# Detailed Program

## Saturday, 23 September 2017

### Venue 1

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<tr>
<th>Time</th>
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<tr>
<td>08:30 - 09:50</td>
<td>Registrations</td>
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<tr>
<td>09:50 - 10:00</td>
<td>President's Welcome Address</td>
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<tr>
<td>10:00 - 11:00</td>
<td>Keynote Lecture 1-1 (Delicate treatments for idiopathic NPH)</td>
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<td><strong>Chairs:</strong> Etsuro Mori, Jan Malm</td>
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<tr>
<td>10:00 - 10:30</td>
<td>PSYCHIATRIC/BEHAVIORAL SYMPTOMS OF INPH</td>
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<td><strong>Hiroaki Kazui</strong></td>
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<td>10:30 - 11:00</td>
<td>TAKING CARE OF HYDROCEPHALUS: A TEAM EFFORT – THE KUOPIO EXPERIENCE</td>
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<td><strong>Ville Leinonen</strong></td>
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<td>11:00 - 12:30</td>
<td>Oral Presentation1-1 (Tap test)</td>
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<td><strong>Chairs:</strong> Carsten Wikkelsò, Hajime Arai</td>
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<td>11:00 - 11:10</td>
<td>50 ML CSF TAP TEST IN INPH: MAGNITUDE IN RESPONSE IN A PLACEBO ARM</td>
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<td><strong>Jan Malm</strong></td>
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<td>11:10 - 11:20</td>
<td>THE TIMED UP AND GO (TUG) CUT OFF FOR NORMAL PRESSURE HYDROCEPHALUS</td>
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<td><strong>Gabriel Mendes</strong></td>
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<td>11:20 - 11:30</td>
<td>iTUG IS USEFUL FOR QUANTITATIVE EVALUATION OF GAIT DISTURBANCE IN INPH</td>
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<td><strong>Shigeki Yamada</strong></td>
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<td>11:30 - 11:40</td>
<td>CEREBROSPINAL FLUID CLOSING PRESSURE-GUIDED TAP TEST IN THE DIAGNOSIS</td>
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<td><strong>Diego Gómez</strong></td>
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<td>11:40 - 11:50</td>
<td>NEUROPSYCHOLOGICAL AND AFFECTIVE EVALUATION IN IDIOPATHIC NORMAL</td>
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<td><strong>FLUID TAP TEST</strong></td>
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<td><strong>Pressures for Hydrocephalus Patients Pre and Post Cerebrospinal</strong></td>
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11:50 - 12:00  NEUROANATOMICAL BASES OF LOWER PSYCHOMOTOR SPEED AND GAIT DISTURBANCE IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Giorgio Palandri

12:00 - 12:10  PREDICTABILITY OF COGNITION TESTS FOR SHUNT EFFECTIVENESS IN INPH
Shunsuke Sato

12:10 - 12:20  PREDICTING DYNAMICS OF CSF BIOMARKERS BY TAP TEST IN INPH
Masatsune Ishikawa

12:20 - 12:30  CLINICAL IMPROVEMENT AFTER CSF TAP TEST IS RELATED TO MONOAMINE CHANGES IN THE EXTRACELLULAR BRAIN FLUID IN PATIENTS WITH NORMAL PRESSURE HYDROCEPHALUS
Naoto Jingami

12:30 - 14:00  Lunch Seminar (Eisai)

14:00 - 15:00  Oral Presentation 1-2 (Research)
Chairs: Hazel C Jones, Takahiko Tokuda

14:00 - 14:10  ACCELERATED CEREBROSPINAL FLUID TURNOVER REDUCES AMYLOID B 42 TOXIC CONFORMER RATIO
Chihiro Akiba

14:10 - 14:20  LUMBAR DRAINS CAN AFFECT CSF PROTEIN BIOMARKER LEVELS
Claudia Craven

14:20 - 14:30  THE COPY NUMBER LOSS IN THE INTRON TWO OF THE SFMBT1 AMONG FINNISH INPH-PATIENTS AND FAMILIES
Joel Huovinen

14:30 - 14:40  INCREASED WATER QUANTITY IN GREY MATTER IN IDIOPATHIC INTRACRANIAL HYPERTENSION PATIENTS
Terhi J Huttunen

14:40 - 14:50  PREDICTING DEVELOPMENT OF ALZHEIMER’S DISEASE IN PATIENTS WITH SHUNTED IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Antti Luikku

14:50 - 15:00  PATIENTS’ INFORMATION IN HYDROCEPHALUS: WHY NOT COMICS?
15:00 - 15:30  Coffee Break & Exhibition

