



## Hydralab+ Trans-national Access Programme of Joint User Meeting

The Hydralab Joint User Meeting is a mini-conference during the 6<sup>th</sup> Hydralab+ event in Bucharest on May 23, 2019. The (preliminary) results of each Trans-national Access project of Hydralab+ will be presented. The projects cover the following topics:

1. Ice engineering
2. Oceanography & mixing processes
3. Flows & environmental research
4. Wave/flow structure interactions
5. Coastal hydrodynamics
6. Morphodynamics and sediment transport

These topic numbers are used in the following overview of the programme:

start	end	Room: "I.L. Caragiale"	topic	Room: "Academiei"	topic
09:00	09:05	Opening: Mark Klein Breteler		Opening: Pierre-Yves Henry	
		session 1a, chair: Mark Klein Breteler		session 1b, chair: Pierre-Yves Henry	
09:05	09:25	H+-DHI-09-SparBOFWEC	4	H+-UPC-01-CIEM	5
09:25	09:45	H+DHI-10-HyWEdges	3	H+-UPC-03-CIEM	6
09:45	10:05	H+-DHI-01-WaveCurrentInt	5	H+-UPC-02-CIEM	6
10:05	10:25	H+-Deltares-03-DF-Kortenhaus	4	H+-NTNU-01-StratWeb	3
10:25	10:45	H+-Deltares-12-DB-Heller	5	H+-Aalto-02-Wave	1
10:45	11:20	coffee/tea			
		session 2a, chair: Stefan Schimmels		session 2b, chair: Andrea Haase	
11:20	11:40	H+-Deltares-16-DB-Bruce	4	H+-AALTO-06-UNIS	1
11:40	12:00	H+_LUH_03_Basin_RodBreak	4	H+-HSVA-01-Kvaerner	1
12:00	12:20	H+_LUH_08_GWK_DynaRev	6	H+-HSVA-02-UCL	1
12:20	12:40	H+_LUH_17_GWK_ICODEP	4	HY+_HSVA-06_UNIS	1
12:40	13:00	H+_LUH_22_GWK_RESIST	3	HY+_HSVA-08_UNI ST.ANDREWS	2
13:00	14:00	lunch			
		session 3a, chair: Stuart McLelland		session 3b, chair: Joel Sommeria	
14:00	14:20	H+-HULL-01-TES	6	H+-CNRS-01-Adduce	2
14:20	14:40	H+-HULL-02resub-TES	3	H+-CNRS-02-Darelius	2
14:40	15:00	H+-HULL-07-TES	3	H+-CNRS-07-Gacic	2
15:00	15:20	H+-HULL-10-TES	6	H+-CNRS-08-Pierini	2
15:20	16:00	H+-HRW-02-Kleinhaus	6	H+-CNRS-06-DeSerio	3
15:40	16:00	H+-HRW-01-Troch	4		
16:00	16:30	coffee/tea			
16:30	17:15	Feedback session, chair: Mark Klein Breteler			

