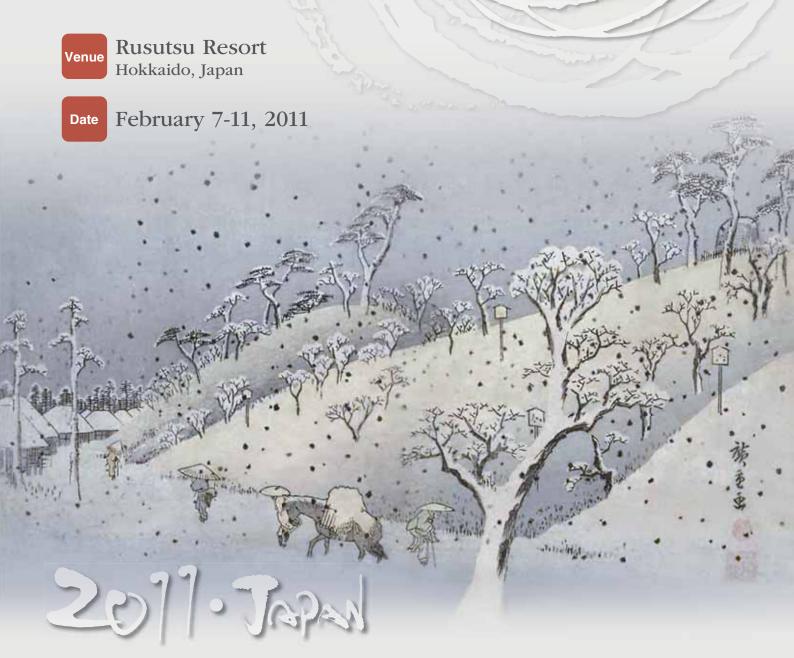
# 4th INWC & 27th Hakuba Seminar & KBTS w.m.

The 4<sup>th</sup> International Neurosurgical Winter Congress joint convention with 27<sup>th</sup> Hakuba Neurosurgical Seminar and Korean Brain Tumor Society Winter Meeting



Department of Neurosurgery, Osaka Medical College

### 4<sup>th</sup> INWC & 27<sup>th</sup> Hakuba Seminar & KBTS w.m.

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> Venue Rusutsu Resort Hokkaido, Japan

Date February 7-11, 2011

#### The 4<sup>th</sup> International Neurosurgical Winter Congress (INWC)

We are greatly honored to host the 4th INWC in Hokkaido, Japan. This congress has been held in the world-famous ski areas such as Sestriere (the 1st INWC), Zermatt (the 2nd INWC), Snowbird (the 3rd INWC), and this time, Rusutsu. The winter congress is a unique opportunity for neurosurgeons who love skiing to gather in the world's leading ski areas, learn the latest opinions, and share ideas in all areas of neurosurgery and deepen mutual relations. The congress will be held as a joint convention with the Korean Neurosurgical Brain Tumor Society and Hakuba Seminar, making it even more significant.

Rusutsu Resort is one of Japan's top ski resorts and is only 90 minutes away from the New Chitose International Airport. There are 37 diverse courses that offer something for everyone from beginners to experts, which makes this ski area the most popular ski area in Hokkaido. A spectacular scenery from the trails of East Mt., West Mt. and Mt. Isola and plenty of fresh deep powder snow is waiting for you. Additionally, at the time of the Hokkaido Toyako Summit held in July, 2008, Rusutsu Resort took part in the International Media Center hosting 4000 guests from home and abroad. Incorporating access to summit services, Rusutsu Resort has been aiming to provide Conference services at a global standard and has completely renovated its guest rooms to become a facility that is truly satisfying for all guests.

The 4th INWC will have a balanced scientific programs composed of stimulating talks and useful information for all attendees. We welcome your presentation on neurosurgical activities from throughout the world.

I hope that everyone will learn a great deal, enjoy lots of skiing, deepen international relations and have a chance to relax and create many good memories at this congress. The next congress will be held in Sochi, Russia, the venue of the 2014 Winter Olympic Games. We look forward to seeing you again in Sochi.



Toshihiko KUROIWA, M.D., Ph.D. Professor & Chair, Dept. of Neurosurgery, Osaka Medical College

#### Korean Brain Tumor Society (KBTS) Winter Meeting

As the president of Korean Brain Tumor Society, the 4<sup>th</sup> International Neurosurgical Winter Congress in Hokkaido will be one of the memorable occasions especially to the KBTS members. The reason is that we are able to participate and enjoy not only the academic meeting but also natural beauty in the winter-city of Hokkaido. The KBTS have been organized winter meeting as a sort of winter educational course over the last several years around the winter ski resort areas in Korea. We found that this kind of meeting is especially wonderful not only for the active KBTS members but also the young neurosurgeons and nurses in the field of neurooncolgy. INWC was known as the must-go meeting especially for ski-mania in the field of neurosurgery over the last several years. The KBTS is eager to have joint meeting in Hokkadio this year under strong support from professor Kuroiwa from Osaka, Japan and professor Chang-Jin Kim from Seoul, Korea. I believe that this kind of meeting will have a positive effect to all the participants' brain and body. I wish that this meeting will be marked as the start-up for the communication between KBTS and japanese colleagaues. Finally I would like to appreciate the Dr. Kuroiwa's strong commitment to organize the 4<sup>th</sup> INWC in beautiful city of Hokkaido. Happy New Year all the pariticipants!



Yong-Gu Chung, M.D., Ph.D President of KBTS Seoul, Korea

#### 27<sup>th</sup> Hakuba Neurosurgical Seminar (joint session)

Dear our friends, neurosurgeons, colleagues and their families.

Welcome to Hakuba Winter Seminar to be held in Snow Wonderland Rusutsu Resort. In addition, it is our great pleasure to have this renowned meeting with a long history with the 4th International Neurosurgical Winter Congress and Korean Brain Tumor Society Winter meeting.

Hakuba seminar has been launched 27 years ago by our respected late Professor Kenichirou Sugita. As you know, he was a distinguished neurosurgeon but he was also an expert to enjoy sports and off-duty life. He used to be not good at skiing. However, in couple years, he had become a wonderful skier. His attitude to ski and sports was exactly same to his superb work in Neurosurgery.

I believe that this Hakuba seminar is a good time to enjoy skiing and inspire the passion to on and off-duty life as a neurosurgeons. In addition, this special joint meeting can absolutely offer us an international communication between busy and active neurosurgeons, their colleagues and families.

