

Smart Rivers 2019 Detailed Programme

Monday 30th September 2019

8:00 – 21:00	Reception Hall, CCC Lyon	Registration
09:00 – 17:30	CCC Lyon – check rooms at registration desk	WG & Com Meetings
09:00 – 12:30	CCC Lyon – Rhône 1	Short course – Characteristics of the waterways (WG 141)
09:00 – 12:30	CCC Lyon – Rhône 1	Short course – MDTP (marina design training program)
11:00 – 12:30	CCC Lyon – Rhône 3A	Special session University Task Force
14:00 – 17:30	CCC Lyon – Rhône 3A	In Memoriam Claude Gressier
14:00 – 17:30	CCC Lyon – Rhône 1	Short Course – Inland Waterway and banks protections
19:00 – 21:00	CCC Lyon – Place Haute	Welcome Reception

Tuesday 1st October 2019

8:00 – 18:00	Reception Hall, CCC Lyon	Registration
09:00 – 10:30	Auditorium, CCC Lyon	Opening Ceremony
	PIANC Welcoming allocution	Francisco Esteban Lefler – Président of PIANC
	Discours de bienvenue de l'AIPCN	Paul Scherrer, Vice-Président d'AIPCN-France, Premier délégué au gouvernement
	Connecting Europe	Péter Balász – coordonnateur Nord Sea-Mediterranean Corridor
	Développement des Voies navigables françaises	A representant of French ministry of Transport
	Lyon, Le Rhône, La Saône	Gerard Collomb, Mayor of Lyon
	La région Auvergne Rhône Alpes	Michèle Cédric, Conseillère de la région AURA
	Voies Navigables de France 2.0	Thierry Guimbaud, Directeur Général de Voies navigables de France
	Le modèle CNR	Elisabeth Ayrault, Directrice de la Compagnie Nationale du Rhône
	Présentation technique – Réhabilitation du Quartier des Confluences	Francois Bordry – Président de la Biennale de Lyon

11:00 – 12:30	SESSION SPECIALE – IAGF	Auditorium	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-1 Infrastructures technical design	Rhône 1 Chair: Xavier Bancal	IW TRANSPORT_ ECONOMICS – C-1 Corridor Strategies	Rhône 2 Chair: Michael Fastenbauer	SMART TRANSPORT – D-1 River Information Services 1	Rhône 3A Chair: Juergen Troegl	ENVIRONMENT-WWN – E-1 Engineering with Nature	Rhône 3B Chair: Jasna Muskatirovic
	Session spéciale IAGF Initiative pour l'Avenir des Grands Fleuves	Facilitator: Erik Orsenna	Optimization of the protection of a building site in the river: nautical aspects of the doubling of the SNCF bridge named « Pont des Anglais »	Bertrand de Bruyn – Cerema	The Méditerranée Rhône Saône waterway logistic	Charles-Elie Allier – Cerema	Inland Electronic Navigation Charts: new approach or new purpose?	Gert Morlion – De Vlaamse Waterweg	Engineering With Nature for Rivers and Inland Water Infrastructure	Todd Bridges – Usace
			Conception standardisée sur les itinéraires Aisne et Meuse	Julien Vanwarreghem – BRL	Low water levels on the Rhine in 2018 and their economic impact on the inland navigation industry and on the industrial sector in Germany	Norbert Kriedel – CCNR	A Spatial database as the backbone of ris – How to bring spatial awareness to flat-file nautical data	Jonathan Gallagher – ViaDonau	Guidance for Thin Layer Placement of Dredged Material	Tim Welp – Usace
			Hydraulic loads on bottom constructions behind a storm surge barrier or weir: development of a rapid assessment method	Otto Weiler – BRL	Good Navigation Status (GNS) – A suitable concept for navigation improvements on rivers and canals? Lessons learned at the Rhine	Kai Kempmann – CCNR	e-RIS, service d'information fluviale pour une navigation intelligente sur le Rhin supérieur	Raphaël WisselMann – VNF	Linking Ecosystem Services To Estuary Restoration At The German North Sea Coast	Johann Krebs – WSV
			Bouchures gonflables : quelles capacités de régulation ?	Julien Aubonnet – BRL	Multifunctional and multimodal role of waterways : Waterborne, Land development and water resources : the case of Seine-Scheldt	Nicolas Bour – VNF	Project Masterplan Digitalisation of Inland Waterways	Therry van der Burgt – RWS	Strategic Placement of Dredged Material from Riverine Environments for Restoring Marsh Habitat	Burton Suedel – Usace

