

Program



First Congress International Society of Intraoperative Neurophysiology

November 15–17, 2007

Kantonsspital Lucerne

Switzerland

Welcome to Lucerne

Dear friends and colleagues,

during the past two decades we have witnessed tremendous developments in the medical and neural sciences. Much of what we consider „standard“ today has simply not been there only ten years ago. The intraoperative utilization of neurophysiological techniques to assess functional aspects during surgery affecting the nervous system has played its part in this larger development.

Evoked potentials and electroencephalography have been considered the core of the field that is understood as intraoperative monitoring. In addition intraoperative neuromonitoring includes the use of microelectrode recording, ultrasound and other techniques utilized during surgery and in intensive care. Not surprisingly therefore intraoperative neurophysiology is not only for the neurosurgeon and the neurophysiologists, but is of great interest to anesthesiologists, orthopedic surgeons, intensive care specialists, otolaryngologists, vascular surgeons, interventional radiologists, and neurologists.

Since 1998 the biannual New York Symposium for Intraoperative Neurophysiology has attracted a growing number of participants worldwide. In the context of this now well-established meeting the idea for a worldwide society was born. An international society open to all who are interested in this field. The organization of the first full meeting of our new association has been entrusted to me and I therefore take great pleasure in inviting you to the beautiful town of Lucerne in the heart of Switzerland. We will have a program encompassing all that is intraoperative neurophysiology and more. And Lucerne, as the home of festivals and culture, fabulous mountains, and reputed gastronomy will provide a great background for our meeting.

I look forward to welcome you in Lucerne

Karl F. Kothbauer, M. D.
Congress President

General information

- Date** November 15-17, 2007
- Congress venue** Kantonsspital Lucerne
Spitalzentrum Haus 31
Spitalstrasse
6000 Luzern 16
Switzerland
www.ksl.ch
- Homepage** www.imk.ch/ion2007
- Committee** Karl F. Kothbauer, Lucerne, Switzerland
Vedran Deletis, New York, USA
David MacDonald, Riyadh, S. Arabia
Jay Shils, Burlington, USA
Francesco Sala, Verona, Italy
- Administrative secretary** **IMK** Institute for medicine and communication ltd
Münsterberg 1, CH-4001 Basel
Tel: 0041 (0) 61 271 35 51, Fax: 0041 (0) 61 271 33 38
E-Mail: mail@imk.ch
- Registration** Please register and pay with your credit card online via
www.imk.ch/ion2007

On-site registration possible. Please note that we do NOT accept credit cards, payments only in CHF with an extra charge of CHF 50.–

- Fees** Physicians CHF 600.–
Nurses/Ass./Stud. CHF 520.–

Fees include participation at conference, coffee, lunch, cocktail reception on Thursday and dinner on Friday

- Cancellation policy** In the event your enrollment must be cancelled, your tuition less a CHF 50.– administrative fee will be refunded if we are notified by October 15, 2007. No refunds will be made after that date.

General information

Credits Swiss Society of Neurosurgery: 19 credit points

EACCME: 15 European CME credits (ECMEC)

The First Congress International Society of Intraoperative Neurophysiology is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net

EACCME credits are recognized by the American Medical Association towards the Physician's Recognition Award (PRA). To convert EACCME credit to AMA PRA category 1 credit, contact the AMA.

Cocktail reception Thursday, November 15, 2007
18.30-20.00
Industry exhibition

Gala dinner Friday, November 16, 2007
19:00 Shuttle bus from congress venue
20:00 Dinner at the Art Deco Hotel Montana Luzern overlooking the Lake Lucerne.

Language The congress will be held in English with no simultaneous translation.

Accommodation A limited number of rooms has been reserved for congress participants at the special group rate of CHF 215.– excl. breakfast and taxes for single or double occupancy at the modern Radisson SAS Hotel close to the main station and to the Lucerne Lake.

To make a reservation, please call the hotel directly. Please be sure to state you will be attending the „Neuro“ Congress. To receive the special group rate, reservations must be made by September 17, 2007. For hotel information please call the hotel directly or visit the hotel's website.