Best Regards,



Kiyohiro Houkin, M.D. Professor and Chair Hokkaido University Graduate School of Medicine Sapporo, Japan

#### **Organization Committee**

#### **Congress President**

Toshihiko Kuroiwa

#### **Vice Presidents**

Kazuhiro Hongo Masakazu Takayasu

#### **Honorary Presidents**

Peter Black Takanori Fukushima

#### **Past Presidents**

1st INWS Alessandro Ducati 2nd INWS Helmut Bertalanffy 3rd INWS Takanori Fukushima

#### 2013 President Elect

Uwe Spetzger

#### Scientific Committee

Motohiro Arai, Atsushi Doi, Motomasa Furuse, Naokado Ikeda, Yoshinaga Kajimoto, Shinji Kawabata, Masahiro Kawanishi, Hitoshi Kobata, Terumasa Kuroiwa, Toshihiko Kuroiwa, Shin-Ichi Miyatake, Ryusuke Ogawa, Takehisa Ohmura, Hideyuki Ohnishi, Yoji Tamura, Hirokatsu Taniguchi, Yukihiro Yoshikawa

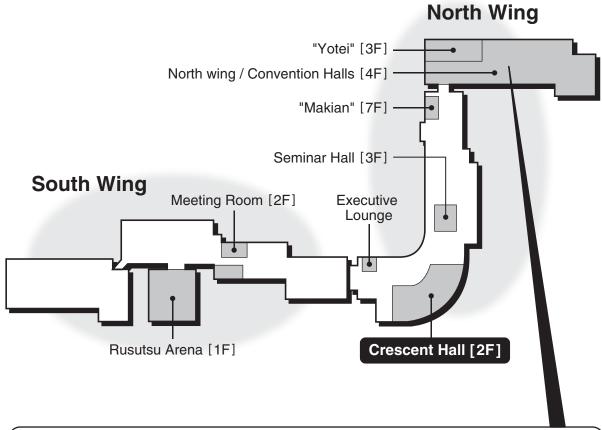
#### **Local Organizing Committee**

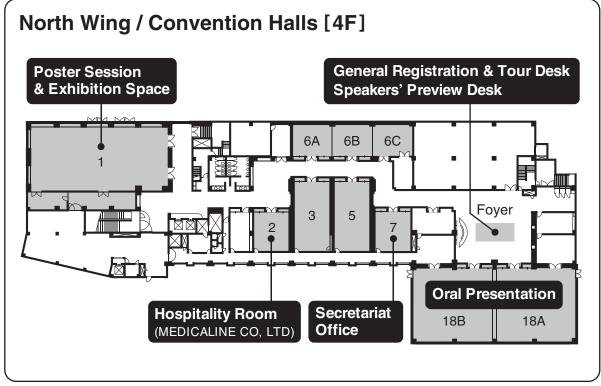
Hajime Arai (Tokyo), Isao Date (Okayama), Tomokatsu Hori (Tokyo), Kiyohiro Houkin (Sapporo), Yoshiyasu Iwai (Osaka), Hiroyasu Kamiyama (Asahikawa), Sadao Kaneko (Sapporo), Takashi Kawase (Tokyo), Jun-Ichi Kuratsu (Kumamoto), Kaoru Kurisu (Hiroshima), Tohru Matsui (Kawagoe), Kohki Matsumae (Isehara), Kenji Ohata (Osaka), Hiroki Ohkuma (Hirosaki), Hirotoshi Sano (Toyoake), Michiyasu Suzuki (Ube)

#### **Internation Organizing Committee**

Helmut Bertalanffy (Switzerland), Oliver Bozinov (Switzerland), Ketan Bulsara (USA), Yongku Chung (Korea), Alessandro Ducati (Italy), Dominique Fournier (France), Allan Friedman (USA), Roar Juul (Norway), Chang Jin Kim (Korea), Gaetano Liberti (Italy), Weidong Liu (China), Luciano Mastronardi (Italy), Tiit Mathiesen (Sweden), Jacques Morcos (USA), Christo Ranguelov (Bulgaria), Pierre Roche (France), Martin Sames (Czech Republic), Uwe Spetzger (Germany), Ulrich Sure (Germany), Alexandre Voznyak (Ukraine), Luc De Waele (Belgium), Michael Walsh (USA), Grigore Zapulih (Moldova)

#### Floor Map





#### **Meeting Information**

#### **Meeting Information**

Date February 7 ~ 11, 2011

Venue Rusutsu Resort Hotel & Convention, Rusutsu, Hokkaido, Japan

Official Language English

Official Website https://apollon.nta.co.jp/inwc2011/index.html

#### Registration and Information Desk

The Registration Desk will be located at the "Foyer" in front of the main meeting room #18 on the 4th floor of the North Wing/Convention Halls, Rusutsu Resort Hotel & Convention.

The Registration Desk will open at the following times:

February 6 (Sun) 16:00 ~ 18:00 February 7 (Mon)  $7:30 \sim 11:00, 15:30 \sim 18:00$ February 8 (Tue) 7:30 ~ 11:00, 15:30 ~ 18:00 February 9 (Wed) 7:30 ~ 11:00, 15:30 ~ 18:00 February 10 (Thu) 7:30 ~ 11:00, 15:30 ~ 18:00 February 11 (Fri) 8:00 ~ 9:30

The Registration Desk will be moved and opened in front of the Crescent Hall on the 2nd floor of the North wing, Rusutsu Resort Hotel during the meeting dinner.

For participants already registered on-line, please make sure to bring printout of the conformation of your registration.

#### On-site Registration

#### 35,000 JPY (On-site Registration)

All payments must be made in Japanese yen by cash. No other type of payment (e.g. credit card) will be accepted.

#### Name Tags

Upon your register at the Desk, you will be handled the "Name Tag" (Including Certificate of Attendance, Receipt).

The congress Name Tag must be worn at all times during the conference. Access to the congress venue or social program, meeting dinner will be strictly controlled; therefore, please wear your congress Name Tags at all times. Accompanying persons will not be allowed in the Scientific Sessions.

Invited Chairperson, speaker, committee and the council members will be also required to pick-up your Name Tag at the Registration Desk.

#### Secretariat Office

Secretariat Office will be located at the room #7 on the 4th floor, same as the main meeting area, of the North Wing/Convention Halls, Rusutsu Resort Hotel & Convention. Opening hours will be same as the hours of the Registration Desk.

