

Final Program

Joint Congress of the International Children's Continence Society (ICCS) and The Society For Research Into Hydrocephalus And Spina Bifida (SRHSB)

June 21-24, 2017
Washington University School of Medicine
St. Louis, Missouri, USA

Locations:

Eric. P. Newman Educational Center (EPNEC)
BJC Institute of Health (BJCIH)
Farrell Teaching and Learning Center (FTLC)

Tuesday, June 20, 2017

12:00 – 17:00 ICCS Board Meeting with lunch –BJCIH 7th Floor Conference Room A/B

Wednesday, June 21, 2017

07:30 – 20:00 Registration – EPNEC Lobby

08:00 - 12:00 **ICCS Workshops**

1. ***Urodynamics I*** – EPNEC Great Room

Co-Directors: Paul Austin, MD and Mario De Gennaro, MD

8:00 - 8:05	Welcome/Introduction - Paul Austin, MD
8:05 – 8:45	Vision & Explanation of the Instruments – Christian Sager, MD
8:45 – 9:25	Non-invasive urodynamics Uroflowmetry - Israel Franco,MD
9:25 – 10:10	Urodynamics – Stephen Yang, MD, PhD
10:10 - 10:40	Break - EPNEC Lobby
10:40 – 11:15	Videourodynamics – Mario De Gennaro, MD
11:15 – 11:55	Pelvic floor Urotherapy – Anka Nieuwhof-Leppink, RN, PhD
11:55 - 12:00	Wrap-up Remarks – Paul Austin, MD

2. ***Bladder Management Program (CIC)*** – FTLC 4th floor classroom 403

Course Director: Konstatinos Kamperis, MD

8:00 - 8:05	Welcome/Introduction – Konstatinos Kamperis, MD
8:05 – 8:45	Standard Urotherapy and Role of Pelvic Floor Therapy– Anka Nieuwhof-Leppink, RN, PhD
8:45 – 9:25	Role of CIC and update on navigating catheter type and regimens – Ann Raes, MD
9:25 – 10:10	Co-morbid psychological conditons with bladder dysfunction – Alexander von Gontard, MD
10:10 - 10:40	Break - EPNEC Lobby

Wednesday, June 21, 2017 (continued)

- 10:40 – 11:15 TENS neuromodulation & bladder dysfunction – Ubirajaro Barroso, Jr., MD
11:15 – 11:55 Implantable sacral neuromodulation for refractory bladder dysfunction – Seth Alpert, MD
11:55 - 12:00 Wrap-up Remarks – Konstatinos Kamperis, MD

09:30 – 12:30 SRHSB Executive Committee meeting – BJC Institute of Health 7th floor Green Room, with box lunch

13:00 – 17:00 ICCS Workshops

1. ***Urodynamics 2*** - EPNEC Great Room
13:00 – 17:00 Hands-on with Dry Lab Urodynamic Equipment – All Faculty
2. ***Bowel Management Program*** – FTLC 4th floor classroom 403
Course Director: Charlotte Siggaard Rittig, MD
13:00 - 13:05 Welcome/Introduction – Charlotte Siggaard Rittig, MD
13:05 – 13:45 Role of Fiber and laxatives in managing bowel dysfunction – Charlotte Siggaard Rittig, MD
13:45 – 14:25 Enema irrigations in Non –neurogenic bowel - Cecilie Voldum Siggaard, MD
14:25 – 15:10 Enema irrigations in Neurogenic bowel – Eliane Fonseca, MD
15:10 - 15:40 Break - EPNEC Lobby or FLTC TBA?
15:40 – 16:15 Co-morbid conditons with bowel dysfunction – Anne Wright, MD
16:15 – 16:55 Role of neuromodulation with refractory bowel dysfunction – Seth Alpert, MD
16:55 - 17:00 Wrap-up Remarks – Charlotte Siggaard Rittig, MD

13:00 – 17:00 SRHSB Pre-meeting Sessions

1. ***Experimental Hydrocephalus*** – BJCIH 10th floor Conference Room A/B
Director: Hazel Jones, PhD
2. ***Clinical Cases*** – BJCIH 8th floor Conference Room A/B
Co-Directors: Marcus Pauly, MD, Roger Bayston, PhD
Moderators: Ian Pople, MD and David Nash, MD