15:30 - 16:30  Keynote Lecture 1-2 (Epidemiology & Diagnosis)
   Chairs: Ville Leinonen, Takeo Kato
15:30 - 16:00  CURRENT STATUS ON INPH PRACTICE IN KOREA
   So-Young Moon
16:00 - 16:30  QUALITY REGISTRIES – WHY, HOW, AND CAN THE OUTPUT BE TRUSTED AND IMPLEMENTED?
   Nina Sundström
16:30 - 18:00  Oral Presentation 1-3 (New Technologies)
   Chairs: Uwe Kehler, Kenichi Nishiyama
16:30 - 16:40  DEVELOPMENT AND APPLICATION OF A SURGICAL SITE INFECTION PREVENTION BUNDLE FOR SHUNT-RELATED INSERTIONS AND REVISIONS
   Mark Hamilton
16:40 - 16:50  LAPAROSCOPIC-GUIDED DISTAL VENTRICULOOPERITONEAL SHUNT INSERTION IMPROVES SHUNT OUTCOME IN ADULT PATIENTS: RESULTS OF A COHORT STUDY WITH 222 PATIENTS
   Mark Hamilton
16:50 - 17:00  A NEW DEVICE FOR NON-INVASIVE FLOW ADJUSTMENT
   Christoph Miethke
17:00 - 17:10  THE ESHUNT SYSTEM: DEVELOPMENT OF AN ENDOVASCULAR DELIVERY SYSTEM AND DEVICE FOR TREATMENT OF COMMUNICATING HYDROCEPHALUS
   Adel Malek
17:10 - 17:20  REFLOW SYSTEM - NEW SHUNT TECHNOLOGY FOR NON-INVASIVE INTERVENTION FOR VENTRICULAR SHUNT OCCLUSION FOR PATIENTS WITH HYDROCEPHALUS
   Andrew East
17:20 - 17:30  MULTIDISCIPLINARY MANAGEMENT OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: A PRELIMINARY EXPERIENCE
   Giorgio Palandri
17:30 - 17:40  VENTRICLE- SYLVIAN FISSURE SHUNT FOR OBSTRUCTIVE HYDROCEPHALUS
   Sushil Patkar
17:40 - 17:50  INTRA-OPERATIVE ENDOSCOPIC FINDINGS OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS  
Daisuke Kita

17:50 - 18:00  LONG TERM FOLLOW-UP OF ANTIBIOTIC-IMPREGNATED HYDROCEPHALUS SHUNT CATHETERS: EVIDENCE FROM THE UK SHUNT REGISTRY  
John Pickard

18:00 - 19:00  Annual General Meeting

20:00 -  Japanese Evening

Venue 2 (Young Investigators Session)

11:00 - 12:30  Y1-1 (Pediatric Hydrocephalus & Other disease)  
Chairs: Albert Isaacs, Isao Date

11:00 - 11:10  RISK FACTORS FOR POST-HEMORRHAGIC HYDROCEPHALUS AMONG INFANTS WITH INTRAVENTRICULAR HEMORRHAGE  
Hannah Tully

11:10 - 11:20  SKULL SHAPE AS A RISK FACTOR FOR HYDROCEPHALUS AMONG CHILDREN WITH PREMATURE SUTURE FUSION  
Hannah Tully

11:20 - 11:30  GLOBAL EPIDEMIOLOGY OF HYDROCEPHALUS: SYSTEMATIC REVIEW OF PREVALENCE AND BIRTH SURVEILLANCE REPORT OF INCIDENCE  
Albert Isaacs

11:30 - 11:40  THIRTY YEARS OF AQUAPORIN-1: A SYSTEMATIC REVIEW OF AQUAPORIN-1'S ROLE IN CSF DYNAMICS  
Saniya Mediratta

11:40 - 11:50  TINNITUS IN IDIOPATHIC INTRACRANIAL HYPERTENSION  
Jonathan Funnell

11:50 - 12:00  INTRACRANIAL PRESSURE IN PAPILLOEDEMA  
Jonathan Funnell

12:00 - 12:10  CEREBRAL HYDRODYNAMICS IMPACT IN NEURODEGENERATIVE DISEASES
Jadwiga Attier-Zmudka

12:10 - 12:20  CARDIOVASCULAR AND SLEEP APNEA SYNDROME IMPACT IN NEURODEGENERATIVE DISEASES
Jadwiga Attier-Zmudka

12:20 - 12:30  A 3-D FINITE ELEMENT STUDY OF A BIOIMPEDANCE-BASED SENSOR TO MONITOR CEREBROSPINAL FLUID PULSATION
Carlos Castelar

14:00 - 15:00  Y1-2 (Brain Imaging)
Chairs: Ari Meir Blitz, Chifumi Iseki

14:00 - 14:10  IMAGING IN INPH, ARE CT AND MRI COMPARABLE?
Karin Kockum

14:10 - 14:20  MAGNETIC RESONANCE IMAGING MARKERS FOR PREDICTING POSTOPERATIVE OUTCOME IN INPH-PATIENTS
Simon Agerskov

14:20 - 14:30  THE PHENOTYPE OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Simon Agerskov

14:30 - 14:40  ASSESSMENT OF CARDIAC- AND RESPIRATORY-INDUCED PRESSURE GRADIENTS OF CSF BASED ON REAL TIME MAGNETIC RESONANCE IMAGING
Saeko Sunohara

14:40 - 14:50  CHARACTERIZATION OF CARDIAC- AND RESPIRATORY-DRIVEN CSF MOTIONS USING REAL-TIME PHASE CONTRAST MR IMAGING WITH CORRELATION MAPPING TECHNIQUE
Satoshi Yatsushiro