General information

Radisson SAS Hotel, Lucerne
Lakefront Center
P.O. Box 4170
CH-6002 Luzern
Switzerland
Tel. +41 41 369 9000
Fax +41 41 369 9011
www.luzern.radissonsas.com

For further hotels please contact the tourism office:
Luzern Tourismus AG
Tourist Board
Zentralstrasse 5
CH-6002 Luzern
Tel. +41 41 227 17 17
Fax +41 41 227 17 18
luzern@luzern.com
www.luzern.org

Shuttle bus There will be a free shuttle bus service offered taking you from the Hotel SAS Radisson to the congress venue and back:

Thursday, November 15

Hotel SAS Radisson 7.45 and 8.15
Kantonsspital Lucerne 20.00

Friday, November 16

Hotel SAS Radisson 7.30 and 8.00
Kantonsspital Lucerne 19.00 directly to the Hotel Montana
Kantonsspital Lucerne 19.00 to the Hotel SAS Radisson and
19.45 to the Hotel Montana
Hotel Montana 23.00 to the Hotel SAS Radisson

Saturday, November 16

Hotel SAS Radisson 7.30 and 8.00

Sponsoring

We would like to thank the following companies for their generous support of our conference.

Platin sponsor



Silver sponsors



Further exhibitors



Developing countries
travel fund

Novo Nordisk
Baxter Biosurgery

Industry News

inomed **inomed latest developments!**

Pre-congress workshop
on Wednesday, Nov. 14

We thank all our customers for their great enthusiasm and engagement in assisting us defining new standards with our IOM product line.

We are proud to announce our new technologies:

Smart 4 channel IOM amplifier with USB

Portable and flexible high performance amplifier with acoustic stimulator and blanking function.

OSIRIS Cortical

Easy to use stimulator for cortical and subcortical mapping. This programmable stimulator is working with or without external PC and can be combined with any IOM system.

Disposable accessories

Test our wide range of disposable accessories available in special sets made for different interventions.

See you at the inomed booth!

Nihon Kohden Europe
GmbH

NIHON KOHDEN recently introduced the new intra-operative monitoring device „Neuromaster“ to the U.S. market, now also available for customers in Europe. The Neuromaster features a 16 or 32 channel amplifier to record ExG signals, up to 20 channels for electrical stimulation and a sophisticated software. Check out this new product at the NIHON KOHDEN booth!

Viasys Healthcare

VIASYS Healthcare provides innovative neuro and vascular solutions including: NicoletOne EEG product portfolio (EEG, LTM/Sleep, ICU and NICU Monitor), EMG/EP systems (Synergy N2 and T2 and the VikingQuest and VikingSelect), IOM (Endeavor, Viking, Synergy) , our new TCD products, the Sonara and SonaraTek, and multiple connectivity solutions as HIS and a full line of accessories and supplies

Wednesday, November 14, 2007

- 14:30-18:30 Board meeting ISIN
- 19:00 President's dinner - invited speakers, board members by invitation only

Thursday, November 15, 2007

07:30 Registration

- 09:00 - 12:00 Basic course in intraoperative neurophysiology - Part 1:
The electric activity of the nervous system
A. Szelenyi, Frankfurt, Germany
- Neurophysiology in the operating room
D. MacDonald, Riyadh, Saudi Arabia
- Electroneurography and electromyography
K. Rösler, Bern, Switzerland
- Auditory evoked potentials
A. Møller, San Antonio, USA
- 12:00 - 13:15 Lunch in the industry exhibition
- 13:15 Opening remarks by congress president
K. Kothbauer, Lucerne, Switzerland
- 13:20 Opening remarks by ISIN president
V. Deletis, New York, USA

Thursday, November 15, 2007

**Neurophysiology and monitoring of the motor cortex
and motor pathways**

Chair: V. Deletis, New York, V. Amassian, Brooklyn

- 13:25 - 13:30 Mary Menniti Stecker, memorial lecture:
Introduction by last years lecturer
V. Amassian, Brooklyn, USA
- 13:30 - 14 .00 Neurophysiology of the motor system
J. Rothwell, London, UK
- 14:00 - 14:15 Intraoperative motor monitoring for deep seated gliomas
G. Neuloh, Bonn, Germany
- 14:15 - 14:30 Subcortical mapping for corticospinal tract using D-wave
C. Fukaya, Tokyo, Japan
- 14:30 - 14:45 Subcortical mapping and motor evoked potential
monitoring in brain tumor surgery
F. Sala, Verona, Italy
- 14:45 - 14:55 Validation of DTI-based fiber tracking by intraoperative
subcortical stimulation
A. Reuland, Mainz, Germany
- 14:55 - 15:05 Intraoperative brain mapping of pyramidal tract under
general anesthesia
T. Dimitrakopoulos, Thessaloniki, Greece
- 15:05 - 15:15 Extra- and intraoperative electrical stimulation of the
human extratemporal cortex in epilepsy surgery – a
comparative study
P. Winkler, München, Germany
- 15:15 - 15:25 Intraoperative epileptic seizures: an experience in general
anesthesia and in awake craniotomy
R. Budai, Udine, Italy
- 15:30 - 16:00 Coffeebreak