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Tuesday 1st October 2019

14:00 – 15:30	WATERWAYS : MANAGEMENT AND GENERAL DESIGN – A-1 Project Management	Auditorium Chair; Luc Van Damme	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-2 Asset Management 1	Rhône 1 Chair: Valérie Chabrier	IW TRANSPORT ECONOMICS – C-2 Port Strategies	Rhône 2 Chair: Nicolas Bour	SMART TRANSPORT – D-2 River Information Services 2	Rhône 3A Chair: Esteban Biondi	ENVIRONMENT-WWN – E-2 Climate & Extreme E-Weathers Effect	Rhône 3B Chair: Turi Fiorito	WATERWAYS : MANAGEMENT AND GENERAL DESIGN – A-6 Navigable River Design	St Clair 1 Chair: B Soenghen
	Early contractor Involvement	Kenneth Willems – Vuentica	Mississippi Lock and Dam 21: Rehabilitation vs. Replacement for Submergible Tainter Gate	Chris Willcox – Tetrattech	City-Port relationship and its influence in the social environment	Ramiro Lopez Saubidet – Puerto Buenos aires	PIANC WG 125 – New challenges for RIS	Piet Creemers – De Vlaamse Waterweg	Assesment of climate change effects on navigables conditions on the river branches of the Rhine in The Netherlands	Frederik Vinke – TU Delft	Guidelines for inland waterways in rivers	Dick ten Hove – Marin
	The social and environmental contributions of the increasing of gauge and capacity of Ampsin-Neuville lock site on the Meuse River	Stephane Barlet – SPW	Life Cycle Investment Strategies and Operational Risk Exposure for Critical Assets on the McClellan Kerr Arkansas River Navigation System	Robert Patev – Usace	Comparing national port strategies paves the way for new PIANC works	Geoffroy Caude – CGEDD	Interaction between RIS in inland navigation and ITS for roads. The bridge opening dilemma.	Mike Fafieanie – Technolution	Accommodating Climate Change Uncertainties in Option Selection, Design and Investment for Resilient Waterborne Transport Infrastructure, up to and Beyond 2050	Laure Herbert – Socotec	Impact of an irregular bank on the sailed trajectory of an inland ship	Antoine Bedos – Marin
	Contrat de Partenariat pour le remplacement de 29 barrages sur l'Aisne et la Meuse. Mise en Àuvre de 4 centrales hydroélectrique.	Laura Chapital – VNF	Safety and Security. Some experiences in Unauthorized Intervention Mitigation	Sebastian Garcia – Hidrovia	Le Port de Lyon, outil multimodal au service du développement du territoire	Pierre Meffre – CNR	AIRIS-PS Project for the complete implementation of RIS (River Information Services), in the Port of Seville and in the Guadalquivir Waterway	Rodrigo Garcia Orera – Port Sevilla	Understanding the Costs and Consequences of Extreme Weather Events	Jan Brooke – Consultant	Automated Methodology to Assess Navigable Areas of Long Rivers for different vessels and hydraulic-meteo conditions	Raul Redondo – Siport
	DBFM New Flood Barrier Limmel, why integrated contracts lead to better performance	Ken Watzeels – Besix	Inventaires de qualification du patrimoine d'infrastructures VNF	Xavier Cherradi – Artelia	Development of the Port of Barranqueras and its role in the Paraguay – Parana Waterway	Ariel Jose Savarese – Empyria STM	Enhancing Accessibility and Usability of Automatic Identification System (AIS) Data	Supriti Jaya Ghosh – CMTS	Strengthening Resilience and Adapting Waterborne Transport Infrastructure	Panel discussion – invited experts	Waterway dimensions in perspective – Evolution du dimensionnement des voies navigables	Jean-Marc Deplaix – Consultant