14:50 - 15:00  A COMPARISON OF THE DIAGNOSTIC GUIDELINES IN NORMAL PRESSURE HYDROCEPHALUS
Johanna Andersson

16:30 - 18:00  Y1-3 (Research in iNPH)
Chairs: Bryn Martin, Yasuhiro Hashimoto

16:30 - 16:40  NEUROCHI: A VIRTUAL REALITY AND IN VITRO MODEL OF THE CSF SYSTEM FOR TEACHING AND RESEARCH
Bryn Martin
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<tr>
<td>16:40 - 16:50</td>
<td>PARADOXICAL EFFECT OF VALVE SETTING ADJUSTMENT ON ICP IN HYDROCEPHALUS PATIENTS</td>
<td>Linda D'Antona</td>
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<td>16:50 - 17:00</td>
<td>SPONTANEOUS RETINAL VENOUS PULSATION WITH OCT DEVICE: TOWARDS NON-INVASIVE ASSESSMENT OF INTRACRANIAL PRESSURE</td>
<td>Linda D'Antona</td>
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<td>17:00 - 17:10</td>
<td>QUANTITATIVE ASSESSMENT OF INTRATEHICAL CEREBROSPINAL FLUID DYNAMICS AND GEOMETRY ACROSS LARGE MAMMALIAN SPECIES</td>
<td>Bryn Martin</td>
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<td>17:10 - 17:20</td>
<td>OUTCOME IMPLICATIONS OF USING INFUSION STUDIES FOR SHUNT TESTING IN VIVO</td>
<td>Afroditi-Despina Lalou</td>
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<td>17:20 - 17:30</td>
<td>RELATIONSHIP BETWEEN 24-HOUR INTRACRANIAL PRESSURE AND VENOUS SINUS PRESSURE</td>
<td>Claudia Craven</td>
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<td>17:30 - 17:40</td>
<td>A CLASSIFICATION FOR CHRONIC HYDROCEPHALUS IN ADULTS</td>
<td>Claudia Craven</td>
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<td>17:40 - 17:50</td>
<td>COPY NUMBER LOSS IN THE INTRON 2 OF THE SFMBT1 GENE IS ASSOCIATED WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: A CROSS-SECTIONAL MULTINATIONAL STUDY OF 942 INPH PATIENTS</td>
<td>Ville Korhonen</td>
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<td>17:50 - 18:00</td>
<td>CEREBRAL VENOUS PULSATILITY INDEX: A NEW LOOK AT CSF DYNAMIC ALTERATIONS</td>
<td>Lokossou Armelle</td>
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09:00 - 10:00  Keynote Lecture 2-1 (Shunt Surgery)  
**Chairs:** Giorgio Palandri, Reizo Shirane  
09:00 - 09:30  THE ROLE OF NEUROENDOSCOPY IN THE TREATMENT OF PEDIATRIC HYDROCEPHALUS  
*Ulrich W. Thomale*  
09:30 - 10:00  LUMBOPERITONEAL SHUNTS FOR THE TREATMENT OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS  
*Masakazu Miyajima*  
10:00 - 10:30  Coffee Break & Exhibition  
10:30 - 11:30  Oral Presentation 2-1 (L-P Shunt)  
**Chairs:** Daniele Rigamonti, Nobumasa Kuwana  
10:30 - 10:40  LP SHUNT FOR INPH PATIENTS: SURGICAL TECHNIQUES AND OUTCOMES RETROSPECTIVE SINGLE-CENTER STUDY WITH 348 PATIENTS AT TOKYO KYOSAI HOSPITAL  
*Naoyuki Samejima*  
10:40 - 10:50  SURGICAL OUTCOME OF 610 PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS TREATED BY LUMBOPERITONEAL SHUNT  
*Chia-Cheng Chang*  
10:50 - 11:00  SHUNT TREATMENT FOR POSSIBLE IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS IMPROVES MODIFIED RANKIN SCALE EVEN IN VERY ADVANCED AGE, BY OUTPERFORMING AGING RISK  
*Madoka Nakajima*  
11:00 - 11:10  USE OF LOCAL ANESTHESIA FOR LUMBOPERITONEAL SHUNT PROCEDURE IN PATIENTS OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS  
*Takashi Kawahara*  
11:10 - 11:20  LUMBAR CATHETER INSERTION BY THE FLUOROSCOPIC-GUIDED PARAMEDIAN APPROACH FOR CEREBROSPINAL FLUID SHUNTING: ASSESSMENT OF SAFETY AND ACCURACY  
*Yoshinaga Kajimoto*  
11:20 - 11:30  VENTRICULO-ATRIAL SHUNT INSERTION USING TRANSESOPHAGEAL ECHO: INITIAL EXPERIENCE
11:30 - 12:30  Oral Presentation 2-2 (Timing of therapeutic intervention)
   Chairs: John D. Pickard, Hiroji Miyake
11:30 - 11:40  DOES EARLY TREATMENT REDUCE MORTALITY IN NORMAL PRESSURE HYDROCEPHALUS?
   Carsten Wikkelso
11:40 - 11:50  EPIDEMIOLOGICAL CHARACTERISATION OF NORMAL PRESSURE HYDROCEPHALUS
   Catalina Garcia
11:50 - 12:00  COST-EFFECTIVENESS ANALYSIS OF SHUNT SURGERY FOR IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
   Masahiro Kameda
12:00 - 12:10  TREATMENT AND LONG-TERM SURVIVAL – SUBDURAL HEMATOMAS IN 1846 SHUNTED INPH PATIENTS
   Nina Sundstrom
12:10 - 12:20  HYPERLIPIDEMIA IS ASSOCIATED WITH LACK OF IMPROVEMENT AFTER SHUNT SURGERY IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
   Hanna Israelsson
12:20 - 12:30  HYDROCEPHALUS AND FRAILTY
   Eric A. Schmidt
12:30 - 14:00  Lunch Seminar (Codman, J & J) “Current iNPH management in Japan”
   Chairs: Yuichi Murayama
   Presenters: Madoka Nakajima, Takahiko Tokuda
14:00 - 15:30  Oral Presentation 2-3 (Intracranial Pressure)
   Chairs: Mark Luciano, Mitsuhito Mase
14:00 - 14:10  INTRACRANIAL PRESSURE IN UPRIGHT BODY POSITIONS AND THE IMPORTANCE OF VENOUS COLLAPSE
   Petter Holmlund
14:10 - 14:20  CHANGES IN ENDOVASCULAR VENOUS SINUS PRESSURE GRADIENT MEASUREMENT BEFORE AND AFTER GENERAL ANESTHESIA IN IDIOPATHIC INTRACRANIAL HYPERTENSION
14:20 - 14:30  LUMBAR PUNCTURE AND INTRACRANIAL PRESSURE MONITORING IN THE EVALUATION OF PSEUDOTUMOR, CSF LEAK AND MIXED CSF DISORDERS
Mark Luciano

