Parkinson's Disease: The Experience of the Functional Neurosurgery Study Group of the Italian Neurosurgical Society, Lavano Angelo MD

1410-1417

2. Electrical Stimulation of Hippocampus (ESH) in Patients with Intractable Temporal Lobe Epilepsy: A Long Term Follow Up Study, Guillermo Castro Farfan

1420-1427

3. Accuracy of stereotactic electrode placement in deep brain stimulation, Wilhelm Eisner, PhD

1430-1437

4. Pulsed Radiofrequency of the Stellate Ganglion for the Treatment of Hemiparesis: A Case Report, Gennady Gekht, MD

1440-1447

5. Parkinsonian movements in model and experiment, T. Heida (PhD, MSc.)

1450-1457

6. Vim plus posterior subthalamic area DBS concurrently with Voa-Vop thalamotomy for Essential Tremor, Hyun Ho Jung, M.D.

1500-1507

7. Feasibility Study of an Implantable Cortical Stimulation System for Major Depression, Brian Harris Kopell, MD



# Live Conference Schedule By Date and Time

## Tuesday, December 11

(cont.)

**1600 – 1630**  
**Coffee Break**

**1630-1800**  
**Afternoon Break-Outs**  
**Continued**

**1630 - 1715**  
**Marquesa Ballroom I-II (16)**  
**SCS for Visceral Pain,**  
**Continued**

Session Chair:  
Elliot Krames, MD

**1630 - 1800**  
**Marquesa Ballroom I**  
**II-IV (16)**  
**Oral Presentations**

1510-1517

8. Improvement of the upper limb movements of Parkinsonian patients after bilateral subthalamic DBS, Michel Prud'homme, MD, PhD

1520-1527

9. Feasibility Study of an Implantable Cortical Stimulation System for Tinnitus, Brian Harris Kopell, MD

1530-1537

10. Reducing Mental Fatigue by Transcutaneous Electrical Acupoint Stimulation, Luming Li

1540-1547

11. Computer modeling of Motor Cortex Stimulation: Effects of Anodal, Cathodal and Bipolar Stimulation, Dr. ir. Jan R. Buitenweg, PhD

1500-1557

12. Neuromodulation on Inferior Thalamic Peduncle in Five Patients with Obsessive Compulsive Disorder Treated with Neuromodulation, Fiacro Jiménez-Ponce, M.D., Ph.D.

1630 – 1650

Electrical Stimulation for Gastrointestinal Disorders, Jiande Chen, PhD

1650 – 1715

Q & A and Session End

1630-1637

1. Safety and effectiveness of C-Series leads in combination with the Genesis®XP Implantable Pulse Generator for the management of chronic pain of the trunk and/or limbs., F. Richard Jordan, MD



# Live Conference Schedule By Date and Time

## Tuesday, December 11

(cont.)

1640-1647

2. Successful Treatment of Chronic Axial Low Back Pain and Bilateral Radicular Leg Pain in Two Cases of Failed Back Syndrome (FBSS) and Lumbar Spondilosis with a New Technique of Spinal Cord Stimulation (SCS) :The “Electical Fractionalization”, C. Reverberi MD

1650-1657

3. Percutaneous tripole array programming and stimulation coverage in a patient with failed back surgery syndrome implanted with an Eon® Rechargeable IPG and three percutaneous leads: a case-study. TBA

4. 1700-1707

Cost Minimisation in Spinal Cord Stimulation, Dr Paul Murphy, MD

1710-1717

5. Cost-Utility and Cost-Effectiveness of SCS in Patients with FBSS Compared to Conventional Medical Management: the PRECISE STUDY , Furio Zucco, MD

1720-1727

6. Stimulation coverage of transverse tripole programming using the Lamitrode® Tripole™ 16 surgical lead: Preliminary evaluation of a prospective, multi-centered, post-market study., Stewart Smith, MD

1730-1737

7. Percutaneous lead tripolar arrays in the management of chronic intractable back pain: preliminary findings from one clinic in a prospective post-market study. , Jason Rosenberg, MD

1740-1747

8. Spinal cord stimulation versus conventional medical management: Quality of life, resource use and costs from a multicentre randomised controlled trial of patients with failed back surgery syndrome: (PROCESS study)., Krishna Kumar, MD

1750-1757

9. Spinal cord stimulation versus conventional medical management: Long-term results from a multicentre randomised controlled trial of patients with failed back surgery syndrome: (PROCESS study)., Line Jacques, MD

**1630 - 1800**

**Princesa Ballroom B-C (13)**  
**Oral Presentations**

1630-1637

13. Effects of changes in patients posture on energy requirement for SCS, David Abejón MD

1640-1647

14. Initial Evaluation of Triple-Array Leads for Spinal Cord Stimulation, Garrett Powell, Jr., MD



# Live Conference Schedule By Date and Time

## Tuesday, December 11

(cont.)

1650-1657

15. Feasibility of Absolute Migration Detection Using Electrical Measures in Spinal Cord Stimulation (SCS) Leads, Kerry Bradley, MD

1700-1707

16. Prospective, multi-centered study to evaluate the safety and effectiveness of Genesis® Implantable Pulse Generator in combination with percutaneous leads for the management of chronic pain of the trunk and/or limbs., Konstantin Slavin, MD

1710-1717

17. Differential effects of spinal cord stimulation are achieved with three lead patterns, Gary King

1720-1727

18. Dorsal Column Selectivity in Pulse Width (PW) Programming of Spinal Cord Stimulation (SCS): Computation model for the “Sacral Shift” (A Mathematical Application), Dongchul C. Lee, Ph.D.

