The 63rd Annual Meeting of our Society will continue our traditional focus and personable approach (http://srhsb.com). The program will focus mainly on research in hydrocephalus, neural tube defects, and spina bifida, with the days and times designated for each topic contingent upon the abstracts submitted. We will provide leisure time to visit Tenerife Island and enjoy its rich gastronomy, and we are planning special sessions on brain development, transitional care for patients with hydrocephalus and spina bifida and new innovative technology for patients' treatment. Historically, the Canary Islands have been a meeting point between Europe, Africa, and America; therefore, we believe that Tenerife is the perfect location to bring together international knowledge about hydrocephalus and spina bifida.

### Saturday, June 29, 2019

**Session 7: Innovative Device Technology, Investigative Platforms and the Evolving Regulatory Landscape**

**09:00 - 09:20**

Dr. John Pickard  
“Barriers to innovation in the care of patients with CSF disorders” (moderate session)

**09:20 - 09:40**

Dr. Marcelo Galarza  
“Bench testing: mathematical modeling of shunt designs; clinical results of the parametric catheters”

**09:40 - 10:00**

Dr. Pat McAllister  
“In vivo testing of surgical and diagnostic devices for hydrocephalus”

**10:00 - 10:20**

Dr. David D. Limbrick  
“Patient Registries - HCRN, Park-Reeves, etc.”

**10:20 - 10:40**

Dr. Roger Bayston  
“Regulatory issues for approval of combination devices for shunts and EVD”

**10:40 - 11:00**

Anuncia  
“Non-invasive Ventricular Shunt Occlusion Intervention; a New Option in Hydrocephalus Management.”

**11:00 - 11:20**

Open Discussion

**11:20 - 11:35 Break**

**11:35 – 12:10**

SRHSB award presentations and closing remarks

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**Members of the local organizing committee at La Laguna University:**

- Emilia M. Carmona-Calero, MD, PhD - Neuroanatomist, full professor in Anatomy and embryology at La Laguna University
- Ibrahim Gonzalez-Marrero, PhD - Neuroanatomist, assistant professor in Anatomy and embryology at La Laguna University
- Luis G. Herrera-Aleix, MS - PhD student at La Laguna University
- Victor García-Marin, MD, PhD - Professor of Neurosurgery and Chief of the surgery department at Canary University Hospital
- Libert Borge-Martín, MD - Neurosurgeon at Canary University Hospital
- Maria Dolores Mejias - Secretary of the Alumni Foundation of ULL
**Detailed program**

**Wednesday, June 26, 2019**

08:00 - 13:30 Registration

08:45 - 09:00 Opening Remarks: Dr. Agustín Castaneyra-Perdomo and Dr. Leandro Castaneyra-Ruíz

09:00 - 10:20 Symposium: Origins of Hydrocephalus and Its Outcomes in the Present. Dr. Roger Bayston and Prof. Roger Bayston

09:00 - 09:40 Dr. Victor García, PhD, MD: “Hydrocephalus; From Hippocrates to Dandy and to present. In the future?”

09:40 - 10:20 Dr. David D. Limbrick, JR., PhD, MD: “Current Treatments for Hydrocephalus”

10:20 - 10:35 Break

10:35 - 12:05 Session 1: Clinical Aspects of Hydrocephalus

10:35 - 10:50 Dr. Liberto Brage-Martin: “Current state of neuroendoscopy for the treatment of hydrocephalus”

10:50 - 11:05 Dr. Alay Choudhary: “Management of hydrocephalus due to tuberculous meningitis: controversy and evolving consensus”


11:20 - 11:35 Dr. Afroditi Lalou: “Global cerebral autoregulation, resistance to CSF outflow and cerebrovascular burden in Normal Pressure Hydrocephalus”


11:50 - 12:05 Dra. Pat McAllister: “Correlations between brain stiffness, headaches and ventricular size using magnetic resonance elastography in children with hydrocephalus”

12:05 - 12:35 Sociology Photograph

12:35 - 14:00 Lunch and SRHSB Annual General Meeting

15:00 - 17:00 SRHSB Retreat with dinner (Trip to volcano Teide)

14:30 - 15:45 Session 4: Hydrocephalus; a cytological disease

14:30 - 14:45 Dr. Fumimaylo Qilipzade: “The progression of kaolin-induced hydrocephalus: light and electron microscopic features in rats”

14:45 - 15:00 Dra. Maria Garcia-Bonilla: “Long-term effects of an experimental therapy with massacitic stem cells in congenital hydrocephalus”

15:00 - 15:15 Dr. Omomwami Fami-Akinlodosu: “Temporal changes in the brain in neonatal hydrocephalus mice: structural and neurobehavioural findings”

15:15 - 15:30 Dra. Monserrat Guerra: “Grafting of subcommissural organ cells improves neurological deficits in the hydrocephalic brain”

15:30 - 15:45 Dra. Patricia Pascz Gonzalez: “PSF differentiation into spinaline progenitors to treat ventricular damage during hydrocephalus”

15:45 - 16:00 Break

16:00 - 17:15 Session 5: Hydrocephalus as an Inflammatory Disease

16:00 - 16:15 Dra. Betsabea Ojeda-Pere: “Neuropathological events in an animal model resembling human fetal post-hemorrhagic hydrocephalus”

16:15 - 16:30 Dr. Leandro Castanearya-Ruiz: “Post-infectious and post-hemorrhagic hydrocephalus may have a common pathway that triggers ventricular zone disruption”

16:30 - 16:45 Dr. Kristopher T. Kahle: “A role for inflammation; TLR-4-mediated cerebrospinal fluid hypersecretion in post-hemorrhagic and post-infectious hydrocephalus”

16:45 - 17:00 Dr. Fumimaylo Qilipzade: “Persistant ventriculotomy in hydrocephalic rat brains: neuroimmaturation response”

17:00 - 17:15 Dr. Albert Isacu: “Quantification and differentiation of periventricular white matter injury in post-hemorrhagic hydrocephalus using diffusion basis spectrum imaging”

17:15 - 18:15 Session 6: Spina Bifida: Clinical Aspects

17:15 - 18:15 Dr. Rahul Desh Sharma: “Urinary incontinence is a major factor in determining the quality of life in spina bifida patients”

17:30 - 17:45 Dr. Rahul Desh Sharma: “Factors affecting outcomes of bladder augmentation surgery in spina bifida patients”

17:45 - 18:00 Dr. Taksayagi Inagaki: “Management of fast skin breakdown in spinal lopoma patient”

18:00 - 18:15 Dra. Shania Yesmin: “A sociological study of mothers’ knowledge towards hydrocephalus and spina bifida in The Children Hospital, Lahore, Pakistan”

19:30 - 19:30 Conference Banquet