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NWO



Expert meeting on levee erosion

DIV Bekleding en Dijkerosie

Delft, 14 September 2023





fys	onl				
0		Jasper	van de Hoef		
1		Diederik	Bijvoet		
1		Myron	van Damme	Session 3	
1		Roy	Mom		
1		André	Koelewijn	Session 3	
1		Vera	van Bergeijk		
1		Martin	van der Meer		
1		Bas	Hofland	Session 1	
1		Gijs	Hoffmans	Session 1	
1		Marc	Hijma	Session 2	
1		Bernadette	Wichman		
1		Mark	Klein-Breteler		
1		Martine	van der Ploeg	Session 2	
1		Werner	Halter	Session 4	
1		Jord	Warmink		
	1	Jean-Louis	Briaud	Session 4	
0		Kees	de Jong		
0		Jan Willem	Nieuwenhuis		
0		Henk	van Norel		
1		Marco	Veendorp		
1		Jentsje	van der Meer		
1		André	van Hoven		
	1	Bryant	Robbins	t.b.d.	
1		Inge	de Wolf		
1		Maurice	Evers		
1		Suzanna	Zwanenburg		
1		Juan	Aguilar-Lopez		
1		Kim	van den Hoven		
	1	Chrissy	Mitchell		
	1	Jean-Robert	Courivaud		
1		Martijn	Huis in 't veld		
	1	Tim	Pullen		
1		Tanja	Voogd		

30 experts on levee erosion and aging

8 pitchers

4 sessions

discussions

shared view wish list action list

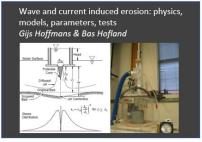
Program



08:30 Doors open speakers 09:00 Opening and introduction Program, who's who, fields of expertise Tanja Voogd Goal, focus: knowledge integration and implementation Martin van der Meer 09:30 Session 1 - Impact drought and animal burrowing, insights Hedwige erosion tests Results Hedwige tests, impact on erodability top layers Myron van Damme Levee safety framework animal burrowing André Koelewijn 10:15 Short break 10:30 Session 2 - Soil structuring and aging, monitor and predict clay layer condition Top layer profiling in test pits, first results seadikes, application all dikes Marc Hijma Soil aging mechanisms, relation with climate proof design, sea or river conditions Martine van der Ploeg 11:15 Break-out sessions 1+2 12:15 Lunch 13:00 Session 3 - Wave and current induced erosion: physics, models, parameters, tests Bas Hofland Coastal/waves - typical seadike, transient overtopping flows Rivers/current - typical riverdike, critical and occuring shear stress Gijs Hoffmans 13:45 Break-out session 3 14:30 Integration sessions 1/2/3 and knowledge integration issues Wish list (ambitions) and action list (recommendations) Tanja Voogd Follow up (short and long term) Martin van der Meer 15:15 Short break / set-up online meeting 15:30 Session 4 - Introduction Borehole Erosion Test in the Netherlands, US experiences US experiences, applications as a profiling tool, improvements Jean-Louis Briaud NL first results (sneak preview), relation with other lab and field tests Werner Halter 16:15 Plenary discussion 1/2/3 + 4

Impact drought and animal burrowing, insights Hedwige erosion tests André Koelewijn & Myron van Damme







Martin van der Meer

17:00 Overall impressions

Short recap wish list and action list

Recommendations DIV, e.g. front-runner projects

Introduction: goal



Topic	Erosion/aging	for sea/river	dikes in changing	conditions (drough	nt, animal burrowing,	policy changes)
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Goal Shared view, what can we (almost) resolve, where is already alignment and where are still gaps

Focus Knowledge integration, opportunities in existing programs (projects and research)

Issues Uncertainties, impact on maintenance, observational method to accelerate implementation

Program 4 sessions, each prepared by 2 experts input from all participants

Live sessions 1, 2, 3 and Integration session, online session 4 wish list and action list

1 Changed conditions drought and animal burrowing resilience

2 Impact of climate conditions on **loss of dike strength** aging

3 Fundamentals **erosion capacity** sea and river dikes shear strength

4 Measurements and monitoring for reliable implementation validation

Result Shared issues, ambitions and recommendations short and long term