

Online IDS 2021 ORAL PRESENTATIONS

Japan Standard time UTC+0900
 Central European Summer Time UTC+0200
 US Mountain time UTC-0600

★ = student presentation

JST	CEST	US	Keynote session I		Chair: Paul Hamilton
24th 06:00	23rd 23:00	23rd 15:00	K-01	Molecular phylogeny of the raphid diatoms: grades and clades among the "early diverging" branches	Matt Ashworth
06:30	23:30	15:30	K-02	Poles apart: the historical biogeography of freshwater polar diatom communities	Eveline Pinseel
			Oral Session Part I: Morphology, taxonomy and phylogeny		Chair: Chunlian Li & Sylvia Lee
07:15	24th 00:15	16:15	O-01	<i>Urosolenia braunii</i> (Hustedt) Rott & Kling in a Brazilian Amazon blackwater river: occurrence, structure details and ecological aspects	Elton Lehmkuhl
07:22	00:22	16:22	O-02	A history of endemism: Morphological variation in historical <i>Aulacoseira</i> populations in ancient Lake Towuti	★ Mariam Ageli
07:29	00:29	16:29	O-03	Freshwater monoraphid diatoms of China	★ Qingmin You
07:36	00:36	16:36	O-04	Bory's ' <i>Teniola capucina</i> ', Staurosiraceae, and taxon relationships: When molecules and morphology collide	David Williams
07:43	00:43	16:43	O-05	Morphological and physiological responses to phosphorus deficiency by marine diatoms belonging the genera <i>Thalassionema</i> , <i>Thalassiosira</i> and <i>Synedra</i>	Marija Fornazar
07:50	00:50	16:50	O-06	Polyphasic taxonomy in diatom studies: what it is and why not to use it	David Williams
07:57	00:57	16:57	O-07	Diatoms.org: supporting taxonomists, connecting communities: an update and request for feedback +Small workshop on the future of the Diatoms of North America website	Paula Furey

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Interval

JST	CEST	US	Keynote session II		Chair: Megumi Saito-Kato
24th 20:00	24th 13:00	24th 05:00	K-03	Shifts, baselines and non-linearities: quantifying paleolimnological resilience using diatoms	Xavier Benito-Granell
20:30	13:30	05:30	K-04	Looking for diatoms below and within the Messinian Salt Giant: state of the art, open questions and future directions	Luca Pellegrino
			Oral Session Part II: Paleolimnology and paleoclimate		Chair: Xu Chen & Ric Jordan
21:15	14:15	06:15	O-08	Using microfossil diatom records to trace the typhoon patterns in Taiwan	Liang-Chi Wang
21:22	14:22	06:22	O-09	A diatom-based record of the mid-Pleistocene transition from the Scotia Sea, IODP Expedition 382	Jonathan Warnock
21:29	14:29	06:29	O-10	Variation in the seasonal response to climate change during the past 1000 years as inferred from a Maar Lake sediment record, northeast China	★ Hai Luo
21:36	14:36	06:36	O-11	An overview of early hydroseral succession recorded in limnic sediments of Nižné Rakytové Lake in the High Tatra Mts, Slovakia	★ Vidhya Marina
21:43	14:43	06:43	O-12	Diatom assemblage changes at IODP Site U1479 (Cape Basin) during the Mid-Pleistocene Climate Transition	★ Jason Coenen
21:50	14:50	06:50	O-13	Diatoms in carbonaceous meteorites	Richard Hoover
21:57	14:57	06:57	O-14	Alive; Methusaleh of the diatom world	Anushree Sanyal

JST	CEST	US	Oral Session Part III: Applications and biotechnology		Chair: Shinya Sato & Mario de Stefano
24th 22:20	24th 15:20	24th 07:20	O-15	Digital microscopy - a good option for Deep Learning Ground Truth generation and teaching	Andrea Burfeid-Castellanos
22:27	15:27	07:27	O-16	On the road to automated diatom identification	Michael Kloster
22:34	15:34	07:34	O-17	Deep convolutional neural networks for taxonomic classification of recent diatoms	Thomas Y. Chen
22:41	15:41	07:41	O-18	Shedding light on the perfections and imperfections in the symmetries and periodicities of diatom pore arrays	Louisa Reissig
22:48	15:48	07:48	O-19	Diatom biorefineries: impact of adaptive evolution engineering and trophic modes on high cell density culturing and functional biomolecule production	Thomas Marella
22:55	15:55	07:55	O-20	Biotechnological utilization of processed biomass of <i>Halamphora suburgida</i> (Hustedt) Levkov (exposed to abiotic stress-induced changes in nutritive potential) as diet for Ornamental Gold Fish (<i>Carassius auratus</i>)	Priyanka Mukherjee
23:02	16:02	08:02	O-21	Biofabrication of siliceous frustules of <i>Halamphora suburgida</i> (Hustedt) Levkov in nano-conjugate synthesis and application in electronic devices	★ Rahul Bose

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Poster Session Part I in spatial.chat