16:00 – 17:45	WATERWAYS : MANAGEMENT AND GENERAL DESIGN – A-2 Channel Design	Auditorium Chair: Didier Bousmar	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-3 Asset management 2	Rhône 1 Chair: Jose Sanchez	IW TRANSPORT ECONOMICS – C-3 Modal shift to Waterway	Rhône 2 Chair: Andreas Dohms	SMART TRANSPORT – D-3 River Information Services 3	Rhône 3A Chair: Piet Creemers	ENVIRONMENT-WWN – E-3 Environmental issues	Rhône 3B Chair: Todd Bridges
	Analysis of Flow Fluctuation Characteristic and Improvement Measures in Navigable Tunnel	Long Zhu – NHRI	Scheduling of maintenance interventions based on network reliability	Francesca Marsili – BAW	The modal shift process – ways to achieve an increased use of inland waterway transportation	Vendela Santén – SSPA	Rhine Ports Informations System: a front running Port Community System in Europe	Emilie Gravier – Port Strasbourg	RiverTri, une déchetterie fluviale de proximité, dans le centre-ville de Lyon	François Pyrek – Suez
	Optimisation des investissements dans les infrastructures de navigation grace à une chaine complète de modélisation	Nicolas Nerincx – DN – T	Maintenance Management Without Using Probabilistic Methods? Step 1: Decision Preparation	Heike Schmidt-Baeumler – BAW	Constraints suffered and resources developed by a carrier	Christophe Mundutéguy – Iffstar	Smart reporting – Reducing reporting burdens along the Danube waterway Introducing reporting only once with single entering of data for IWT	Katrin Haselbauer – ViaDonau	Reducing the Risk of Asian Carp Establishment in the Great Lakes: Challenges with Adapting Waterways to Protect Ecosystems	Kevin Knight – Usace
	Simulateur de navigation sur le Rhone et la Saone	Philippe Miroudot – Cerema	Robustness of Navigation Infrastructure in Context of Risk-Based Maintenance	Jan Akkermann – HS Karlsruhe	Medlink Ports: Port Cooperation as a Key Factor of Modal Shift in Freight Developments	Fabienne Margail – Port Marseille	Implementing River Information Services (RIS) – Lessons learned from the Rhine –	Gernot Pauli – CCNR	Passé à poissons de Sauveterre	Jerome Lefrancois – Vinci
	The influence of a waterway cross section size on a fuel consumption of an inland vessel – a sensitivity analysis	Wojciech Misiag – Arcadis	Risk based inspection and maintenance planning of miter gates	Thuong Dang Van – Anast	Assessing the robustness of Dutch Inland Ports	Poonam Taneja – TU Delft	The introduction of AIS AtoNs on the river Danube	Juergen Troegl – ViaDonau	Thirty years' experience of reed belt protection in urban waterways	Christian Wolter – IGB Berlin
			"Innovations in Underwater Imaging of Waterway Infrastructure, PIANC WG 182"	Kari Pohjola – Meritaito			COMEX Elbe-Weser Corridor – Providing digital Aids to Navigation information via AIS and ECDIS	Stefan Bober – WSV	Approche innovante de compensation pour un grand canal	Emilie Ledein – SCSNE

From 16:00	TBC	Young Professional Event
18:00 – 21:00	Congress Pier	Optionnal cruise to Lyon Confluences

Wednesday 2nd October 2019

8:00 – 18:00	Reception Hall, CCC Lyon	Registration
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Wednesday 2nd October 2019

