General Program

Day 1	Location			
17-5-26	**Haskoning**	11:00	13:30	**YWP Lunch**
		13:30	16:00	**Workshops**
		16:30	19:00	**Welcome cocktail**

Day 2	Location			
18-5-26	**TUD | Aula**	8:00	9:00	**Registration**
		9:00	9:30	**Opening ceremony**
		9:30	10:30	**Keynotes**
		10:30	11:00	**Coffee & Posters (P01)**
		11:00	12:30	**Parallel Sessions (S01-03)**
		12:30	13:30	**Lunch**
		13:30	14:15	**Keynotes**
		14:30	16:00	**Parallel Sessions (S04-06)**
		16:00	16:30	**Coffee & Posters (P01)**
		16:30	18:00	**Parallel Sessions (S07-09)**
	Haskoning	18:30	20:00	**Cheese & Chat in honour of Mark van Loosdrecht**

Day 3	Location			
19-5-26	**TUD | Aula**	8:00	9:00	**Registration**
		9:00	10:00	**Keynotes**
		10:00	10:30	**Coffee & Posters (P02-04)**
		10:30	12:00	**Parallel Sessions (S10-12)**
		12:00	13:00	**Lunch**
		13:00	14:30	**Keynotes**
		14:30	15:00	**Coffee & Posters (P02-04)**
		15:00	16:30	**Parallel Sessions (S13-15)**
		16:30	17:00	**Coffee & Posters (P02-04)**
		17:00	18:10	**Parallel Sessions (S16-18)**
	Meeting point TUD - Aula	18:30	19:30	**Delft walking tour**

Day 4	Location			
20-5-26	**TUD | Aula**	8:00	9:00	**Registration**
		9:00	10:00	**Keynotes**
		10:00	10:30	**Coffee & Posters (P05-07)**
		10:30	12:00	**Parallel Sessions (S19-21)**
		12:00	13:00	**Lunch**
		13:00	14:30	**Parallel Sessions (S22-24)**
		14:30	15:00	**Coffee & Posters (P05-07)**
		15:00	16:30	**Parallel Sessions (S25-27)**
		16:30	17:00	**Coffee & Posters (P05-07)**
		17:00	17:45	**Conference closing**
	Nieuwe Kerk	18:00	19:00	**Walk in Apero**
	Nieuwe Kerk	19:00	23:00	**Gala dinner**

Day 5	Location			
21-5-26	**Meeting point TUD - Aula**	9:00	14:00	**Technical tours 1-3**

Addresses		
	Haskoning	*Mijnbouwstraat 120, 2628 RX, Delft*
	TUD | Aula	*Mekelweg 5, 2628 CC Delft*
	Nieuwe Kerk	*Markt 80, 2611 GW, Delft*

NRR2026 | Workshops | 17 May

Location: Haskoning | Mijnbouwstraat 120, 2628 RX, Delft, The Netherlands

18-05-2026	13:30	16:00	
	Tao Liu	HK	How do nitrogen-cycling microorganisms reshape nutrient removal and resource recovery?
	Sudhir Pillay	ZA	Resilient Design For Dry Times: The Case For Decentralised Water Reuse
	Sylvain Donnaz	US	Revisiting the frontier between Aerobic Granular Sludge and Densified Activated Sludge: flocs, granules, and the Goldilocks Zone of Wastewater Biology
	Amanda Lake	UK	Nitrous oxide emissions mitigation: from omics to practice, and back!
	Tanush Wadhawan	CA	Bridging Theory and Reality: Practical Nutrient Removal Modeling
	George Wells	US	Advancing Nitrogen Recovery from Wastewater: Drivers, Technologies, and Policy Pathways

NRR2026 | Keynote Speakers | May 18-20

Location: TU Delft – Aula | Mekelweg 5, 2628 CC, Delft, The Netherlands

18-05-2026	**09:30**	**10:30**	MC: **Barth Smets**
	Jurg Keller	AU	Learning from Past Successes to Address Today's Challenges and Opportunities
	Amanda Lake	UK	On N2O and putting the Now into NRR
18-05-2026	**13:30**	**14:15**	MC: **Adrian Oehmen**
	Mark van Loosdrecht	NL	Microbiology and Process Engineering of EBPR
19-05-2026	**09:00**	**10:00**	MC: **Ana Soares**
	Per Nielsen	DK	Many microbial players run the EBPR process: who, how and why?
	Leon Korving	NL	What keeps us from recovering phosphorus?
19-05-2026	**13:00**	**14:30**	MC: **Siegfried Vlaeminck**
	Adriano Joss	CH	What are we missing to make good use of Anammox at mainstream?
	Haydée De Clippeleir	US	PdNA: Designing for Full-Scale Reality
	Ameet Pinto	US	Comammox and annamox bacteria synergies for mainstream nitrogen removal
20-05-2026	**09:00**	**10:00**	**MC: Tom Curtis**
	Imre Takács	FR	A modeller's (simplified) view on NRR
	Doris van Halem	NL	Less is More: Nutrients in Drinking Water Treatment

NRR2026 | Oral Presentations | May 18-20

Location: TU Delft – Aula | Mekelweg 5, 2628 CC, Delft, The Netherlands

18-05-2026	11:00	12:30		
S01 Nitrogen |Anammox				
S01.O1	*Mingsheng Jia*	BE	346	Novel thermophilic anammox: from ecophysiology to potential application
S01.O2	*Yimeng Li*	AU	168	Establishing a Robust One-stage PN/A Process in MABR through Precision Oxygen-deficient Aeration Regime
S01.O3	*Chukuan Jiang*	HK	10	Simultaneous sulfur- and organic-driven partial denitrification and anammox process for sustainable wastewater treatment
S01.O4	*Sheyla Chero-Osorio*	PE	358	Single-stage Ion Exchange-Partial Nitritation/Anammox for Mainstream Municipal Wastewater Treatment
S01.O5	*Shuyu Xu*	CN	124	High-quality reclaimed water and resource recovery from municipal wastewater using high-rate activated sludge, reverse osmosis, and mainstream anammox: A pilot scale study
S01.O6	*Stephanie Klaus*	US	266	Full-Scale Mainstream Anammox: Lessons Learned for Design and Operation of PdNA and PNA
P01.01	*Yujie Chen*	JP	112	Rapid and Economical Start-Up of a HAP-PDA System Achieving Operational Stability and High Anammox Contribution
S02 Phosphorous | Biological Processes				
S02.O1	*Lilian McIntosh*	US	84	Why does low DO favor biological phosphorus removal? Oxygen inhibition of PAOs is an important part of the story
S02.O2	*Chuheng Xie*	CN	65	A Novel Bio-LOHAS Process: Regulating DGAOs-DPAOs Interactions and Carbon Allocation through Strategic Low-DO Aeration for Low C/N Wastewater Treatment
S02.O3	*Martijn Croese*	NL	281	The metabolism of an anoxic respiring polyphosphate accumulating organisms
S02.O4	*Maria PIculell*	SE	104	Biological phosphorus and nitrogen removal in a novel moving bed biofilm system with alternating flow direction - effect of influent type
S02.O5	*Xinyu Shi*	AU	145	Linking Side-stream HRT and S2EBPR System Resilience under Influent Dynamics.
S02.O6	*Francisco Rubio Rincon*	NL	31	Rethinking the PhoStrip Process
S02.O7	*Liu Ye*	HK	76	Exploring the feasibility of high rate enhanced biological phosphorus removal system driven by diverse carbon source
S03 Carbon | Microbial Bioproducts				
S03.O1	*Tim Van Winckel*	BE	240	The carbon flywheel: high-rate assimilation for nitrous oxide-free mainstream nitrogen removal and recovery
S03.O2	*Paul Roeleveld*	DK	183	Advancing resource recovery potential: Development of a Resource Maturity Index (RMI) for pushing existing barriers
S03.O3	*Maite Pijuan*	ES	260	Effect of pH and Nitrogen Source on EPS Biosynthesis and Metabolism in Mixed Aerobic Methanotrophs
S03.O4	*Samara Geraldo*	BR	270	Characterization of EPS from full scale WWTP with aerobic granular sludge technology
S03.O5	*Nouran Bahgat*	BE	57	Phosphorus speciation and its impact on the functional properties of Extracellular Polymeric Substances recovered from Aerobic Granular Sludge
S03.O6	*Marie Riisgaard-Jensen*	DK	154	Temporal dynamics of microbial communities and extracellular polymeric substances in raw and extracted activated sludge
P01.02	*Felipe Macchioli*	BR	92	Analysis of the Potential of Aerobic Granular Sludge Biorefineries as an Alternative to Landfills in Brazil: Life Cycle Assessment