#### Filming, Audio Recording, and Photographing

Filming, audio recording, or photographing scientific sessions will be prohibited (except with specific permission of the INWC). The INWC will reserve the right to video all presentations of the 4th INWC 2011.

#### **Cellular Phones**

Using cellular phones while in the lecture halls will be prohibited, and cellular phones must be turned off or set to manner (silent) mode at all times while in the venue.

#### Message Forwarding

Any calls and messages received during the congress will not be forwarded directly to you. For messages, both to and from, please use the message boards situated at the "Foyer" outside of the main meeting room #18 next to the Registration Desk.

#### Hotel Check-In/Out

Check-In/Out process of the Rusutsu Resort Hotel is separated from meeting registration. If you have any questions, require additional information or assistance, please ask to the Nippon Travel Agency.

#### Before the congress;

West Event and Convention Branch, Nippon Travel Agency Co., Ltd.

2-4-24 Shibata, Kita-Ku, Osaka 530-8341, JAPAN

Phone: +81-6-6376-6450, Fax: +81-6-6376-6465

E-mail: kansai\_gakkai@nta.co.jp

In charge: Yoshitaka Nakatani (Mr.) / Nanae Imada (Ms.)

Office Hours: Mon-Fri 9:30-17:30 Japan Time

\*Closed on Japan public holidays.

#### During the congress;

Tour Desk (Nippon Travel Agency Co., Ltd.)

Tour Desk will be located next to the Registration Desk at the "Foyer" outside of the main meeting room #18 on the 4th floor of the North Wing/Convention Halls, Rusutsu Resort Hotel & Convention.

#### Safety, Security, and Insurance

Please do NOT leave bags unattended at any time, whether inside or outside session. Hotels strongly recommended that you use their safety deposit boxes for your valuables.

The congress secretariat and organizers cannot accept liability for personal accidents or loss of or damage to private property of participants, students and accompanying persons, either during or indirectly arising from the  $4^{\text{th}}$  INWC. Participants should make their own arrangements with respect to health and travel insurance.

#### Meeting Secretariat:

Shin-Ichi Miyatake, Yoshinaga Kajimoto, Yoji Tamura, Motomasa Furuse, Naokado Ikeda, Yoko Takekita, Taro Yamashita, Kenkichi Takahashi, Ryo Hiramatsu, Ryokichi Yagi, Yuki Hirota, Takashi Yoneda, Erina Yoritsune

#### Meeting Assistant:

Mai Kinoshita, Yasuko Oide, Eriko Sugane

#### Secretary General:

Shinji Kawabata

Department of Neurosurgery, Osaka Medical College

2-7 Diagaku-machi, Takatsuki, Osaka, 569-8686 JAPAN

Phone: +81-72-683-1221 (Ext:2383), Fax: +81-72-683-4064

E-mail: neu-omc@art.osaka-med.ac.jp

#### Supported by

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Raleigh, NC 27609, USA

Phone: +01-919-239-0264, Fax: +01-919-239-0266

E-meil: inerf@carolinaneuroscience.com HP: www.carolinaneuroscience.com

#### **Instructions for presentation**

#### **Instructions for Oral Presentation**

All speakers are kindly requested to strictly observe the allotted presentation time.

Keynote Lecture: 18 min (15 min presentation and 3 min discussion) Oral presentation: 10 min (8 min presentation and 2 min discussion)

#### For Chairpersons

Chairpersons are asked to remain within the time allotted for the session and each presentation. Please take the next chairperson's seat before the beginning of your session.

#### For Oral Presenters

Oral presentations can only be made with Windows PCs (single screen only). Slide projectors are not available.

Macintosh format is NOT applicable for USB flash memory or CD-ROM users. Please bring your own laptop PC and suitable connecter (D-sub 15 pin (mini)) to the monitor, AC adapter (connectable in Japan, 100V / A2 type connection). If your presentation includes movies or sounds, we also recommend bring your own laptop PC.

Please visit the Speakers' Preview Desk, no later than 30min prior to your presentation in order to preview and submit your presentation file.

#### Speakers' Preview Desk

Please register your presentation data only at the Speakers' Preview Desk will be located at the "Foyer" in front of the main meeting room #18.

#### Preview & Registration:

```
February 7 (Mon)
                     7:30 ~ 10:30, 15:30 ~ 18:00
February 8 (Tue)
                     7:30 ~ 10:30, 15:30 ~ 18:00
February 9 (Wed)
                     7:30 ~ 10:30, 15:30 ~ 18:00
February 10 (Thu)
                     7:30 ~ 10:30, 15:30 ~ 18:00
February 11 (Fri)
                     8:00 ~ 9:30
```

Please note you will be unable to modify your data in the presentation room.

There are two types of presenters; (1) using self-owned laptop and (2) using USB or CD-R. Please read the instructions carefully that applies to you.

#### (1) For presenters using your own laptop PC

Please confirm that your own PC is connected to the preview monitor properly. Please provide your own AC adapter (connectable in Japan, 100V / A2 type connection) and connecter to the monitor. Only **D-sub 15 pin (mini)** connecter is provided at the Speakers' Preview Desk. If your presentation includes movies or sounds, please notify the staff. The operator will keep your computer and check the connection. After your presentation is over, please come to the Operation Desk to pick up your computer. Please turn off your screen-saver, power saving function and unset the password.

#### (2) For presenters using USB flash memory or CD-ROM

Presentations can only be given, using data stored on a USB flash memory drive or CD-ROM. In case of writing onto a CD-R, please use only the hybrid format (ISO9660) due to using special functions such as "Packet Write" may cause your data to be illegible.

#### Instructions for Saving Your Data

File format: Files must be in Windows PowerPoint 2003 or 2007.

Fonts (Typefaces): To avoid display problems with your presentation, use only standard OS fonts.

File Management: Maximum 512 MB is allowed for oral presentations. All data files should be in one folder, including any reference files such as video images. To avoid the possible spread of computer viruses, always scan your presentation files beforehand with updated anti-virus software. After saving your presentation file on the appropriate medium, run a test on another PC to make sure it works normally.

Your data will be copied into our network server at Speakers' Preview Desk and the PC at the Operation Desk of conference room, however your copied data will be erased after the congress is finished.

Please have a backup copy of your data ready in case there is any problem with your presentation data.