14:30 - 14:40  INTERACTION BETWEEN INTRACRANIAL PRESSURE AND THE SYMPATHETIC NERVOUS SYSTEM; A NEW LINK BETWEEN THE BRAIN AND THE CARDIOVASCULAR SYSTEM
Simon Malpas

14:40 - 14:50  DEFINING TREATMENT OPTIONS FOR PATIENTS WITH COMPLEX CSF DISORDERS MANIFESTING AS MIXED FEATURES OF INTRACRANIAL HYPOTENSION AND HYPERTENSION
Mesha Martinez

14:50 - 15:00  OBSTRUCTIVE SLEEP APNEA AND IDIOPATHIC INTRACRANIAL HYPERTENSION SYNDROME
Aruna Rao

15:00 - 15:10  SLEEP DISORDERED BREATHING AND LEPTIN RESISTANCE IN IDIOPATHIC INTRACRANIAL HYPERTENSION SYNDROME
Aruna Rao

15:10 - 15:20  SLEEP BREATHING DISORDER PREVALENCE IN A POPULATION OF PATIENTS SUSPECTED OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Stephane Goutagny

15:20 - 15:30  UNORTHODOX FINDINGS IN MAGNETIC RESONANCE IMAGING COULD SUGGEST BETTER TREATMENT OUTCOME IN IDIOPATHIC INTRACRANIAL HYPERTENSION PATIENTS
Joona Tervonen

15:30 - 15:50  Coffee Break & Exhibition

15:50 - 16:00  Oral Presentation 2-4 (Congenital and Pediatric Hydrocephalus)
Chairs: Mark Hamilton, Yuzuru Tashiro

15:50 - 16:00  ADULTS WITH HYDROCEPHALUS TREATED IN INFANCY: PATHOPHYSIOLOGY AND PITFALLS
Harold Rekate

16:00 - 16:10  EFFICACY AND SAFETY OF VENTRICULAR LAVAGE THERAPY FOR POST
INTRAVENTRICULAR HEMORRHAGIC HYDROCEPHALUS IN LOW BIRTH WEIGHT INFANTS
Young-Soo Park
16:10 - 16:20

LONG-STANDING OVERT VENTRICULOMEGALY IN ADULTS (LOVA): DIAGNOSIS AND TREATMENT OPTIONS
Francesco Tuniz
16:20 - 16:30

ADVANCING TECHNOLOGY IN HYDROCEPHALUS: AQUEDUCT CRITICAL CARE SMART EXTERNAL DRAIN DEVICE (SED): 1ST IN MAN EXPERIENCE IN NORTH AMERICA
Samuel Browd
16:30 - 16:40

ENDOSCOPIC MANAGEMENT OF HYDROCEPHALUS AND INTRACRANIAL CYST
Samuila Sanoussi
16:40 - 16:50

ENDOSCOPIC THIRD VENTRICULOSTOMY (ETV) IN MECHANICALLY MALFUNCTIONING SHUNTS IN NON-COMMUNICATING HYDROCEPHALIC CASES SHUNTED BELOW ONE YEAR OF AGE
Hassan El Shafei
16:50 - 17:00

ICP PULSE AMPLITUDE MODULATION BY RESPIRATION IS INCREASED IN AQUEDUCT STENOSIS
Andreas Spiegelberg
17:00 - 17:10

FREQUENCY OF VENTRICULAR DILATION AND CSF DYNAMIC ALTERATIONS IN MUCOPOLYSACCHARIDOSES
Armelle Lokossou

18:10 - Transfer to Kobe Port by Coach
19:00 - Gala Dinner (Sea Cruise)

Venue 2

10:30 - 12:30 Y-2-1 (Symptoms in iNPH)
Chairs: Mats Tullberg, Mitsunori Matsumae
10:30 - 10:40 THE RELATIONSHIP BETWEEN CEREBRAL AUTOREGULATION, RESISTANCE TO CSF OUTFLOW AND OUTCOME IN NORMAL PRESSURE HYDROCEPHALUS
Afroditi-Despina Lalou
10:40 - 10:50 WHAT CAN THE MMSE TELL ABOUT COGNITIVE PERFORMANCE IN SSUSPECTED INPH AND HEALTHY CONTROLS?
Otto Lilja-Lund
10:50 - 11:00 CAN UPPER LIMB AND COGNITIVE OUTCOME MEASURES IDENTIFY CHANGE IN PATIENTS UNDERGOING A LUMBAR PUNCTURE TAP TEST WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH)?
Ryan Gallagher
11:00 - 11:10 CAN GAIT AND BALANCE MEASURES IDENTIFY INDIVIDUALS WHO RESPOND TO A LUMBAR PUNCTURE TAP TEST IN PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH)?
Ryan Gallagher
11:10 - 11:20 EPILEPSY, HEADACHE AND ABDOMINAL PAIN ARE COMMON IN LONG-TERM FOLLOW-UP AFTER CSF SHUNT SURGERY IN INPH
Jenny Larsson
11:20 - 11:30 FALLS AND FEAR OF FALLING ARE COMMON IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Jenny Larsson
11:30 - 11:40 DETERMENING NFL IN PLASMA FOR PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Anna Jeppsson
11:40 - 11:50 THE OCCASIONAL DISCREPANCY BETWEEN PATIENT REPORTED AND CLINICAL OUTCOMES IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Antti Junkkari
11:50 - 12:00 COPY NUMBER LOSS IN THE INTRON 2 OF THE SFMBT1 GENE IS ASSOCIATED WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: A CROSS-SECTIONAL MULTINATIONAL STUDY OF 942 INPH PATIENTS
Ville Korhonen
12:00 - 12:10 A NEW IMPLANTABLE TELEMETRIC INTRACRANIAL PRESSURE MONITORING DEVICE WITHIN A SHUNT SYSTEM: A SINGLE CENTRE EXPERIENCE OF 60 IMPLANTED UNITS OVER A 6.5 YEAR PERIOD
Simon Thompson
12:10 - 12:20 EFFECT OF PRE-INSTALLED SHUNT ON ENDOSCOPE CEREBROSPINAL FLUID DIVERSION PROCEDURE FOR HYDROCEPHALUS
Namiko Nishida