18-05-2026	14:30	16:00		

S04 Nitrogen | (De)nitrification

S04.O1	*Barth Smets*	DK	224	Coupled Biotic-Abiotic Dinitrogen Gas Production during Heterotrophic Nitrification by Alcaligenes faecalis
S04.O2	*Ana Soares*	UK	376	Mitigation of Nitrous Oxide during Nitrification with Immobilised Microorganisms
S04.O3	*Min Zheng*	AU	99	Acidophilic Ammonia Oxidation: Principles and Emerging Roles in Environmental Biotechnology
S04.O4	*Xinjie Gao*	CN	14	Achieving Ultra-Low Effluent Nitrogen via an Anaerobic/Oxic/Anoxic (AOA) Process in a Pilot-Scale System for Municipal Wastewater Treatment
S04.O5	*César Huiliñir*	CL	46	INTEGRATING NITRIFICATION AND MIXOTROPHIC DENITRIFICATION IN A SINGLE REACTOR: INSIGHTS FROM PERFORMANCE AND MICROBIAL COMMUNITY ANALYSIS IN SBR AND SBBR
S04.O6	*Suzanne van der Poel*	NL	135	Delayed nitratation reveals hidden NO2- and Mn2+ interaction in drinking water biofilters
P01.03	*Dongdong Xu*	CN	26	Stratification of Anammox Granules: Balancing Nitrogen Removal Rate and Efficiency
P01.04	*Sheng Chang*	CA	98	Simultaneous nitrification and denitrification of high C/N wastewater via heterotrophic nitrification and aerobic denitrification

S05 Phosphorous | Chemical Processes

S05.O1	*Pim de Jager*	NL	60	Pilot study: high-performance phosphorus removal from WWTP effluents using the BioPhree® technology
S05.O2	*Muhammad Ali*	UK	201	Phosphate recovery from digestate: biological and chemical approaches for sustainable nutrient recycling
S05.O3	*Pabel Cervantes-Avilés*	MX	90	From Waste to Value: Hydroxyapatite Recovery Enables Sustainable Treatment of Maize Lime-Cooking Wastewater
S05.O4	*Alba Ceballos-Escalera*	ES	97	Towards the upscaling of an electrochemical crystallizer for efficient phosphorus recovery as struvite from wastewater sludge
S05.O5	*Hafiz Zargham Bin Imran*	KR	252	Magnetic biochar for vivianite-based phosphorus recovery from anaerobic digesters - effect of iron precursors and pyrolysis temperature
S05.O6	*Lobna Amin*	FI	247	Iron Dynamics in Wastewater Treatment Plants for Vivianite Formation: Enhancing Iron Oxidation Kinetics with Experimental and Full-Scale Data
P01.05	*Neri Nathan*	US	232	Demonstration of Biofilm-Only and Hybrid MABR Configurations for Advanced Nitrogen and Phosphorus Removal in Lagoon Wastewater Systems

S06 Carbon |Specialty Products

S06.O1	*Domenico Santoro*	CA	67	High-Rate Anaerobic Digestion with Integrated Ammonia Recovery: Advancing Nutrient Management and Energy Production through the IntensiCarb™ Technology
S06.O2	*Marco Pesenti*	IT	298	Strategic valorization of sludge from decentralized systems via fermentative processes
S06.O3	*Lu Kong*	AU	258	Engineering Granular Sludge Reactor Resilience: Leveraging Emergency Shutdown as a Control Strategy for Enhanced Performance and NOB Inhibition in High-Rate Centrate Treatment
S06.O4	*Alba Pedrouso*	ES	336	Enhancing macroalgae valorization via two-Stage PPB Process
S06.O5	*Ruizhe Zhang*	CN	9	Myco-Engineered Valorization of Garden Waste: A Fungal Pretreatment Paradigm for Concurrent Recovery of Phosphorus and Carbon Resource
S06.O6	*Nicolas Goycoechea*	UY	283	TOWARD CIRCULAR NUTRIENT MANAGEMENT: LIFE CYCLE AND TECHNO-ECONOMIC ASSESSMENT OF STRUVITE PRODUCTION FROM SLAUGHTERHOUSE SLUDGE
P01.06	*Anna Mikola*	FI	306	NPHarvest Nutrient Catcher Demo startup experiences and performance

18-05-2026	16:30	18:00		

S07 Nitrogen | Recovery

S07.O1	*Siegfried Vlaeminck*	BE	327	To remove or to recover, is that the nitrogen dilemma?
S07.O2	*Maarten Schaafsma*	NL	251	Chemical Free Nitrogen Recovery: an innovative, chemical free technology for ammonium removal and recovery from reject water at municipal sludge digesters.
S07.O3	*Yiran Wan*	US	227	Nitrogen recovery potential through cyanophycin production in a partial denitrification/anammox and phosphorus removal bioreactor
S07.O4	*Yubo Wang*	NL	234	Nutrient Removal Through Accumulation--- Extending from Phosphorous to Ammonium
S07.O5	*Busra Cicekalan*	TR	153	Ion Exchange-Based Ammonium Recovery from Permeate of An Anaerobic Membrane Bioreactor Co-Digesting Waste Activated Sludge and Dairy Industry Wastewater
S07.O6	*Jouke Boorsma*	NL	246	Lessons Learned from More Than a Decade of Full-Scale Struvite Recovery in the Netherlands: A Difficult Road, but a No-Regret Measure.
P01.07	*Silvia Bentancur*	UY	13	RECOVERY OF NITROGEN FROM SWINE WASTEWATER THROUGH GAS-PERMEABLE MEMBRANE TECHNOLOGY
P01.08	*Josue Gonzalez-Camejo*	ES	324	SEASONAL OUTDOOR OPERATION OF AN OPEN MICROALGAL POND TO RECOVER NUTRIENTS FROM WASTEWATER AND DIGESTATE STREAMS