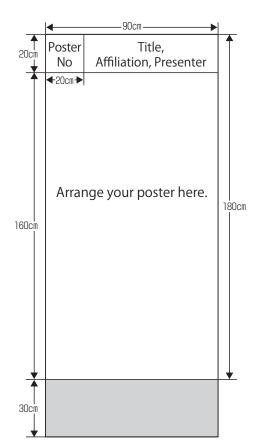
Please take the next speaker's seat during the presentation up to 20 minutes prior to your own presentation.

#### Instructions for Poster Presentation

Poster presentation will be exhibited in the Poster Session Area will be located at the Poster & Exhibition Space, room #1, on the 4th floor of the North Wing/Convention Halls, Rusutsu Resort Hotel & Convention.

#### For Poster Presenters

Posters will be shown and discuss during the congress. Posting and removal times are scheduled from 7th 7:50am to 11th 10:00am. Note that any posters remaining over the removal time will be disposed of by the secretariat. The size of the panel is  $160 \times 90$  cm. The Presentation number will be provided in advance. The presenter must prepare the title for the panel.



#### **Social program**

#### February 6-11, 2011

Please ask about the details to the Tour Desk will be located next to the Registration Desk at the "Foyer" outside of the main meeting room #18 on the 4th floor of the North Wing/Convention Halls, Rusutsu Resort Hotel & Convention.

#### **Daily Breakfast**

It is NOT included in expense of meeting Registration fee. The breakfast charge is sure to be included in the room charge in those who stay the Rusutsu Resort hotel.

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(North & South wing)
"Oktober Fest" (Buffet, 7:00-9:00), "Costa Terrazza" (Western, 8:00-10:00),
"Sekkatei" (Japanese, 7:00-10:00)
(Rusutsu Tower)
"Atrium" (Buffet, 7:00-10:00), "Kazahana" (Buffet, 7:00-10:00)
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#### **Nightly Dinner**

Crescent Hall on the 2nd floor of the North wing, Rusutsu Resort Hotel

#### **Daily Social Events**

Sunday, February 6, 2011 Welcome drink and snack	19:30 ~ 21:30	Crescent Hall
Monday, February 7, 2011 Opening reception dinner	18:30 ~ 21:00	Crescent Hall
Tuesday, February 8, 2011 Buffet dinner	18:30 ~ 20:30	Crescent Hall
Wednesday, February 9, 2011 Buffet dinner	18:30 ~ 20:30	Crescent Hall
Thursday, February 10, 2011 Farewell party	18:30 ~ 21:30	Crescent Hall

#### Schedule

	Feb. 6	Feb. 7	Feb. 8	Feb. 9	Feb. 10	Feb.11
	SUN	MON	TUE	WED	THU	FRI
Morning		INWC	INWC	INWC	INWC	INWC with KBTS
Daytime		Poster viewing Free (Ski)	Poster viewing Free (Ski)	Poster viewing Free (Ski)	Poster viewing Free (Ski Race)	Free (Ski)
Evening		INWC	INWC	INWC	INWC with Hakuba seminar	Hakuba seminar
Night	Welcome drink and snack	Opening reception	Dinner (buffet)	Dinner (buffet)	Farewell party	
Rgistration	Evening~	~	~	~	~	~Morning
Exhibitor		Morning~	~	~	~	~Morning

INWC: International Neurosurgical Winter Congress,

**KBTS:** Korean Brain Tumor Society

#### **Program**

7th (N	lon.) a.m.	
8:00		Welcome message Toshihiko Kuroiwa President, the 4th International Neurosurgical Winter Congress Professor & Chair, Dept. of Neurosurgery, Osaka Medical College, Osaka, Japan
		Chairpersons; Alessandro Ducati, Kaoru Kurisu, Grigore Zapuhlih
8:05	KL-07-01	Surgical based treatment for brain metastases: An interdisciplinary experience at the University of Torino  Alessandro Ducati
8:23	KL-07-02	University of Torino, Torino, Italy  Microscopic and endoscopic removal of pituitary adenoma and craniopharyngioma via transnasal or transcranial route – their tactics in the maneuver –  Kaoru Kurisu  Department of Neurosurgery, Hiroshima University Hospital, Hiroshima, Japan
8:41	KL-07-03	Surgical treatment of pituitary macroadenomas by transnazal and supraorbital approaches  Grigore Zapuhlih  Department of Neurosurgery, Institute of Neurology and Neurosurgery, Chisinau, Republic of Moldova
8:59	0-07-01	Recent advancement of extended endoscopic endonasal transsphenoidal approach for skull base lesion  Shigetoshi Yano Department of Neurosurgery, Kumamoto University Graduate School, Kumamoto, Japan
9:09	0-07-02	Epidural lateral approach through the C1-C2 interval space to a lower clival chordoma Naoshi Hagihara Department of Neurosurgery, Saga University, Saga, Japan
9:19	0-07-03	Brain metastasis from urotherial carcinoma of the bladder(micropapillary variant): A case report  Aya Kanno  Department of Neurosurgery, Sapporo Medical University, Sapporo, Japan
9:29	0-07-04	The functional diffusion map (fDM) analysis of glioblastoma patients treated with boron neutron capture therapy  Ryo Hiramatsu  Department of Neurosurgery, Osaka Medical College, Takatsuki, Osaka, Japan
9:39	0-07-05	A case of epidermoid enlarged repeatedly in a short period  Atsushi Doi  Department of Neurosurgery, Tesseikai Neurosurgical Hospital, Osaka, Japan
9:49	0-07-06	The advantage of the layer by layer muscular dissection during the lateral suboccipital approach  Kosumo Noda  Dohtoh Nerurosurgical Hospital, Hokkaido, Japan
9:59	0-07-07	Pineal cyst – patient selection and results  Tiit Mathiesen  Department of Neurosurgery, Karolinska Hospital, 171 76 Stockholm, Sweden