12:20 - 12:30 INTERMITTENT GAIT DISTURBANCE IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Yoshinaga Kajimoto

E-Poster Venue

14:00 – 17:10 E-Poster Session (E-Poster Venue)
14:00 – 14:40 Congenital and Pediatric Hydrocephalus

Moderators: Linda D'Antona, Takayuki Inagaki

RETROGRADE VENTRICULO- SINUS SHUNT (RVSS) IN TREATMENT OF HYDROCEPHALUS AFTER REPAIR OF LUMBAR NEURAL TUBE DEFECTS (NTD)
Hassan El Shafei

ATMOSPHERIC PRESSURE INFLUENCE ON FAILURE OF PHYSIOLOGICAL TREATMENT OF HYDROCEPHALUS; ETV & RVS SHUNT IN INFANTS WITH OPEN CRANIUM
Hassan El Shafei

APPLICATION VALUE OF NEUROENDOSCOPE IN THE TREATMENT OF VENTRICULOPERITONEAL SHUNT BLOCKAGE
Yuping Peng

CHANGE OF BRAIN DENSITY DISTRIBUTION IN CT IMAGE AFTER SHUNTING FOR HYDROCEPHALUS: A CASE STUDY OF TWO PEDIATRIC PATIENTS WITH ACHONDROPLASIA
Eun-Ji Kim

CHILD WITH DANDY WALKER MALFORMATION (DWM) AND HYDROCEPHALUS, WHO DEVELOPED SECONDARY CRANIOSYNOSTOSIS WITH MACROCEPHALY AND FEATURES OF DEFORMATIONAL PLAGIOCEPHALY: A CASE REPORT AND REVIEW OF THE LITERATURE
Munthir Al-Zabin

CASE OF A 4 YEARS OLD CHILD WITH SLIT VENTRICLE SYNDROME (SVS), WHO DEVELOPED SUDDENLY LOSS OF CONSCIOUSNESS AND SEVERE BRAIN EDEMA AFTER REMOVAL OF VP SHUNT SYSTEM.
Munthir Al-Zabin
ADVANTAGES OF ENDOSCOPICAL CYSTO-VENTRICULOYSTOMY AND BIOPSY WITH AID OF NEURONAVIGATION IN PATIENTS WITH INTRAVENTRICULAR LESIONS AND OCCLUSIVE HYDROCEPHALUS IN COMPARISON TO STEREOTACTIC PROCEDURE: EVALUATION OF A SERIES WITH 33 PATIENTS AND REVIEW OF THE LITERATURE
Munthir Al-Zabin

A CASE OF CEREBRAL GLIOMA WITH INTRASPINAL DISSEMINATION AND HYDROCEPHALUS: EVALUATION AND REVIEW OF THE LITERATURE
Munthir Al-Zabin

INCREASED ICP AND TRIVENTRICULAR OBSTRUCTIVE HYDROCEPHALUS SECONDARY TO DILATION OF MESENCEPHALIC VIRCHOW-ROBIN SPACES: A CASE REPORT
Munthir Al-Zabin

SUCCESSFUL SHUNT REMOVAL COMBINED WITH ENDOSCOPIC THIRD VENTRICULOYSTOMY FOR NON-COMUNICATING HYDROCEPHALUS DUE TO PREVIOUSLY TREATED PINEAL AND SUPRASELLAR GERMINOMA: A CASE REPORT
Nishijima Shugo

POSTTRAUMATIC HYDROCEPHALUS IN PATIENTS WITH SEVERE DISORDERS OF CONSCIOUSNESS: DIAGNOSTIC ADVANCES AND LONG-TERM OUTCOMES OF SURGICAL TREATMENT
Alexander Kravchuk

CRYPTOCOCCAL MENINGITIS CAUSING OBSTRUCTIVE HYDROCEPHALUS IN A PATIENT ON FINGOLIMOD
Chengde Pham

IDENTIFYING AND PARCELLATING THE SUBARACHNOID SPACE
Lotta Ellingsen

SPONTANEOUS INTRACRANIAL HYPOTENSION SYNDROME: A SYSTEMATIC REVIEW OF CLINICAL PRESENTATION, RADIOLOGY AND TREATMENT OUTCOMES
Linda D'Antona

LIGHT MICROSCOPICAL EVALUATION OF ACUTE AND CHRONIC HYPOPHYSEAL ENDOCRINOPATHY PROCESS IN KAOLIN INDUCED HYDROCEPHALY MODEL
Raziye Handan Nurhat

LABORATORY TESTING OF PRESSIOR 2 INTRACRANIAL PRESSURE MONITOR
14:40 – 14:50 Short Break
14:50 – 15:30 INPH, Brain imaging

Moderators: Olivier Baledent, Nicole C H Keong

APPARENT HYPERPERFUSION ON CONVEXITY IS USEFUL FOR THE DIAGNOSIS OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Takuma Ohmichi