S08 Phosphorous | Alternative Recovery Routes

S08.O1	*Paula Carrera Fernandez*	ES	158	Regional Pathways for Nutrient Balance and Resource Optimisation: Holistic and Zero-Pollution Solutions from the GREENHOOD Project
S08.O2	*Thandie Marata*	FI	257	Recycling Solid Waste to Capture Phosphorus and Nitrogen: Optimization, Performance, and Mechanism
S08.O3	*Ángel Encinas*	ES	82	Optimizing phosphorus recovery through struvite crystallization: pilot-scale implementation in relevant environment
S08.O4	*Öykü Yeşilbaş*	TR	212	Effect of Phosphorus Recovery with Iron Salts on PHA Storage Behaviour in Mixed Microbial Cultures
S08.O5	*Maria Castrillo*	ES	44	Advancing phosphorus removal through machine learning: insights from full-scale wastewater treatment practice
S08.O6	*Yizhu Sun*	JP	268	Stable Biological Phosphorus Removal and Maximized COD Recovery by a Novel High-Rate A/O-MBR Process
P01.09	*Riley Doyle*	CA	75	Addressing the woes of summer bio-P performance deterioration: Experimenting with DO setpoints at a full-scale plant

S09 Physicochemical Recovery

S09.O1	*Dominika Sobotka*	PL	339	Optimizing Vivianite Formation for Simultaneous Phosphorus and Iron Recovery Using Response Surface Modeling
S09.O2	*Işık Kabdaşlı*	TR	202	Nutrient recovery from source-separated human urine through sequential precipitation of struvite, K-struvite, and vivianite
S09.O3	*Marco D'Eugenio*	IT	395	Development of iron-modified alginate beads for the sustainable removal of phosphate from wastewater and their potential use as a slow-release fertiliser
S09.O4	*Ziqing Wu*	HK	140	Ferric chloride-facilitated acidic fermentation: a multi-functional strategy for sewage sludge valorization
S09.O5	*Anwar Alsanea*	US	220	Elemental sulfur recovery from high-sulfide-bearing wastewater using the oxygen-based membrane biofilm reactor
S09.O6	*Yuwei Huang*	CN	318	Sustaining phosphorus removal and recovery from wastewater effluent: The role of neutralization in iron oxide adsorbent regeneration
P01.10	*Beatriz C. Diniz*	NL	275	Anaerobic digestion under alkaline conditions: process performance and implications for ammonia recovery
P04.01	*Yağmur Kaçmaz*	TR	309	Elucidating Iron–pH Interactions for Phosphorus Recovery Efficiency as Vivianite Production in Activated Sludge Systems

19-05-2026	10:30	12:00		
S10 N2O | Full-scale Experiences				**Collegezaal B**
S10.O1	*Mikkel Andersen*	DK	256	Comparison between liquid and offgas N2O emissions measured at multiple full-scale wastewater treatment plants
S10.O2	*Kees Roest*	NL	333	Evaluating Liquid- and Gas-Phase Nitrous Oxide Measurements in Full-Scale Wastewater Treatment Systems
S10.O3	*Maria Valtari*	FI	195	Nitrous oxide mitigation with chemical feeding strategies at full-scale WWTP
S10.O4	*Lennert Dockx*	BE	37	Revealing nitrous oxide emission dynamics related to the treatment of domestic wastewater in Flanders: A combined lab-scale and full-scale investigation
S10.O5	*Michel Mulders*	NL	390	Three-year full-scale research reveals 45% N2O emission reduction in aerobic granular sludge treatment
S10.O6	*Jia Xin Yong*	MY	175	N2O Emissions and Nitrifying Microbial Communities in Tropical Wastewater Treatment Plants
P02.01	*Songqing Huang*	CN	370	N_2O in Full-Scale CANON Treating High-Ammonia Wastewater: Year-Long Monitoring, Isotope Evidence, and Carbon Footprint Analysis
P02.02	*Alexandra Deeke*	NL	320	The Dutch acceleration program on nitrous oxide- a nationwide approach for mitigation of GHG's
S11 Process Intensification | Biofilms				**Senaatzaal**
S11.O1	*Morten Dueholm*	DK	130	Using Genomic Tools to Explore the Exopolysaccharide Potential of Wastewater Bacteria for Sustainable Biomaterials
S11.O2	*Jan Dries*	BE	190	Smart Granules: sensor-based dynamic control of aerobic granular sludge treatment of industrial wastewater
S11.O3	*Neslican Uzkurt Kaljunen*	FI	277	How Integrated Fixed-Film Activated Sludge Improves the Carbon Usage and Energy Balance of Municipal Wastewater Treatment Plants for Nutrient Removal
S11.O4	*Marijn Timmer*	BE	137	Novel MABR-MBR combination with simultaneous nitrification/denitrification for efficient water treatment and reuse
S11.O5	*Eugenio Giraldo*	US	274	First of its kind densified sludge selector and migrating carrier upgrade for biological nutrient removal
S11.O6	*Rudy Maltos*	NL	231	Continuous-Flow Densified Activated Sludge: Granule Mass Fraction Control Decouples aSRT, Sustaining Low-aSRT Nitrification at Full-Scale
P04.02	*ÖZLEM KARAHAN ÖZGÜN*	TR	321	Optimization of carbon and nutrients recovery in an innovative water resource recovery plant configuration
P01.11	*Haydée De Clippeleir*	US	159	Decoupling COD and Phosphorus Release while Mitigating Odor in Primary Sludge Fermenter through feed dilution
S12 Full-scale | Nitrogen Removal				**Commissiekamer 3**
S12.O1	*Chengpeng Lee*	US	91	Mainstream Partial-Denitrification Anammox (PdNA) Startup: From Pilot-Scale Success to Full-Scale Implementation
S12.O2	*Oriol Carbó*	ES	30	Towards energy neutral WWTPs: mainstream HRAS, partial nitritation AGS and anammox
S12.O3	*Wendell Khunjar*	US	354	Integrating Partial Denitrification–Anammox and Biological Selection-Driven Densification in a Full-Scale Continuous-Flow Facility Under Stringent Nitrogen Limits
S12.O4	*Zhufang Wang*	UK	117	Impact of disturbed partial nitritation-anammox process on whole-process nitrogen removal and greenhouse gas emissions
S12.O5	*Marc Spiller*	BE	269	Where are the low hanging fruits to reduce air emissions? Greenhouse gas and ammonia emissions of the Flemish wastewater system
S12.O6	*Andrea Turolla*	IT	79	Towards robust anoxic granules in fully anaerobic/anoxic SBR: development and assessment of treatment potential of real wastewater
P03.01	*Katie Printz*	US	208	Full-Scale Validation and Mechanistic Insights of Mobile Organic Biofilm (MOB) for Enhanced Nitrification