7th (N	Non.) p.m.	
		Chairpersons; Michiyasu Suzuki, Masakazu Takayasu, Hideyuki Ohnishi
16:00	KL-07-04	Continuing education revisit  Michiyasu Suzuki  Department of Neurosurgery, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan
16:18	KL-07-05	Surgery for the aneurysm of the internal carotid artery: How to preserve arterial branches and perforating arteries  Kazuhiro Hongo  Department of Neurosurgery, Shinshu University School of Medicine, Matsumoto, Japan
16:36	KL-07-06	Surgical management of the anterior choroidal artery aneurysms: Classification and surgical techniques based on morphological features  Hideyuki Ohnishi  Department of Neurosurgery, Ohnishi Neurological Center, Akashi, Japan
16:54	0-07-08	High flow bypass with superficial temporal artery-middle cerebral artery bypass for unclippable internal carotid artery aneurysms  Makoto Katsuno Abashiri Neurosurgical and Rehabilitation Hospital, Abashiri, Hokkaido, Japan
17:04	0-07-09	A case of ruptured aneurysm of fenestrated vertebral artery union Atsushi Doi Department of Neurosurgery, Tesseikai Neurosurgical Hospital, Osaka, Japan
17:14	0-07-10	Transient adenosine-induced asystole during the surgical treatment of anterior circulation cerebral aneurysms  Ali Zomorodi  Department of Neurosurgery, Duke University Medical Center, Durham, NC, USA
17:24	0-07-11	Obstructive hydrocephalus due to an unruptured pineal atriovenous malformation treated by endoscopic third ventriculostomy  Adam Tucker  Department of Neurosurgery, Nishinomiya Kyoritsu Neurosurgical Hospital, Nishinomiya, Japan
17:34	0-07-12	Progress of surgical simulation for AVM using multidetector row CT Takeshi Mikami Department of Neurosurgery, Sapporo Medical University, Sapporo, Japan
17:44	0-07-13	Role, usefulness and limitation of intraoperative MEP monitoring and mapping in vascular surgeries in and around eloquent areas  Kunihiko Kodama  Department of Neurosurgery, Shinshu University School of Medicine, Matsumoto, Japan
17:54	0-07-14	Neurological outcome following anatomically eloquent area resection: Evaluation by resection frequency map of non-lesional neocortical epilepsy  Chun Kee Chung  Department of Neurosurgery, Seoul National University College of Medicine, Seoul National University Hospital, Seoul, Republic of Korea
		Opening recention

18:30

Opening reception

### **SPECIAL LECTURE**

#### Special lecture



Name: Peter McLaren Black, M.D., Ph.D.

#### Office Address:

Department of Neurosurgery Brigham & Women's Hospital 75 Francis Street Boston, MA 02115

Place of Birth: Canada

Citizenship: USA

#### **Academic Appointments:**

1980-1984	Assistant Professor of Surgery, Harvard Medical School
1984-1987	Associate Professor of Surgery, Harvard Medical School
1987-	Franc D. Ingraham Professor of Neurosurgery, Harvard Medical School

#### Hospital and Health Care Organization Responsibilities and Other Major Professional Positions and Major Visiting Appointments:

eutenant, Medical Corps, United States aval Reserve, assigned to the Regional aval Medical Center, Washington DC
eutenant, Medical Corps, United States aval Reserve, assigned to the Attending hysician's Office, United States Capitol, Vashington DC. onorable Discharge as Lieutenant ommander in 1974
ssistant in Neurosurgery, Massachusetts eneral Hospital
ssistant Visiting Neurosurgeon, assachusetts General Hospital
ssociate Visiting Neurosurgeon, assachusetts General Hospital
onsultant in Neurosurgery, Youville ospital, Cambridge MA
eurosurgeon-in-Chief, Brigham & Women' ospital
eurosurgeon-in-Chief, Children's Hospital:
nair, Department of Neurosurgery, hildren's Hospital
nief of Neurosurgical Oncology, Dana- arber Cancer Institute

1987-1992	Visiting Neurosurgeon, Massachusetts General Hospital
1992-2005	Consultant in Neurosurgery, Massachusetts General Hospital
1994-1998	Chair, Department of Surgery, Children's Hospital
1998-	Senior Surgeon to the Active Staff, Brigham and Women's Hospital
2000-2007	Chair, Department of Neurosurgery, Brigham and Women's Hospital
2007-	Founding Chair, Department of Neurosurgery, Brigham and Women's Hospital

#### **Major Committee Assignments:**

International,	National	and Regional:
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International, N	ational and Regional:
1981	Consultant to the President's Commission for the Study of Ethical Problems in Medicine and Biomedical and Behavioral Research
1986, 1991	Special Reviewer, National Institutes of Mental Health and National Institute of Neurological Disorder and Stroke Study Sections
1988-1991	Neurosurgical Subcommittee, Radiation Therapy Oncology Group
1989-	Medical Advisory Board, Brain Tumor Society
1991-2001	Chairman of the Executive Board, Brain Tumor Center, Brigham & Women's Hospital, Children's Hospital, Dana-Farber Cancer Institute and Harvard University
1995	Co-Director, Ninth Annual Symposium on Tumor Research and Therapy, Tokyo, Japan
1996-	Education Committee, World Federation of Neurosurgical Societies
1997	Co-Director, AACR Special Conference in Cancer Research, Cancer of the Nervous System San Diego
1997-	Neuro-Oncology Committee, World Federation of Neurosurgical Societies
1997-	Federation News Committee, World Federation of Neurosurgical Societies
1999-	Medical Advisory Board, McDonnell Foundation
2001	International Advisory Committee, American Association of Neurological Surgeons
2001-	Chair, Bylaws Committee, World Federation of Neurosurgical Societies
2005-	Executive Board, Brain Science Foundation
2007-	AACR Grants Committee-sub committee for Brain Tumor Research
2009-	President, World Federation of Neurosurgical Societies
2008	President, 6 <sup>th</sup> International Congress on Meningioma and Cerebral Venous System, Boston, MA

