TUESDAY, JANUARY 29, 2013  (DAY 1)

16:00-17:30  Registration

WEDNESDAY, JANUARY 30, 2013  (DAY 2)

7:00-17:00  Registration
7:00-7:30  Breakfast
7:15-7:30  Opening Remarks, Kiyohiro Houkin & M.D., Hideyuki Ohnishi, M.D.
7:30-7:50  Scientific Session 1 - Epilepsy and Functional Surgery
Moderated by Takamitsu Fujimaki, M.D. & Kazuo Okuchi, M.D.
7:30-7:50  ●●●●●●●●●●●●, Nobuhiro Mikuni, M.D.
7:50-8:10  ●●●●●●●●●●●●, Amami Kato, M.D.
8:10-8:30  ●●●●●●●●●●●●, Takamitsu Fujimaki, M.D.
8:30-8:50  Surgery of Medically Intractable Temporal Lobe Epilepsy, Tomokatsu Hori, M.D.
8:50-9:05  Japanese Multi-centre Clinical Study of Carmustine Wafers (Gliadel) Placement for High-grade Glioma, Tetsuya Yamamoto, M.D.
9:05-9:25  Surgery of Medically Intractable Temporal Lobe Epilepsy Tarig Salah Uddin, M.D.

Scientific Session 2- Ischemic cerebrovascular disease
Moderated by Yukitaka Ushio, M.D. & Yoshikazu Okada, M.D.
9:30-9:50  Clinical efficacy and controversy of carotid artery stenting: A systemic review and a author’s experience Yasshiko Akiyama, M.D.
9:50-10:10  Current outcome of the patients with subarachnoid hemorrhage in the single hospital, Tadayoshi Nakagomi, M.D.
10:10-10:30  A role of intraoperative ICG videography for CEA and STA-MCA anastomosis, Toru Inoue, M.D.
10:30-10:50  Surgical treatment of moyamoya disease ----- special reference to how to select the bypass procedures, Toshio Matsushima, M.D.

Special Lecture 1, Moderated by Kiyohiro Houkin, M.D.
11:00-11:45  Spacer Distraction Of Joint Coupled With Extension As a Treatment Of Basilar Invagination And Atlanto-Axial Dislocation: A novel pilot technique In 65 Cases P Sarat Chandra, M.D.

Luncheon Seminar 1, Moderated by Kintomoto Takakura, M.D.
12:00-12:50  MR-Guided Robotic Surgery, Garnette Sutherland, M.D.

General Session 1, Moderated by Shunsuke Terasaka, M.D.
13:00-13:10  Identification of Venous Sinus, Tumor Location, and Pial Supply During Meningioma Surgery by Transdural Indocyanine Green Videography-The Eclipse sign, Tetsuya Ueba, M.D.
13:00-13:10  Identification of Venous Sinus, Tumor Location, and Pial Supply During Meningioma Surgery by Transdural Indocyanine Green Videography-The Eclipse sign, Tetsuya Ueba, M.D.
13:10-13:20  Intraoperative continuous monitoring of facial motor evoked potentials in acoustic neuroma surgery, Hiroshi Tokimura, M.D.
13:20-13:30  Our surgical strategy of vestibular schwannoma operation, Kaku Shougo, M.D.
13:30-13:40  Strategy of the Petroclival Meningioma–How to avoid the venous complications in the anterior trans-petrosal approach–, Shin Tanino, M.D.

General Session 2 - MVD & Spine, Moderated by Izumi Koyanagi, M.D.
13:40-13:50  Neuroendoscopy-assisted microvascular decompression, Takashi Yagi, M.D.
13:50-14:00  The preoperative assessment of hemifacial spasm by direct coronal thin slice heavy T2 MRI, Miki Ohita, M.D.
14:00-14:10  Microvascular decompression for glossopharyngeal neuralgia, Nayuta Higa, M.D.
14:10-14:20  Image-guided spinal surgery using navigation system, Nobuyuki Shimokawa, M.D.
14:20-14:30  Postoperative recovery of serious paraplegia caused by thoracic spinal lesion, Tadao Matsumiha, M.D.

