

TIDALITES 2022 SCIENTIFIC PROGRAM

[The indicated presentation times follow the Central European Time (CET), which is 1 hour ahead of Coordinated Universal Time (UTC)]

Monday 2 May 2022

18:30-22:00	Welcoming at the Chiesa del Cristo Flagellato of Matera (pre-registration)
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1st Day Tuesday 3 May 2022 (morning)

8:00-9:00	Registration
9:00-10:00	Opening Ceremony and Authority Greeting

SCIENTIFIC SESSION 1

Chairs: J. Bartholdy & S.G. Longhitano

10:00-10:35	<p>Keynote 1 Trincardi F. <i>Head of the Department of Sciences of the Earth System and Environmental Technologies, National Research Council of Italy, Bologna, Italy</i></p> <p>TIDAL SYSTEMS OF THE ANTHROPOCENE: THE CASE OF THE VENICE LAGOON AND NORTHERN ADRIATIC SYSTEM</p>
10:40-10:55	<p>Van Yperen, A.E., Holbrook, J.M., Poyatos-Moré, M., Midtkandal, I. *</p> <p>ASSESSING PREDICTABILITY IN TIDE-INFLUENCED RIVER CHANNEL MORPHOLOGY: CAN WE TAKE PREVIOUS CONCEPTS ONE-STEP FURTHER?</p>
10:55-11:10	<p>Puppini, A., Tognin, D., Paccagnella, M., Zancato, M., Ghinassi, M., Marani, M., D'Alpaos, A. *</p> <p>BLUE CARBON ASSESSMENT IN THE SALT MARSHES OF THE VENICE LAGOON (ITALY)</p>
11:10-11:25	<p>Tessier B., Reynaud J.-Y., Cuitino J., Duperron M., Scasso R., Pancrazzi L., Dezileau L., Bout-Roumazielles V., Armynot du Châtelet E.</p> <p>THE HYPERTIDAL ESTUARY OF THE SANTA CRUZ ESTUARY (SOUTH PATAGONIA, ARGENTINA): A COMPOSITE RIA-TYPE SYSTEM SUBJECT TO EXCEPTIONAL HYDRODYNAMIC AND SEDIMENTARY FORCINGS</p>

11:25-12:00	Coffee break and poster session
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12:00-12:15	<p>Kim, D.H., Jo, J.H., Choi, K.S. *</p> <p>ROLE OF RAINFALL-INDUCED RUNOFF DISCHARGE AND HUMAN DISTURBANCE ON THE MORPHODYNAMICS AND SEDIMENTATION IN THE SEMI-ENCLOSED MACROTIDAL FLATS (SHINSI TIDAL FLATS, KOREA)</p>
12:15-12:30	<p>Campos-Soto, S., Tessier, B., Mouazé, D., Benito, M.I., Quijada, I.E., Suarez-Gonzalez, P.</p> <p>TIDAL FLATS OF THE BAY OF MONT-SAINT-MICHEL: A NATURAL LABORATORY TO UNDERSTAND THE SEDIMENTARY CONTROLS ON THE FORMATION AND PRESERVATION OF VERTEBRATE TRACKS</p>
12:30-12:45	<p>Rossi, V., Amorosi, A., Armynot du Châtelet, E., Barbieri, G., Da Prato, S., Frontalini, F., Mazzini, I., Vaiani, S.C., Vecchi, A.</p> <p>SPATIO-TEMPORAL VARIABILITY OF MICROTIDAL TRANSITIONAL SYSTEMS AS REVEALED BY BIOFACIES: PRESENT-DAY AND HOLOCENE DYNAMICS FROM THE PO PLAIN RECORD (N ITALY)</p>