2008	President, International Meningioma Society	2008	Partners in Excellence Award, Partners HealthCare	
		2008	Patient's Choice Award	
<b>Editorial Board</b>	s:	2009	Patient's Choice Award	
1987-1990	Editor-in-Chief, Clinical Neurosurgery			
1987-	Ad Hoc Reviewer, <i>The New England Journal of Medicine</i>	Report of Research:		
1993-	Editorial Board, <i>Critical Reviews of</i> Neurosurgery	Major Research Interests:  1. Brain tumor biology and treatment 2. Brain imaging and image-guided surgery 3. Cerebrospinal fluid physiology and hydrocephalus		
1993-	Associate Editor, Journal of Neuro-Oncology		scription of Research	
1994- 1994-	Chairman, Editorial Board, Neurosurgery Editorial Board, Techniques in Neurosurgery	I co-direct	a molecular biology brain tumor laboratory	
1994-1998	Editorial Committee, Journal of Neurology, Neurosurgery, and Psychiatry	angiogenio	-10 members and attempts to use anti- c therapy, blockade of receptor mechanisms understanding of the cell cycle to stop	
1994-1998	Editorial Board, <i>Child's Nervous System</i>		wth. It is committed to using human	
1997	International Advisory Board, <i>Brain Tumor Pathology, Japan</i>	brain tumo brain and	or tissue to try to find new treatments for pituitary tumors. I also have an extensive	
1998	Topic Editor, Neurosurgical Focus Ad Hoc Reviewer, <i>Annals of Neurology</i>	hydroceph	search program in brain tumors and in nalus: through improved imaging, 3D- ction, intraoperative MRI, and cortical	
1999-	Editorial Board, <i>Journal of Clinical</i> Neuroscience	mapping I	try to understand brain function better and vasive, more effective surgery.	
2000-	Hoc Reviewer, Cancer			
2000-	Ad Hoc Reviewer, Journal of Gene Medicine	-	al and Hospital Service Responsibilities:	
2001-	Editorial Board, Türk Nöroşirürji Dergisi	1980-1987	Neurosurgical attending, Massachusetts General Hospital	
2007-	International reviewer, Turkish Neurosurgery	July 1987-	Director, Brain Tumor Clinic, Brigham &	
2008-	Editorial Board, Journal of Oncology	July 1307-	Women's Hospital	
2008-	Editorial Board, Journal of Clinical Neuroscience	July 1987-20	-	
2008-	Editorial Board, Journal of Hydrocephalus	July 1987-20	-	
2009-	Board of Trustees, Egyptian Journal of Neurosurgery		Hospital	
2009-	Advisory Board, World Neurosurgery	July 1987-20	OO7 Chief of Neurosurgical Oncology, Dana- Farber Cancer Institute	
Awards:		Major Adminis	trative Responsibilities:	
1960	Associate of the Royal Conservatory of Toronto, Solo Performer, Piano		Director, Residency Program in Neurosurgery, Children's Hospital and	
1964-1966	University Scholarship, Harvard College		Brigham & Women's Hospital	
1968-1970	University Scholarship, McGill University	1987-2004	Chair, Department of Neurosurgery,	
1970	J. Francis Williams Prize in Medicine, McGill University	1991-	Children's Hospital Co-Director Annual Harvard Post-Graduate	
1973-1978	Teacher-Investigator Award, NINDS		Course, "Tumors of the Central Nervous	
1988	Fellowship of the American College of Surgeons	1992-1995	System"  Co-Director, Annual International	
1993-	Best Doctors in America		Symposium, "Growth Control in Central Nervous System Tumor"	
1995	Distinguished Service Award, Joint Section on Tumors, American Association of Neurological Surgeons and Congress of Neurological Surgeons	1992-1998	Chair, Executive Board, Brain Tumor Center, Dana-Farber Cancer Institute, Children's Hospital, Brigham & Women's Hospital, Joint Center for Radiation Therapy.	
1998	Dennis Thomson Compassionate Care Scholar, Brigham and Women's Hospital	1994-1998	Chair, Dept. of Surgery, Children's Hospital	
2000-	Top Doctors	2000-2007	Chair, Department of Neurosurgery, Brigham and Women's Hospital	
2004	Pioneer Award, Children's Brain Tumor Foundation		Digitali and women's Hospital	
2005	ROFEH International Humanitarian Award			
2006	Bucy Award			
2007	Charles Wilson Award, AANS/CNS Section on Tumors			

#### New developments in brain tumor surgery

Peter M. Black

President, World Federation of Neurosurgical Societies Franc D. Ingraham Professor of Neurosurgery, Harvard Medical School, Boston, MA, USA

Thirty years ago the capacity of microsurgery changed our approach to many neurosurgical lesions, especially at the skull base. We are now in an imaging revolution that is changing neurosurgery yet again. We are now able to assess clearly the margins and volume of a tumor, its metabolic activities through PET scanning and its nature through such MR sequences as DWI and perfusion imaging. We can apply these techniques for pre-surgical planning. We are able to do segmentation of the tumor, functional MR to test for areas around the tumors that are active and MR diffusion tensor imaging to establish the fiber tracks that surround the tumor. This information can be taken into a navigational system using several of the presently available systems to use in the operating room. Navigation systems are important to localize meningiomas or metastases of the convexity, to help with skull base meningioma surgery and to do biopsies of larger lesions. The most advanced application of these imaging techniques is to use them during surgery itself and intraoperative imaging now has become a very important aspect of tumor management, especially for intrinsic tumors. For low-grade gliomas, pituitary adenomas, deep metastases, or biopsies of small lesions and lesions in small areas, intraoperative imaging is particularly useful. The instruments used to do this vary from those which the MR is brought into the operative field (IMRIS system or ODIN system) to those in which the table is brought into the magnet, the SIEMENS system or the Phillips system; or finally those in which the surgery is done within the magnet, the GE Signa system. Our own experience with the GE Signa system includes over 900 tumor craniotomies, primarily low-grade gliomas: metastases, pituitary tumors, higher grade gliomas and recurrent gliomas are important entities as well. We have found that it has been extremely useful in resecting these and that in turn has changed the natural history in patients in whom such resection can be done safely. Finally there are new systems for using intraoperative imaging for glioma resection - laser hyperthermia and focused ultrasound are examples.

### **ABSTRACTS**

KEYNOTE LECTURE (KL)
ORAL PRESENTATION (O)
POSTER PRESENTATION (P)

#### Surgical based treatment for brain metastases: An interdisciplinary KL-07-01 experience at the University of Torino

Alessandro Ducati University of Torino, Torino, Italy

The increased number of brain metasteses is due to several factors (length of servival of cancer patients, controverse effects of chemiotherapy). Surgery has proven to be the most effective treatment, when possible, particularly if associated with radio and chemiotherapy. Factors favorable for metastases surgical resection are young age of patients (<65y), KPS > 70, symptomatic large tumour, surgical accessibility and absence of leptomeningeal diffuse involvement. The main advantages of surgical treatment are immediate and long lasting relief of symptoms and the possibility of local chemiotherapy (carmustine). Even though one third only of patients present with a single metastasis, surgical removal is possible for oligometastases as well (up to 3), in selected patients, provided that KPS >70.