Thursday, November 15, 2007

Neurophysiology and monitoring of the motor cortex and motor pathways continued

Chair: B. Cioni, Rome, J. Rothwell, London

- 16:00 - 16:15** Recording of corticospinal MEP for placement of motor cortex stimulation electrodes in the treatment of post-stroke pain
T. Yamamoto, Tokyo, Japan
- 16:15 - 16:30** Chronic motor cortex stimulation. The Rome Experience
B. Cioni, Rome, Italy
- 16:30 - 16:45** Chronic motor cortex stimulation. The Boston Experience
J. Shils, Burlington, USA
- 16:45 - 16:55** Navigated Transcranial Magnetic Stimulation (TMS) for preoperative functional diagnostics in rolandic brain tumor surgery - comparison with intraoperative mapping results in 15 cases
T. Picht, Berlin, Germany
- 16:55 - 17:05** Correlation between presurgical evaluation using fMRI (3T) BOLD activation during median nerve stimulation and intraoperative monitoring using the phase reversal technique
P. Manganotti, Verona, Italy
- 17:05 - 17:15** Intraoperative monitoring of scalp EEG and ECoG during peri-insular hemispherotomy: a new approach towards understanding of the mirror focus
D. Debatisse, Lausanne, Switzerland
- 17:20 - 18:30** Poster session:
F. Sala, Verona, Italy
K. Kothbauer, Lucerne, Switzerland
B. Cioni, Rome, Italy
D. MacDonald, Riyadh, Saudi Arabia
- 18:30 - 20:00** Cocktail reception at the congress venue

Friday, November 16, 2007

07:30 Registration

08:30 - 09:30 State of the art sessions 1:

D-wave physiology and spinal cord mapping
V. Deletis, New York, USA

Monitoring for spinal cord surgery
F. Sala, Verona, Italy

Monitoring of supratentorial surgery
A. Szelenyi, Frankfurt, Germany

09:35 Introduction by congress president
K. Kothbauer, Lucerne, Switzerland

Physiology and testing of the eloquent cortex

Chair: V. Amassian, Brooklyn, H. Lüders, Cleveland

09:40 - 09:45 Introduction of speaker
V. Deletis, New York, USA

09:45 - 10:15 Invited lecture: mapping of eloquent language centers
H. Lüders, Cleveland, USA

10:15 - 10:45 Invited lecture: magnetic testing of the eloquent cortex
V. Amassian, Brooklyn, USA

10:45 - 11:15 Invited lecture: intraoperative testing of the eloquent cortex
V. Deletis, New York, USA

11:15 - 11:45 Coffee break

11:45 - 12:15 Invited lecture: the neurophysiology of the motor cortex
R. Lemon, London, UK

12:15 - 12:45 Invited lecture: neurophysiology of the eloquent cortex
Jeremy Greenlee, Iowa City, USA

12:45 - 13:15 Invited lecture: operating in the eloquent cortex
H. Duffau, Montpellier, France

Friday, November 16, 2007

13:15 - 14:15 Lunch in the industry exhibition

Monitoring and neurophysiology of the spinal cord

Chair: K. Kothbauer, Lucerne, F. Sala, Verona

14:15 - 14:20 Introduction of lecture and speaker
K. Kothbauer, Lucerne, Switzerland

14:20 - 14:50 Fred J. Epstein memorial lecture: the use of intraoperative monitoring in spinal cord surgery by the experienced neurosurgeon
S. Constantini, Tel Aviv, Israel

14:50 - 15:00 The experience with multimodal intraoperative monitoring as a surgical aid in the removal of spine and spinal cord tumors: experience with 41 cases
C. Paus, Zurich, Switzerland

15:00 - 15:15 Four-limb muscle motor evoked potential and optimized somatosensory evoked potential monitoring with decussation assessment: results in 206 thoracolumbar spine surgeries
D. MacDonald, Riyadh, Saudi Arabia