19-05-2026	15:00	16:30		
S13 N2O | Mechanistic Insights				**Collegezaal B**
S13.O1	*Laurence Strubbe*	CH	105	Operational evidence to switch on and off N2O production pathways
S13.O2	*Nina Roothans*	NL	295	Long-term multi-meta-omics resolves the ecophysiological controls of seasonal N2O emissions during wastewater treatment
S13.O3	*Oona Kinnunen*	FI	109	Long-term nitrous oxide emissions and microbial community dynamics: Links to operational conditions at a full-scale wastewater treatment plant
S13.O4	*Akihiko Terada*	JP	284	Mechanisms of N2O production and nitrification activity in a membrane-aerated biofilm revealed by N2O microprofiling and 15N tracer analysis
S13.O5	*Alessandro Alberti*	IT	189	OXYGEN PENETRATION DEPTH AS A TOOL TO PREDICT NITROUS OXIDE EMISSIONS FROM GRANULAR PARTIAL NITRITATION WASTEWATER TREATMENT SYSTEMS
S13.O6	*Fabrizio Sabba*	US	382	From Microbes to Carbon Footprint: Linking Low-DO Nitrifier Adaptation with Greenhouse Gas Impacts in Full-Scale WRRFs
P02.03	*Paula van den Brink*	NL	41	BIOANODES FOR N2O-FREE AMMONIUM CONVERSION
P02.04	*Alexandra Deeke*	NL	319	Low specific N2O emission from full-scale single stage granular sludge-based partial-nitritation-anammox reactors - Two case studies
S14 Process Intensification | Product Recovery				**Senaatzaal**
S14.O1	*Adrian Oehmen*	AU	233	A novel approach for phosphorus removal and recovery using entrapped polyphosphate accumulating organisms
S14.O2	*Haydée De Clippeleir*	US	160	Lessons on Accelerating Fermentation: Hydrolysis and Kinetic Enhancements with Phosphorus Management
S14.O3	*Jinsong Wang*	NL	209	Enrichment of polyhydroxyalkanoates (PHA) accumulating bacteria through uncoupled feeding of carbon and nitrogen
S14.O4	*Albie Gan*	AU	123	LONG CHAIN LENGTH POLYHYDROXYALKANOATES AND THEIR IMPACT ON SIDESTREAM ENHANCED BIOLOGICAL PHOSPHORUS REMOVAL
S14.O5	*Yizhou Xing*	NL	322	When Growth Means Getting Bigger: Engineering Bioprocess Conditions for Concurrent PHA Storage and Selective Microbial Growth in Waste Activated Sludge
S14.O6	*Ruoyao Yuan*	AU	171	Enhancing Domestic Wastewater Management through Direct Anaerobic Energy Recovery and Autotrophic Denitrification
P01.12	*Sakib Ahmad*	US	221	One Step Closer to Intensification: Understanding Flocculent Settling in clarifiers via Image Analysis
P06.08	*David Fernández*	ES	102	Enhanced Sludge Stabilization and Pathogen Reduction via Temperature-Phased Anaerobic Digestion (TPAD)
S15 Full-scale | Advanced Treatments				**Commissiekamer 3**
S15.O1	*Kees Roest*	US	343	Circular fertilisers from sanitation, urban wastewater, and agri-food industry process water
S15.O2	*Thomas Prot*	NL	133	Robust magnetic vivianite recovery from digested sewage sludge: Evaluating resilience to sludge dry matter and particle size variations
1.O3	*Yanyang Zhang*	CH	35	Pilot-Scale Phosphorus Polishing and Recovery from Municipal Wastewater Using Nano-Metal Oxides Confined in Millimeter-sized Polymeric Hosts: Performance, Impacts of Water Matrix and Sustainability
S15.O4	*Merijn Picavet*	NL	127	Closing the Nitrogen Loop: Ammonia Recovery from Digestate and Centrate of THP Sludge Digestion Using AMFER® Technology
S15.O5	*Núria Zamorano-López*	ES	276	LIFE PRISTINE: an innovative solution for water reclamation towards new EU Urban Wastewater Directive challenges
S15.O6	*Dag Lorick*	SE	113	VARIABILITY IN SLUDGE BIOCHAR CHARACTERISTICS WHEN PYROLYSING SLUDGE FROM DIFFERENT WASTEWATER TREATMENT PLANTS AT DIFFERENT PYROLYSIS TEMPERATURE
P03.02	*Sylvain Donnaz*	CA	205	Studying the Impact of Densification Activated Sludge on Ultrafiltration Membrane Bioreactor at Full-scale
P01.13	*Min Ye*	CN	245	Strategic allocation of organic matter to enhance denitrification coupled with anaerobic digestion and anammox for advanced nitrogen removal from food waste digestate

19-05-2026	17:00	18:10		

S16 N2O | Mechanistic Insights_2				Collegezaal B
S16.O1	*Koko Kawaura*	AU	273	Mitigation of greenhouse gas emissions by immobilised nitrous oxide reducer Dechloromonas denitrificans using various entrapment matrices
S16.O2	*Fabrizio Sabba*	US	219	Impact of carbon sources and dosing ratios on denitrification, nitrite accumulation and N2O dynamics in a low DO BNR process
S16.O3	*Benyamin Chahkandi*	PL	335	Mechanistic Modelling of N2O Dynamics in Aerobic Granular Sludge Sequencing Batch Reactors
S16.O4	*Jeanette Agertved Madsen*	DK	180	N2O removal by end-of-pipe treatment through catalytic abatement - a pilot scale study

S17 Process intensification | Novel Configurations				Senaatzaal
S17.O1	*Sakib Ahmad*	US	106	Improving Secondary Treatment Performance and Capacity with inDENSE: Insights from a Pilot-Scale Study
S17.O2	*Jiaxuan Huang*	CN	177	Enhanced Biological Nutrient Removal via Return Sludge Side-Stream Fermentation: Process Optimization and Mechanistic insight
S17.O3	*Wendell Khunjar*	US	310	Advancing Biological Nutrient Removal through Pure Oxygen Aeration, and Granule Formation-kinetics and microbial ecology
S17.O4	*Hussein Al-Hazmi*	PL	42	The impact of sulfur transformations on nitrogen removal processes in systems with granular sludge
S17.O5	*Manon Bechger*	NL	348	Removal of micropollutants and nutrients from municipal wastewater with ozone and granular activated carbon filtration at the wastewater treatment plant Horstermeer

S18 Membrane-based Systems				Commissiekamer 3
S18.O1	*Julian Sandino*	DK	304	It Started with a Beer: A Utilities Path to Implementing a Novel Disruptive Nutrient Removal Technology
S18.O2	*Mariska Ronteltap*	NL	347	Meeting the European Guidelines on Urban Wastewater Treatment and Water Framework Directive standards in a 2030 WWTP.
S18.O3	*Giorgio Mannina*	IT	179	Carbon and nutrient removal by dynamic membrane bioreactors including water reuse: an experimental study on optimisation of operational parameters
S18.O4	*Antonio Mineo*	IT	262	IFAS-MPBR for advanced wastewater treatment: performances and design guidelines toward Directive 3019/2024 compliance
S18.O5	*Dongdong Xu*	AU	63	INTENSIFYING NITROGEN REMOVAL CAPACITY OF MEMBRANE BIOFILM REACTOR COUPLING N-DAMO AND ANAMMOX PROCESSES BY DOSING SIGNALING MOLECULES

20-05-2026	10:30	12:00		

S19 Nitrogen | Novel Technologies				Collegezaal B
S19.O1	*Bohan Yu*	BE	43	The mystery of sulfammox phenomenon in wastewater treatment – elementary reaction VS. complex reaction
S19.O2	*Mengqi Zhu*	CH	110	Densified activated sludge: opportunities for the intensification of nutrient removal
S19.O3	*Weiyi Wang*	JP	303	Three-dimensional structured carriers enhance the performance of hybrid anammox reactor: Start-up kinetics and granule–biofilm interactions
S19.O4	*Ren Yong*	CN	235	Light Intensity Modulates Algal-Bacterial Granules: A Metagenomic View into Microbial Community Assembly, Algae-Bacterium-Virus Interplay, and Wastewater Treatment Performance
S19.O5	*Anuska Mosquera*	ES	323	Impact of inorganic carbon availability on urea hydrolysis and partial nitritation for autotrophic nitrogen removal
S19.O6	*Dario R. Shaw*	SA	141	Development of a partial nitritation-marine anaerobic ammonium oxidation (anammox) granular system for mainstream saline wastewater treatment
P05.01	*Haixin Duan*	BE	261	Labor-scale continuous-flow aerobic granular sludge system treating real industry wastewater: granulation mechanism and microbial succession