18:00 – 20:00 **Welcome Reception** for all ICCS-SRHSB registrants – EPNEC Lobby
Welcoming Presentations by Paul Austin, MD; Pat McAllister, PhD; Dave Limbrick, MD, PhD; & Tryggve Nevéus

Thursday, June 22, 2017

07:30 – 13:30 Registration - EPNEC lobby

ICCS-SRHSB Program - EPNEC Auditorium

08:00 – 09:30 **Special Symposium Part A: “Transition of Care in Spina Bifida”**

08:00 – 08:15 Moderators: Paul Austin, MD and Andy Wynd, MBE, MIO

Introduction Kelm Hjälms Lectureship: Tryggve Nevéus, MD

08:15 – 08:45 **Kelm Hjälms Lecture** – "Back to the Future - Past Treatment and Long Term Care", Daniel N. Wood, MD; Consultant in Adolescent and Reconstructive Urology, University College London Hospitals, London, UK

08:45 – 09:15 **Special Lecture** - "Scaffolding the Future: Transition in Action", Sharon Levy, PhD; Programme Director of Nursing Studies, University of Edinburgh, Edinburgh, Scotland

09:15 – 09:30 Discussion

09:30 – 10:00 Break - Exhibitors and Poster Viewing – EPNEC Lobby

ICCS Program - EPNEC Auditorium

10:00 – 10:45 **Special Lecture**

Introduction: Paul Austin, MD

“Molecular Insights into Chronic and Recurrent Bladder Infections” – Thomas J. Hannan, MD, Department of Pathology and Immunology at Washington University School of Medicine, Vice President of Research at Fimbrion Therapeutics, Inc.

10:45 – 12:15 **Bladder I Abstracts Session: Basic Science and Epidemiology**

Moderators: Stephen Yang, MD, PhD and Stephen Canon, MD

10:45 – 10:54 44LO **Luise Borch** Identification of differentially expressed genes in biopsies from neurogenic bladders using RNAseq

10:55 – 11:04 79LO **Catharina Wagner** Identification of brain structures involved in transcutaneous electrical nerve stimulation (TENS) with functional magnetic resonance imaging (fMRI) – a preliminary report

11:05 – 11:14 51LO **Alexander von Gontard** Central nervous system processing of emotions in children with daytime urinary incontinence

11:15 – 11:24 73LO **Anka Nieuwhof-Leppink** Incontinence in children with and without ASD and sensory processing problems

Thursday, June 22, 2017 (continued)

- 11:25 – 11:34 87LO **Claire Foster** Comparison of the characteristics of Dysfunctional and Underactive voiders in a Biofeedback clinic.
- 11:35 – 11:44 52LO **Alexander von Gontard** Incontinence and headache in preschool children – a population-based study
- 11:45 – 11:51 103SO **Jose Murillo Netto** Prolonged toilet training in children with down syndrome: A case-control study
- 11:52 – 11:59 49LO **Emily Rice** Achievement of continence and associated factors – results from a population-based survey in Germany (KiGGS)
- 12:00 – 12:06 50SO **Justine Niemczyk** Incontinence in children with Fetal Alcohol Spectrum Disorders (FASD): a South African cohort
- 12:07 – 12:13 68SO **Justine Niemczyk** Incontinence problems in persons aged 4 to 9 years with Fetal Alcohol Spectrum Disorders (FASD): a Polish study
- 12:14 – 12:23 100SO **Anne Wright** Bladder dysfunction in Children and Young people with Ehlers Danlos syndrome
- 90Poster **Gabriela Hellman Dircksen** Prevalence of lower urinary tract symptoms in children between the ages of 6-12 from Brazilian public primary schools
- 12:30 – 13:00 ICCS General Assembly Meeting with box lunch – EPNEC Auditorium