15:15 - 15:25 Multimodal Intraoperative Monitoring (MIOM) during surgery of spinal deformities in 217 patients
A. Eggsbühler, Zurich, Switzerland

15:25 - 15:35 Triggered EMG threshold testing in the cervical spine using two different testing techniques
B. Cohen, Milwaukee, USA

15:35 - 15:45 Persistently electrified pedicle stimulation during minimally invasive lumbo-sacral fixation
J. Shils, Burlington, USA

15:45 - 15:55 The role of neurophysiologic monitoring in intradural-extramedullary spinal cord tumors
A. Korn, Tel Aviv, Israel

15:55 - 16:20 Coffee break

Friday, November 16, 2007

Chair: V. Deletis, New York, D. MacDonald, Riyadh

- 16:20 - 16:25 Introduction of lecturer
V. Deletis, New York, USA
- 16:25 - 16:55 Invited lecture: reflex activity in the spinal cord
M. Dimitrijevic, Houston, USA
- 16:55 - 17:05 Intraoperative assessment of the injured spinal cord
P. Costa, Torino, Italy
- 17:05 - 17:15 The diagnostic value of Multimodal Intraoperative
Monitoring (MIOM) during spine surgery: a prospective
study of 1017 patients
M. Sutter, Zurich, Switzerland
- 17:15 - 17:25 Tibial evoked SEP in anterior thoracic scoliosis correction:
intraoperative evolution and interaction with surgical
approach
M. Schubert, Zurich, Switzerland
- 17:30-18:30 General assembly ISIN
- 20:00 Gala dinner at the Hotel Montana overlooking lake Lucerne



Saturday, November 17, 2007

08:30 - 09:30 State of the art session 2

Anesthesia and intraoperative monitoring
C. Kalkman, Utrecht, Netherlands

Neurophysiology at the ICU
M. Guerit, Brussels, Belgium

Neurophysiology-guided deep brain stimulation
J. Shils, Burlington, USA

09:40 Introduction by congress president
K. Kothbauer, Lucerne, Switzerland

Neurophysiology-guided surgery for movement disorders

Chair: J. Shils, Burlington, J. Krauss, Hannover

09:45 - 10:15 Invited lecture: neurophysiology and functional neurosurgery
J. Krauss, Hannover, Germany

10:15 - 10:30 Multi-disciplinary studies on the electrode-brain interface during deep brain recording and stimulation
X. Liu, London, UK

10:30 - 10:45 Computational modeling of the basal ganglia and the DBS electrode
J. Arle, Burlington, USA

10:45 - 10:55 Neurophysiological mapping and monitoring of motor cranial nerves in brainstem surgery
P. Lanteri, Verona, Italy

10:55 - 11:05 Intraoperative mapping of motor cranial nerve nuclei on the floor of the fourth ventricle (MEPs) and neurophysiological monitoring (SEPs) in patients with Chiari II malformation
J. Conrad, Mainz, Germany

Saturday, November 17, 2007

- 11:05 - 11:15 Investigation of myotomal innervation, stimulation physiology and decompressive threshold effect in healthy and pathologic spinal nerve roots
C. Martin, Burlington, USA
- 11:15 - 11:25 Lateral spread variations during intraoperative monitoring of hemifacial spasm's microvascular decompression
M. Habeych, Pittsburgh, USA
- 11:30 - 12:00 Coffeebreak
- 12:00 - 12:20 Anode-cathode paradoxes of transcranial electrical stimulation reflects a basic neurophysiological property of axons related to their orientation
H. L. Journee, Groningen, Netherlands
- 12:20 - 12:30 Experimental study to the course of threshold currents, voltages and electrode impedances during stepwise stimulation between skin surface and the human cortex
A. Szelenyi, Frankfurt, Germany
- 12:30 - 12:40 Influence of scalp, skull and arachnoid fluid on the excitability of axons in the cortex and corticospinal tract at electrical stimulation applied between extracranial and cortical locations
H. L. Journee, Groningen, Netherlands
- Session: Logistics for intraoperative neurophysiology**
Chair: K. Kothbauer, Lucerne, V. Deletis, New York
- 13:00 - 13:15 Improving remote supervision of neurophysiologic monitoring. Northwestern University Model
A. Koht, Chicago, USA
- 13:15 - 13:30 Who monitors? Different concepts
K. Kothbauer, Lucerne, Switzerland
- 13:40 - 14:00 Presidential closing remarks, acknowledgements, announcement of the meeting 2009
V. Deletis, New York, USA