09:00 – 10:30	SESSIONS SPÉCIALE – Development of African rivers	Auditorium Chair: Bruno Georges	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-4 Lock Lengthening	Rhône 1 Chair: Erwin Pechtold	IW TRANSPORT ECONOMICS – C-4 Urban Waterway Logistics	Rhône 2 Chair: Pierre Meffre	SMART TRANSPORT – D-4 Remote Lock Operation	Rhône 3A Chair: Lieven Dejonckheere	ENVIRONMENT-WWN – E-4 Morphology of European rivers	Rhône 3B Chair: Zhao Gensheng
	CICOS_Congo	Judith Enaw	Incom WG 206_ Updating Pianc locks report : first results	John Clarkson – Usace	Waterborne city logistics: Bringing together inland shipping, logistics education and urban development	Lars Stemmler – Port Bremen	Téléconduite des ouvrages du Nord-Pas-de-Calais	Luc Getto – Setec	Programme de rééquilibrage du lit de la Loire entre Les Pont-de-Cé et Nantes	Damien Alliau – CNR
	Suez Canal Authority_Egypt	Mohammed Helal								
	Sogenav_Senegal	Mahamadou Thioub	Allongement de l'écluse de Rochetaillée	Mathieu Ferrière – CNR	Du vrac au colis: le méritoire ajustement du transport fluvial aux besoins de la cité contemporaine	Marie Douet – Cerema	Automation and remote operation of locks at Saar River	Rainer Strenge – WSV	Danube Sediment Management – Restoration of the Sediment Balance in the Danube River	Barbara Keri – Epito
	Ministry of Equipement_Niger	Seidou Sodja	Allongement de l'écluse de Quesnoy-sur-Deule	Philippe Schalkwijk – BRL			InCom Workgroup 192: Developments in the Automation and Remote Operation of Locks and Bridges	Albert Barnes – Tetrattech	Dealing with hydro-morphological challenges on the Austrian Danube	Robert Toegel – ViaDonau
	A new paradigm for river management: Application to the Niger Inner Delta in Mali	Jean-Michel Hiver – ULB	Concept for standardized restoration and extension of ship locks	Claus Kunz – Baw	Livrer la ville par le fleuve, quelles conditions ?	Manon Sudre – ENPC			Bathymetric monitoring of the Rhone River bed: diachronic analysis of the hydromorphological evolution of the Rhone	Reynaud Sylvain – CNR
11:00 – 12:30	SESSIONS SPÉCIALE – Development of African rivers	Auditorium Chair: Bruno Georges	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-5 Locks and ship lift design 1	Rhône 1 Chair: John Clarkson	IW TRANSPORT ECONOMICS – C-5 On Board Instrumentation and Bathymetry Models	Rhône 2 Chair: Sebastian Garcia	SMART TRANSPORT – D-5 Self Navigating Vessels	Rhône 3A Chair: Gernot Pauli	ENVIRONMENT-WWN – E-5 Morphodynamic modelling	Rhône 3B Chair: Julien Vanwarreghem
	Faisabilité de la navigabilité sur le Fleuve Niger, Bief Ajourou-Gaya	André Hage	Reconstruction et allongement des écluses de Méricourt : étude du fonctionnement hydraulique de l'ouvrage	Gwenael Chevallet – BRL	Modeling tidal propagation in Guadalquivir Estuary Spain). Model output application to vessel navigation	Rodrigo Garcia Orera – Port Sevilla	Command and Control of Vessel Trains in Inland and Short-sea Shipping	Alexander Lutz – Argonics	Use of hydrodynamic models for decision-making in dredging works. Uruguay River waterway case (Argentina).	Sebastián Villalba – Hidrovia
	Amélioration de l'accès du port de Brazzaville par la navigation	Francis Fruchart et Nicolas Fraysse					Automation in inland navigation: current projects and future regulatory challenges	Benjamin Boyer – CCNR		