1730-1737

19. Dorsal Column Selectivity in Pulse Width (PW) Programming of Spinal Cord Stimulators (SCS): the “Sacral Shift”, Thomas Yearwood MD PhD

1740-1747

20. Hybrid Spinal Cord Stimulator Experience: First 25 Patients Using Leads from One Manufacturer with IPG from Another , James E. Hagen, MSc

1750-1757

21. Management of Interstitial Cystitis Related Pain Using Antegrade SCS Lead, Mohamed Elkersh, M.D.

**1715 - 1800**

**Exhibit Hall - Princesa**

**Ballroom A (13)**

**Margaritas and Social Time**

# Live Conference Schedule By Date and Time

## Wednesday, December 12

**0645 - 0800**

**Continental Breakfast in Plaza Las Fuentes**

**0700 – 0740**

**Princesa Ballroom B-C (13)  
Oral Presentations**

0700-0707

1. Effect of spinal cord stimulation assessed by positron emission tomography in patients with refractory angina pectoris , Siegfried Eckert

0710-0717

2. Spinal cord stimulation in refractory angina pectoris treatment, Giampaolo Pinato

0720-0727

3. Systematic Review of the Role of Neurostimulation in Alleviating Chest Pain in Refractory Angina, Hany Nosir, M.D.

0730-0737

4. Spinal Cord Stimulation Reduces the Occurrence of Ventricular Fibrillation in the Ischemic Canine Heart, Mike JL DeJongste, MD

**0800 – 1030**

**Princesa Ballroom B-C (13)  
Plenary Session**

Session chair: Magdy Hassouna, MD

**Plenary Session: Stimulation of Organs Day**

0800 - 0840

Urological Disorders and Neuromodulation, Magdy Hassouna, MD, PhD

0840 - 920

Review of Neuromodulation for Cardiac Disorder, Marc Penn, MD, PhD (Non-CME)

0920 - 1000

Gastric Electrical Stimulation for Visceral Pain, Jiande Chen, PhD

1000 - 1030

Coffee Break – Plaza Las Fuentes

**1030 - 1200**

**Princesa Ballroom B-C (13)  
INS General Assembly**

**1200**

**Conference Adjourned**



# Poster Schedule

## Monday, December 10

**0700 – 0800**

**Princesa Foyer (13)**

1	Feasibility Study of an Implantable Cortical Stimulation System for Patients with Major Depression	Brian Kopell
2	Therapeutic effect of deep brain stimulation of the nucleus accumbens on refractory drug addiction: a case report	Jiwen Xu
3	Accuracy of stereotactic electrode placement in deep brain stimulation	Wilhelm Eisner
4	Where are activated electrode contacts located anatomically in parkinson disease: In the target structure or superior or inferior?	Wilhelm Eisner
5	Automatic classification of microelectrode recording signals (MER) in deep brain stimulation of the subthalamic nucleus (STN)	Frank Hertel
6	Electrical Stimulation of the Hippocampus (ESH) in Patients with Intractable Temporal Lobe Epilepsy: A Long-Term Follow-up Study	Guillermo Farfan
7	Deep brain stimulation in intractable epilepsy	Jung Kyo Lee
8	Neuromodulation on Inferior Thalamic Peduncle in Five Patients with Obsessive Compulsive Disorder Treated with Neuromodulation	Fiacro Jimenez-Ponce
9	Subcutaneous stimulation in cluster headache	Genni Duse
10	Deep brain stimulation for pain: a 50 case experience	Erlick Pereira
11	Primary motor cortex stimulation for intractable neuropathic pain	Youichi Saitoh
12	Unilateral pallidotomy vs unilateral electrical stimulation of GPI in bilateral symptoms of Parkinson's Disease	Julian Abraham
13	Efficacy of extradural motor cortex stimulation in advanced idiopathic Parkinson's Disease: The experience of the functional neurosurgery study group of the Italian Neurosurgical Society	Lavano Angelo
14	Mechanisms of deep brain stimulation in Parkinson's disease	Konstantin Baev
15	Parkinsonian movements in model and experiment	Ciska Heida
16	Improvement of the upper limb movements of Parkinsonian patients after bilateral subthalamic DBS	Michel Prud'homme

# Poster Schedule

## Monday, December 10

(cont.)

17	Vim plus posterior subthalamic area DBS concurrently with Voa-Vop thalamotomy for Essential Tremor	Hyun Ho Jung
18	Neurophysiological Characterization of the subthalamic posterior area	Guillermo Farfan
19	EEG ATR May Predict Clinical Response to Cortical Stimulation Therapy: Initial Findings from the PROSPECT Study	Scott Greenwald
20	Treatment of primary camptocormia (dystonic bent spine or bent neck) by electrical stimulation of the globus pallidus internus: report of 3 cases	Damianos Sakas
21	Double-blind, randomized and controlled study of motor cortex electrical stimulation in patients with neuropathic pain intractable to drugs	José Carillo-Ruiz
22	Correlation study between motor outcome and stimulation parameters of globus pallidus in patients with Parkinson's disease (Review study)	Pablo Andrade
23	Computer modeling of Motor Cortex Stimulation: Effects of Anodal, Cathodal and Bipolar Stimulation	Jan Buitenweg
24	A prospective, multi-centered, 1 year post-implantation clinical evaluation of the Genesis® Implantable Pulse Generator (IPG) in combination with paddle or percutaneous leads for the management of chronic pain of the trunk and limbs	Roni Diaz
25	Thalamic pain and spinal cord stimulation. Long term results of five cases	Jose Antonio Lopez-Lopez
26	Neurogenic Mediated Intense Response of Psoriasis with Spinal Cord Stimulation Therapy	Janene Holladay
27	Reducing Mental Fatigue by Transcutaneous Electrical Acupoint Stimulation	Luming Li
28	Vagus Nerve Stimulation for the Treatment of Intractable Epilepsy	Guoming Luan
29	Neuromodulation of the epileptic focus for intractable seizures originating in non lesional eloquent areas	Ana Velasco
30	Inhibition of Histamine-induced Bronchoconstriction in Guinea Pigs by Pulsed Electrical Vagus Nerve Stimulation	Peter Staats