The examen of Torino Cancer Registry (around one million inhabitants) demonstrate an increasing length of survival for cancer patients, and confirm that the largest number of observed brain metastases comes from lung cancer, followed by breast, melanoma, colon and renal cell cancer. However, the percentage of patients with brain met of the single primary tumour is different: 25% for lung, 5.1 for breast, 6.9 for melanoma, 1.8 for colon, 6.5 for renal K.

As for surgical treatment, navigation is recommended, as well as en bloc removal, when possible, to avoid leptomeningeal seeding. The implant of BCNU wafers is a useful adjunct to resection. A good cooperation with oncologists led u sto increase the number of observed metastases, and to increase the percentage of operated ones, obtaining a significant increase of survival.

#### KL-07-02

#### Microscopic and endoscopic removal of pituitary adenoma and craniopharyngioma via transnasal or transcranial route – their tactics in the maneuver -

Kaoru Kurisu, Atsushi Tominaga, Yasuyuki Kinoshita, Satoshi Usui, Tetsuhiko Sakoguchi, Kazuhiko Sugiyama

Department of Neurosurgery, Hiroshima University Hospital, Hiroshima, Japan

We have no objection to the doctrine that micro-neurosurgery under operating microscope is crucial to the basis of neurosurgery. But in recent years, endoscopic microneurosurgery has been spreading dramatically and very speedily. Especially in the field of skull base surgery, transnasal endoscopic approach could be applied from anterior frontal base to craniocervical junction in the most advanced state. We also have steadily expanded the indication of endoscopic approach with microscope in safe and accurate fashion. In this presentation, we will show our present status of microscopic and endoscopic removal of pituitary adenoma and craniopharyngioma via transnasal and/or transcranial route. And also we would like to emphasize the benefit of combined use.

#### Rusutsu Resort 2010-2011 Winter







Items	Valid	Adult	Child	Senior
1 day	09:00-21:00	5,100 yen	2,550 yen	4,300 yen
4 Hour Ticket		3,800 yen	1,900 yen	3,300 yen
6 Hour Ticket		4,300 yen	2,150 yen	3,800 yen
Night	Open-28Feb10 / 16:00-21:00	2,000 yen	1,000 yen	1,700 yen
Ivigit	01Mar10-31Mar10 / 16:00-20:00	1,800 yen	900 yen	1,400 yen
2 days	Day 1 09:00-21:00 Day 2 09:00-17:00	9,400 yen	4,700 yen	7,600 yen
3 days	Day 1-2 09:00-21:00 Day 3 09:00-17:00	13,800 yen	6,900 yen	11,200 yen
4 days	Day 1-3 09:00-21:00 Day 4 09:00-17:00	18,000 yen	9,000 yen	14,400 yen
5 days	Day 1-4 09:00-21:00 Day 5 09:00-17:00	22,000 yen	11,000 yen	17,400 yen
6 days	Day 1-5 09:00-21:00 Day 6 09:00-17:00	26,000 yen	13,000 yen	20,800 yen
7 days	Day 1-6 09:00-21:00 Day 7 09:00-17:00	30,000 yen	15,000 yen	24,000 yen

- Child 4-12 years old, Senior 60 years and over
- Once issued, non refundable.
- The operation of gondolas and lifts are subject to weather conditions.

#### Ski/Snowboard Rentals



Items	Equipment		Wear		Full Set			
	A choice of		Parka and Pants		A choice of			
	Skis, Boots and	Poles			Skis, Boots and Poles			
	or Snowboard a	nd Boots		or Snowboard and Boots		nd Boots		
	or Snow Scoot					or Snow Scoot		
						nts		
					& Goggles, Glo	ves		
					and Cap			
Rental Period	Adult	Child/Senior	Adult	Child/Senior	Adult	Child/Senior		
Half day	3,700 yen	2,600 yen	2,600 yen	2,100 yen	8,800 yen	6,300 yen		
Full day	4,700 yen	3,700 yen	3,200 yen	2,600 yen	11,000 yen	8,800 yen		
2 days	8,500 yen	6,600 yen	5,700 yen	4,700 yen	17,600 yen	14,100 yen		
3 days	12,100 yen	9,300 yen	8,100 yen	6,700 yen	24,900 yen	19,800 yen		
4 days	15,200 yen	11,800 yen	10,100 yen	8,400 yen	31,600 yen	25,400 yen		
5 days	17,900 yen	13,800 yen	11,900 yen	9,900 yen	36,900 yen	29,500 yen		
6 days	20,000 yen	15,400 yen	13,500 yen	11,000 yen	41,100 yen	33,200 yen		
7 days	22,100 yen	17,000 yen	15,100 yen	12,100 yen	45,300 yen	36,900 yen		

- Half day (08:15-13:00, 12:00-17:00, 16:00-21:00); Full day (08:15-21:00)
- Child 4-12 years old, Senior 60 years and over

### Learn to Ski with English Speaking Instructors

Private Ski/Snowboard Lesson	No. of Participants	2 hours	4 hours
Prices are per instructor.	1	16,800 yen	28,400 yen
AM 10:00-12:00; PM 13:30-15:30	2-5	21,000 yen	31,500 yen
	6-8	23,100 yen	34,700 yen

- 2 hours, AM 2 hours or PM 2 hours, 4 hours, AM 2 hours & PM 2 hours
- Reservation required, subject to availability. Parents are required to pick up their kids after the lesson.

Kid's Private Ski Lesson	No. of Participants	2 hours	4 hours
Eligibility 4-6 years old			
AM 10:00-12:00	1	9,500 yen	16,800 yen
PM 13:30-15:30		-	

- 2 hours, AM 2 hours or PM 2 hours; 4 hours, AM 2 hours & PM 2 hours
- Prices are per person. Reservation required, subject to availability. Parents are required to pick up their kids after the lesson.

Kid's Private Snowboard Lesson	No. of Participants	2 hours	4 hours
Eligibility 4-6 years old			
AM 10:00-12:00	1	9,500 yen	16,800 yen
PM 13:30-15:30			

- 2 hours, AM 2 hours or PM 2 hours; 4 hours, AM 2 hours & PM 2 hours
- Prices are per person. Reservation required, subject to availability. Parents are required to pick up their kids after the lesson.