Poster

- P01** The activity of persistent ion channels persists during total intravenous anaesthesia.
J. A. Norton
Alberta (Canada)
- P02** The H reflex in monitoring of spinal cord function during thoracoabdominal aneurysm surgery.
Alhomoud, M. Janusz, C. Dong
Vancouver (Canada)
- P03** IOM proposal of an EEG time index variation of spikes (ETIVS) during endoscopic disconnection (ED) in intractable epilepsy associated with hypothalamic hamartoma (HH).
D. Debatisse, B. Rilliet, C. Pollo, E. Pralong
Lausanne (Switzerland)
O. Delalande
Paris (France)
- P04** Intraoperative motor evoked potential monitoring of vagus nerve function during skull base surgery.
C. Dong, R. Akagami, B. Westerberg
Vancouver (Canada)
- P05** Multimodal Intraoperative Monitoring (MIOM) during cervical spine surgical procedures in 246 patients.
A. Eggspuehler, M.A. Sutter, D. Grob, D.J. Jeszenszky,
F. Porchet, J. Dvorak
Zurich (Switzerland)
- P06** Multimodal Intraoperative Monitoring (MIOM) during surgical decompression of thoracic spinal stenosis in 36 patients.
A. Eggspuehler, M.A. Sutter, D. Grob, F. Porchet, D.J. Jeszenszky,
J. Dvorak
Zurich (Switzerland)
- P07** Effects of burst suppression and physiological noise to tibial nerve somatosensory evoked potential signal to noise ratio in propofol anaesthesia.
A. Joutsen, P. Puumala, L-P Lyytikäinen, O. Pajulo, A. Etelämäki, J. Jurva, V. Jäntti
Tampere (Finland)

Poster

P08 Neuromonitoring and EEG burst suppression.

V. Jäntti, M. Rorarius, E. Sonkajärvi, P. Puumala, L-P Lyytikäinen,
T. Erola, K. Suominen
Tampere (Finland)

P09 Electrocorticographic discharge patterns in primary brain tumors.

G. Pauletto, R. Budai, E. Pineschi, M. Skrap, P. Bergonzi
Udine (Italy)

P10 Multimodal Intraoperative Monitoring: an overview and proposal of methodology based on 1017 cases.

M. Sutter, A. Eggspuehler, A. Muller, J. Dvorak
Zurich (Switzerland)

P11 Effects of internal globus pallidus stimulation on pallidal neurones activity.

E. Pralong, C. Pollo, D. Debatisse
Lausanne (Switzerland)

P12 Retrospective analysis of the last 4 years IOM in Lausanne University Hospital (CHUV).

E. Pralong, J.M. Duff, M. Dutoit, C. Schizas, B. Rilliet, J.Y. Zambelli,
D. Debatisse
Lausanne (Switzerland)

P13 Spinal cord displacement in scoliosis. Repercussion in thoracic pedicle screws stimulation thresholds.

I. Regidor, G. de Blas, S.G. Urquiza, R. Sola, C. Barrios, F. Urdanibia, E. Hevia, J.
Burgos
Madrid, Valencia, (Spain)

P14 The validity of Multimodal Intraoperative Monitoring (MIOM) in surgery of 109 spine and spinal cord tumors.

M. Sutter, A. Eggspuehler, D. Grob, D. Jeszenszky, A. Benini, F. Porchet, A.
Muller, J. Dvorak
Zurich (Switzerland)

P15 Multimodal Intraoperative Monitoring (MIOM) during 409 lumbosacral surgical procedures in 409 patients.