# Poster Schedule

## Monday, December 10

**1200 - 1300**

**Princesa Foyer (13)**

1	Deep brain stimulation and external cardiac defibrillation in an animal model: Evidence for tissue damage?	Wilhelm Eisner
2	Automatic AC/PC Detection and Target Determination in Deep Brain Stimulation	Frank Hertel
3	Feasibility Study of an Implantable Cortical Stimulation System for Patients with Tinnitus	Brian Kopell
4	Efficacy of Ziconotide in Combination With Intrathecal Opioids	David Caraway
5	A Retrospective Study of Microgram Intrathecal Morphine Sulfate for Control of Pain in Failed Back Surgical Syndrome with a Prior Failed Spinal Cord Stimulator Trial or Spinal Cord Stimulator Implant	Michael Castillo
6	Benefit of intrathecal drug administration for patients with severe chronic pain	Horst Glawe
7	Novel Approach to Intrathecal Opioid Therapy for Chronic Nonmalignant Pain	Joseph Holtman
8	Intrathecal pain management with patient-controlled analgesia: 12-month study with the personal therapy manager	Wilfried Ilias
9	Intrathecal Ziconotide for Complex Regional Pain Syndrome: Six Case Reports	Leonardo Kapural
10	Safety and efficacy of non commercially preparations of bupivacaine 4% and clonidine 0,4 % intrathecally used for refractory pain	Jose Antonio Lopez-Lopez
11	Biological consequences of long-term intrathecal administration of opioids: Comparison of Nociceptin and immune hormones Levels in the Cerebrospinal Fluid of Chronic Pain Patients With or Without Intrathecal Administration of Morphine	William Raffaelli
12	A Randomized, Multidose, Double-blind Study to Evaluate the Analgesic Response and Safety of Ziconotide Intrathecal Bolus Injection in Patients With Severe Chronic Pain	Stuart Rosenblum
13	Intrathecal Combination Therapy of Ziconotide and Baclofen: Case Series	Michael Saulino

# Poster Schedule

## Monday, December 10

(cont.)

14	Our experience with complications of intrathecal baclofen drug delivery systems	Ivana Stetkarova
15	Clinical Experience Using Intrathecal Bupivacaine in Refractory Neuropathic Pain	Sherri Tracey
16	Safety and Tolerability of Ziconotide (Prialt®) in Polyanalgesic Intrathecal (IT) Therapy	Lynn Webster
17	Variability of spasticity in patients on intrathecal baclofen (ITB) and the use of the Personal Therapy Manager (PTM) to treat this variability of spasticity	Elmar Delhaas
18	The Chemical Stabilities of Admixtures Containing Ziconotide, Fentanyl and Sufentanil or During Simulated Intrathecal Administration	David Shields
19	Evaluation of the Safety and Efficacy of PRIALT (ziconotide) Combination Intrathecal Therapies: Retrospective Case Studies	Eastman Michael
20	Motor Cortex Stimulation for Intractable Chronic Pain	Richard Osenbach
21	Peripheral Nerve Field Stimulation (PNFS) for Treatment of Failed Back Syndrome (FBS)	Alexander Yakovlev
22	Ultrasound-guided placement of a permanent percutaneous femoral nerve stimulator leads for the treatment of intractable femoral neuropathy	Samer Narouze
23	Peripheral Nerve Field Stimulation: Is age an indicator of outcome?	Paul Verrills
24	Electrode placement and relationships of periurethral nerves of an implantable electrostimulator, Accessa™, in female human cadavers	Kenneth Roberts
25	Peripheral subcutaneous nerve stimulation	Athanasios Koulousakis
26	Cranial Peripheral Nerve Stimulation for Intractable Headache: Prospective Two-Year Follow-up Results	Robert Levy
27	A Spiral Electrode for Peripheral Nerve Stimulation	John Loeser
28	Therapeutic trial of peripheral neuromodulation using inexpensive monoelectrode temporary stimulating catheters	Teodor Goroszeniuk

# Poster Schedule

## Monday, December 10

**1200 - 1300**

**Princesa Foyer (13)**

29	Pulsed Radiofrequency As a Type of Neuromodulation Treatment	Jung Yul Park
30	Mechanical properties of electrode tips for spinal cord stimulation of two different companies	Michiel J Staal
31	Effects of sacral surface electrical stimulation to the uterine dysfunctions	Takahide Ogura
32	Neurotechnological Developments	Metin Tulgar
33	SENS in the Management of Chronic / Neuropathic Pain	Declan O'Keefe
34	SCS in three different pathologies. 20 years experience	Enrique Reig
35	Can we identify microcirculatory parameters predictive of the outcome of spinal cord stimulation (SCS) in patients affected with non-reconstructable chronic critical leg ischaemia (CLI)?	Gianni Colini Baldeschi
36	The historic origins of neuromodulation in antiquity	Ioannis Panourias
37	Chronic lowback and leg pain treatment using modern SCS technology: a Spanish case series	David Abejon
38	Retrospective analysis of SCS and Failed back surgery patients	Eduardo Barreto
39	The failed neck syndrome: a case series	Alessandro Dario
40	Alternative revision spinal cord stimulation (SCS) implants: Comparisons of pain relief, paresthesia coverage, and patient preferences	Allison Foster
41	A controlled comparative cadaveric investigation of percutaneous spinal cord lead anchoring	Jon Raphael
42	24 Years Spinal Cord Stimulation Experience in the Treatment of Failed Back Surgery Syndrome from 1984 to 2007. Data Analysis in 1984-1997 versus 1998-2007 Periods	Massimo Mearini
43	Spinal Cord Stimulation with Interleaved Pulses: A Randomized, Controlled Trial	Richard North
44	Quality of life evaluation of pain patient with neurostimulator	Michel Prud'homme

# Poster Schedule

## Monday, December 10

(cont.)