S20 Process intensification | Novel Configurations_2				Senaatzaal
S20.O1	*Jaap Vogelaar*	NL	404	Paques: Anammox full scale
S20.O2	*Mark de Blois*	SE	291	Evaluation of Ängholmens new WWTP – Wastewater from fish processing industries as carbon source for denitrification
S20.O3	*Jianhua Guo*	AU	139	Leveraging emerging C/N/S cycling to simultaneously remove dissolved methane, ammonium and sulfide in anaerobically treated domestic wastewater
S20.O4	*Faruk Can*	IE	253	Investigation of nutrient recovery and transformation of cow manure into liquid organic fertiliser
S20.O5	*Ling-Hang Li*	NL	350	Roles of Granules and Flocs in Nutrient Removal in Aerobic Granular Sludge Systems
S20.O6	*Johannes Reiter*	DE	12	Bacterial community shift and AOB adaptation to challenging process conditions: A case study on the nitritation of liquid pig slurry
P01.14	*Peter Baumann*	DE	161	Impact of nutrient removal requirements under EU Directive 2024/3019 on large WWTP`s in Baden-Wuerttemberg (Germany)

S21 GHG | The Broader Footprint				Commissiekamer 3
S21.O1	*Zhiguo Yuan*	AU	184	A System Level Redefinition of Net Zero in the Wastewater Industry
S21.O2	*Milla Sieranen*	FI	326	FULL GREENHOUSE GAS EMISSION INVENTORY FROM AN ENHANCED NUTRIENT REMOVAL PLANT OVER A LONG-TERM MONITORING CAMPAIGN
S21.O3	*Haoran Duan*	CN	20	High-Resolution Identification of CH4 Production and Emission Hotspots in Full-Scale Wastewater Treatment Plants
S21.O4	*Inge De Bo*	BE	341	Estimation of gaseous emissions from manure treatment facilities
S21.O5	*Sebastiaan van Veen*	NL	45	Determining the Environmental Impact of Nitrogen Side Stream Treatment and Recovery
S21.O6	*Hanson Appiah-Twum*	BE	254	What are the trade-offs of meeting the updated Urban Wastewater Treatment Directive?
P02.05	*Marthe de Graaff*	NL	142	Greenhouse gas emissions from industrial wastewater treatment plants – results of measurement campaign and mitigation measures
P02.06	*Xinyi Zhou*	JP	255	Nitrous Oxide Emission and Nitrogen Transformation in Microaerobic Activated Sludge Process Treating Fermentation Wastewater

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S22 Modelling | Process Optimization				Collegezaal B
S22.O1	*Mathieu Sperandio*	FR	297	Modelling control strategies of nitrifying biological aerated filter for mitigating N2O emission
S22.O2	*Pieter Vlasschaert*	BE	299	Accelerating Decarbonization: Predictive Digital Twins for N2O Hotspot Identification and Mitigation in Water Reclamation Plants.
S22.O3	*Mudi Zhai*	AU	244	WaterRAG: An Agentic RAG to Support Water Industry Transitions to Net-Zero
S22.O4	*Xu Zou*	HK	381	Rethinking waste management: Separate or integrated food waste and wastewater streams for global cities
S22.O5	*Doğa Binay*	FI	199	Real-Time Monitoring of COD Fractionation to Support Greenhouse Gas Mitigation: A Digital Twin Approach at Viikinmäki WWTP
S22.O6	*Wouter Maenhout*	BE	186	Digital Twins for Nitrogen Removal: Integrating Hybrid Modelling, MPC, Soft Sensor, and Day-Ahead Pricing in Utility Operations
P07.01	*Otto Icke*	NL	27	Enhancing Effluent Quality, Reducing Emissions, and Saving Energy through Advanced Process Control in Wastewater Treatment
P07.02	*Pengyu Li*	CN	191	Environmentally Friendly and Sustainable Regulation of Wastewater Treatment Processes through the Integration of Mechanistic and Machine Learning Models

S23 Phototrophic Systems				Senaatzaal
S23.O1	*Tânia Vasconcelos Fernandes*	NL	293	Photogranular technology: the role of microbial versatility in photogranules for optimized nitrogen and phosphorus recovery from wastewater
S23.O2	*Grazia Policastro*	IT	155	Start-up of a continuous tubular photobioreactor for the integration of anaerobic digestion with mixed culture microalgal cultivation
S23.O3	*Elena Ficara*	IT	77	Combining autotrophic and heterotrophic microalgae culturing for the upcycling of nutrients in the liquid fraction of digestate
S23.O4	*Emine Kayahan*	NL	369	Can Photogranules Breathe for Themselves? Modelling Oxygen Balance in Photogranules for Wastewater Treatment
S23.O5	*Sarah Lee*	NL	187	An investigation into how purple non-sulfur bacteria (PNSB) fatten up
S23.O6	*Zhengang Xia*	SG	125	Intensified nitrogen removal and recovery from aquaculture wastewater under elevated salinity by integrating microalgal-bacterial consortia and membrane-aerated biofilm: A self-adaptation and synergistic interaction enhancement
P07.05	*Andrea Turolla*	IT	334	Model-based optimization towards scale-up of purple phototrophic bacteria mixed cultures
P06.01	*Ángel Encinas*	ES	83	DEMONSTRATION-SCALE IMPLEMENTATION OF ANPHORA® FOR NUTRIENT RECOVERY IN MUNICIPAL WASTEWATER TREATMENT

S24 Bioelectrochemical Systems				Commissiekamer 3
S24.O1	*Sebastià Puig*	ES	115	Power-to-Protein: Turning nutrient recovery into climate-resilient nutrition
S24.O2	*Rahul Gautam*	FI	307	Ammonium-nitrogen recovery from digested sewage sludge reject waters by integrating a bioelectrochemical system and a membrane contactor
S24.O3	*Simona Pruiti*	NL	264	New insights into electrochemical phosphate removal and recovery
S24.O4	*Irene Swaters*	US	230	Tube-in-tube Donnan dialysis reactors for sustainable nutrient recovery
S24.O5	*David Fernández-Domínguez*	ES	147	Operational insights from the passive electrostimulation of an industrial ELSAR® reactor treating brewery wastewater
S24.O6	*Han Zhang*	CN	361	Simultaneous removal of ammonia nitrogen, sulfamethoxazole, and antibiotic resistance genes in self-corrosion microelectrolysis-enhanced counter-diffusion biofilm system
P06.09	*McKenzie Burns*	US	138	Bioelectrochemical approaches to nutrient recovery from high strength organic wastes