## Detailed programme

<b>Session 1a</b> (Room: "I.L. Caragiale")	<b>Session 1b</b> (Room: "Academiei")
<p><b>09:05 H+-DHI-09-SparBOFWEC</b>            User group leader: Roberto Tomasicchio            Presenter: Griet Decorte and Elisa Leone            Title: Spar Buoy for Offshore Floating Wind Energy Conversion            Facility: DHI Ocean Wave Basin</p>	<p><b>09:05 H+-UPC-01-CIEM</b>            User group leader: Ming Li            Presenter: Dominic van der A            Title: Hydrodynamics and turbulence under breaking waves            Facility: UPC-CIEM</p>
<p><b>09:25 H+DHI-10-HyWEdges</b>            User group leader: Lucy Gwen Gillis            Presenter: Lucy Gwen Gillis            Title: HyWEdges (hydrodynamics at coastal wetland edges)            Facility: DHI Shallow water basin</p>	<p><b>09:25 H+-UPC-03-CIEM</b>            User group leader: Adam Bezuijen            Presenter: Adam Bezuijen            Title: Large scale experiments for an alternative erosion control measure using sand-filled geosystems            Facility: UPC-CIEM</p>
<p><b>09:45 H+-DHI-01-WaveCurrentInt</b>            User group leader: Carla Faraci            Presenter: Carla Faraci            Title: Waves plus currents INTERacting at a right anGLE over rough bedS (WINGS)            Facility: DHI Shallow water basin</p>	<p><b>09:45 H+-UPC-02-CIEM</b>            User group leader: José Alsina            Presenter: Sonja Eichentopf            Title: Influence of storm sequencing and beach recovery on sediment transport and beach resilience (resist)            Facility: UPC-CIEM</p>
<p><b>10:05 H+-Deltares-03-DF-Kortenhaus</b>            User group leader: Andreas Kortenhaus            Presenter: Max Streichler            Title: Large scale experiments of overtopped wave loads on storm walls            Facility: Deltares Delta Flume</p>	<p><b>10:05 H+-NTNU-01-StratWeb</b>            User group leader: Philippe Pondaven            Presenter: Phillippe Pondaven            Title: Stratification and food web dynamics in marine pelagic environments. Acronym: STRATWEB            Facility: NTNU Sletvik Field Station</p>
<p><b>10:25 H+-Deltares-12-DB-Heller</b>            User group leader: Valentin Heller            Presenter: Valentin Heller            Title: Tsunamis due to ice masses: Different calving mechanisms and linkage to landslide-tsunamis            Facility: Deltares Delta Basin</p>	<p><b>10:25 H+-Aalto-02-Wave</b>            User group leader: Jaak Monbaliu            Presenter: Jaak Monbaliu            Title: Waves-in-ice: Wave attenuation and ice breakup            Facility: Aalto Ice Tank</p>

<b>Session 2a</b> (Room: "I.L. Caragiale")	<b>Session 2b</b> (Room: "Academiei")
<p><b>11:20 H+-Deltares-16-DB-Bruce</b>  User group leader: Tom Bruce  Presenter: Leopoldo Franco  Title: Wave overtopping of coastal defences under directionally bimodal wave attack  Facility: Deltares Delta Basin</p>	<p><b>11:20 H+-AALTO-06-UNIS</b>  User group leader: Aleksey Shestov  Presenter: Jaakko Heinonen  Title: Scaling and production of firstyear ridges in ice basins  Facility: Aalto Ice Tank</p>
<p><b>11:40 H+_LUH_03_Basin_RodBreak</b>  User group leader: João Alfredo Ferreira dos Santos  Presenter: Rute Lemos  Title: RODBreak - Wave run-up, overtopping and damage in rubble-mound breakwaters under oblique extreme wave conditions due to climate change scenarios  Facility: LUH Wave and current basin</p>	<p><b>11:40 H+-HSVA-01-Kvaerner</b>  User group leader: Hilde Benedikte Østlund  Presenter: Andrei Tsarau  Title: Experimental study on wave propagation in ice and the combined action of waves and ice on structures  Facility: HSVA LIMB</p>
<p><b>12:00 H+_LUH_08_GWK_DynaRev</b>  User group leader: Christopher Blenkinsopp  Presenter: Paul Bayle  Title: Dynamic Coastal Protection: Resilience of Dynamic Revetments Under SLR  Facility: LUH Large Wave Flume</p>	<p><b>12:00 H+-HSVA-02-UCL</b>  User group leader: Peter Robert Sammonds  Presenter: Peter Robert Sammonds  Title: Sea Ice Dynamics: Role of Broken Ice in Multi-scale Deformation  Facility: HSVA LIMB</p>
<p><b>12:20 H+_LUH_17_GWK_ICODEP</b>  User group leader: Riccardo Briganti  Presenter: Riccardo Briganti  Title: ICODEP – Impact of Changes in the fOreshore on coastal Defence Performance  Facility: LUH Large Wave Flume</p>	<p><b>12:20 HY+_HSVA-06_UNIS</b>  User group leader: Aleksey Marchenko  Presenter: Aleksey Marchenko  Title: Investigation of bending rheology of floating saline ice and physical mechanisms of wave damping  Facility: HSVA LIMB and Ice Laboratory</p>
<p><b>12:40 H+_LUH_22_GWK_RESIST</b>  User group leader: Iris Möller  Presenter: Elizabeth Christie  Title: Response of Ecologically-mediated Shallow Intertidal Shore Transitions to extreme hydrodynamic forcing (RESIST)  Facility: LUH Large Wave Flume</p>	<p><b>12:40 HY+_HSVA-08_UNI ST.ANDREWS</b>  User group leader: Magda Carr  Presenter: Magda Carr  Title: Internal wave dynamics in the marginal ice zone  Facility: HSVA AETB</p>