45	Our experience with neurostimulation analgetic systems	Ivan Vrba
46	Expectation and Treatment of Psychiatric Comorbidity in Chronic Pain with and Without Spinal Cord Stimulation	Antonella Ciaramella
47	Dual Device Therapy (Spinal Stimulation and Intrathecal Drug Delivery) for Treatment of Multi-Focal Pain	Steven Rosen
48	Outcome of vagus nerve stimulation for intractable epilepsy: Comparison of children and adult	Jung Kyo Lee
49	Experimental Study on Therapeutic Effects of Vagus Nerve Stimulation(VNS) for Epilepsy	Guoming Luan
50	Role of Neuromodulation for seizure control in infancy catastrophic epilepsy (Lennox-Gastaut Syndrome)	Ana Velasco
51	A COMPARISON OF LEAD CONFIGURATIONS USED TO PROVIDE EFFECTIVE LOW BACK AND LOWER EXTREMITY COVERAGE	Eugene Mironer
52	Management of Interstitial Cystitis Related Pain Using Antegrade SCS Lead	Mohamed Elkersh

# Poster Schedule

## Tuesday, December 11

**0700 - 0800**

**Princesa Foyer (13)**

1	Pulsed Radiofrequency of the Stellate Ganglion for the Treatment of Hemicarania Continua:A Case Report	Gennady Gekht
2	A combination of deep brain stimulation (GPI) and stimulation of the occipital nerve in a patient with oromandibular dystonia and dystonic neck pain	Frank Hertel
3	Infections in DBS Patients	Wilhelm Eisner
4	Long-term intrathecal morphine in patients with chronic non-cancer pain up-regulates mu opioid receptor gene expression in lymphocytes	William Raffaelli
5	Safety and efficacy of combined intrathecal baclofen-morphine therapy over a 10 year clinical experience	Michael Saulino
6	Tolerance of intrathecal baclofen therapy in 37 patients with spasticity	MJ Staal
7	An algorithm for peripheral neuromodulation in neuropathic pain	Teodor Goroszeniuk
8	Cognitive and Affective Effects of Neuromodulation on Quality of Life	Erich Richter
9	Eon® battery recharging: Preliminary findings of three prospective, multi-centered, post-market studies	Jason Rosenberg
10	SACRAL NERVE STIMULATION IN FECAL INCONTINENCE DUE TO ANAL SPHINCTER LESIONS	Carlo Ratto
11	Evaluation of the Heat Generation Rates in the Implant and the Antenna of a Neuromodulation System	Ephraim Sparrow
12	METHODS TO MINIMIZE NEUROSTIMULATOR LEADWIRE HEATING DURING MRI SCANS	Robert Stevenson
13	Comparison of intra-operatively mapping of sensory responses of a single channel surgical lead versus a dual channel surgical lead and evaluation of the implantation technique. Preliminary results of the Respective study	J.Vangeneugden
14	Spinal Cord Stimulation indications and outcomes: A retrospective review	Bradley Carpentier
15	Spinal Cord Stimulation (SCS) for the treatment of phantom limb pain (PLP): a case report	Vinay Dalal
16	Novel placement and location of neurostimulation leads for treatment of intractable trigeminal neuralgia	Timothy Deer

# Poster Schedule

## Tuesday, December 11

(cont.)

17	Neuropathic Pain from Lyme Disease: Novel Treatment with Spinal Cord Stimulation	James Hagen
18	Method of Uni-acupoint Electrical Stimulation & Application in Pain Control	Hongwei Hao
19	Safety and effectiveness of C-Series leads in combination with the Genesis®XP Implantable Pulse Generator for the management of chronic pain of the trunk and/or limbs	Richard Jordan
20	Spinal Cord Stimulation for Intractable Pelvic Pain. Case Report	Declan O'Keefe
21	Successful ability to steer spinal cord stimulation current using single percutaneous lead, placed with "midline anchoring" technique"	Eugene Mironer
22	Efficacy of a single, percutaneous, across midline, Octrode® lead using a "midline anchoring" technique in the treatment of chronic low back and/or lower extremity pain: a retrospective study	Eugene Mironer
23	Rechargeable Spinal Cord Stimulation (SCS) with Zero Volt Battery Technology: a Case Report	Richard North
24	Burden of Low Back and Leg Pain among Candidates for Spinal Cord Stimulation:A Managed Care Study	Sharashchandra Shetty
25	Peripheral Nerve Field Stimulation:A novel treatment in chronic low back pain and failed back surgery syndrome	Paul Verrills
26	Effects of changes in patients posture on energy requirement for SCS	David Abejon
27	Cost-Utility and Cost-Effectiveness of SCS in Patients with FBSS Compared to Conventional Medical Management: the PRECISE STUDY	Furio Zucco
28	Patient Preferences for Constant Current and Constant Voltage Stimulation	William Hautt
29	SPINAL CORD STIMULATION WITH RADIOFREQUENCY NEUROSTIMULATORS:ADVANTAGES AND DISADVANTAGES OF THIS TECHNIQUE	Alessandro Dario
30	Patient-Reported Differences in Constant Current and Constant Voltage Stimulation	Don Donnelly
31	A novel approach to tracking percutaneous spinal cord lead migration in patients over time without the need for serial x-ray	Bradley Carpentier