General Session 3 - Clinical Survey, Moderated by Toru Inoue, M.D.
14:30-14:40  Outcome of patients with multiple trauma associated with head injury - A comparative study with single head injury, Kazuo Okuchi, M.D.
14:40-14:50  The Outcome After Craniotomy For Hypertensive Putaminal Hemorrhage: Is Mortality Rate Improved Compared With 20 Years Ago? Yusuke Kinoshita, M.D.
14:50-15:00  Hemodynamic stress on the development of distal intracranial aneurysms, Takaaki Hirvaturi, M.D.
15:00-15:10  Magnetic Resonance Characterization of Time-varying Velocity, Curl and Pressure Gradient of Cerebrospinal Fluid for Classification of Pathophysiology in hydrocephalic conditions, Akhiro Hirayama, M.D.
15:10-15:20  Utility of early post-treatment SPECT as a biomarker of outcome in intravenous tPA therapy, Takesu Abumaya, M.D.

Scientific Session 3- Surgery for brain tumors
Moderated by Isao Date, M.D. & Kaoru Kurisu, M.D.
15:30-15:50  Lateral Skull Base Surgery for Infratemporal Fossa Tumors, Nobastaka Kawahara, M.D.
15:50-16:10  Two-some four-hand microsurgery for medial sphenoid wing meningiomas, Kazuhiko Fujitsu, M.D.
16:10-16:30  Management of WHO grade II-III gliomas based on the genetic profiles, Yuchi Hirose, M.D.
16:30-16:50  Occipital transtentorial approach for pineal region tumors, Norio Arista, M.D.
16:50-17:05  Japan National Survey of Metastatic Pituitary Tumor –preliminary report on 200 cases-, Yushi Nagano, M.D.
17:05-17:25  Petroclival Meningiomas: Reverting back to Retrosigmoid Approach, Suresh Nair, M.D.

Special Lecture 2, Moderated by Toru Hayakawa, M.D.
17:30-18 :45  ●●●●●●●●●●●●, Helmut Bertalanffy, M.D.

Special Lecture 3, Moderated by Masato Shibuya, M.D.
18:15-19:00  Management of Supratentorial Arteriovenous Malformations, Evandro de Oliveira, M.D.
19:00- Welcome Reception for Joint Neurosurgical Convention 2013
THURSDAY, JANUARY 31, 2013 (DAY3)

7:00-12:00 Registration
7:00-7:30 Breakfast
12:30-13:00 Exhibit and Poster Viewing
13:00-  Golf Tournament for the 6th International Mt. BANDAI
Symposium for Neuroscience (at Waikoloa Beach Golf Course)

Scientific Session 4 – Spinal Disorder
Moderated by Junya Hanakita, M.D. & Hiroshi Nakagawa, M.D.

7:30-7:45 Pathogenesis of syringomyelia associated with Chiari type 1 malformation: Possible role of vascular mechanisms, Izumi Koyanagi, M.D.
7:45-8:05 Surgical strategy and management in the posterior stabilization of upper cervical spine, Hiroyuki Nakase, M.D.
8:05-8:25 Recent advances of minimally spinal surgery in Japan with emphasis on BKP (Balloon kyphoplasty) and PELD (Percutaneous endoscopic lumbar discectomy), Junichi Mizuno, M.D.
8:25-8:45 Surgical approach for spinal intramedullary tumors: Approach selection and importance of the tumor-cord interface, Toshiro Takami, M.D.
8:45-9:05 Recent advances of minimally spinal surgery in Japan with emphasis on BKP (Balloon kyphoplasty) and PELD (Percutaneous endoscopic lumbar discectomy), Junichi Mizuno, M.D.
9:05-9:25 Microsurgery in large intramedullary ependymomas, Vo Van Nho, M.D.

Round Table 1 – Beyond the ischemic penumbra
Moderated by Waro Taki, M.D. & Izumi Nagata, M.D.