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S25 Modelling | Mechanistic Insights				Collegezaal B
S25.O1	*Tianwei Hao*	HK	365	Integrating transcriptomic data with metabolic model unravels the electron transfer mechanisms of Methanosarcina barkeri
S25.O2	*Marit Verheijen*	NL	286	Predicting metabolic strategies and yield in mixed-substrate growth: a thermodynamics-based screening tool
S25.O3	*Shuting Wang*	AU	165	Insights on Nitrous Oxide Representative Monitoring Locations from CFD-ASM-N2O Simulation
S25.O4	*Tanush Wadhawan*	FR	229	Modelling Partial-denitrification Anammox Process – Design and Operational Considerations
S25.O5	*Daniel Peña-Torres*	FI	174	Multi-objective optimisation model applied to nutrient recovery pathways from digestate
S25.O6	*Tobias Kaiser*	DE	15	Modelling the recovery from sloughing events in membrane aerated biofilm reactors – existence of multiple post-sloughing steady states
P07.03	*Wim Audenaert*	BE	290	Accelerating the Adoption of Advanced Water Treatment: A Model-Centric Framework for Ozonation Reactor Design, De-risking, and Digital Twin Operation.
P07.04	*Tugce Katipoglu-Yazan*	TR	337	Microbial Transition State (MTS) Approach for Modelling Acute Diclofenac Impact on Enriched Nitrification Systems, Insights from Metatranscriptomic Analyses

S26 Microbial Ecology				Senaatzaal
S26.O1	*Ruizhe Pei*	AT	215	Hidden vitamin dependencies among nitrifiers in WWTPs
S26.O2	*Mengying Xie*	AU	288	Irreversible NOB Inhibition through Selective Gene Regulation under Complete Starvation Stress: Mechanistic Insights and Pilot-Scale Validation
S26.O3	*Ameet Pinto*	US	118	Partial DNRA as a Nitrite Provision Strategy for Ca. Brocadia sapporoensis in Low-DO Biofilm System.
S26.O4	*Jelle Langedijk*	NL	128	Linking spatial fluorescence microscopy to mass transfer and nutrient removal in aerobic granular sludge
S26.O5	*Maartje A.H.J. van Kessel*	NL	317	Unlocking the potential of comammox Nitrospira for sustainable wastewater treatment
S26.O6	*Claudia Etchebehere*	UY	356	Metagenomic insights from EBPR communities enriched from an industrial wastewater treatment reactor biomass
P05.02	*Dongdong Xu*	AU	64	MECHANICAL RESISTANCE OF HIGHER EPS CONTENTS IN LARGER GRANULES RESTRICTS ANAMMOX BACTERIAL GROWTH
P05.03	*Hermes Bolivar Torres*	DE	172	Comparing and contrasting microbial taxonomy and function in two secondary wastewater treatment procedures

S27 Decentralized Systems				Commissiekamer 3
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S27.O2	*Sudhir Pillay*	SA	176	Two Decades of Resource Recovery Sanitation: Case Studies from South Africa's Transition from Dry Sanitation to Water Efficient and Reuse Systems
S27.O3	*Tibo Roelants*	BE	301	Septic tanks as an overlooked source of methane emissions
S27.O4	*Njabulo Thela*	SA	19	From Proof of Concept to Proof of Scale: urine to fertilizer using reverse osmosis at pilot-scale
S27.O5	*Widya Iswarani*	NL	242	Ammonia and acid recovery from urine using two-phase bipolar membrane electrodialysis
S27.O6	*Sharmistha Debnath*	BD	167	A Comparative Analysis of Greenhouse Gas Emissions from Non-Sewered Sanitation in Bangladesh
P06.02	*Tianlong Zheng*	CN	193	Construction of Flexible Treatment Processes and Application for Decentralized Domestic Sewage Aimed at Resource Reuse
P06.03	*Haresh Dash*	IE	87	Techno-economic Analysis of N Recovery from Urine at a Multi-university Scale

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P01.01	*Yujie Chen*	JP	112	Rapid and Economical Start-Up of a HAP-PDA System Achieving Operational Stability and High Anammox Contribution
P01.02	*Felipe Macchioli*	BR	92	Analysis of the Potential of Aerobic Granular Sludge Biorefineries as an Alternative to Landfills in Brazil: Life Cycle Assessment
P01.03	*Dongdong Xu*	CN	26	Stratification of Anammox Granules: Balancing Nitrogen Removal Rate and Efficiency
P01.04	*Sheng Chang*	CA	98	Simultaneous nitrification and denitrification of high C/N wastewater via heterotrophic nitrification and aerobic denitrification
P01.05	*Neri Nathan*	US	232	Demonstration of Biofilm-Only and Hybrid MABR Configurations for Advanced Nitrogen and Phosphorus Removal in Lagoon Wastewater Systems
P01.06	*Anna Mikola*	FI	306	NPHarvest Nutrient Catcher Demo startup experiences and performance
P01.07	*Silvia Bentancur*	UY	13	RECOVERY OF NITROGEN FROM SWINE WASTEWATER THROUGH GAS-PERMEABLE MEMBRANE TECHNOLOGY
P01.08	*Josue Gonzalez-Camejo*	ES	324	SEASONAL OUTDOOR OPERATION OF AN OPEN MICROALGAL POND TO RECOVER NUTRIENTS FROM WASTEWATER AND DIGESTATE STREAMS
P01.09	*Riley Doyle*	CA	75	Addressing the woes of summer bio-P performance deterioration: Experimenting with DO setpoints at a full-scale plant
P01.10	*Beatriz C. Diniz*	NL	275	Anaerobic digestion under alkaline conditions: process performance and implications for ammonia recovery
P01.11	*Haydée De Clippeleir*	US	159	Decoupling COD and Phosphorus Release while Mitigating Odor in Primary Sludge Fermenter through feed dilution
P01.12	*Sakib Ahmad*	US	221	One Step Closer to Intensification: Understanding Flocculent Settling in clarifiers via Image Analysis
P01.13	*Min Ye*	CN	245	Strategic allocation of organic matter to enhance denitrification coupled with anaerobic digestion and anammox for advanced nitrogen removal from food waste digestate
P01.14	*Peter Baumann*	DE	161	Impact of nutrient removal requirements under EU Directive 2024/3019 on large WWTP`s in Baden-Wuerttemberg (Germany)
P01.15	*Ruixin WU*	JP	300	Characterization and mechanisms of granular sludge flotation in a partial denitrification-anammox EGSB reactor under different nitrogen loading rates
P01.16	*Olga Zając*	PL	374	How aeration strategies shape nitrifiers activity and abundance: comparison of pure and hybrid moving bed technologies
P01.17	*Simon Bengtsson*	SE	239	A biofilm nitrification process combining post-treatment and treatment for rain weather peak flows
P01.18	*Xiaojing Zhang*	CN	50	Impact of Endocrine Disrupting Chemicals on Autotrophic Nitrogen Removal: Interactions, Transformation, and Resulting Ecotoxicity
P01.19	*Weizhe XIA*	JP	271	An Innovative Partial-Denitrification–Anammox System for Efficient Mainstream Wastewater Treatment
P01.20	*César Huiliñir*	CL	47	IMPACT OF AERATION RATE AND NATURAL ZEOLITE ON NITRIFICATION PERFORMANCE, OXYGEN TRANSFER, AND MICROPOLLUTANT (IBP, DCF) REMOVAL IN SEQUENCING BATCH REACTORS
P01.21	*Luana Cruz*	BR	280	Operational Insights into Nitrogen Removal under Different Aeration Regimes in Aerobic Granular Sludge Reactors