	Design of the navigation channel on the Senegal River	Sébastien Page – IMDC	Performance of lock with vertical lift gates after renovation; case study including measurements and optimisation of levelling system	Johannes J. Veldman – Solcon	Navigation with Nature	Tiedo Vellinga – TU Delft	Towards Smart Shipping in the Netherlands	Michael Schreuder – RWS	Sediment Transport Modeling and Morphodynamic Analysis of Navigation Improvement Designs on the Madeira River, Brazil	Calvin Creech – Usace
	Spatial altimetry to improve inland navigation in the Congo basin	Sebastien Legrand – CNR			Dynamic draft from ship informed depths at the mouth of mazon River, Brazil	Susana Vinzon – UFRJ	Approaches to Automatic Entering of Locks	Martin Sandler – IN	Sediment Transport in middle and lower Yangtze River after Three Gorges Dam, China	Gensheng Zhao – NHRI
	Développement d'un outil d'aide à la navigation sur le bassin du Congo issu d'un Système d'Informations	Damien Brunel – BRL	Challenges in the design and construction of the New Lock in Terneuzen; A unique Dutch-Flemish collaboration	Erwin Pechtold – RWS	CoVadem:Sailing with foresight	Meeuwis van Wirdum – Covadem			Assessing hydraulic and morphological effects near small hydro-power plants	Anton de Fockert – Deltares
14:00 – 15:30	WATERWAYS : MANAGEMENT AND GENERAL DESIGN – A-3 Traffic studies	Auditorium Chair: Brian Tetrault	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-6 Locks and ship lift design 2	Rhône 1 Chair: Wu Peng	IW TRANSPORT ECONOMICS – C-6 Waterway Logistic Issues	Rhône 2 Chair: Laure Roux	SMART TRANSPORT – D-6 Vessel's Optimization	Rhône 3A Chair: Pierre Jean Pompée	ENVIRONMENT-WWN – E-6 Sustainable waterways	Rhône 3B Catherine Swartenbroeckx
	Modelling the traffic capacity of the narrow canal Roeselare-Lys, Flanders (Belgium)	Toon Goormans – IMDC	Incom WG 207_ Ship Lifts : first results	Gensheng Zhao – NHRI	Contribution of Blockchain-Technology to secure and efficient information sharing between stakeholders in Danube transport	Lisa-Maria Putz – Fh-steyr	Design of Standardized Vessels for the National Waterway 1 in India	Thomas Guesnet – DST	Sustainable Inland Waterways	Yvon Loyaerts – SPW
	A comprehensive traffic model of the ECMT class Va inland waterway network of Nord-Pas-de Calais, France	Roeland Adams – IMDC	Innovative Technology Saves One-Hundred Old Panama Canal Locks	Tom Stephens – Tencate	A Case Study of Sustainable Transportation Using Inland Waterway in South Korea	Choonghyo Lee – K Water	Optimal vessel class for container transport from hinterland to seaport, costs comparison between Class IV and Class Va	Johannes J. Veldman – Solcon	Applying the Ecosystem Service Concept to Waterborne Transport Infrastructure	Jochen Hack – TU Darmstadt
	Calcul de l'Estimation du Temps d'Arrivée (ETA)	J.-M. Farenc – Cerema	Innovative Design of Hydro-Floating Ship Lift with Lift Weight of Kiloton	Chao Guo – NHRI	Les enjeux logistiques pour la réussite du projet de canal Seine Nord Europe	Franck Rousseau – SCSNE	Nouvelles perspectives de réduction des émissions de moteurs fluviaux	Christophe Belot – Bertin	Natural riverbanks in a regulated waterway – A full restoration approach in the Meuse River	Gonzalo Duro – TU Delft
	Optimization of ship locks waiting times and operations	Florian Linde – Cerema	Maintien de la navigation lors de la réhabilitation d'écluses : impacts sur la stabilité des ouvrages	Alexandre Doradoux – BRL	Container logistics in Paraguay, Terport case	Jose Grau – EGIP-UBA	Gestion de l'énergie à bord et hybridation de sources d'énergie	Jean-Pierre Husson – Bertin	Hydraulic regulation of La Mojana, working with Nature in the Cauca River in Colombia	John Michael Polo – Setec