9:30-9:50 Revascularization on acute cerebral ischemia –New horizon beyond penumbra, Michiyasu Suzuki, M.D.
9:50-10:10 ●●●●●●●●●●●●●●, Nobuyuki Sakai, M.D.
10:10-10:30 Role of cerebral perfusion imaging for acute stroke patients, Joji Nakagawara, M.D.
10:30-10:50 Usefulness of intraoperative mild hypothermia for vascular disease, Teruyasu Hirayama, M.D.

Scientific Session 5 – AVM and CCM
Moderated by Kazuo Hashi, M.D., & Hirotoshi Sano, M.D.

11:10-11:30 Treatment for cerebral vascular malformations, Kazuhiko Nozaki, M.D.
11:30-11:50 Planning surgical strategy for brainstem lesions, Nobuhito Saito, M.D.
11:50-12:10 Surgery for the cavernous malformation in the brainstem, Kazuhiro Hongo, M.D.
12:10-12:30 Microsurgery for cerebellar arteriovenous malformations; Ideas for the access windows to the feeding arteries, Shinji Nagata, M.D.
FRIDAY, FEBRUARY 1, 2013  (DAY4)

7:00-17:00  Registration
7:00-7:30  Breakfast

Scientific Session 6 – Endoscopic Surgery
Moderated by Akio Morita, M.D.,

7:30-7:50  Aneurysmal formation at STA-MCA anastomotic site. Two case reports, Yoshinari Miyaoka, M.D.
7:50-8:05  Evaluation of endovascular treatment with ED coils---Role of endovascular treatment with ED coils, Tetsuya Nagatani, M.D.
8:05-8:25  Combined endoscopic and open approach to the skull base tumor with wide extracranial extension, Koji Fujita, M.D.
8:25-8:45  Surgery of Orbital Tumors; Operative Technique & Results in 85 cases, Takanori Fukushima, M.D.
8:45-9:05  The development of 3D lateral and straight view endoscopy and robotic surgical system for the surgery of malignant glioma, Yasukazu Kajita, M.D.
9:05-9:25  General Session 4, Moderated by Tomio Sasaki, M.D.
9:25-9:40  Various surgical strategies using vein graft bypass for complicated carotid aneurysmal lesions, Yoshikazu Okada, M.D.
9:40-10:00  Low wall shear stress is independently associated with the rupture status of MCA aneurysms: CFD analysis from 3D rotational angiography, Fujimaro Ishida, M.D.
10:00-10:15  Bevacizumab for progressive radiation necrosis, Motomasa Furuse, M.D.
10:15-10:35  Surgical Technique and Variations of the Occipital Artery to Posterior Inferior Cerebellar Artery Bypass, Yasushi Shin, M.D.
10:35-10:55  The Use of susceptibility-weighted imaging as an indicator of disease, Sepideh Amin-Hanjani, M.D.
10:55-11:00  Role of Quantitative Flow Measurements in Cerebrovascular Disease, Fady T. Charbel, M.D.
11:00-11:15  General Session 5, Moderated by Akinori Kondo, M.D.
11:15-11:30  Bevacizumab for progressive radiation necrosis, Motohashi Niiya, M.D.
11:30-11:45  Clinical presentation of intracranial artery stenosis with Graves’ disease, Hiroshi Abe, M.D.
11:45-12:00  Chairing and discussion of presentations in General Session 4, John Tew, M.D.
12:00-12:50  Evolution of the Fukushima Bypass: Classification and Technical Pearls, Takanori Fukushima, M.D.

Luncheon Seminar 2, Moderated by Shigeki Kobayashi, M.D.
12:00-12:50  Effect of endoscopic evacuation of intracerebral hemorrhage, Hiroyuki Kon, M.D.

Scientific Session 7 – Cerebral Aneurysm
Moderated by Hiroshi Abe, M.D., & Hiroyasu Kamiyama, M.D.