# Poster Schedule

## Tuesday, December 11

**1200 – 1300**

**Princesa Foyer (13)**

1	Neuromodulation in dysphagia induced by surface electrical stimulation to suprahyoid muscles area	Kosei Mitsuhashi
2	Improvement of swallowing movement after electrical stimulation to lower leg acupoints in poststroke patient	Chizuru Akamatsu
3	Integrated 16 channel NeuroStimulator and Recording Device	James Morizio
4	Intrathecal Hydromorphone for Patient with Chronic Intractable Angina: Case Report	Michael Castillo
5	Effect of spinal cord stimulation assessed by positron emission tomography in patients with refractory angina pectoris	Siegfried Eckert
6	Spinal Cord Stimulation for Refractory Angina Pectoris: Less Pain and Lots to Gain	Ingrid Fedoroff
7	The Systematic review of the role of neurostimulation in alleviating chest pain in refractory angina	Hany Nosir
8	Spinal cord stimulation in angina pectoris	Giampaolo Pinato
9	Increased Myocardial Blood Flow after Spinal Cord Stimulation in Patients with Refractory Angina Pectoris	Athanasios Koulousakis
10	Sacral nerve stimulation in the treatment of urinary and bowel continence dysfunction and pelvic pain syndromes	Frank Hertel
11	Sacral nerve stimulation in fecal incontinence: Results 5 years after implant	Carlo Ratto
12	Identification of the Location of the Dorsal Genital Nerves with Subsequent Electrical Stimulation for Treatment of Overactive Bladder Symptoms in Women	Howard Goldman
13	Feasibility of Absolute Migration Detection Using Electrical Measures in Spinal Cord Stimulation (SCS) Leads	Kerry Bradley
14	Awake versus non-Awake Surgery for placement of Spinal Cord Stimulators	Steven Falowski
15	Differences between staggered and parallel percutaneous lead tripole arrays: preliminary findings from a prospective post-market study	Eduardo Garcia

# Poster Schedule

## Tuesday, December 11

(cont.)

16	Efficacy of the Lamitrode® Tripole™ 8 surgical lead: Preliminary findings from a prospective post-market study	Abdi Ghodsi
17	Differential effects of spinal cord stimulation are achieved with three lead patterns	Gabi Miyazawa
18	An Initial Evaluation of Subcutaneous Stimulation for the Treatment of Chronic Pain	David Abejon
19	Percutaneous tripole array programming and stimulation coverage in a patient with failed back surgery syndrome implanted with an Eon® Rechargeable IPG and three percutaneous leads: a case-study	TBA
20	Medtronic Restore® for implantable pulse generator (IPG) replacement: A theoretical economic evaluation	Alessandro Dario
21	Hybrid Spinal Cord Stimulator Experience: First 25 Patients Using Leads from One Manufacturer with IPG from Another	James Hagen
22	Dynamic Multistim™ programming and stimulation coverage in a patient with failed back surgery syndrome implanted with an Eon® Rechargeable IPG and a single Octrode® lead: a case-study	Peter Hegi
23	Spinal cord stimulation versus conventional medical management: Long-term results from a multicentre randomised controlled trial of patients with failed back surgery syndrome: (PROCESS study)	Line Jacques
24	Prospective, multi-centered study to evaluate the safety and effectiveness of Genesis®XP Implantable Pulse Generator in combination with paddle leads for the management of chronic pain of the trunk and/or limbs	Richard Jordan
25	Our Experiences in the Pain Therapy in the period of 14 years, (June 1993 - June 2007)	Malgorzata Kolodziej
26	Spinal cord stimulation versus conventional medical management: Quality of life, resource use and costs from a multicentre randomised controlled trial of patients with failed back surgery syndrome: (PROCESS study)	Krishna Kumar
27	Endoscopic Epidurolisys as tool to show the different morphological characteristics of the Failed Back Surgery Syndrome, and to predict the response to Spinal Cord Stimulation	William Raffaelli



# Poster Schedule

## Tuesday, December 11

(cont.)

28	Successful Treatment of Chronic Axial Low Back Pain and Bilateral Radicular Leg Pain in Two Cases of Failed Back Syndrome (FBSS) and Lumbar Spondylosis with a New Technique of Spinal Cord Stimulation (SCS) :The “Electical Fractionalization”	Claudio Reverberi
29	Percutaneous lead tripolar arrays in the management of chronic intractable back pain: preliminary findings from one clinic in a prospective post-market study	Jason Rosenberg
30	Prospective, multi-centered study to evaluate the safety and effectiveness of Genesis® Implantable Pulse Generator in combination with percutaneous leads for the management of chronic pain of the trunk and/or limbs	Konstantin Slavin
31	Stimulation coverage of transverse tripole programming using the Lamitrode® Tripole™ 16 surgical lead: Preliminary evaluation of a prospective, multi-centered, post-market study	Stewart Smith
32	Three-column surgical lead for spinal cord stimulation offers selective dorsal column fiber activation	Michael Turner
33	Subjective Success of Sacral Neuromodulation Therapy in Interstitial Cystitis Patients	Sandip Vasavada
34	Use of Monopolar Impedance Measurements to Diagnose Intermittent Lead Connections and Non-invasively Restore Stimulation Efficacy in Spinal Cord Stimulation:Three Case Studies	Harold Haut
35	Spinal Cord stimulation reduces the occurrence of ventricular fibrillation in the ischemic canine heart	Mike DeJongste
36	Dorsal Column Selectivity in Pulse Width (PW) Programming of Spinal Cord Stimulation (SCS): Computation model for the “Sacral Shift” (A Mathamatical Application)	Dongchul Lee
37	Automated vs. Manual Spinal Cord Stimulator Adjustment: A Sensitivity Analysis of Lifetime Cost Data from a Randomized, Controlled Trial	Alexander Arash Khalessi
38	Cost Minimisation in Spinal Cord Stimulation	Paul Murphy
39	Initial Evaluation of Triple-Array Leads for Spinal Cord Stimulation	Garrett Powell

# Poster Schedule

## Tuesday, December 11

(cont.)

