TIME (GMT / UTC)	FRIDAY 12th NOVEMBER 2021
	Session A Experimental - Neuroinflammation and hydrocephalus
13:00-13:30	A1 Plenary Speaker - Professor Pat McCallister - Neuroinflammation in Hydrocephalus
13:30-13:45	A.2 Garcia-Bonilla M et al: Mesenchymal stem cells can modulate the astrocyte reaction during the evolution of hydrocephalus.
13:45-14:00	A.3 Garcia-Bonilla M et al: Periventricular alterations and neuroinflammation in juvenile pigs with hydrocephalus
14:00-14:15	A.4 Rodriguez-Perez LM et al: Differential effects of specialised cell therapies to treat ventricular damage in animals presenting with induced intraventricular haemorrhage and PHH.
14:15-14:30	A.5 Ojeda-Perez B et al: Alterations in the cerebral parenchyma associated with post-haemorrhagic hydrocephalus can be detected even in cases with a mild ventriculomegaly.
14:30-14:45	A.6 Castaneyra-Ruiz L et al: ADAM 10-dependent cleavage of cerebral cadherin junctions induce ventricular zone disruption, vessel impairments and hydrocephalus. A unified mechanism that mimics the pathophysiology of acquired hydrocephalus.
14:45-15:00	A.7 Keener M et al (Cincinnati USA): A novel approach to treating X-linked hydrocephalus through the development and delivery of an L1cam-containing adeno-associated virus.
15:00-15:30	*Break*
	Session B Cerebral folate
15:30-15:45	B.1 Syeda-Farwa N et al: Cerebral folate metabolism presents a novel aspect in Alzheimer's disease.
15:45-16:00	B.2 Buttercase C (Manchester UK) - Investigating progression of cerebral folate status in living patients suffering from Alzheimer's and other dementias.
16:00-16:15	B.3 Mackellar E (Edinburgh and Manchester UK) - Cerebral folate metabolism in normal pressure hydrocephalus.

	Session C Clinical
16:15-16:45	C.1 Plenary Speaker: Alya Hasan (Kuwait) - Hydrocephalus Post Fetal MMC Repair
16:45-17:00	C.2 Abdalla MA: Buoyancy aspect of the CSF circulation.
17:00-17:15	C.3 Dutta M (Assam, India) - Ages and Stages Questionnaires: feasibility of online survey for post-shunt hydrocephalus follow-up.
17:15-17:30	C.4 Schmidt E: Pediatric versus geriatric neurosurgery – a comparison in the published medical literature.
17:30-17:45	C.5 Miyan J et al: Can the choroid plexus and CSF compensate for the loss of neurotransmitters in the brain – a study of Alzheimer's disease.
17:45-18:00	C.6 Seunghyun L et al: 3D printed Catheter-free and fully-passive miniaturized valve for hydrocephalus treatment. (NB 2 similar abstracts submitted).
18:00-18:15	*Break*
	Session D RCTs and Registries in Hydrocephalus & Idiopathic Intracranial Hypertension
18:15-18:45	D.1 Plenary Speaker - Professor John Pickard - Complimentary roles of Registries and RCTs in advancing the care of patients with CSF disorders
18:45-19:15	E.1 Guest Plenary Speaker: Professor Hazel Jones - Evolution of the Journal Fluids and Barriers of the CNS
19:15-19:30	Closing remarks - President and President Elect