M. Sutter, A. Eggspuehler, F. Porchet, D. Jeszensky, D. Grob, J. Dvorak
Zurich (Switzerland)

Poster

- P16** Bulbocavernosus reflex in Intraoperative Monitoring for lower spinal cord surgery.
S. Urquiza, I. Regidor, G. de Blas, E. Montes, P. Poveda
Madrid (Spain)
- P17** Preoperative neurophysiological assessment for the facial nerve in acoustic neuroma.
C. Foresti, F. Biroli, G. Danesi, A. Mazzoni, E. Ubiali
Bergamo (Italy)
- P18** A proposal for classifying the results in neurophysiologic intraoperative monitoring in scoliosis.
J. Conill
Barcelona (Spain)
- P19** Correlation between intraoperative SSEPs changes and postoperative clinical outcome in cervical compressive myelopathy.
H. A. Al-Shatoury, A.A. Elbaz, J.I. Ausman, M.A. Elbarbary
N. A. Khalil, A.M. Mohamad, Ismailia (Egypt)
Y. M. Elwazir, Chicago (United States)
- P20** Intraoperative monitoring during peripheral nerve and spinal cord surgery.
M. Berker, C. M. Temucin, G. Nurlu
Ankara (Turkey)
- P21** Study of the SSEPs variations facing neurophysiologists during intraoperative monitoring of brainstem and cervical spinal cord operations.
A.A. Elbaz, H.A. Al-Shatoury, J.I. Ausman, M.A. Elbarbary, N.H. Khalil,
A.M. Mohamad, Ismailia, (Egypt)
Y.M. Elwazir
Chicago (United States)
- P22** Intraoperative neurophysiology in Uppsala - an overview.
C. Farnstrand, M. Garrett, M. Grindlund, T. Winkler, R. Flink, H. Axelson
Uppsala (Sweden)
- P23** Stimulation threshold - age relationship and improvement of muscle potentials by preconditioning transcranial stimulation in young children.
H.L. Journee, E. Haitsma, S. Eilander, E.W. Hoving, J.J.A. Mooij
Groningen (Netherlands)

Poster

- P24** The usefulness of intraoperative somatosensory evoked potential monitoring in predicting neurologic deficits.
Joong Koo Kang, Young Joo No, Jong Sik Kim, Dae Hyun Shon, Seung Chul Rhim, Seok Ho Hong, Jung Kyo Lee
Seoul (Korea)
- P25** Benefit of epidural SEP phase reversal registration and primary motor cortex mapping during large central region tumours.
S. Ostry, L. Stejskal
Prague (Czech Republic)
- P26** Internal globus pallidus stimulation induces opposite effects on pallidal neurones activity.
E. Pralong, C. Pollo, D. Debatisse
Lausanne (Switzerland)
- P27** Intraoperative mapping of sensorymotor cortex and speech-eloquent brain areas during awake surgery for brain tumors.
V. Ramponi, E. Gastaldo, F. Di Biase, R. Zoppellari, V. Tugnoli, MA. Cavallo, R. Quatralo
Ferrara (Italy)
- P28** Further achievements in subclinical focal neuropathies of the facial nerve in patients with facial vascular and lymphatic malformations.
S. Ulkatan, I. Fernandez-Conejero, U. Javier, M. Martinez, Y. Niimi, V. Deletis
New York (United States)
- P29** Intraoperative mapping and monitoring of functional integrity of the facial nerve during angio / embolization and surgery for the facial vascular malformations. Methodological improvements.
S. Ulkatan, I. Fernandez-Conejero, J. Urriza, V. Deletis
New York (United States)
- P30** Motor evoked potentials in pediatric neurosurgery: Is age a limitation?
V. Tramontano, F. Sala, P. Manganotti, P. Rizzo, C. Mazza, M. Gerosa
Verona (Italy)
- P31** Reappearance of evoked potentials after spinal decompression in a patient with acute cauda equina syndrome.
J. Urriza, S. Ulkatan, I. Fernandez-Conejero, V. Deletis
New York (United States)

Poster

- P32** TES interpulse times in upper and lower extremities may show marked differences between optimum settings.
C. van Hal, E. Hoebink, H.E. Polak, I Racz, M. de Kleuver, H.L. Journee
Nijmegen (Netherlands)
- P33** Baseline RS02 for cerebral oximetry should be established after oxygen administration.
J. Bebawy, A. Koht, D. Gupta
Illinois (USA)
- P34** Direct cortical stimulation with pulse train: hypothesis on cMAP variability.
R. Budaia, G. Paulettoa and M. Skrapb
Udine (Italy)
- P35** Anesthesia technique for neurophysiologic monitoring at Northwestern University.
A. Koht, D. Gupta, E. Fohrman, K. Gil, S. Jean Childers, R. Gould, S. Wolf
Illinois (USA)
- P36** A retrospective review of intraoperative somatosensory and motor evoked potentials during craniotomy for clip ligation of intracranial aneurysms.
A.Koht, D.K. Gupta, M. Cotton, E.B. Fohrman, C.C. Getch, B.R. Bendok, H.H. Batjer
Chicago (USA)
- P37** A new development of the neurophysiological exploration of the broca area.
V. Deletis, B. Cioni, M. Meglio, G. Colicchio, S. Ulkatan
New York (United States)
- P38** Effect of monopolar vs bipolar stimulation on brain oscillatory activity in intra-operative EcoG. Study with safety issues.
P. Manganotti, V. Tramontano, E. Formaggio, A. Fiaschi, A. Talacchi, F. Sala
Verona (Italy)

International Society of Intraoperative Neurophysiology



Founding president: Vedran Deletis, M.D., Ph.D.