40	Dorsal Column Selectivity in Pulse Width (PW) Programming of Spinal Cord Stimulation (SCS): Computation model for the “Sacral Shift” (A Clinical Application)	Tom Yearwood
41	Frequency and duration of recharging in typical use patterns of patients with rechargeable spinal cord stimulation (SCS) systems: observations and preferences of over 1000 patients	Surekha Bhat
42	Successful implantation of percutaneous leads over initially failed paddle lead: Case Reports	Julie Saranita
43	Prospective outcomes study on the Restore® rechargeable neurostimulation system for neuropathic pain: a multi-center study	Geert Spincemaille
44	Improving Success of Spinal Cord Stimulation for Spondylotic Pain	Richard van Groningen
45	The Effect of Voltage Multiplication Rates and Discharge Modes on Patient Recharging of Rechargeable IPGs	Thomas Younker
46	Spinal cord stimulation with “rechargeable systems” in 8 patients. 12 months follow up	M <sup>a</sup> Luisa Franco Gay
47	Restart of a Rechargeable Implantable Pulse Generator After 10 Months	William A. Hautt
48	Effects of changes in patients posture on energy requirement for SCS	David Abejon
49	Posterior Spinal Cord Stimulation in a Case of Painful Legs and Moving Toes	Fabián Piedimonte

## Platinum Sponsors

### **Advanced Neuromodulation Systems**

6901 Preston Road  
Plano, Texas 75024  
USA  
Tel: 1.972.309.8539  
Fax: 1.972.309.8689  
[www.ans-medical.com](http://www.ans-medical.com)

Advanced Neuromodulation Systems (ANS), a division of St. Jude Medical, offers innovative neurostimulation products to treat chronic pain and neurological disorders worldwide. Key products include Eon® rechargeable IPG with NeuroDynamix technology; a full line of paddle and percutaneous leads; and the Rapid Programmer® 3.1 programming platform. Visit [ans-medical.com](http://ans-medical.com).

### **Boston Scientific**

25129 Rye Canyon Loop  
Valencia, California 91355  
USA  
Tel: 1.800.678.2575  
Fax: 1.661.362.1518  
[www.advancedbionics.com](http://www.advancedbionics.com)

Boston Scientific's Neuromodulation Division is a global leader in the development of implantable, high-technology neuromodulation devices that include the Precision Plus™ SCS system for chronic pain. The unique ability to precisely sculpt electric fields with intuitive joystick programming has resulted in unprecedented acceptance of this system. Boston Scientific is a worldwide developer, manufacturer and marketer of medical devices whose products are used in a broad range of interventional medical specialties.

### **Elan Pharmaceuticals, Inc.**

7475 Lusk Blvd.  
San Diego, California 92121  
USA  
Tel: 858-784-6736  
[www.elan.com](http://www.elan.com)

Elan Corporation, plc is a neuroscience-based biotechnology company committed to making a difference in the lives of patients and their families by dedicating ourselves to bringing innovations in science to fill significant unmet medical needs that continue to exist around the world. Elan currently sells PRIALT (ziconotide intrathecal infusion) for patients with severe chronic pain.

### **Medtronic Neuromodulation**

710 Medtronic Parkway  
Minneapolis, Minnesota 55432-5604  
USA  
Tel: 1.800.328.0810/1.763.505.5000  
Fax: 1.763.505.1000  
[www.medtronic.com](http://www.medtronic.com)

Medtronic is the global leader in medical technology - alleviating pain, restoring health and extending life for millions of people around the world. Medtronic Neuromodulation provides innovative implantable neurostimulation and drug delivery devices to therapeutically treat intractable pain, as well as other chronic diseases and neurological disorders.

## Exhibitors

### **Caperian, Inc.**

1030 North Orange Avenue, Ste. 105  
Orlando, Florida 32801  
USA

Tel: 1.407.367.0944  
Fax: 1.407.367.0950  
[www.caperianinc.com](http://www.caperianinc.com)

Caperian is the premier resource for planning, developing and building superior medical facilities utilizing the latest advancements in practice design and construction. Through our medical industry specific experts we provide the finest in strategic and hands-on development and real estate resources to help you grow your practice.

### **Epimed International, Inc.**

141 Sal Landrio Drive  
Johnstown, New York 12095  
USA  
Tel: 1.518.725.0209  
Fax: 1.518.725.0207  
[www.epimedpain.com](http://www.epimedpain.com)

Epimed International, Inc., will be featuring products designed for chronic and acute pain management techniques. We will display the Expanded Line of Racz® Spring Guide Epidural Catheters; RXTM, RK TM, and SCA Epidural Introducer Needles; Coudé™ & Straight Blunt Nerve Block Needles; and Mini Trays. Radiation Safety Products, TENS Units, and Anatomical Models will also be shown.

### **Gastroparesis & Dysmotilities Association**

5520 Dalhart Hill NW  
Calgary, Alberta T3A 1S9  
Canada  
Tel: 1.247.3215  
Fax: 1.403.247.3215  
[www.digestivedistress.com](http://www.digestivedistress.com)

The Gastroparesis and Dysmotilities Association is a voluntary driven, federally registered Canadian charity with an international membership. The non-profit arose from a desire of patients with gastroparesis to focus attention on the need for more treatment options, improvement in quality of life and better recognition and awareness for all GI motility disorders.

### **Greatbatch, Inc.**

11900 Walden Avenue  
Alden, New York 14004  
USA  
Tel: 1.716.937.5222  
Fax: 1.716.937.5202  
[www.greatbatch.com](http://www.greatbatch.com)

For more than 35 years, Greatbatch has been the industry leader in power devices and other critical components used in pacemakers, defibrillators, implantable drug delivery systems, artificial hearts and neurostimulators. With more the 600 patents, Greatbatch continues to develop and manufacture unrivaled products that support manufacturers in the implantable medical device market.