# 2010 - 2011 Winter Activities Guide Rusutsu Resort

### Outdoo



Around 3 hrs [Adult] ¥5,250 [ages 7-12] ¥3,675 [ B Tour] ① 8:30~ ② 12:45~  $\blacksquare$  Time[ A Tour] ① 9:30  $\sim$  ② 13:30  $\sim$ Winter Toya Tour

Work together with your family to create a giant igloo!

Participants: 2 or more
 B Tour is subject to change for without showshoes

Reservation required (until 5pm the day before)

■ Time [ A course] ① 9:30~ ② 10:30~ ③ 13:30~ ④ 14:30~ [ B course] ① 9:00~ ① 13:30~

• Participants: 2 or more • Reservations required (until 5pm the day before)

Enjoy orienteering at Rusutsu, a place for the first time where World championship is held outside Europe! Snowfield Orienteering

[Snowshoes]¥3,150 Includes equipment rental [Cross-country ski] ¥5,250 Includes equipment rental ■ Time ① 9:30 $\sim$  ② 10:30 $\sim$  ③ 13:30 $\sim$  ④ 14:30 $\sim$ 

Participants: 2 or more
 Ages 11 or older
 Reservations required (until 5pm the day before)

# Experience life in the 'Northern Land' by riding in a Husky pulled sled. Mid Dec to late Mar Location: Lumipuisto

15-20 mins including lecture [Adult] ¥3,675 [ages 4-12] ¥2,625 ■Time 9:30~15:00

The program may be delayed or canceled due to bad weather, condition of dogs or other

Closed every Wednesday
 Reservation required (until 5pm the day before)

Mid Dec to mid March Rusutsu Tower grounds These light-weight, easy to use skis give you a fun, full-body workout on snow covered field or weaving through the woods. Cross-country Skiing

¥5,250 ■ Time ① 9:30~ ② 10:30~ ③ 13:30~ ④ 14:30~ Fitness Ski Lesson

Participants: 2 or more

Price includes equipment rental

Child must be accompanied by a quardian

Reservation required (until 5pm the day before)

# Feel the fresh powder snow by touring around in snowshoes! Mid Dec to late Mar

¥5,250 ■ Rusutsu Tower grounds etc. ¥2,100 ■ Rusutsu Tower grounds etc. [A Course] ① 9:30~ ② 13:30~ [B Course] 7:00~ 2-2.5 hrs. B Trekking in the morning 1 hr. Snowshoes downhill

Participants: 2 or more Ages 13 or older for A Tour Price includes equipment rental
 Reservation required (until 5pm the day before)

Have a thrilling winter ride on a rubber raft. Snow Rafting

5-10 mins [ Adult ] ¥2,100 [ages 4-12 ] ¥1,575 ■ Time 9:00~16:00

Price includes equipment rental
 Reservation possible
 Closed every Wednesday

■ Year round ■ Rusutsu Resort Make handmade cheese using fresh milk from the farm. Cheese Making

Participants: 2 or more
 Reservations required (until 5pm the day before)

1-1.5 hrs \\$3,150

¥2,100

#2,100 : Key Chain

¥3,150~

Coin case

¥2,625

■ Duration: 0.5-1 hr (depends on items)

¥1,575 : Bracelet

Phone Strap

■ Year round ■ Rusutsu Resort

Make your own original creations

Indoor

Make Fresh Caramel by using Hokkaido's fresh milk and fresh cream.

• Participants: 2 or more • Reservations required (until 5pm the day before) 1.5-2 hrs

Create an original work by fusing together glass chips at high temperatures

¥1,575

Millefiori accessory ¥3,150
■ Duration: 1-2 hrs (depends on items)
● Delivery charge required (not able to pick up on the day)

Year round Rusutsu Resort

¥2,100

■ Year round ■ Rusutsu Resort Ice cream making with Hokkaido's fresh milk Around 40 min ¥1,575

Participants: 2 or more
 Reservations required (until 5pm the day before)

Potato Cake Makinc

Wooden Nameplate ¥2,100

¥2,100 ;

**¥2,625** : Candle Craft

Woolen Felt Art

¥2,100

My Chopsticks

Duration: 1.5-2 hrs

Year round Rusutsu Resort

Make your own unique hand-made crafts.

Make Hokkaido's traditional dish using potatoes harvested this fall. 1-1.5 hrs \\$2,625

• Participants: 2 or more • Reservations required (until 5pm the day before)

### LumiPuisto 0

# Mid Dec to late Mar Location: Lumipuisto Snowmobile

An instructor will help beginners.

¥2,100	¥4,200	¥8,400	¥8,400
[ages 7+]	[ages 13+]	[ages 16+]	[ages 16+]
Around 5 mins	Around 20 mins	Around 50 mins	Around 50 mins
A Beginner Course	B Touring Course	c Long Touring Course	D Adventage Course

■ Time 9:00~16:00 ■ Reservation required for B-D courses. ● Prices are per snowmobile.

Travel in a rubber raft for an exciting ride in the snow. Small children can also enjoy slower paced rides.

¥1,050

[ages 4-12]

20 min [ Adult ] \\ \pm 2,100

Sightseeing Course

Lake Toya Ranch (Free transport Mid Dec to mid Mar Horseback Riding ■ Time 9:00~16:00 ■ Reservation required

Enjoy a beautiful wintertime view of Lake Toya while trekking on horseback Around 30 mins (including traveling time around 2 hrs)

[Winter Course ] \$5,250 Time ① 9:45 $\sim$  ② 13:45 $\sim$ 

 Participants: 2 or more
 Reservations required (until 5pm the day before) There is a height requirement of 140 cm or above

Bridled riding for small children at the same time is available at a cost of ¥1,050

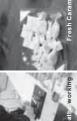
Year round ¥525 ¥1,050 Long Boots Rental Rent for 3 hours Rent for 1 day

Return the boots to Lumipuisto by 21:00.



Snow Train





## [Notes on all activities]

- Programs may be changed or canceled due to bad weather.
  - subject to availability. Please contact Activity Desk for booking schedule.

    Cancellations due to customer will be charged a cancellation fee of 50% the day before and 100% on the day.

| Inquiries | Activity Desk TEL: +81-136-46-3332 | Reply in English EMALL: activity@rusutsu.co.jp ■ All prices include tax. ■ Prices shown on this tariff apply until the end of winter season 2011.

■ For operating times of indoor activities, please contact General Reservation Center



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21st February, 2011





**Venue**Rusutsu Resort, Hokkaido, Japan

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