* ECR award concurrent candidates

**1st Day
Tuesday 3 May 2022
(afternoon)**

SCIENTIFIC SESSION 2

Chairs: V.M. Rossi & D. Chiarella

14:30-15:05	<p>Keynote 2 Martinius A.W. <i>Specialist in Sedimentology and Stratigraphy, Equinor ASA, Trondheim, Norway Professor in Hydrocarbon Geology at the Technical University of Delft, the Netherlands</i></p> <p>TIDALITES IN THE SUBSURFACE: THE NEED FOR DE-SIMPLIFYING CONCEPTUAL MODELS, IMPROVING PRODUCTION AND STORAGE STRATEGIES, AND RESEARCH OUTLOOK</p>
15:05-15:20	<p>Plink-Björklund, P., Xu, Z., Genecov, M. TOWARDS MORPHODYNAMIC AND SEDIMENTARY MODELS OF TIDE-INFLUENCED AND TIDE-DOMINATED DELTAS</p>
15:20-15:35	<p>Quijada, I.E., Benito, M.I., Suarez-Gonzalez, P., Rodríguez-Martínez, M., Campos-Soto, S. A CRETACEOUS CHALLENGE TO ACTUALISTIC AND CYCLIC CARBONATE-EVAPORITE PERITIDAL FACIES MODELS FROM THE CAMEROS BASIN (SPAIN)</p>
15:35-15:50	<p>Chen, S., Kvale, E.P., Steel, R.J., Olariu, C., Zhang, J. ESTIMATING PALEOTIDAL CONSTITUENTS FROM WELL-PRESERVED TIDAL RHYTHMITES: REVIEW AND NEW DATA FROM PLIOCENE "TIDAL GAUGES" IN THE PALEO-ORINOCO DELTA, TRINIDAD</p>
15:50-16:25	Coffee break and poster session
16:25-16:40	<p>Reynaud, J-Y., Soussi, M., Akrouf, C., Boukhalfa, K., Chnayna, M., Znazen, R., Ouaja, M., Aloisi, G., Saïdi, M., Musial, G., Tribouvillard, N., Rouchy, J-M. DO EVAPORITES RECORD TIDES? OBSERVATIONS IN THE LOWER CRETACEOUS OF SOUTHERN TUNISIA</p>
16:40-16:55	<p>Gugliotta, M., Collins, D.S., MacEachern J. A. EVIDENCE OF FLUVIAL DOMINANCE IN THE MOST FAMOUS ANCIENT TIDE-DOMINATED DELTA: A REINTERPRETATION OF THE UPPER CRETACEOUS SEGO SANDSTONE AND BUCK TONGUE, BOOK CLIFFS, UTAH</p>
16:55-17:10	<p>Fustic, M., Dillinger, A., Zhemchunikov, V.G., Yensepbayev, T.A. TIDAL FACIES IN SILICLASTIC NEOPROTEROZOIC AKTUGAY FORMATION, SOUTHERN KAZAKHSTAN</p>

* ECR award concurrent candidates

2nd Day
Wednesday 4 May 2022
(morning)

SCIENTIFIC SESSION 3

Chairs: R. Dorsey & K. Choi

09:00-09:35	<p>Keynote 3 Cosma M. <i>Post-DOC Researcher Fellow Institute of Geosciences and Earth Resources National Research Council of Italy Padova, Italy</i> TIDAL SIGNATURE PLAYING HIDE-AND-SEEK IN MEANDERING-CHANNEL DEPOSITS</p>
09:40-09:55	Pancrazzi, L., Tessier, B., Weill, P., Mouazé, D., Cuitiño, J. I., Duperron, M., Scasso, R.A. * ARCHITECTURAL VARIABILITY OF A COARSE-GRAINED BARRIER SYSTEM IN A HYPERTIDAL ENVIRONMENT (SANTA CRUZ ESTUARY, ARGENTINEAN PATAGONIA)
09:55-10:10	Saha, A., Bhattacharya, B. * EFFECTS OF TIDAL INFLUENCE ON THE DEVELOPMENT OF THE FLUVIAL SEQUENCE STRATIGRAPHIC ARCHITECTURE- A STUDY FROM THE PERMIAN BARREN MEASURES FORMATION, PRANHITA-GODAVARI BASIN, SOUTHERN INDIA
10:10-10:25	Jo, J.H., Kim, D.H., Choi, K.S. * FACIES AND STRATIGRAPHIC ARCHITECTURE OF INSHORE TIDAL FLATS IN THE DISTAL FLUVIAL-TIDAL TRANSITION ZONE OF THE SITTAUNG RIVER ESTUARY, MYANMAR
10:25-11:00	Coffee break and poster session
11:00-11:15	Tognin, D., Carniello, L., Finotello, A, D'Alpaos, A. Ghinassi, M. * ON THE INTER-SEASONAL VARIABILITY OF SEDIMENT TRANSPORT IN MICROTIDAL MEANDERS
11:15-11:30	Finotello, A., Capperucci, R.M., Bartholomä, A., D'Alpaos, A., Ghinassi, M. * NATURAL AND ANTHROPOGENIC MODIFICATIONS OF BACK-BARRIER LAGOON FEEDBACK INTO THE MORPHOSEDIMENTARY EVOLUTION OF TIDAL MEANDERS IN THE VENICE LAGOON
11:30-11:45	Bellizia, E., Donnici, S., Madricardo, F., Finotello, A., D'Alpaos, A., Ghinassi, M.* ONTOGENY OF A SUBTIDAL POINT BAR IN THE MICROTIDAL VENICE LAGOON (ITALY) REVEALED BY 3D ARCHITECTURAL ANALYSES

* ECR award concurrent candidates

2nd Day
Wednesday 4 May 2022
(afternoon)