### **Intelect Medical**

1300 E. 9th St., #605  
Cleveland, Ohio 44144  
USA  
Tel: 1.216.916.6924  
Fax: 1.216.916.6946  
[www.intelectmedical.com](http://www.intelectmedical.com)

Intelect Medical focuses on the development and commercialization of novel neurostimulation systems for improving the recovery of brain injury patients. The development of our novel Deep Brain Stimulation (DBS) system leverages the clinical and research expertise of the Center for Neurological Restoration at the Cleveland Clinic and the Laboratory for Cognitive Neuromodulation at Weill Cornell Medical College.

## **IOP Publishing**

150 S. Independence Mall W.  
Philadelphia, Pennsylvania 19106  
USA  
Tel: 1.215.627.0880  
Fax: 215.627.0879  
[www.journals.iop.org](http://www.journals.iop.org)

IOP Publishing is an international, not-for-profit, learned society publisher. We are a world leader in scientific publishing and the electronic dissemination of peer-reviewed scientific research. Stop by our table for a sample copy of our renowned journal, *Journal of Neural Engineering*. Visit us online at [journals.iop.org](http://journals.iop.org).

## **Neurotech Reports**

461 Second St. #124  
San Francisco, California 94107  
USA  
Tel: 1.415.546.1259  
Fax: 1.415.358.4264  
[www.neurotechreports.com](http://www.neurotechreports.com)

Neurotech Reports publishes periodicals and market research reports covering the neuromodulation and neurotechnology device industries. Since 2001, Neurotech Business Report has kept subscribers alert to market developments and competitive issues in this new and thriving industry. Our industry whitepapers provide background information on a number of industry segments, including deep-brain stimulation, brain-computer interfaces, and neurosensing devices. Visit [www.neurotechreports.com](http://www.neurotechreports.com) for more information.

## **Neurotherm Limited**

429 Brighton Road  
Croydon, Surrey CR263U  
United Kingdom  
Tel: 44.208.660.4324  
Fax: 44.208.660.9417  
[www.neurotherm.com](http://www.neurotherm.com)

NeuroTherm® is the world leader in RF for pain management with a strong reputation for innovative products that are safe, reliable and easy to use. We are the only company with multiple RF generators for heat and pulsed lesioning, disc annuloplasty, patented multi-site lesioning, and intraoperative system testing. With support from NeuroTherm's wide selection of RF products and our remarkable level of service, physicians are able to perform procedures more safely, quickly, and effectively.

## **Northstar Neuroscience**

2401 4th Avenue, Suite 300  
Seattle, Washington 98121  
USA  
Tel: 1.206.902.1985  
Fax: 1.206.902.0140  
[www.northstarneuro.com](http://www.northstarneuro.com)

Northstar Neuroscience is a medical device company focused on developing neurostimulation therapies that offer greater hope for recovery from neurological injury, disorder and disease. Northstar's proprietary Renova™ Cortical stimulation System is an investigational device that delivers targeted electrical stimulation to the outer surface of the brain - the cerebral cortex. The Renova system is currently under investigation for several indications, including stroke motor recovery, aphasia, tinnitus and depression.

## **Pain Medicine News**

545 West 45th Street, 3rd Floor  
New York, New York 10036  
USA  
Tel: 1.212.957.5300  
Fax: 1.212.957.7230  
[www.painmedicineneeds.com](http://www.painmedicineneeds.com)

Pain Medicine News is designed to meet the needs of the spectrum of physicians involved in pain medicine, including primary care physicians, neurologists, orthopedic surgeons, pain management specialists, rheumatologists, oncologists and more.

This medical newspaper offers the following:

- comprehensive coverage of cutting-edge research from clinical meetings,
- practical advice from experts on legal issues and practice management,
- educational reviews written by thought leaders,
- wall charts and pocket guides for use in clinical practice, and
- CME-accredited Special Reports and projects.

## **Victhom Human Bionics, Inc.**

4780 St. Felix Street  
St. Augustin de Desmaures, Quebec G3A2J9  
Canada  
Tel: 1.418.872.5665  
Fax: 1.418.864.7030  
[www.victhom.com](http://www.victhom.com)

Victhom discovers, develops and manufactures bionic devices involved in the treatment of a variety of physical and physiological dysfunctions. Victhom's Neurobionix business unit focuses on the development and commercialization of technologies and products involving implantable devices that feature neurosensing and neurostimulation components to bring a closed-loop therapeutic solution to patients. Victhom's Biotronix business unit develops biomechatronic products to support or replace peripheral limbs in what is known as the orthotics and prosthetics market.



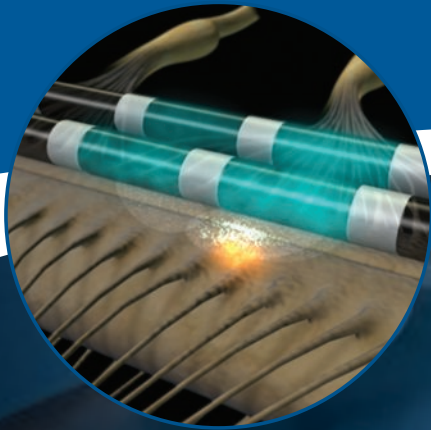
## **Elan Corporation, plc**

a neuroscience-based  
biotechnology company focused  
on discovering, developing,  
manufacturing and marketing  
advanced therapies in  
*neurodegenerative disorders,*  
*autoimmune diseases* and  
*severe pain* for the benefit  
of patients worldwide



Precision Plus™ with i-Sculpt™ Technology  
offers new, innovative benefits for you and your patients.

Boston  
Scientific



### Multiple Independent Current Control

The ONLY system that lets you precisely target pain by moving the electric field between simultaneously active contacts in 1% increments.