President elect: David Mac Donald, M.D.

Secretary: Jay Shils, Ph.D.

Treasurer: Beatrice Cioni, M.D.

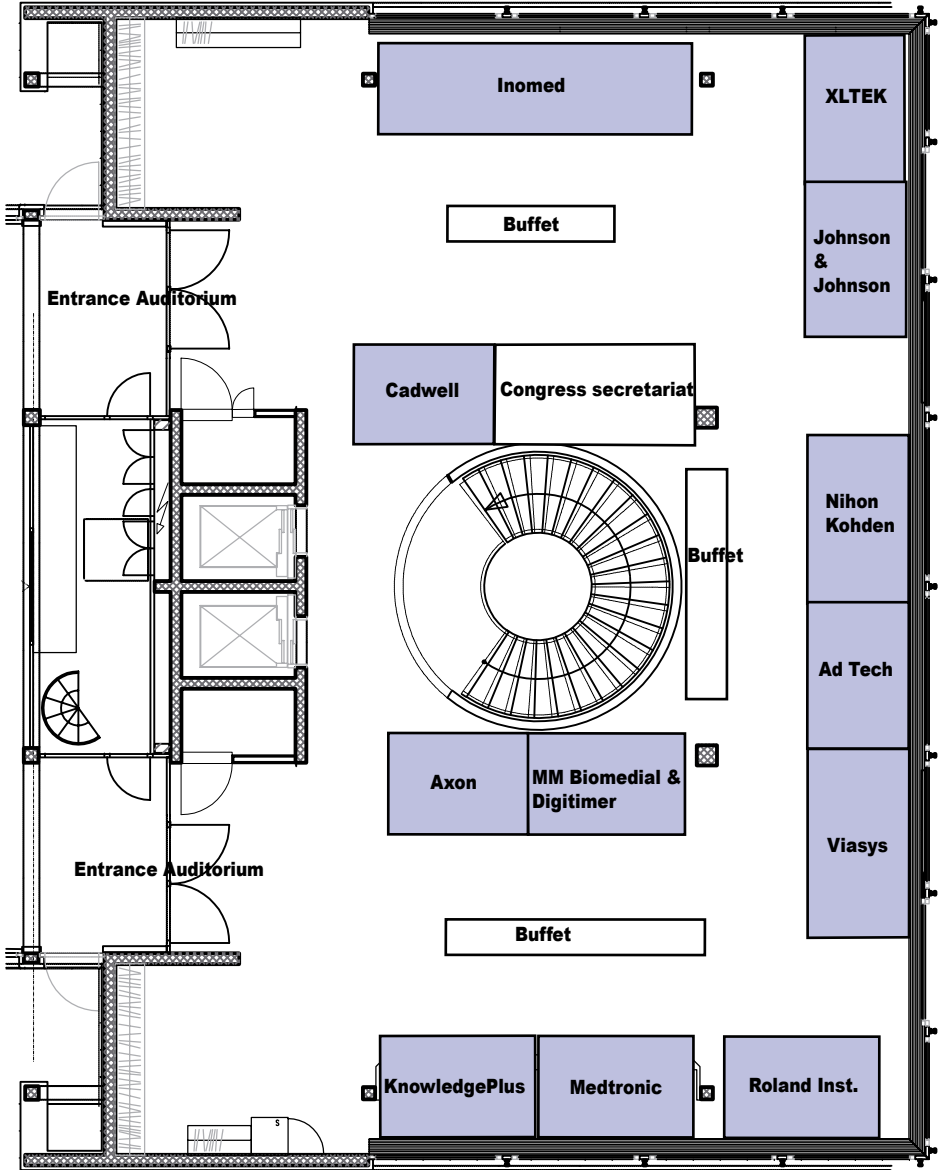
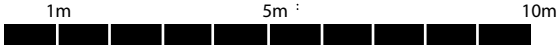
Website: www.ptsroma.it/isin and www.neurophysiology.org/isin

Email: info@ptsroma.it

We kindly invite you to become a member of our society. Please see the website for the application form.