SRHSB Program – EPNEC Seminar B

- 10:00 – 11:00 **Special Symposium Part B: “Transition of Care in Hydrocephalus”**
Moderators: Jack Walker, MD and Pat McAllister, PhD
- 10:00 – 10:20 “A Patient’s View of Transition of Care”, Olivia Maccoux, Hydrocephalus Association and Augsburg College, Minneapolis, MN, USA
- 10:20 – 11:00 “Transition is But the First Step in a Journey of 1000 Miles. Report of the Hydrocephalus Association Summit on Transitional Care”, Michael A. Williams, MD; Department of Neurology, University of Washington, Seattle, WA, USA
- 11:00 – 11:40 “Neurosurgical Comparisons between Children and Adults with Hydrocephalus”, Mark Luciano, MD, PhD; Johns Hopkins Hospital, Baltimore, USA

- 11:40 – 12:00 General Discussion and Questions
- 12:20 – 13:00 SRHSB Annual General Meeting with box lunch – EPNEC Seminar B

ICCS-SRHSB Retreat– Missouri Botanical Gardens

- 14:00 Buses depart from EPNEC for the Missouri Botanical Gardens for tours & strolls
- 17:00 Buses depart the Missouri Botanical Gardens to return to hotels

ICCS-SRHSB Conference Dinner – The Bauernhof at Grant’s Farm

- 18:30 Buses depart hotels for Grant’s Farm
- 19:00 – 20:00 Beer & Wine Reception – The Bauernhof courtyard and grounds at Grant’s Farm
- 20:00 – 21:00 Dinner and Entertainment – The Todd Hill quintet
- 22:00 Buses return to hotels

Friday, June 23, 2017

- 07:30 – 18:00 Registration – EPNEC Lobby

ICCS-SRHSB Joint Program - EPNEC Auditorium

- 08:00 – 09:55 **Special Lectures:**
Moderators: David D. Limbrick, MD, PhD and Mario De Gennaro, MD
Introduction of ICCS OSD Document Lecturer: Stephen Yang, MD, PhD
- 08:00 – 08:45 “Evaluation and Management of Tethered Cord Syndrome in Occult Spinal Dysraphism: Recommendations from the International Children’s Continence Society”, Gerald Tuite, MD; Institute of Brain Protection Science, Division of Pediatric Neurosurgery, Johns Hopkins, All Children’s Hospital, St. Petersburg, FL, USA
- 08:45 – 09:30 “Fetal In-Utero Repair of Myelomeningocele in The Post-MOMS Trial Era”, Samer Elbabaa, MD; Department of Neurological Surgery, St. Louis University School of Medicine, St. Louis, MO, USA
- 09:30 – 09:55 General Discussion and Questions
- 09:55 – 10:25 Break - Exhibitors and Poster Viewing – EPNEC Lobby
- 10:25 – 11:00 **Panel Session 1: Transitional Care**
Moderator: Gino Vricella, MD
Panelists: Dan Wood, MD, Rosalia Misseri, MD, Gino Vricella, MD

Friday, June 23, 2017 (continued)

11:00 – 11:45

Transitional Care Abstracts Session

Moderators: Dan Wood, MD and Mario De Gennaro, MD

11:00 – 11:09

57LO **Eun Kyong Choi** Are the women with spina bifida satisfied with their sexual activity?

11:09 – 11:15

84SO **John Weaver** The Transition Readiness Assessment Questionnaire stratifies patients into clinical risk categories

11:15 – 11:21

19SO **Zdenek Dite** Urological risks of spinal cord tethering in adolescence- the importance of transitional care

11:21 – 11:30

59LO **Shang-jen Chang** Constipated adolescents at higher risk for having daytime urinary incontinence: a community-based study

11:45 – 12:30

Bladder II Abstracts Session – Pathogenesis and Evaluation

Moderators: Israel Franco, MD and Anne Wright, MD

11:45 – 11:54

18LO **Kazuyoshi Johnin** A portable uroflowmetry device named P-Flowdiary combined with frequency volume charts is useful in clarifying lower urinary tract symptoms in children.