<b>Session 3a</b> (Room: "I.L. Caragiale")	<b>Session 3b</b> (Room: "Academiei")
<b>14:00 H+-HULL-01-TES</b> User group leader: Jantiene Baartman Presenter: Jantiene Baartman Title: Testing a novel explanatory factor for the non-linearity between rainfall event magnitude-frequency and catchment erosion with HYDRALAB+ Facility: Hull TES	<b>14:00 H+-CNRS-01-Adduce</b> User group leader: Claudia Adduce Presenter: Claudia Adduce Title: The dynamics of bi-directional exchange flows: implication for morphodynamic change within estuaries and sea straits Facility: CNRS CoriolisII
<b>14:20 H+-HULL-02resub-TES</b> User group leader: Elena Tricarico Presenter: Elena Tricarico Title: Smelling vortices: Animal tracking of chemical scents in turbulent, unidirectional flows Facility: Hull TES	<b>14:20 H+-CNRS-02-Darelius</b> User group leader: Elin Darelius Presenter: Elin Darelius Title: Topographic barriers and warm ocean currents controlling Antarctic ice shelf melting Facility: CNRS CoriolisII
<b>14:40 H+-HULL-07-TES</b> User group leader: Olivier Eiff Presenter: Olivier Eiff Title: Flow through emergent and submerged patches in wide shallow flow Facility: Hull TES	<b>14:40 H+-CNRS-07-Gacic</b> User group leader: Miroslav Gačić Presenter: Manuel Bensi Title: The Adriatic-Ionian Bimodal Oscillating System (BIOS-CRoPEX) Facility: CNRS CoriolisII
<b>15:00 H+-HULL-10-TES</b> User group leader: Matthieu de Schipper Presenter: Matthieu de Schipper Title: MoDEX: Morphological diffusivity experiment - controls on morphological diffusivity for innovative beach protection schemes Facility: Hull TES	<b>15:00 H+-CNRS-08-Pierini</b> User group leader: Stefano Pierini Presenter: Eletta Negretti Title: Laboratory modeling of gap-leaping and intruding western boundary currents under different climate change scenarios Facility: CNRS CoriolisII
<b>15:20 H+-HRW-02-Kleinhans</b> User group leader: Maarten Kleinhans Presenter: Michele Bolla Pittaluga Title: Splitting nature at its seams: morphodynamic stability of river and tidal bifurcations Facility: HRW Fast Flow Facility	<b>15:20 H+-CNRS-06-DeSerio</b> User group leader: Francesca De Serio Presenter: Francesca De Serio Title: JETs interacting with VEgetation in Rotating Basin (JEVERB) Facility: CNRS CoriolisII
<b>15:40 H+-HRW-01-Troch</b> User group leader: Peter Troch Presenter: Carlos Arboleda Title: Large scale experiments to improve monopile scour protection design adapted to climate change Facility: HRW Fast Flow Facility	

**16:30 Feedback session** (Room: "I.L. Caragiale")