Exhibition plan

**First Congress International Society for Intraoperative Neurophysiology
Nov 15-17, 2007, Cantonal Hospital Lucerne**



Invited speakers

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Invited speakers

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Map of Lucerne

1. Congress Venue Kantonsspital Luzern

Spitalstrasse
CH-6000 Luzern 16

Phone: +41 41 205 11 11
Fax: +41 41 205 44 11
www.ksl.ch

2. Dinner Art Deco Hotel Montana

Adligenswilerstrasse 22
CH-6002 Luzern

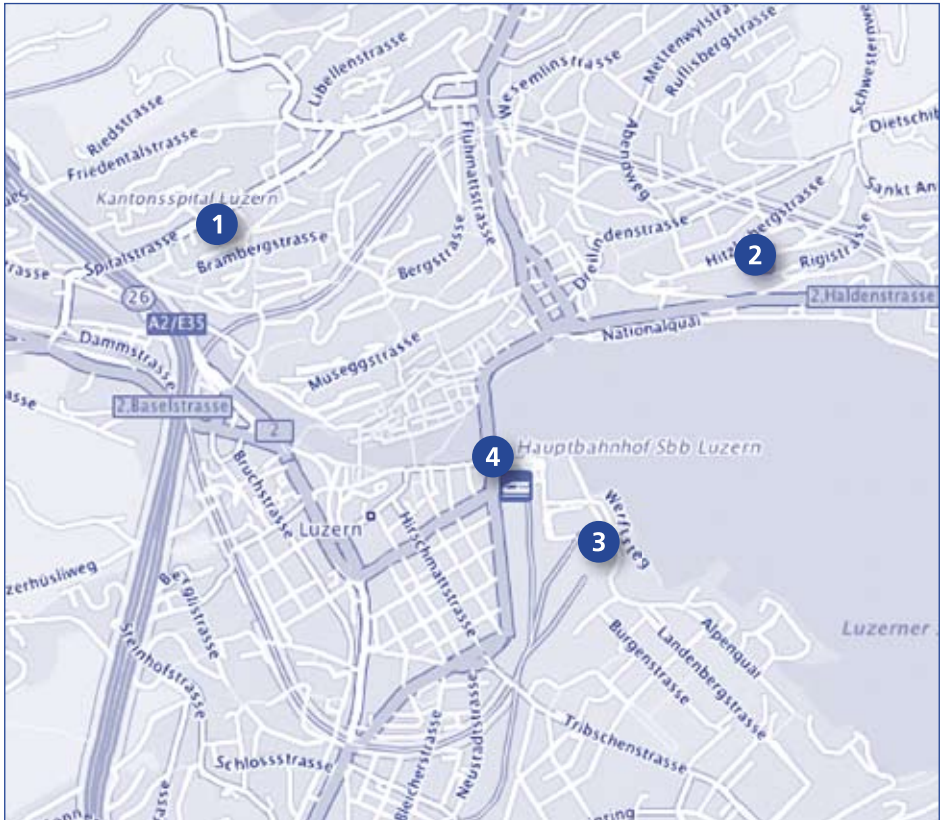
Tel. +41 41 4190000
Fax: +41 41 4190001
info@hotel-montana.ch
www.hotel-montana.ch

3. Hotel Radisson SAS Hotel

Lakefront Center
P.O. Box 4170

CH-6002 Luzern
Phone: +41 41 369 9000
Fax: +41 41 369 9011
www.luzern.radissonsas.com
info.luzerne@radissonsas.com

4. Railway Station



Transportation



Public transport

Please take bus No 18 or 19 from Lucerne central station to reach the congress venue in 10 min (get off at stop „Kantonsspital“).

Shuttle bus

There will be a free shuttle bus service offered taking you from the Hotel SAS Radisson to the congress venue and back:

Thursday, November 15

Hotel SAS Radisson 7.45 and 8.15

Kantonsspital Lucerne 20.00

Friday, November 16

Hotel SAS Radisson 7.30 and 8.00

Kantonsspital Lucerne 19.00 directly to the Hotel Montana

Kantonsspital Lucerne 19.00 to the Hotel SAS Radisson and 19.45 to the Hotel Montana

Hotel Montana 23.00 to the Hotel SAS Radisson

Saturday, November 17

Hotel SAS Radisson 7.30 and 8.00

Congress Venue

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