11:54 – 12:03

23LO **Chia Cheng Su** Lower urinary tract dysfunction with vesicoureteral reflux is a more significant risk factor predicting recurrent UTI in infants

12:03 – 12:09

38SO **Hasan Cem** A new phenomenon in the pathophysiology of lower urinary tract dysfunction in children: Pelvic floor dysfunction

12:09 – 12:15

45SO **Monica Vasconcelos** School performance and executive functions assessment in children and adolescents with Lower Urinary Tract Dysfunction and Attention Deficit Hyperactivity Disorder symptoms

12:15 – 12:21

94SO **Ubirajara Barroso** Relation between Lower urinary symptoms and stress in children and adolescents

12:21 – 12:27

99SO **Shang-jen Chang** Bell and Tower Uroflowmetry Curves May Be Regarded As One Category in Healthy Adolescents

39Poster **Hasan Cem** Pelvic floor muscle activity in children with giggle incontinence

Friday, June 23, 2017 (continued)

- 12:30 – 13:30 Lunch – EPNEC Great Room
- 13:30 – 14:30 **Neurogenic Bladder Abstracts Session**
Moderators: Eliane Garcez da Fonseca, MD and Rosalia Misseri, MD
- 13:30 – 13:36 106SO **Sang Woon Kim** Alterations of Autonomic Nervous System Activity During Bladder Filling in children with Spina Bifida
- 13:36 – 13:42 16SO **Israel Franco** Does bladder work correlate with shear wave velocity?
- 13:42 – 13:48 63SO **John Weaver** Utilization of urodynamics to predict the need for augmentation with bladder neck reconstruction
- 13:48 – 13:54 83SO **Abby Taylor** Urodynamic predictors of improvement in bladder function following pediatric tethered cord release
- 13:54 – 14:00 93SO **Israel Franco** Can a new quantitative method of measuring urodynamic work identify differences between submucosal intratrigoanal vs. intramuscular trigonal sparing Botulinum Toxin A injections?
- 14:00 – 14:06 21SO **Agata Korzeniecka-Kozerska** Retinol Binding Protein and cystatin C as renal function markers in children with neurogenic bladder after meningomyelocele.
- 14:06 – 14:12 76SO **Nibedita Gupta** Efficacy and safety of solifenacin oral suspension in pediatric patients with neurogenic detrusor overactivity
- 14:12 – 14:18 75SO **Nibedita Gupta** Development of an age-appropriate treatment with mirabegron tablets or suspension in children with neurogenic detrusor overactivity or overactive bladder
- 14:18 – 14:24 48SO **Emily Rice** Efficacy and safety of transdermal oxybutynin versus oral oxybutynin in management of paediatric neurogenic bladder
- 14:24 – 14:30 101SO **Anne Wright** The Long-term outcome of Lipomyelomeningocele in children.

Friday, June 23, 2017 (continued)

95Poster **Ubirajara Barroso** Spina bifida in children and adolescents with overactive bladder. Prevalence and treatment with parassacral TENS

32Poster **Herman Azanmasso** Neuro-uologic monitoring of spina bifida

14:45 – 15:30 **Special Lecture**

Introduction: Paul Austin, MD

“Implications of the Gut Microbiome” - Jeffrey Gordon, MD, Dr. Robert J. Glaser Distinguished University Professor, Director of the Center for Genome Sciences and Systems Biology, Washington University School of Medicine

15:30 – 16:00 Break - Exhibitors and Poster Viewing – EPNEC Lobby

16:00 – 17:00 **Bowel Dysfunction (BBD) Abstracts Session**

Moderators: Charlotte Siggaard Rittig, MD and Anka Nieuwhof-Leppink, RN, PhD

16:00 – 16:10

105 **Shang-jen Chang** Diagnosis and Management of Bladder Bowel Dysfunction in Children with Urinary Tract Infections: A Position Document from the International Children’s Continence Society

16:10 – 16:19

77LO **Shina Kawai** The criteria of bowel dysfunction in BBD is different from the Rome criteria

16:19 – 16:25

24SO **Saskia Vande Velde** The Predictive Value of Colon Transit Time and Anorectal Manometry in the Approach of Fecal Continence in Children with Spina Bifida.

16:25 – 16:34

30LO **Joana Dos Santos** The pediatric bladder and bowel dysfunction network: an innovative initiative to improve the management of bladder and bowel dysfunction in children

16:34 – 16:40

65SO **Hirokazu Ikeda** Efficacy of lactulose plus stimulant laxatives in the first line treatment for children with bladder and bowel dysfunction.