AND the ONLY system that automatically adjusts for impedance changes to maintain therapy when leads scar in.

**PLUS** Proprietary EGL Scan™ Technology that shows you the relative position of leads without fluoro, in seconds.

*Sculpt the Difference™*

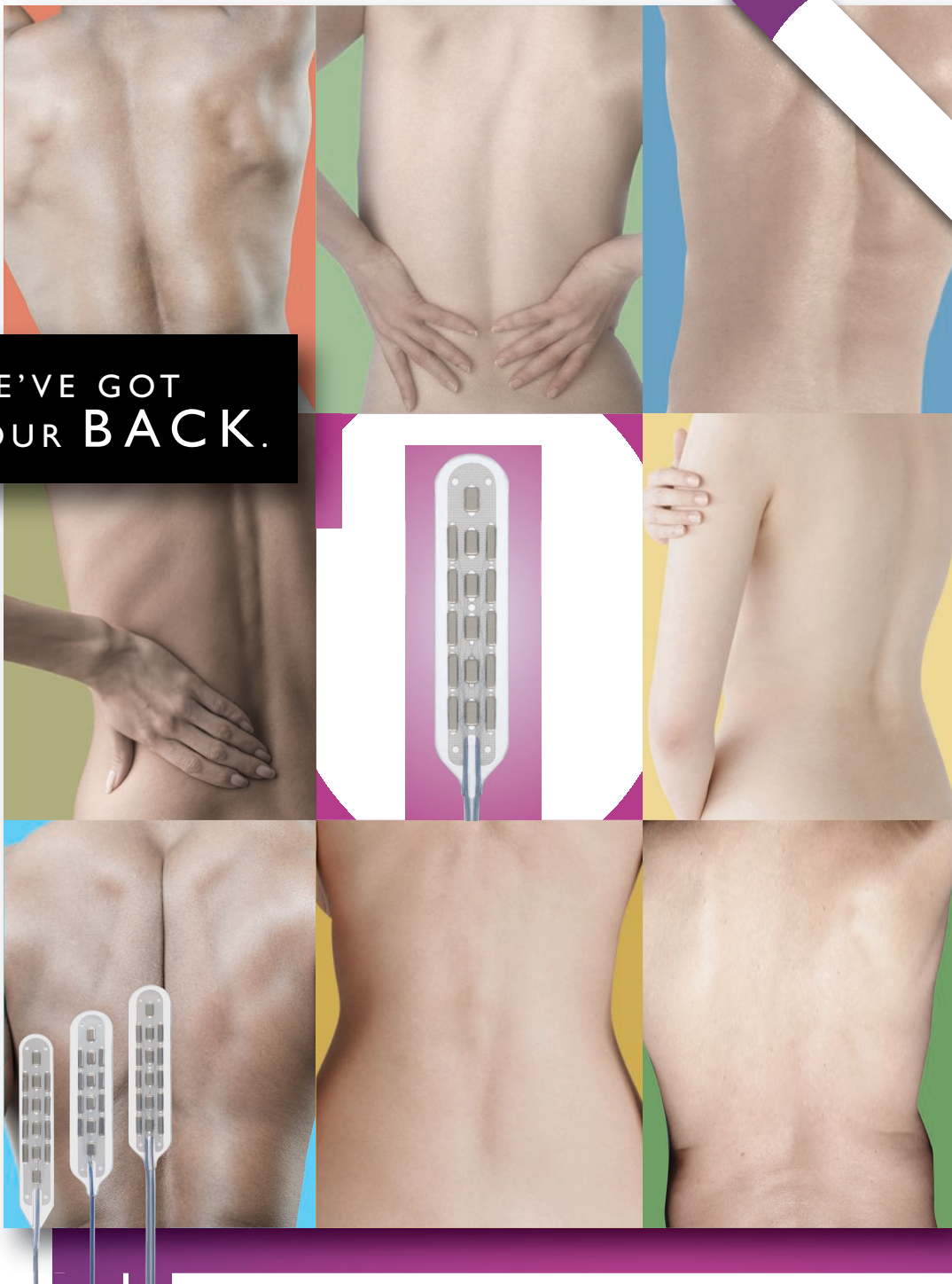
PRECISION *Plus*™

Ask your Boston Scientific representative today about Precision Plus.

866.360.4747 Toll Free  
[www.ControlYourPain.com](http://www.ControlYourPain.com)

E X P E C T M O R E

WE'VE GOT  
YOUR BACK.



*Tripole 8, Tripole 8C, and Tripole 16C are cleared for use with the Renew<sup>®</sup> Neurostimulation System only. **Indications for Use:** Chronic, intractable pain of the trunk and limbs. **Contraindications:** Demand-type cardiac pacemakers, patients who are unable to operate the system or who fail to receive effective pain relief during trial stimulation. **Warnings/Precautions:** Diathermy therapy, cardioverter defibrillators, magnetic resonance imaging (MRI), explosive or flammable gases, theft detectors and metal screening devices, lead movement, operation of machinery and equipment, postural changes, pediatric use, pregnancy, and case damage. Patients who are poor surgical risks, with multiple illnesses, or with active general infections should not be implanted. **Adverse Events:** Painful stimulation, loss of pain relief, surgical risks (e.g., paralysis). Clinician's manual must be reviewed prior to use for detailed disclosure. **Caution:** U.S. federal law restricts this device to sale and use by or on the order of a physician. Lamitrode Tripole, Tripole, Tripole 8, Tripole 8C, and Tripole 16C are trademarks and Lamitrode, ANS, Renew, and Advanced Neuromodulation Systems are registered trademarks of Advanced Neuromodulation Systems, Inc. Tripole leads are protected under U.S. patent numbers 6,236,892 and 6,999,820, as well as various patents pending. ©2007 Advanced Neuromodulation Systems, Inc. All rights reserved.*