PREOPERATIVE PROGNOSTIC VALUE OF MRI IN 90 PATIENTS WITH SUSPECTED IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Luca Albini Riccioli

LATERAL VENTRICLES DILATION IMPACT THE OTHERS CSF COMPARTMENTS
Lisebelle Accrombessi

A LONGITUDINAL OBSERVATION OF THE NON-DESH INHABITANTS: FROM A COHORT STUDY OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH) IN THE COMMUNITY-DWELLING ELDERLY IN TAKAHATA, JAPAN
Chifumi Iseki

A HOSPITAL-BASED, PROSPECTIVE STUDY ON THE NATURAL HISTORY OF AVIM (ASYMPTOMATIC VENTRICULOMEGALY WITH FEATURES OF INPH ON MRI)
Luna Kimihira

CORRELATIONS OF DIFFUSION TENSOR IMAGING PROFILES IN NPH PATIENTS WITH COMORBIDITIES
Nicole C H Keong

ARTERIAL SPIN LABELING PERFUSION MR IMAGING DEMONSTRATES REGIONAL CBF DECREASE IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Katarina Laurell

CEREBRAL HYDRODYNAMICS AND MORPHOLOGY IN NEURODEGENERATIVE DISEASES, THE DIAGNOSTIC ROLE OF PC-MRI
Jadwiga Attier-Zmudka

COMPARISON OF MICROFIBER ALTERATION OF CORTICOSPINAL TRACT IN NORMAL PRESSURE HYDROCEPHALUS PATIENTS AND NORMAL CONTROLLED SUBJECTS BY DIFFUSION TENSOR IMAGING
Chanon Ngamsombat

COMPUTERIZED TOMOGRAPHIC STUDY OF NORMATIVE VALUES OF EVANS’ INDEX, LATERAL VENTRICULAR VOLUME AND SKULL SHAPE IN THAI ADULTS
Thammayut Supsamanwong, Thanaporn Jewrasamnuay
A NEW IMAGING TECHNIQUE FOR VISUALIZATION OF CEREBROSPINAL FLUID MOTION USING DYNAMIC IMPROVED MOTION SENSITIZED DRIVEN EQUILIBRIUM STEADY-STATE FREE PRECESSION SEQUENCE
Mitsunori Matsumae
PREOPERATIVE EVALUATION OF THALAMIC VOLUME MIGHT PREDICT SHUNT RESPONSIVENESS IN PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS.
Shigenori Kanno
REVERSE OF FRONTO-PARIETAL CORTICAL PERFUSION ON SPECT AFTER SHUNTING IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS – A CASE REPORT
Koting Chen
INCREASED ICP AND TRIVENTRICULAR OBSTRUCTIVE HYDROCEPHALUS SECONDARY TO DILATION OF MESENCEPHALIC VIRCHOW-ROBIN SPACES: A CASE REPORT
Munthir Al-Zabin
CSF BIOMARKERS IN DIGNOSIS OF INPH: A META-ANALYSIS
Yan Xing
PSYCHIATRIC DISORDERS ARE COMMON IN PATIENTS WITH IDIOPATHIC INTRACRANIAL HYPERTENSION AND ASSOCIATE WITH LOW CEREBROSPINAL FLUID PROTEIN
Cecilia Avellan
A CSF BIOMARKER FOR DIAGNOSING SPONTANEOUS INTRACRANIAL HYPOTENSION
Yuta Murakami

15:30 – 15:40 Short Break
15:40 – 16:20 Tap test and Shunt

Moderators: Simon Thompson, Shigeki Yamada
A LONG-TERM OUTCOME AND INFLUENCE OF COMORBIDITIES AFTER SHUNT SURGERY FOR IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH): A RETROSPECTIVE COHORT STUDY
Teruo Kimura
EFFICACY OF LUMBO-PERITONEAL SHUNT IN ELDERLY PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Renling Mao

THE ESTIMATED BURDEN OF DISEASE FOR NORMAL PRESSURE HYDROCEPHALUS
Juan Fernando Ramón

UNBLOCKING VENTRICULAR SHUNT CATHETER DURING INFUSION TEST: A CASE STUDY OF TWO PATIENTS
Eva Nabbanja

CHRONIC POSTTRAUMATIC HEADACHE COMPLETELY CURED BY VENTRICULO-ATRIAL SHUNT: REPORT OF THREE CASES
Kiyoshi Takagi

HAPPY SHUNT: A NEW DEVICE FOR TREATMENT OF HYDROCEPHALUS
Selin Yavuz

COST VERSUS BENEFIT ANALYSIS OF TELEMETRIC ICP MEASURING DEVICE WITHIN A SHUNT SYSTEM: A SINGLE CENTRE EXPERIENCE
Simon Thompson

THE EFFECT OF MRI SCANS ON IMPLANTED SHUNT VALVES WITH MAGNETICALLY ADJUSTABLE SETTINGS
Simon Thompson

PATIENT’S EXPECTATIONS OF SHUNT TREATMENT AND THEIR ROLE IN THE REHABILITATION PROCESS, AN INTERVIEW STUDY
Agneta Gustafsson

LONGITUDINAL COGNITIVE CHANGE IN INHP AFTER SHUNT OPERATION
Mitsuyasu Kanai

BENEFIT OF ADDITIONAL SF-36 QUALITY OF LIFE AND TRUNCAL BALANCE TESTS FOR HOLISTIC EVALUATION IN SHUNTED INPH PATIENTS; A PROSPECTIVE STUDY
Kasadech Petchshook

USEFULNESS OF VIDEOTAPE-RECORD FOR DETECTION OF PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS
Takaharu Okada