16:40 – 16:46

25SO **Saskia Vande Velde** Two different colon enema systems are studied in children in a patient-control cross-over manner, preliminary results

Friday, June 23, 2017 (continued)

- 16:46 – 16:52 102SO **Elaine Fonseca** Transcutaneous electrical stimulation in children and adolescents with LUTS and refractory constipation: A pilot study.
- 16:52 – 17:00 43SO **Natalie Sikes** Analysis of Biofeedback on Non-Neurogenic Bladder and Bowel Dysfunction with a History of Tethered Cord Syndrome
- 26Poster **Saskia Vande Velde** Hypertension and colon enemas, is there a link? A case report

SRHSB Program – EPNEC Breakout Rooms 308-310

- 13:30 – 14:30 **Hands-on Demonstration:** “Understanding the Hydrodynamics, Principles, and Performance of Shunts” – Bill Sugleris, Medtronic Neurologic Technologies
- 14:45 – 15:45 **Hands-on Demonstration** (repeat): “Understanding the Hydrodynamics, Principles, and Performance of Shunts” – Bill Sugleris, Medtronic Neurologic Technologies
- 16:00 – 17:00 **SRHSB Spina Bifida & Hydrocephalus Session**
Moderators: Margareta Dahl, MD and Mikkel Rasmussen, MD
- 16:00 SB1: **Charlotte Rosenkrantz-Bodin** et al. The national incidence, detection rate and pregnancy outcome of spina bifida in Denmark 2008-2015
- 16:10 SB2: **Natalie Sanford** et al. Bring it on: promoting self-management through the use of a mobile application during transition in emerging adults with spina bifida and hydrocephalous
- 16:20 SB3: **Sharon Levy**. Using Emotional Touch Points as an innovative method for collecting research data
- 16:30 S4: **Elizabeth Kuhn** et al. Practice Preferences for Neurosurgical Management in Spina Bifida: a survey of the American Society for Pediatric Neurosurgery- Part III: Neurosurgical Perspective on Transitional Care
- 16:40 SB5: **Llina Pappa** et al. Exome analysis in an Estonian multiplex family with neural tube defects - a case report

Saturday, June 24, 2017

07:30 – 13:00 Registration – EPNEC Lobby

ICCS Program - EPNEC Auditorium

- 08:00 – 08:45 **Panel Session 2: Alternative Therapies for Bladder Dysfunction –**
Moderator: Israel Franco, MD
Panelists: Israel Franco, MD (Botox), Ubirajaro Barroso, Jr, MD (TENS) and Seth Alpert, MD (interstim)
- 08:45 – 09:10 **Special Lecture: “Current Update on the Pharmacology of the Bladder” –** Anne Wright MD, Evelina London Children’s Hospital, St Thomas’ Hospital, London, UK
- 09:10 – 10:00 **Bladder III Abstracts Session: Treatment**
Moderators: Søren Rittig, MD, PhD and Ann Raes, MD
- 9:10 – 9:16 88SO **Luitzen Groen** Two stitch colposuspension in girls with severe therapy resistant incontinence: 25 Years Experience
- 9:16 – 9:25 8LO **Justine Niemczyk** Effects of Standard Urotherapy in Daytime Urinary Incontinence – a Meta-analysis
- 9:25 – 9:31 15SO **Anka Nieuwhof-Leppink** Children’s preferences for bladdertraining using a serious game .
- 9:31 – 9:37 67SO **Maria Luisa Capitanucci** Is external pubo-coccygeus test (PC test) in girls feasible and useful for pelvic-floor rehabilitation?
- 9:37 – 9:46 56LO **Luis Borch** Combining Transcutaneous Electrical Nerve Stimulation (TENS) with oxybutynin is superior to monotherapy in children with urge incontinence – a randomized, placebo-controlled study
- 9:46 – 9:52 92SO **Ubirajara Barroso** Parasacral TENS 2 vs. 3 times a week for overactive bladder in children: A randomized clinical trial
- 9:52 – 9:58 91SO **Ubirajara Barroso** Percutaneous parasacral neuromodulation for overactive bladder in children – A pilot study
- 104Poster **Rita Pereira** Physiotherapy techniques in Treatment of Nocturnal Enuresis and Other Voiding Dysfunctions: a Systematic Review
- 9Poster **MiChelle McGarry** Retinol Binding Protein and cystatin C as renal function markers in children with neurogenic bladder after meningomyelocele.