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Wednesday 2nd October 2019

16:00 – 17:45	WATERWAYS : MANAGEMENT AND GENERAL DESIGN – A-4 Navigation optimization	Auditorium Chair: Florian Linde	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – Monitoring- SHM – BIM Structural Health Monitoring- B-7 Building Information Modeling)	Rhône 1 Chair: Claus Kunz	IW TRANSPORT_ ECONOMICS – C-7 Waterway Logistic Issues and Digital tools	Rhône 2 Chair: Eloi Flipo	SMART TRANSPORT – D-7 Energy Issues with Waterways	Rhône 3A Chair: Didier Baudry	ENVIRONMENT-WWN – E-7 Ecological bank	Rhône 3B Chair: Franck Pressiat
	Passing ship effects on inland vessels moored in a side harbor next to a fairway	Lutz Schweter – Arcadis	Innovative solution for navigation locks monitoring	Mikael Carmona – Morphosense	The Global Grain Model and its Potential Role in Investment Decisions on the U.S. Inland Waterway System	Kevin Knight – Usace	Le solaire innovant au fil de l'eau	Hélène Wagret – CNR	Theoretical Research on the Evaluation of the Green Ecological Bank Slope Treatment for Inland Waterways	Dianguang Ma – Tianjin RI
	Validation of squat formulas for inland vessels	Anke Cotteleer – Marin	Operation of a monitoring system including fiber optics on the Rhine Levees between Strasbourg and Iffezheim	Cyril Guidoux – Geophyconsult	Cybersecurity in Inland Navigation	Gernot Pauli – CCNR	Stratégie Région AURA_ mobilité hydrogène	Brigitte Ducourtill – AURA	Best Practice Approach of indirect technical-biological bank protection on waterways with strong ship-induced impacts	Jeroen Verbelen – De Vlaamse Waterweg
	Prototype observation of navigable Safety of Inland River ships under complex flow conditions	Xin Wang – NHRI	DEF-pathology in concrete supporting a lock-gate: use of numerical modelling to re-assess structural behaviour	Jean-Francois Seignol – Iffstar	Using augmented reality to transfer knowledge about inland waterway logistics	Lisa-Maria Putz – Fh-steyr	European strategy for a climate neutral EU by 2050 and need for navigation sector to engage	Laure Roux – CCNR	Application of three-dimensional Geonet Grass Planting Technology on inland waterway bank protection at lower Beijiang River in China	Yan Xing – Tianjin RI
Le BIM pour les infrastructures hydrauliques : une expérience croisée de Maitrise d'ouvrage, d'exploitation et d'ingénierie			Franck Rangonno – BRL	Escale de La Roche-Guyon – Seine	Benoît Seidlitz – Port Paris	Willow brush mattresses – a promising method of direct technical-biological bank protection on waterways			Katja Behrendt – BFG	
A French experience of Structural Health Monitoring of scour affecting river infrastructures			Frédérique Larrarte – Iffstar			First steps towards a Best Practice Approach for selection of technical-biological bank protections – status and findings of PIANC InCom WG 128			Bernhard Soehngen – BAW	

19:30 – 23:00	Lyon City Hall	Gala dinner
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Thursday 3rd October 2019

8:00 – 18:00	Reception Hall, CCC Lyon	Registration
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09:00 – 10:45	WATERWAYS : MANAGEMENT AND GENERAL DESIGN – A-5 Network governance	Auditorium Chair: S Gastarriet	IW INFRASTRUCTURES: DESIGN AND MAINTENANCE – B-8 Lock hydraulics	Rhône 1 Chair: Carsten Thorenz	IW TRANSPORT_ ECONOMICS – C-8 Recreation and Passenger Transport	Rhône 2 Chair: Sim Turf	ENVIRONMENT-WWN – E-8 Environmental strategy –Sediment monitoring and dredging	Rhône 3B Chair: Jean-Michel Hiver
	Building a strategic scheme for management and investments on the Walloon waterways network	Didier Bousmar – SPW	Lanaye Lock – Perturbation in the lock chamber induced by an asymmetrical filling	Celine Savary – SPW	Les freins au développement du transport du quotidien par navettes fluviales et maritimes	Didier Baudry – Cerema	Influence of climate, garbage, sedimentation	Christophe Moiroud – CNR
	Romanian Inland Waterways Transportation System – Engineering and Maintenance	Victor Dumitrescu – BCPC	Feasibility study of Itaipu Locks	Sébastien Roux – CNR	Réappropriation industrielle et touristique de la Sambre à Hautmont	Vincent Azemard – BRL	Incorporating Ecological and Social Benefits into Land Planning through Engineering With Nature and Landscape Architectural Practices	Jeffrey King – Usace
	EDF, exploitant 4.0 du multi-usage de l'eau sur le Rhin Supérieur	Noël Panier – EDF	Study on the Filling and Emptying System of Wanan Second Lock	Peng Wu – CCCC	Recreational Navigation Infrastructure as part of Resilient and Sustainable Transportation Systems and Urban Development	Esteban Biondi – Applied TM	Implementation of a strategy for structuring information relating to Seine estuary management issues – SCRIPTES project	Anne Levasseur – Artelia
			Retour d'expériences sur le fonctionnement des écluses avec blocs de remplissage dissociés et porte intermédiaire en période d'étiage	Pierre Roumieu – CNR			Innovative use of dredge material for upgrading a concrete embankment	Edwin Zengerink – Tencate
							Monitoring watershed sediment supplies in Walloon waterways	Catherine Swartenbroeckx – SPW