9:05-9:25  Aneurysm surgery assisted by endoscope and intraoperative fluorescence angiography, Hirofumi Kinouchi, M.D.,
9:25-9:40  Accurate Bloodless Approaches and Vascular Reconstruction for Complex Aneurysms, Rokaya Tanigawa, M.D.
9:40-10:00  Various surgical stategies using vein graft bypass for complicated carotid aneurysmal lesions, Yoshikazu Okada, M.D.
10:00-10:15  Low wall shear stress is independently associated with the rupture status of MCA aneurysms: CFD analysis from 3D rotational angiography, Fujimaro Ishida, M.D.
10:15-10:35  Gerardo Legaspi, M.D.
10:35-10:55  Operative Nuances, Asra Al Fauchi, M.D.

Special Lecture 4, Moderated by Hiroshi Abe, M.D.
11:00-11:45  Role of Quantitative Flow Measurements in Cerebrovascular Disease, Fady T. Charbel, M.D.
11:45-12:30  Measuring of cerebral reserve capacity using acetazolamide loading Xenon CT CBF before carotid endarterectomy, Tetsuo Yamashita, M.D.

Scientific Session 8 – Basic Science and new technology
Moderated by Kiyohiro Houkin, M.D.
15:50-16:05  Evaluating the Efficacy of Intraoperative indocyanine green fluorescence angiography in carotid endarterectomy, Kyusuke Sato, M.D.
16:05-16:30  Fluorescent angiography in carotid endarterectomy, Hiroshi Tokimura, M.D.
16:30-17:00  Concomitant bevacizumab therapy for recurrent malignant glioma: a single-institution experience, Hiroyuki Uchida, M.D.
17:00-17:25  Intra-operative Imaging Solutions for Neurosurgery, Ivan Ng, M.D.
17:25-17:45  Role of Quantitative Flow Measurements in Cerebrovascular Disease, Sepideh Amin-Hanjani, M.D.

Special Lecture 5, Moderated by Tomio Sasaki, M.D.
17:50-18:25  How to do stroke neurosurgery, Hee Won Jung, M.D.

Special Lecture 6, Moderated by Akinori Kondo, M.D.
18:25-19:10  Management of intracranial high-flow arteriovenous shunts ---Role of endovascular treatment with ED coils---, Kenichi Murano, M.D.

Scientific Session 9 – Technical Pearls, Operative Nuances,
Moderated by Naoya Hashimoto, M.D.
19:10-19:25  Surgery of Orbital Tumors; Operative Technique & Results in 85 cases, Takanori Fukushima, M.D.
19:25-20:00  Role of Quantitative Flow Measurements in Cerebrovascular Disease, Fady T. Charbel, M.D.
20:00-20:15  Bevacizumab for progressive radiation necrosis, Motomasa Furuse, M.D.
20:15-20:30  The development of 3D lateral and straight view endoscopy and robotic surgical system for the surgery of malignant glioma, Yasukazu Kajita, M.D.
20:30-20:45  Management of intracranial high-flow arteriovenous shunts ---Role of endovascular treatment with ED coils---, Kenichi Murano, M.D.
20:45-21:00  Chairing and discussion of presentations in General Session 5, John Tew, M.D.

General Session 6 – Adjuvant therapy for brain tumor
Moderated by Naoya Hashimoto, M.D.
15:10-15:25  Graft selection and bypass procedures in cerebral revascularization, Yuzushi Shin, M.D.
15:20-15:30  Concomitant bevacizumab therapy for recurrent malignant glioma: a single-institution experience, Hiroyuki Uchida, M.D.
15:40-15:50  Imaging of DNA synthesis rate of malignant brain tumor with newly developed PET molecular imaging probe 11C-4DST, Motoki Inaji, M.D.
15:50-16:05  Evaluating the Efficacy of Intraoperative indocyanine green fluorescence angiography in carotid endarterectomy, Kyusuke Sato, M.D.
16:05-16:30  Fluorescent angiography in carotid endarterectomy, Hiroshi Tokimura, M.D.
16:30-17:00  Concomitant bevacizumab therapy for recurrent malignant glioma: a single-institution experience, Hiroyuki Uchida, M.D.
17:00-17:25  Intra-operative Imaging Solutions for Neurosurgery, Ivan Ng, M.D.
17:25-17:45  Role of Quantitative Flow Measurements in Cerebrovascular Disease, Sepideh Amin-Hanjani, M.D.