Saturday, June 24, 2017 (continued)

- 10:00 – 10:30 Break - Exhibitors and Poster Viewing – EPNEC Lobby
- 10:30 – 11:50 **Panel Session 3: New Aspects of Enuresis Care and Research**
Moderator: Søren Rittig, MD, PhD
Panelists: Søren Rittig, MD, PhD – Role of Genetics and Enuresis
Konstantinos Komparis, MD – Optimization of Desmopressin Response
Ann Raes, MD – Role of Sleep and Enuresis
Tryggve Nevéus, MD – Therapeutic Approach in Non-monosymptomatic Enuresis.
- 11:50 – 12:45 Lunch – EPNEC Great Room
- 12:45 – 14:00 **Nocturnal Enuresis Abstracts Session**
Moderators: Konstantinos Komaris, MD and Tryggve Nevéus, MD
- 12:45 – 12:51 36SO **Hasan Irkilata** Pelvic floor muscle activity and pelvic floor rehabilitation in resistant enuresis nocturna
- 12:51 – 13:00 33LO **Catharina Wagner** Anxiety in children with incontinence and their parents before and after treatment
- 13:00 – 13:09 98LO **Kathleen Kieran** First Impressions matter: Opportunities to enhance the quality of internet searches about bedwetting
- 13:09 – 13:15 10SO **Ingrid Jonson Ring** Health related quality of life in children with Nocturnal Enuresis – using a Swedish version of the Paediatric Incontinence Questionnaire
- 13:15 – 13:24 35LO **Cecille Siggaard** Transcutaneous electrical nerve stimulation in children with monosymptomatic nocturnal enuresis: A randomized, double-blind, placebo-controlled study
- 13:24 – 13:33 81LO **Tryggve Neveus** Influence of noradrenergic treatment on voiding chart data in enuretic children
- 13:33 – 13:39 29SO **Joana Dos Santos** Neurostimulation therapy for pediatric primary nocturnal enuresis (PNE): A meta-analysis
- 13:39 – 13:45 96SO **Ubirajara Barroso** A new app as a support for urotherapy in children with lower urinary tract symptoms and enuresis.
- 13:45 – 13:51 78SO **Charlotte Van Herzele** Enuresis from scientific angle to simple messaging for treating physicians in primary care

Saturday, June 24, 2017 (continued)

- 13:51 – 13:57 42SO **Lien Dossche** How can we improve the care for children with bedwetting? Update of the multidisciplinary Ghent - model.
- 34Poster **Rita Pereira** Development of a home-based task-oriented program for parents and children with voiding dysfunction and nocturnal enuresis
- 14:00 – 14:05 Announcement of 2018 ICCS Meeting and Adjournment – EPNEC Auditorium

SRHSB Program – EPNEC Seminar B

- 08:00 – 09:50 **Hydrocephalus 1: Experimental Hydrocephalus**
Moderators: Carolyn Harris, PhD and Hazel Jones, PhD
- 08:00 H1: **June Goto** et al. Genetic characterization of a new mouse model of pediatric hydrocephalus
- 08:10 H2: **Zakia Abdelhamed** et al. Defective ependymal motile cilia causes hydrocephalus in a new model of neonatal hydrocephalus, the prh mouse mutant
- 08:20 H3: **Shawn Vuong** et al. Gene expression profiling analysis of the choroid plexus in a novel mouse model of pediatric hydrocephalus
- 08:30 H4: **Agustin Castaneyra-Perdomo** et al. Valsartan treatment effects on the choroid plexus in spontaneously hypertensive rats
- 08:40 H5: **Yun Yung** et al. Blood-derived lysophosphatidic acid signaling alters mitotic spindle orientation and subsequent cell fates of neuroprogenitor cells in post-hemorrhagic hydrocephalus
- 08:50 H6: **Pat McAllister** et al. Ventricular zone disruption in a new gyrencephalic model of post-hemorrhagic hydrocephalus
- 09:00 H7: **Leandro Castaneyra Ruiz** et al. Ventricular zone disruption in a novel in vitro model of posthemorrhagic hydrocephalus: the role of cell junctions
- 09:10 H8: **Leandro Castaneyra Ruiz** et al. Role of ventricular zone junctional biology in posthemorrhagic hydrocephalus.
- 09:20 H9: **Patricia Paez-Gonzalez** et al. Developing new therapies to treat brain ventricular wall damage during hydrocephalus
-  09:00 H10: **Antonio Jimenez** et al. NG2 cells in an animal model of congenital hydrocephalus
- 09:40 H11: **Jenna Koschnitzky**. Hydrocephalus Association Network for Discovery Science