SCIENTIFIC SESSION 4

Chairs: P. Plink-Björklund & J-Y. Reynaud

14:00-14:35	<p>Keynote 4 Dalrymple R.W. <i>Emeritus Professor of Sedimentology Department of Geological Sciences and Geological Engineering Queen's University, Ontario, Canada</i> STRAITS - THE NEW FRONTIER IN TIDAL SEDIMENTOLOGY: WHAT WE DON'T KNOW ABOUT THEM</p>
14:35-14:50	<p>Dorsey, R.J., Longhitano, S.G., Chiarella, D. HYPOTHESIS FOR A MIGRATING CONJUGATE RELAY ZONE IN THE TIDE-DOMINATED MESSINA STRAIT, SOUTHERN ITALY</p>
14:50-15:05	<p>Rubi, R., Hubert-Ferrari, A., Fakiris, E., Christodoulou, D., Dimas, X., Geraga, M., Papatheodorou, G., Caterina, B. HYDRODYNAMICS AND SEDIMENTARY PROCESSES IN THE MODERN RION STRAIT (GREECE): INTERPLAY BETWEEN TIDAL CURRENTS AND INTERNAL TIDES</p>
15:05-15:20	<p>Rossi, V.M., Longhitano, S.G., Olariu, C., Chiocci, F.L. STRAITS VS. SEAWAYS: COMPARISONS AND DIFFERENCES</p>
15:20-15:55	Coffee break and poster session
15:55-16:10	<p>Caterina, B., Rubi, R., Hubert-Ferrari, A. STRATIGRAPHIC ARCHITECTURE, SEDIMENTOLOGY AND STRUCTURE OF THE MIDDLE PLEISTOCENE CORINTH CANAL (GREECE), AN ANALOGUE FOR TIDAL STRAITS</p>
16:10-16:25	<p>Uguagliati, F., Tognin, D., Alice, P., Ghinassi, M., D'Alpaos, A. * CHANNEL INCISION IN TIDAL LANDSCAPES? INSIGHTS FROM THE VENICE LAGOON</p>
16:25-16:40	<p>Ghinassi, M., Finotello, A., Carniello, L., Uguagliati, F., D'Alpaos, A. FLOW PATTERNS AND PLANFORM EVOLUTION STYLES IN MEANDER BENDS OF THE MICROTIDAL VENICE LAGOON (ITALY)</p>
17:30	Visit to Sassi di Matera with an English-speaker guide
18:30	Tidalites Steering Committee meeting
19:30 20:00 21:30 22:00	<p>Departure for the Masseria Fortificata San Francesco by bus Gala Dinner Awarding of the early-career scientist best presentation Exhibition "From images to sound across the tides" by M. Lekander & V. Garcia Movie projection "Les vagues scélérates / The rogues waves" by S. Ritter</p>

3rd Day
Thursday 5 May 2022
(morning)

SCIENTIFIC SESSION 5

Chairs: B. Tessier & M. Gugliotta

09:00-09:35	Keynote 5 Leonardi N. <i>Professor of Oceanography School of Environmental Sciences at the University of Liverpool, UK</i> NUMERICAL MODELLING OF SEDIMENT TRANSPORT AND COASTAL RESPONSE TO CLIMATE CHANGE FROM MICRO- TO MACRO-TIDAL SYSTEMS
09:40-09:55	Choi, K.S., Jo, J.H., Kim, D.H. BREAKING ANTIDUNES AND CYCLIC STEPS DURING EBB TIDES: PRIMARY DRIVERS ON THE MORPHODYNAMICS OF INSHORE MACROTIDAL FLATS IN THE SITTAUNG RIVER ESTUARY, MYANMAR
09:55-10:10	Fruergaard, M., Sander, L., Goslin, J., Andersen, T.J. SEDIMENT SUPPLY-CONTROLLED COASTAL BARRIER-CHAIN TRANSGRESSION IN THE WADDEN SEA
10:10-10:25	Chang, T.S., Kim, J.C., Chun, S.S. FROM 6-3 KA MID-HOLOCENE TIDAL DEPOSITS ARE MISSING ALONG THE MACROTIDAL SHORE, WEST COAST OF KOREA
10:25-11:00	Coffee break and poster session
11:00-11:15	Bartholomä, A., Capperucci, R.M., Drews, E., McCann, T. NEW EVIDENCE OF PALEO-TIDAL CHANNELS OFFSHORE THE EAST-FRISIAN BARRIER ISLAND SYSTEM, CENTRAL WADDEN SEA (GERMANY)
11:15-11:30	D'Alpaos, A., Ghinassi, M., Finotello, A. SALT-MARSH CHANNEL DYNAMICS IN A MICROTIDAL SYSTEM
11:30-11:45	Bartholdy, J., Bartholomä, A., Ernstsen, V.B., Flemming B., Hansen, L.Ø., Kroon, A., Winter, C. BEDFORMS AND FLOW RESISTANCE IN TIDAL INLETS
11:45-12:15	Closing Ceremony
12:15-14:00	Lunch break
14:00-14:30	Departure for the post-congress field trips