A PROSPECTIVE STUDY OF THE PROGNOSTIC VALUE OF CEREBROSPINAL FLUID TAP TEST IN SHUNTING FOR NORMAL-PRESSURE HYDROCEPHALUS
Yan Zheng
A COMPARATIVE STUDY OF CEREBROSPINAL FLUID DRAINAGE BY TAP TEST VERSUS EXTERNAL LUMBAR DRAINAGE TO PREDICT CSF DIVERSION PROCEDURE
Lacie Manthripragada

16:20 – 16:30 Short Break
16:30 – 17:10 INPH, Co-morbidity
Moderators: So Young Moon, Tetsuo Hashiba

EPIDEMIOLOGY AND CLINICAL CHARACTERISTICS OF INPH IN JAPAN
Nagato Kuriyama

PROGNOSIS AND COMORBIDITY OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: OUTCOME ANALYSIS IN JAPANESE AND AUSTRIAN COHORT STUDIES
Teruaki Kawasaki

LONG TERM OUTCOMES OF SURGICALLY TREATED IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS AND THE FACTORS RELATED TO THE POOR OUTCOMES
Tetsuo Hashiba

SARCOPENIA IN IDIOPATHIC NORMAL-PRESSURE HYDROCEPHALUS
Masahiko Bundo

DETERIORATION IN GAIT VELOCITY WHILE WAITING FOR SHUNT SURGERY FOR INPH
Maria Ekblom

NEUROPSYCHIATRIC SYMPTOMS IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS: PRESURGICAL FEATURE AND THE 1-YEAR CHANGES AFTER THE SHUNT SURGERY
Wataru Narita

OPTIC PATHWAY DEGENERATION IN PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH)?
Andreas Eleftheriou

OTOLOGICAL SYMPTOMS ARE COMMON IN PATIENTS WITH IDIOPATHIC INTRACRANIAL HYPERTENSION AND ASSOCIATE WITH HIGH PREVALENCE OF PULMONOLOGICAL SYMPTOMS
Henna-Kaisa Jyrkkänen
SUBJECT-SPECIFIC MULTIPOROELASTIC MODEL FOR EXPLORING THE RISK FACTORS ASSOCIATED WITH MILD COGNITIVE IMPAIRMENT
John Vardakis

WORSENED INTRACRANIAL COMPLIANCE MAY CORRELATE TO WORSE SYMPTOMS IN NORMAL PRESSURE HYDROCEPHALUS
Hyun-Ji Kim

ICP DYNAMICS AND BRAIN WATER CONTENT IN IDIOPATHIC INTRACRANIAL HYPERTENSION
Terhi J Huttunen

COMPUTATIONAL ANALYSIS OF THE EFFECT OF POSTURE ON CEREBRAL HEMODYNAMICS AND INTRACRANIAL PRESSURE
Eun Bo Shim

ASSESSMENT OF CEREBRAL BLOOD FLOW VIA SPECTRAL ANALYSIS OF CEREBROSPINAL FLUID PRESSURE ACQUIRED DURING INFUSION TEST
Eun-Suk Song

VALIDATING AUTOMATED PARCELLATION OF THE SUB-COMPONENTS OF THE VENTRICULAR SYSTEM IN NORMAL PRESSURE HYDROCEPHALUS PATIENTS
Aaron Carass

INFLUENCE OF THE LUMBAR NEEDLE INTRINSIC RESISTANCE ON CSF HYDRODYNAMIC PARAMETERS DURING INFUSION TESTS
Eric A. Schmidt

Monday, 25 September 2017

Venue 1

08:00 - 09:00  Morning Seminar 3 (Toshiba)
   Chairs:
   Presenters:

09:00 - 10:00  Keynote Lecture 3-1 (Progress in iNPH)
   Chairs: Laurence Watkins, Masatsune Ishikawa
09:00 - 09:30  CEREBROSPINAL FLUID PRESSURE GRADIENTS AND PATHOPHYSIOLOGY OF HYDROCEPHALUS
Marijan Klarica

09:30 - 10:00  IMPROVING RECOGNITION OF INPH IN GENERAL PUBLIC, MEDICAL PROFESSION, AND NEUROLOGICAL SOCIETY
Etsuro Mori

10:00 - 11:00  Oral Presentation 3-1 (DESH)
Chairs: Michael A. Williams, Hiroaki Kazui

10:00 - 10:10  THE INPH SCALE AND DEshi-SCORING. EFFORTS AT ASSOCIATIONS AND PREDICTIONS
Per Hellström

10:10 - 10:20  DISPROPORTIONATELY ENLARGED SUBARACHNOID SPACE (DESH): AN EARLY SIGN OF INPH
Linda D'Antona

10:20 - 10:30  REGIONAL CEREBRAL BLOOD FLOW AT THE TOP OF HIGH CONVEXITY IS NOT INCREASED IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALOUS
Ryuichi Takahashi

10:30 - 10:40  BEGINNING OF PRECLINICAL STAGE OF IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS ON MRI
Yoshinaga Kajimoto

10:40 - 10:50  CHARACTERISTICS OF DIFFUSION TENSOR IMAGING PROFILES IN LATE STAGE NPH PATIENTS
Nicole C H Keong

10:50 - 11:00  ARTERIAL SPIN LABELING MRI (ASL) IN PATIENTS AFFECTED BY PROBABLE IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH): A QUANTITATIVE QUALITATIVE COHORT – PROSPECTIVE STUDY
Francesco Tuniz

11:00 - 11:30  Coffee Break & Exhibition

11:30 - 12:30  Oral Presentation 3-2 (ICP in iNPH)
Chairs: Grant Bateman, Hisayuki Murai