Special Lecture 5, Moderated by Tomio Sasaki, M.D.
17:50-18:25  How to do stroke neurosurgery, Hee Won Jung, M.D.

Special Lecture 6, Moderated by Akinori Kondo, M.D.
18:25-19:10  Management of intracranial high-flow arteriovenous shunts ---Role of endovascular treatment with ED coils---, Kenichi Murano, M.D.

General Session 5, Moderated by Rokuya Tanigawa, M.D.
13:00-13:10  Aneurysmal formation at STA-MCA anastomotic site. Two case reports, Yoshinari Miyaoka, M.D.
13:10-13:20  Clinical presentation of intracranial artery stenosis with Graves’ disease, Hiroshi Tokimura, M.D.
13:20-13:30  The Use of susceptibility-weighted imaging as an indicator of retrograde leptomeningeal venous drainage and venous congestion with dual arteriovenous fistula: diagnosis and follow-up after treatment, Ichiro Nakagawa, M.D.
13:30-13:40  Pulse-gated cine MRI is useful for simulation of superficial temporal artery-middle cerebral artery anastomosis, Toru Inagaki, M.D.
13:40-13:50  Measurement of cerebral reserve capacity using acetazolamide loading Xenon CT CBF before carotid endarterectomy, Tetsuo Yamashita, M.D.

General Session 4, Moderated by Hideyuki Olnishi, M.D.
13:00-13:10  Aneurysmal formation at STA-MCA anastomotic site. Two case reports, Yoshinari Miyaoka, M.D.
13:10-13:20  Clinical presentation of intracranial artery stenosis with Graves’ disease, Hiroshi Tokimura, M.D.
13:20-13:30  The Use of susceptibility-weighted imaging as an indicator of retrograde leptomeningeal venous drainage and venous congestion with dual arteriovenous fistula: diagnosis and follow-up after treatment, Ichiro Nakagawa, M.D.
13:30-13:40  Pulse-gated cine MRI is useful for simulation of superficial temporal artery-middle cerebral artery anastomosis, Toru Inagaki, M.D.
13:40-13:50  Measurement of cerebral reserve capacity using acetazolamide loading Xenon CT CBF before carotid endarterectomy, Tetsuo Yamashita, M.D.

General Session 6, Moderated by Rokuya Tanigawa, M.D.
13:50-14:00  Stent-assisted coil embolization for ruptured vertebral artery dissection, Yoshiaki Ueno, M.D.
14:00-14:07  Significance of the preventive bypass surgery against cerebral infarction due to cerebral vasospasm secondary to ruptured aneurysm patients with intracranial major trunk occlusion / severe stenosis, Katsuhiro Muruchi, M.D.
14:07-14:17  Effect of endoscopic evacuation of intracerebral hemorrhage, Hiroyuki Kon, M.D.
**SATURDAY, FEBRUARY 2, 2013  (DAY5)**

7:00-12:00 Registration
7:00-7:30 Breakfast
7:30-12:00 Registration
7:30-12:00 Exhibit and Poster Viewing
12:40-13:00 Exhibit and Poster Viewing

**Scientific Session 9 – Neuroimaging and monitoring**
*Moderated by Jo Haraoka, M.D. & Namio Kodama, M.D.*

7:30-7:50 The Clinical Importance of Functional Reorganizations, Yukihiro Fujii, M.D.
7:50-8:10 Characteristics of vessel walls and blood flow by multi-modality imaging for vascular surgery, Kyosuke Kamada, M.D.
8:10-8:30 CSF hydrodynamics assessed by curl and pressure gradients based on Magnetic Resonance velocity imaging, Mitsunori Matsumae, M.D.
8:30-8:50 Update in intraoperative monitoring in cerebrovascular surgery, Tatsuya Sasaki, M.D.
8:50-9:10 Fluorescence-guided neurosurgery for gliomas, Toshihiko Kuroiwa, M.D.
9:10-9:30 Visualization of the diffusion characteristics of the human brain, Hitoshi Matsuzawa, M.D.