3 - 5 May 2022
(coffee & lunch breaks)

POSTER SESSION

	AUTHORS	TITLE OF THE PRESENTATION
1	Campos-Soto, S., Tessier, B., Mouazé, D., Benito, M.I., Quijada, I.E., Suarez-Gonzalez, P.	On the formation and preservation of vertebrate tracks in semi-liquid sediments: new insights from the tidal sediments of the bay of Mont-Saint-Michel and laboratory-controlled experiments
2	Capperucci, R.M., Bartholomä, A., Bungenstock, F., Enters, D., Wehrmann, A.	The WASA catalogue of facies and depositional environments for the central Wadden Sea, Germany
3	Choi, K.S., Kim, D.H., Jo, J.H.	Tide-driven rapid geomorphic changes of the inshore macrotidal flats, Sittaung River Estuary, Myanmar
4	Cosma, M., Xotta, R., Zoccarato, C., Baradello, L., Bergamasco, A., Cavallina, C., Da Lio, C., Donnici, S., Fasson, A., Minderhoud, P.S.J., Romeo, R., Simonini, P., Teatini, P., Tosi, L., Zecchin, M., Zorzan, P.	The role of Holocene deposits in driving land subsidence of tidal environments: investigation in the Venice Lagoon (Italy)
5	Della Luna, R., Milone, A.L., Cilumbriello, A., Caffau, M., Spilotro, G. Longhitano, S.G.	From alluvial, to tidal, to wave process regime change in the 20,000-years-long sedimentary record of the Lesina coastal system (southern Italy)
6	Gardner, K., Dorsey, R.J.	Quantitative analysis of channel planform geometries to determine tidal vs. fluvial origin: Preliminary results from Baja California, Mexico, and southern Iran
7	Green, J.A.M., Hadley-Pryce, D., Davies, H. S., Scotese, C.	Constraining deep-time tidal model simulations: the need for proxies
8	Jo, J.H., Kim, D.H., Choi, K.S.	Morphologic and hydrodynamic controls on the occurrence of tidal-bore deposits in the inshore tidal flats, Sittaung River Estuary, Myanmar
9	Kim, D.H., Jo, J.H., Choi, K.S.	Quantification of intertidal-dune morphodynamics and sediment fluxes based on unmanned aerial vehicle (UAV)-assisted photogrammetry
10	Lim, S.R., Kim, J.C., Hong, S.H., Chang, T.S.	Contrasting styles of the Holocene and last interglacial tidal sedimentation in the Baeksu tidal flat, southwest coast of Korea
11	Nappi, A., Rossi, V.M., Mellere, D., Longhitano, S.G.	Sedimentology of an ancient tidal sand ridge exposed in the Lower Pleistocene tide-dominated Siderno Strait, Calabria, Italy
12	Obasuyi, F.O., Longhitano, S.G., Chiarella, D., Rossi, V., Mellere, D.	Potential outcrop-analogues to constrain the interpretation of the middle Jurassic Garn formation, Halten Terrace, Norwegian Continental Shelf
13	Olita F., Rossi, V.M. Longhitano, S.G., Chiarella, D.,	Conventional facies analysis integrated with digital-photo and laser-scan techniques: an example from the study and modelling of the lower Pleistocene tidal sand bodies in southern Italy
14	Pampaloni, O.	Developing a proxy-based method for reconstructing Proterozoic tidal dynamics
15	Petruzzelli, M., Francescangeli, R., La Perna, R., Marino, M., Marsico, A., Petti, F. M., Sabato, L., Spalluto, L., Tropeano, M.	Walking in the past on a carbonate tidal flat: upper Albian dinosaur footprints in the vicinity of the Bari Airport (southern Italy)
16	Ruberti, D., Buffardi, C., Vigliotti, M.	The changing morphology of the Volturno delta (northern Campania, Italy): geological architecture and human influence
17	Sohn, S.Y., Jo, J.H., Choi, K.S.	Rapid accumulation of early Holocene tidal rhythmites in the paleo-Han River Estuary, Korea: evidence of intensified summer monsoon
18	Spalluto, L., Petruzzelli, M., Sabato, L., Tropeano, M.	Relative sea-level changes and supratidal exposure facies in cretaceous peritidal limestones of the Apulia Carbonate Platform (Italy)
19	Telesca D., Pistis M., Longhitano, S.G., Tropeano, M., Sabato L.,	Tidal bar-channel complexes filling an incised valley In the early Miocene of the Sardinian Seaway
20	Tessier B., Reynaud J.-Y., Trentesaux A., Le Bot S., Grenard Grand E., Grégoire G., Méar Y.	Holocene evolution of sediment wedges along the French coasts of the English Channel, a synthesis