11:30 - 11:40  A TRANSVENOUS PRESSURE GRADIENT DIFFERENTIATES HYDROCEPHALUS FROM IDIOPATHIC INTRACRANIAL HYPERTENSION
Grant Bateman

11:40 - 11:50 INTRAPARENCHYMAL INTRACRANIAL PRESSURE MONITORING FOR HYDROCEPHALUS AND CEREBROSPINAL FLUID DISORDERS: WHAT ARE THE PRINCIPAL COMPONENTS?
Aswin Chari

11:50 - 12:00 LOWER BREAKPOINT OF INTRACRANIAL AMPLITUDE-PRESSURE RELATIONSHIP IN NPH
Zofia Czosnyka

12:00 - 12:10 THRESHOLD FOR THE RESISTANCE TO CSF OUTFLOW: SHOULD IT BE AGE-ADJUSTED?
Eva Nabbanja

12:10 - 12:20 NORDIC MULTICENTER STUDY ON THE USE OF THE PULSATILITY CURVE TO GUIDE SHUNT OPENING PRESSURE
Sara Qvarlander

12:20 - 12:30 LONG-TERM OUTCOMES OF SHUNTING FOR IDIOPATHIC INTRACRANIAL HYPERTENSION
Alexis Joannides

12:30 - 14:00 Lunch Seminar 3 (Mediphysics)
   Chairs:
   Presenters:

14:00 - 15:00 Keynote Lecture 3-2 (Brain Imaging)
   Chairs: Harold L. Rekate, Kazunari Ishii

14:00 - 14:30 CEREBROSPINAL FLUID DYNAMICS
   Shinya Yamada

14:30 - 15:00 A RADIOLOGICAL NPH CLASSIFICATION
   Ari Meir Blitz

15:00 - 16:00 Oral Presentation 3-3 (Brain Imaging)
   Chairs: William G. Bradley, Shigeki Aoki

15:00 - 15:10 PULSATILITY EVOLUTION'S OF THE BLOOD FLOW CURVES THROUGH THE CRANIUM
   Olivier Baledent
ASSOCIATION BETWEEN HIGH BIOMARKER PROBABILITY OF ALZHEIMER’S DISEASE AND CHANGE OF QUANTITATIVE REGIONAL CEREBRAL BLOOD FLOW AFTER SHUNT SURGERY IN PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS

Shingo Azuma

WATER TURNOVER IN BRAIN, VENTRICLES AND SUBARACHNOID SPACES IN NORMAL VOLUNTEERS AND PATIENTS WITH IDIOPATHIC NPH: DYNAMIC PET STUDY USING H215O

Mitsuhito Mase

IS THE SAGITTAL SINUS INVOLVED IN IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH)? ANALYSIS OF MRI CSF FLOW STUDIES IN PATIENTS UNDERGOING A CSF TAP TEST

Ryan Gallagher

CSF DYNAMIC DISTURBANCE SCALE – SUMMARISING IDENTIFIED INPH PATHOPHYSIOLOGICAL FLUID DYNAMIC PARAMETERS INTO A SINGLE SCORE

Anders Eklund

NONSYMMETRICAL PULSATILE PRESSURE DIFFERENCES ACROSS AN OPEN CEREBRAL AQUEDUCT. A CAUSE OF VENTRICULOMEGALY?

Petter Holmlund

Coffee Break & Exhibition

Oral Presentation 3-4 (sNPH & Side-effects)

Chairs: Eric A. Schmidt, Masakazu Miyajima

ROLE OF THE BRAIN AND CEREBROSPINAL FLUID FACTORS IN THE PATHOPHYSIOLOGY OF SECONDARY NORMAL PRESSURE HYDROCEPHALUS

Sadahiro Nomura

LONG-TERM OUTCOME OF SHUNT SURGERY IN PATIENTS WITH ANEURYSMAL SUBARACHNOID HEMORRHAGE

Terhi Huttunen

EXCESS MORTALITY ASSOCIATED WITH SHUNT-DEPENDENT HYDROCEPHALUS FOLLOWING ANEURYSMAL SUBARACHNOID HEMORRHAGE: A POPULATION BASED STUDY

Hadie Adams
17:00 - 17:10  JUNCTIONAL NEUROBIOLOGY IN THE PATHOGENESIS OF POST-HEMORRHAGIC HYDROCEPHALUS  
Pat McAllister

17:10 - 17:20  THE PATHOGENESIS OF POST-HEMORRHAGIC HYDROCEPHALUS IN INFANT FERRETS  
Pat McAllister

17:20 - 17:30  ASSESSMENT OF CEREBROSPINAL FLUID FLOW IN VENTRICULAR SHUNT SYSTEM USING CONTRAST-ENHANCED ULTRASOUND  
Salavat Aglyamov

17:30 - 17:40  A SINGLE CENTRE EXPERIENCE OF SHUNTED WOMEN WHO EXPERIENCE PREGNANCY / CHILDBIRTH: PATIENT FEEDBACK, NEUROSURGICAL INTERVENTIONS AND OBSTETRIC ADVICE  
Simon Thompson

17:40 - 17:50  NON-SURGICAL TREATMENT FOR CHRONIC SUBDURAL HEMATOMA ON PATIENTS WITH IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS AFTER SHUNT SURGERY  
Hisayuki Murai

17:50 - 18:00  HYDROCEPHALUS-SHUNT-MALFUNCTION: “PUMPING” A SHUNT: ITS DIAGNOSTIC RELEVANCE. A PROSPECTIVE EVALUATION  
Uwe Kehler

18:00 - 18:10  Closing Remarks

20:00 -  ISHCSF Board Dinner Meeting