**Round Table 2 – Novel concept and strategy for malignant brain tumors, Moderated by Shunsuke Terasaka, M.D., Toshihiko Wakabayashi, M.D.**

9:30-9:50 Boron neutron capture therapy for malignant brain tumors, current status and future prospects, Shin-Ichi Miyatake, M.D.
9:50-10:10 DNA mismatch repair protein MSH6 correlated with the responses of atypical pituitary adenomas and pituitary carcinomas to temozolomide: The national cooperative study by the Japan Society for Hypothalamic and Pituitary Tumors, Akira Matsuno, M.D.
10:10-10:30 Current Treatment Strategy for Malignant Brain Tumors, Toshihiko Wakabayashi, M.D.
10:30-10:50 Skull Base Surgery: Beyond Approach, Eiji Kohmura, M.D.

**Scientific Session 10 – Emergent Neurosurgery**
*Moderated by Tomokatsu Hori, M.D. & Katsuji Shima, M.D.*

11:00-11:20 Update of surgical technique on ruptured cerebral arteriovenous malformations, Hiroki Kurita, M.D.
11:20-11:40 Current status of acute stroke intervention in Japan: findings from RESCUE-Japan Registry, Shinichi Yoshimura, M.D.
11:40-12:00 Pathological findings of cerebral amyloid angiopathy (CAA) in patients with primary subcortical hemorrhage, Kenichiro Kikuta, M.D.
12:00-12:20 Feature of emergent surgery for subarachnoid hemorrhage in Japan, Fusao Ikaawa, M.D.
12:20-12:40 Toward Zero Mortality in Acute Epidural Hematoma: A review in 268 cases. Problems and Challenges in the Developing Country, Asra Al Fauzi, M.D.
SUNDAY, FEBRUARY 3, 2013  (DAY6)

7:00-12:00 Registration
7:00-7:30 Breakfast

General Session 7 – Surgical management of CVD
 Moderated by Naoki Nakayama, M.D.

7:30-7:40 Treatment strategy for multiple aneurysms associated with subarachnoid hemorrhage, Atsushi Saito, M.D.
7:40-7:50 Surgery of recurrent intracranial aneurysms after neck clipping, Yosuke Ishii, M.D.

Scientific Session 11 – Skull base Surgery
 Moderated by Kiyoshi Saito, M.D. & Shinji Nagahiro, M.D.

8:00-8:20 Skull base surgery: present strategies and future prospect of histologically or clinically malignant skull base tumors, Kiyoshi Saito, M.D.
8:20-8:40 Purely endoscopic endonasal approach for giant pituitary tumors, Naoyuki Nakao, M.D.
8:40-9:00 Microsurgical Approaches and Techniques for Skull Base Meningiomas, Nagahiro Shinji, M.D.
9:00-9:20 Microsurgical treatment of acoustic neuroma, Chang Jin Kim, M.D.

Scientific Session 12 – Contemporary Topics in Neurosurgery
 Moderated by Kazuo Watanabe, M.D. & Satoshi Kuroda, M.D.

10:00-10:20 Recent Advancements of the Neurovascular Surgery - the Maximum Flow Reduction Strategy for Partially Thrombosed Giant Aneurysms in the Posterior Circulation, Koji Iihara, M.D.
10:40-11:00 Transplantation of autologous bone marrow stromal cells (BMSC) for ischemic stroke – Strategy and tactics for clinical application, Satoshi Kuroda, M.D.
11:00-11:20 Patient Safety in Neurosurgical Care, Endro Basuki, M.D.
11:20-11:40 International Cooperation in Neurosurgery, Basant Pant, M.D.

11:40- Closing Remarks, Kiyohiro Hokin, M.D. & Hideyuki Ohnishi, M.D.