Saturday, June 24, 2017 (continued)

- 09:50 **Casey Holter Lecture:**
Introduction: Pat McAllister, PhD
“Born with Spina Bifida – a Life to Live”, Sven Mattson, MD, PhD;
Department of Pediatrics at the University Hospital of Linköping,
Sweden
- 10:20 – 10:50 Break – EPNEC Lobby
- 10:50 – 11:50 **SRHSB Guthkelch Award Finalist Presentations**
Introduction: Carolyn Harris, PhD
Moderators: Ian Pople, MD and Michael Williams, MD
- 10:50 G1: **Joel Haakon Borgstedt-Bakke** et al. The incidence and effect of tethered cord release for tethered cord syndrome in myelomeningocele patients - population based study
- 11:05 G2: **Katherine Belfield** et al - Bacterial attachment to urinary catheters: how does this affect symptom presentation?
- 11:20 G3: **Maria Garcia-Bonilla** et al. Effect of bone marrow-derived mesenchymal stem cells on congenital hydrocephalus in the hyh mouse
- 11:35 G4: **Sulmaz Zahedi** - Micro-fabricated arachnoid granulations for treating hydrocephalus
- 11:50 – 12:45 Lunch – EPNEC Great Room
- 12:45 – 13:35 **Hydrocephalus 2: Clinical Hydrocephalus & Biomedical Engineering**
Moderators: Antonio Jimenez, PhD, David Nash, MD and Mark Luciano, MD, PhD
- 12:45 H12: **Pei-Yi Lin** et al. Novel optical diagnostic for infant hydrocephalus in both the developed and developing world
- 12:55 H13: **Brandon Baksh** et al. Cerebrospinal fluid parameters alone do not inform infection management in posthemorrhagic hydrocephalus
- 13:05 H14: **Ian Pople** et al. Multicentre randomised trial of drainage, irrigation and fibrinolytic therapy (drift) for premature infants with posthaemorrhagic ventricular dilatation; neurodisability at school-age
- 13:15 H15: **Margareta Dahl** et al. Early or precocious puberty in children with shunted pre/perinatal hydrocephalus with and without myelomeningocele
- 13:25 H16: **Sulmaz Zahedi** – Heat shrink tubing for secure connection of valve and shunt
- 13:35 – 13:45 Welcome to the 2018 Annual Meeting
- 13:45 – 14:00 SRHSB award presentations and closing remarks
- 14:00 Adjourn
- 14:30 – 16:00 SRHSB Executive Committee meeting

Thursday, June 22, 2017 through Saturday June 24, 2017: SRHSB Posters

P1: Prashant Hariharan & Carolyn Harris. Masking shunts with monolayers of ciliated epithelial cells to impede the foreign body response in the treatment of hydrocephalus.

P2: Michael Smith & Ramin Eskandari. Elevated intracranial pressure: modeling pressure-induced cellular injury ex vivo.

P3: Pat McAllister, et al. Ventricular zone disruption in human neonates with intraventricular hemorrhage.

P4: Scott Emmert, et al. CRISPR/cas9-based development of novel transgenic rat model of x-linked hydrocephalus.

P5: Takayuki Inagaki & Gary Schoenwolf. Role of primary cilia in the developing chick.

P6: Jeff Blount, et al. Hydrocephalus based procedures in an adult/transition Spina Bifida Clinic: a 5 year experience

P7: Jeff Blount, et al. Practice Preferences for Neurosurgical Management in Spina Bifida: a survey of the American Society for Pediatric Neurosurgery- Part I: Neonatal and Infancy Issues/Challenges.