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P01.22	*Jiashun Cao*	CN	49	Mechanisms of nitrogen removal in a pilot-scale anaerobic-swing-anoxic-oxic (ASAO) process with Ammonia vs NOx (AvN) control system for treating low C/N municipal wastewater
P01.23	*Tomohide Watanabe*	JP	166	Effect of Overall Mass Permeability of an Electrode Assembly on Power Generation and Nitrogen Removal in Microbial fuel cell
P01.24	*Patricia Gutierrez*	BE	340	Beyond the CowToilet: stabilizing and biologically removing nitrogen from cow urine with a Rotating Biological Contactor
P01.25	*Shi Yuanyuan*	CN	228	Optimization of sludge retention time for rapid start-up and stable operation of high-rate partial nitritation in a continuous flow reactor treating municipal wastewater
P01.26	*Nur Adlin*	JP	259	Sponge Biofilm System for Nitrogen Recovery and Water Reuse in Tropical Closed RAS
P01.27	*Edward Apraku*	US	225	Toward a Circular Nitrogen Bioeconomy: Integrating Biological and Physicochemical Approaches for Cyanophycin Recovery.
P01.28	*Huanhuan Hu*	IE	249	Surface vacancy structure of iron sulfide critical to denitrification: A pivotal mechanism in nitrogen transformation
P01.29	*Shaoping Luo*	CN	18	Enhanced partial Denitrification and Phosphorus Removal Using Sulfur-Iron Composite Fillers
P01.30	*Marvin John Uy*	KR	89	Application of a Biodiversity-Based Ecosystem Service Index in a Constructed Wetland in South Korea
P01.31	*Emma Paterson-Stephens*	UK	134	MABR Technology for Biological Process Intensification: The UK's First Two Full-Scale Installations
P01.32	*Sultan Shaikh*	QA	157	Scalable Purple Non-Sulfur Bacteria Treatment of Fuel Synthesis Wastewater Using Treated Sewage Effluent as a Nutrient Source
P01.33	*Tamara Vobruba*	AT	197	Integrating Resource-Oriented Water and Nutrient Management into Sustainable Food Systems
P01.34	*Islam Elhabil*	MY	121	Rhizobacteria-assisted Phytoremediation of Ludwigia octovalvis for Nutrient Removal and Microplastic Degradation in Landfill Leachate
P01.35	*Gustavo Riveros*	CL	164	Beyond land application: A review of nutrient recovery technologies from biogas digestate for sustainable fertilisation.
P01.36	*Saskia Hanneman*	NL	331	Vivianite, a mineral that contains phosphorus, can be 'mined' from municipal wastewater sludge.
P01.37	*Aiman Anwar*	BE	399	Advanced Nutrient Recovery from Digested Sludge via Struvite Precipitation

P01.38	*Vítor Vilar*	PT	107	Advanced Treatment of Sidestream Digestate with NETmix Ozonation and Struvite Crystallization: A Dual-Path Approach for Nutrient Recovery and Micropollutant Removal
P01.39	*Chuheng Xie*	CN	69	A Novel Biological Low Oxygen and High Activated Sludge concentration (Bio-LOHAS) Process for Low C/N Wastewater Treatment
P01.40	*Shiqiang (Nick) Zou*	US	302	Electrooxidation of Glyphosate and AMPA on Boron-Doped Diamond: Pathways for Phosphorus Mineralization and Nutrient Management
P01.41	*Guangze Guo*	DE	56	Advanced energy and phosphorus recovery of organic sludge by the integration of a high-solid AnMBR and hydroxyapatite-based PNA process
P01.42	*Shehani Maheepala*	JP	278	Unveiling nutrient removal performance and microbial community adaptation to effluent recirculation in Down-flow Hanging Sponge (DHS) reactors treating industrial wastewater
P01.43	*Luiza Sena*	PT	101	Continuous crystallisation of struvite from anaerobic digestion centrate in a Planar Oscillatory Flow Crystalliser: kinetic study and lab-scale optimisation
P01.44	*Siti Rozaimah Sheikh Abdullah*	MY	129	RECOVERING NUTRIENTS FROM AQUACULTURE EFFLUENT USING Wolffia arrhiza AS POTENTIAL FISH FEED
P01.45	*Vítor Vilar*	PT	360	Magnesium Recovery from Desalination Brine for Sustainable Struvite Production in Wastewater Treatment Plants
P01.46	*Zhaoxu Peng*	CN	62	Utilization of gasified sludge slag as biofilm carriers to improve nutrients removal in wastewater treatment
P01.47	*Jeanette Agertved Madsen*	DK	182	N2O removal by end-of-pipe treatment through catalytic abatement - a pilot scale study
P01.48	*Katarzyna Sytek-Szmeichel*	PL	375	Wastewater from houseboats as an emerging technological challenge for protecting lake water quality
P01.49	*Gabriela Freitas*	NL	29	Effect of temperature and cellulose on aerobic granular sludge
P01.50	*Keiichi KUBOTA*	JP	169	Effect of Anode Density on Sediment Remediation and Electrical Generation Performance by Sediment Microbial Fuel Cell
P01.51	*Reynel Martínez Castellanos*	ES	263	Performance of MBBR Technology for Organic Matter and Ammonia Removal from Real Pig Slurry Effluent
P01.52	*Mary Lusk*	US	355	Opening the biogeochemistry black box of urban stormwater ponds to understand their variable effectiveness for nutrient removal
P01.53	*Jehangir Bhadha*	US	388	Systems-inspired Phosphorus Mitigation Technologies to Improve Agricultural Water Quality in Florida, USA.
P01.54	*Xiaotian Zuo*	CN	265	Genome-centric metatranscriptomics uncover the active microbial guilds and mechanisms shaping metatranscriptomes of activated sludge microbiomes
P01.55	*Dagnija Grabuza*	LV	218	DEVELOPMENT AND EVALUATION OF INTEGRATED PROTOTYPES FOR PHOSPHORUS REMOVAL IN SURFACE WATER SYSTEMS
P01.56	*Tevhide Erusta*	TR	325	Performance of Sludge Fermentation at Neutral pH
P01.57	*Joao Bassin*	BR	351	Tertiary Nitrification of Oil Refinery Wastewater in Moving Bed Biofilm Reactors: Biofilm Development and Operational Stability
P01.58	*Aias Lima*	PT	386	Assessment of market ready technologies for phosphorus recovery from wastewater, sewage sludge and ashes
P01.59	*Barth Smets*	DK	224	Coupled Biotic-Abiotic Dinitrogen Gas Production during Heterotrophic Nitrification by Alcaligenes faecalis
P01.60	*Francisco Rubio Rincon*	NL	31	Rethinking the PhoStrip Process

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P02 Greenhouse Gases & the Broader Footprint