JST	CEST	US	Keynote session III		Chair: David Mann
25th 06:00	24th 23:00	24th 15:00	K-05	Fishing for diatoms around eDNA metabarcoding bottlenecks: towards taxonomically validated barcode reference libraries	Demetrio Mora
06:30	23:30	15:30	K-06	Drivers and dynamics of diversification and community assembly in diatoms over evolutionary time: Lake Ohrid as a case study	Elena Jovanovska
			Oral Session Part IV: Ecological assessment and metabarcoding		Chair: Becky Bixby & Nathan Smucker
07:15	25th 00:15	16:15	O-22	Benthic diatoms as an indicator of the ecological state of hydropower-impacted Himalayan rivers	Sandeep Kumar
07:22	00:22	16:22	O-23	Assessing the impact of land use and liming on stream quality, diatom assemblages and juvenile salmon in Wales, United Kingdom	Ingrid Jüttner
07:29	00:29	16:29	O-24	Himalayan river ecosystem: does flow modification for hydropower create measurable impact on community features and river health?	Tanuja Bartwal
07:36	00:36	16:36	O-25	Challenges of synthesizing literature-based evidence of diatom responses to nutrients in lotic ecosystems	Sylvia Lee
07:43	00:43	16:43	O-26	Algae-based models to configure consumptive flows for ecological benefit in the highly regulated MacKenzie River, south-east Australia	Ehsan Atazadeh
07:50	00:50	16:50	O-27	Species sensitivity analysis as a tool for interpreting diatom metabarcoding for WFD bioassessment	Rosa Trobajo
07:57	00:57	16:57	O-28	Diatom DNA metabarcoding reveals differences in distribution patterns and ecological preferences among genetic variants within some key freshwater species	★ Javier Pérez-Burillo
08:04	01:04	17:04	O-29	Seasonal assessment of benthic marine diatoms from the coast of the Sea of Marmara and preliminary results of 18S rRNA metabarcoding along the highly populated coast of Istanbul	Aydın Kaleli

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Interval

JST	CEST	US	Keynote session IV		Chair: Linda Medlin
25th 20:00	25th 13:00	25th 05:00	K-07	Re-creation of plastid evolution in "dinotoms": a new model system	Norico Yamada
			Oral Session Part V: Molecular biology and HABS		Chair: Bánk Beszteri & Kalina Manoylov
20:35	13:35	05:35	O-30	Evolution of metabolism in nitrogen-fixing endosymbionts of <i>Epithemia</i>	★ Heidi Abresch
20:42	13:42	05:42	O-31	An attempted simulation of diatom motility at the molecular level: The domino effect hydration model with concerted diffusion	Richard Gordon
20:49	13:49	05:49	O-32	Salinity-related morphological change in a centric diatom <i>Pleurosira laevis</i>	★ Shiho Kamakura
20:56	13:56	05:56	O-33	<i>Phaeodactylum tricornutum</i> : A master of disguise by its pleomorphic nature, a case of phenotypic plasticity	Lawrence Vitug
21:03	14:03	06:03	O-34	Update of the planktonic diatom genus <i>Pseudo-nitzschia</i> in Aotearoa New Zealand coastal waters: Genetic diversity and toxin production	Tomohiro Nishimura
21:10	14:10	06:10	O-35	Environmental factors influencing the distribution of <i>Pseudo-nitzschia</i> Peragallo over shelf and slope waters in Santos Basin, southeast Brazil (23°S ~ 28°S), winter 2019	Luciano Fernandes
21:17	14:17	06:17	O-36	Biofoundry approach in handling and harvesting harmful algal blooms (HABs): A sustainable step towards circular bioeconomy	★ Imran Ahmad
21:24	14:24	06:24	O-37	Advances in the detection of toxic algae using electrochemical biosensors	Linda Medlin

JST	CEST	US	Oral Session Part VI: Ecology and biodiversity		Chair: Shigeki Mayama & Karthick Balasubramanian
21:40	14:40	06:40	O-38	Diversity of selected aerophilous diatoms from subtropical regions of Argentina	Patrick Kociolek
21:47	14:47	06:47	O-39	Distribution of phytoplankton community at LTER Rovinj, Croatia station (northern Adriatic Sea)	Monika Barac
21:54	14:54	06:54	O-40	Seasonal diatom variation in a low-latitude mountain lake: a case study from Douhu Lake, southeast China	★ Jinggang Wang
22:01	15:01	07:01	O-41	Characterisation of diatom assemblages in restored former sewage channels in the Ruhr area, Germany	★ Ntambwe Mayombo
22:08	15:08	07:08	O-42	Diatoms of <i>Myristica</i> swamps from the Western Ghats, India	★ Mital Thacker
22:15	15:15	07:15	O-43	Diatom-inferred microtopography formation in peatlands of the Changbai Mountains, northeastern China	Xu Chen
22:22	15:22	07:22	O-44	Drivers of epiphytic diatom diversity in a shallow hypertrophic lake	Markéta Fránková

Poster Session Part II in spatial.chat