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Thursday 3rd October 2019

11:00 – 12:30	Auditorium, CCC Lyon	Closing Ceremony
	Jean Christophe Baudouin , Délégué interministériel au développement de l'axe portuaire et logistique	Méditerranée Rhône Saône
	Bruno Lebuhotel	Métropole de Lyon
	Pascal Berteaud	Directeur général du Cerema
	Jean-Bernard Kovarik	Scientific Commettee Chairman,
	Geert Van Cappellen	Secretary of PIANC
	Gensheng Zhao & Yun Li, PIANC Chine	Introduction of Smart Rivers 2021
	Guillaume le Réveillé, Président d'AIPCN–France	General conclusion
13:30 – 17:30	All tours depart at 13:30 from Entrance H of the Centre des Congrès	Technical visits
	Congress Pier on bateau confluences, expected return 17:00, bottled water will be provided on the boat	PORT OF LYON AND NAVIGATION SIMULATOR / PORT DE LYON ET SIMULATEUR DE NAVIGATION multimodal infrastructure combining five modes of transport: fluvial, maritime, river, road and oil pipeline. It is the head of a network of 18 industrial and port sites and 9 quays operated by CNR along the Rhône, in direct connection with the Grand Port Maritime of Marseille and the ports of the Saône .
	Transport by Bus, expected return 17:00, bottled water will be provided on the bus	CACOH (CENTER FOR BEHAVIORAL ANALYSIS OF HYDRAULIC STRUCTURES, CNR) / CACOH (CENTRE D'ANALYSE COMPORTEMENTALE DES OUVRAGES HYDRAULIQUES, DE CNR) Taking care of the control of hydraulic risks and participates in the optimisation of the functioning of the works, with the activities: laboratory of hydraulic modeling, auscultation of the hydraulic works and engineering of the materials, hydrometry, hydrography
	Transport by Bus, expected return 17:00, bottled water will be provided on the bus	NEW DISTRICT OF CONFLUENCE / NOUVEAU QUARTIER DE LA CONFLUENCE Major redevelopment between Rhône and Saône. An innovative urban project that highlights the rivers and landscape qualities of the site. It includes an old industrial port, the port Rambaud, along the Saône and former warehouses including the Sucrière, building that regularly hosts events such as the Biennale of Contemporary Art.
	Transport by Bus, expected return 19:00, lunch will be provided on the bus	CEA TECH LITEN / CEA TECH LITEN The proposed visit focuses on the Innovation Laboratory for New Energy Technologies and Nanomaterials (LITEN) in Grenoble, one of the CEA Tech institutes, the CEA's "technological research" department, the energy commissioner atomic energy and alternative energies. Inaugurated on December 21, 2018, the river hydroelectric farm of Caluire on the Rhone is a world first. It consists of 4 vertical axis turbines with a power of 80 kW unit
	Transport by Bus, expected return 19:00, lunch will be provided on the bus	ARTELIA'S TRAINING CENTER FOR PILOTS / ARTELIA, UNE ÉCOLE DÉDIÉE AU PILOTAGE Port Revel, a subsidiary of ARTELIA group, is a ship handling training center; world leader for continuous training at all possible maneuvers in all conditions imaginable on scale models.