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P02.02	*Alexandra Deeke*	NL	320	The Dutch acceleration program on nitrous oxide- a nationwide approach for mitigation of GHG's
P02.03	*Paula van den Brink*	NL	41	BIOANODES FOR N2O-FREE AMMONIUM CONVERSION
P02.04	*Alexandra Deeke*	NL	319	Low specific N2O emission from full-scale single stage granular sludge-based partial-nitritation-anammox reactors - Two case studies
P02.05	*Marthe de Graaff*	NL	142	Greenhouse gas emissions from industrial wastewater treatment plants – results of measurement campaign and mitigation measures
P02.06	*Xinyi Zhou*	JP	255	Nitrous Oxide Emission and Nitrogen Transformation in Microaerobic Activated Sludge Process Treating Fermentation Wastewater
P02.07	*Erik Rekswinkel*	NL	328	Long-Term Nitrous Oxide Monitoring in Full-Scale Aerobic Granular Sludge Systems: Insights from Utrecht WWTP
P02.08	*Jana Scheynen*	BE	132	Step by Step: N2O Mitigation from AGS-Cultivating Sequencing Batch Reactors through the Step-feed Operational Mode
P02.09	*Paula Carrera Fernández*	ES	385	Design and development of innovative business models to foster sustainable management across the livestock manure value chain.
P02.10	*Liu Ye*	AU	226	Nitrous Oxide Emissions from a Hybrid MABR under Intensified Operating Conditions
P02.11	*Barth Smets*	CN	236	Searching for N2O respiring bacterial catalysts to mitigate N2O emissions from WWTPs
P02.12	*Xinyue Cao*	CN	371	Mechanistic insights into nitrous oxide production in a full-scale high-ammonia CANON plant: linking biological and abiotic pathways
P02.13	*Juntong Leng*	IE	73	Phase-Specific Nitrous Oxide Dynamics and Microbial Mechanisms in a Partial Nitrification IASBR
P02.14	*Nick Ivens*	NL	54	MITIGATION OF NITROUS OXIDE EMISSIONS IN WWTPS: LINKING THEORETICAL KNOWLEDGE WITH PRACTICAL INVESTIGATIONS AT DUTCH WATER AUTHORITY HHSK
P02.15	*Johanna Geesey*	BE	126	Dynamic (de)nitrifiers: N2O emission response of AGS to changing COD/N ratios and water temperatures
P02.16	*Sheng Zhou*	CN	66	Reduction of methane emission from paddy field by planting water-saving and drought-resistance rice with less irrigation water

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P03 Pilot & full-scale

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P03.03	*Yuichi Ito*	JP	36	Novel Ammonia Nitrogen Sensor with Ultrasonic Cleaning and Its Full-scale Evaluation in Conventional Activated Sludge and Nereda® System
P03.04	*Jorge García*	ES	52	Managed aquifer recharge as low-cost and nature-based tertiary treatment for urban wastewater.
P03.05	*Ariane Berthet*	NL	204	Suspended Ion Exchange® for Ammonium Removal in a Wastewater Treatment Plant– A Pilot Study.
P03.06	*Tânia Silva*	PT	366	From Waste to Resource: Circular Ammonia Recovery from Landfill Leachates using Degassing Membrane Technology
P03.07	*Matías Rivadulla*	ES	48	CAMELLIA®: coupling hygienisation of sewage sludge, anaerobic digestion and energy integration by an innovative anaerobic digestion technology
P03.08	*Carolina Galán Franco*	MX	311	Healing Wastes: Pilot-Scale Transformation of Maize-Lime Cooking Process into Hydroxyapatite and Treated Water
P03.09	*Leon Downing*	US	223	Emissions, Energy, and Performance: Low Energy BNR at Full Scale
P03.10	*Chengpeng Lee*	US	96	A Quantitative Comparison of Dissolved Oxygen and Ammonia-Based Aeration Control Strategies in a Full-Scale Biological Nutrient Removal System
P03.11	*Sakib Ahmad*	US	108	Uncertainty in Clarifier Capacity Quantification Limits Process Intensification
P03.12	*Marc Nijboer*	NL	207	Re-activating a saturated woodchip bioreactor: nitrate removal efficiency and side-effects of restarting after prolonged inactive periods
P03.13	*Bert Bundervoet*	NL	196	Pilot-Scale Phosphorus Recovery as Struvite from Digested Sludge Centrate Using the UPHOS® Technology
P03.14	*Rafael Chasles*	BZ	315	São Paulo, Brazil Drought Plan
P03.15	*Sander Wingelaar*	NL	216	Actors' perception of economic and environmental benefits driving the implementation of resource recovery in wastewater treatment plants in the state of Sao Paulo, from a Multi-Level Perspective
P03.16	*maaike Hoekstra*	NL	308	A greenfield wwtp addressing water challenges in treating wastewater in the 21st century
P03.17	*Pongsak Noophan*	TH	8	Comparisons of Nitrogen Removal Efficiencies and Microbial Communities of PartialNitritation and Anammox Processes among Laboratory-Scale and Two Full-Scales (New Taipei Taiwan and Metro Water Recovery Facility, Denver, CO, USA)
P03.18	*Sudhir Pillay*	SA	162	Wastewater and Faecal Sludge Beneficiation in South Africa: Barriers, Opportunities, and Case Insights
P03.19	*Matías Rivadulla*	ES	53	Resource recovery in WWTPs: linking partial nitritation-anammox and struvite for fertilizers production

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P04.03	*Mary-Luz Barrios-Hernandez*	CR	344	Assessment of the safety and characterization of sewage sludge from a Municipal WWTP for composting use
P04.04	*Pavithra Pari*	IN	392	Enhancing Biogas Production from Food Organics and Garden Organics (FOGO) through Pretreatment Strategies
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P04.06	*Wen Zhang*	US	144	Waste-to-Catalyst: Energy-Neutral Copper Recovery and Nitrate Reduction Using a Self-Filtering Al/Cu^{2+} Galvanic Cell
P04.07	*Wentao TANG*	HK	363	Metabolic model-guided succinic acid recovery by Yarrowia lipolytica
P04.08	*Nur 'Izzati Ismail*	MY	119	Integrating biocoagulation in circular aquaculture systems for resource recovery
P04.09	*Andrea Acosta Figueredo*	BE	289	Development and Evaluation of the High-Rate Granular Sludge (HiGS) Technology for Enhancing Resource Recovery from Wastewater
P04.10	*Indrajit Chakraborty*	IN	237	Integrated Nutrient Recovery and Bioproduct Generation from Microalgae under different mode of growths
P04.11	*Duygu MUTLU YUCEL*	TR	217	A Holistic Approach to Produce Lactic Acid as a PLA Precursor from Sugar Industry By-products
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P05 Microbial Ecology

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P05.02	*Dongdong Xu*	AU	64	MECHANICAL RESISTANCE OF HIGHER EPS CONTENTS IN LARGER GRANULES RESTRICTS ANAMMOX BACTERIAL GROWTH
P05.03	*Hermes Bolivar Torres*	DE	172	Comparing and contrasting microbial taxonomy and function in two secondary wastewater treatment procedures
P05.04	*Sri Laxma Senthilnathan*	SE	149	Phage–Host Dynamics and Bioreactor Function in Nitrifying Sequencing Batch Reactors
P05.05	*Dongqi Huang*	CN	25	Mechanistic elucidation of microbial thioredoxin systems via machine learning-guided molecular dynamics
P05.06	*Jiapeng Li*	CN	185	Diversifying Nitrogen Removal Pathways in A/O Process Treating Low C/N wastewater via Creating Various Living Niches for Functional Bacteria
P05.07	*Songkai Qiu*	CN	198	Functional microbial competition and evolution driven by increased COD/N and reduced temperatures in mainstream partial nitritation-anammox
P05.08	*Nan Zhang*	CN	372	Microalgae growth in reclaimed wastewater treatment plants: an unneglectable water security issue
P05.09	*Susan Hansen*	DK	267	MiDAS: Field Guide to the Microbes of Water Resource Recovery Facilities - “Know your microbes!”
P05.10	*Cailong Nie*	CN	402	Microscale niche differentiation and metabolic division of labor enhance the oxygen resilience of anammox consortia
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