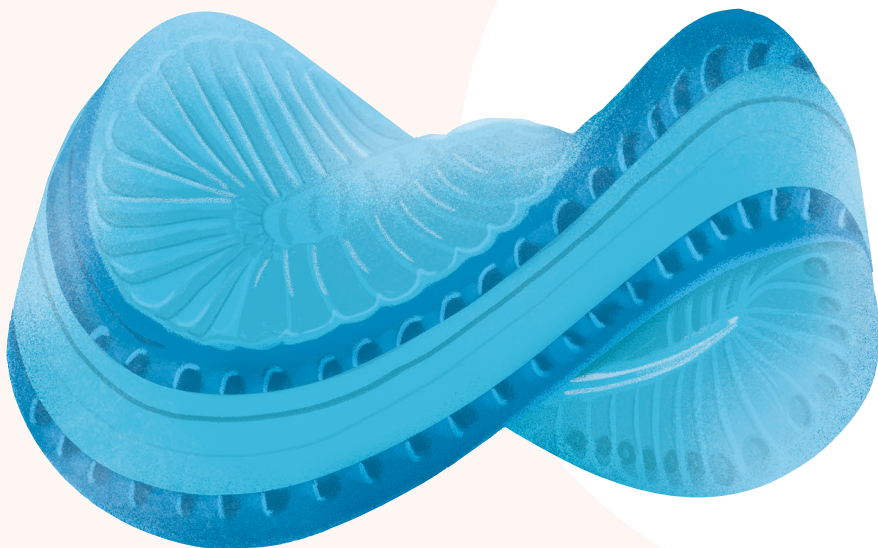


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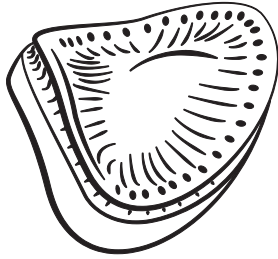
EUROPEAN DIATOM MEETING

Ohrid, North Macedonia



BOOK OF ABSTRACTS

Ohrid | May 7th—9th | 2024



15th
EUROPEAN
DIATOM MEETING
Ohrid, North Macedonia
7th – 9th
May, 2024

BOOK OF ABSTRACTS

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CONTENTS

Preface	5
Keynote presentations	7
Oral presentations	13
Oral presentations by the students	61
Poster presentations	85
Author index	213
Sponsors	219

PREFACE

After three years planning and postponing, European Diatom Meeting is organized in Ohrid, North Macedonia. Initially planned for 2021, then postponed for 2022 due to the Covid 19 pandemic, it was finally scheduled for 2024. Having in mind the exceptional biological features of the Lake Ohrid, which were recognized by UNESCO in 1979, as well the cultural tradition and importance of town of Ohrid, it was not preferred to organize an online meeting during pandemics and restrictions. The conference is a great opportunity for participants to experience our famous lake that was already visited by several famous algologists such as Bruno Schröder, Bohuslav Fott, Friedrich Hustedt, Anto Jurilj, Horst Lange-Bertalot, Ditmar Metzeltin etc. One of the most famous excursions was organized by Dr. Siniša Stanković in 1934 during the 7th Congress of Limnologists in Belgrade, Serbia, when the most prominent limnologists of the time visited for the first time Lake Ohrid and subsequently published numerous studies highlighting the lake as an important biological and geological site.

This year EDM is organized on the shore of Lake Ohrid, one of the biodiversity hotspots in Europe. The lake is considered to have the highest index of endemic diversity of animal species, with 80% of endemism in some animal groups such as Porifera, Tricladida, Amphipoda, Gastropoda etc. Such high diversity and endemism, is most likely the result of multiply colonization and intralacustrine speciation in combination with longevity of the lake without catastrophic events during its geological history. The lake existed continuously at least 2 million years, although some geological studies and biological data suggest much older lake spanning from the late Miocene.

The commission of UNESCO also recognized the importance of the town of Ohrid as cultural, architectural and religious centre. The town of Ohrid is one of the oldest human settlements in Europe. As one of the best preserved complete ensembles encompassing archaeological remains from the Neolithic Era up to the Middle Ages. Ohrid is a testimony of Byzantine arts, displayed by more than 2,500 square metres of frescoes and more than 800 icons of worldwide fame. The churches of St. Sophia (11th century), Holy Mother of God Perivleptos and St.

John Kaneo notably display a high level of artistic achievements in their frescoes and theological representations. The Lake Ohrid region boasts the most ancient Slavic monastery and the first Slavic University in the Balkans – the Ohrid literary school that spread writing, education and culture throughout the old Slavonic world.

The EDM conference is a continuation of the Central European Diatom Meeting (CEDM) and the Treffen Deutschsprachiger Diatomologen (DDT), which has been held regularly for almost 50 years. Almost 140 participants from 29 countries attend the 15th EDM conference, not only from Europe, but also from Africa, Asia and North America. A total of 116 scientific studies will be presented at the conference, including three keynote speeches, 41 oral presentations and 72 posters, covering various topics of diatom research: taxonomy, phylogeny, evolution, genetic, ecology, paleoecology, physiology, forensic, 3D printing and materials that makes the 15th EDM one of the largest EDM conferences. The EDM will be followed by a one-day Workshop on diatom taxonomy “European species of the araphid genera *Staurosira* and *Staurosirella*” organised by Bart Van de Vijver.

On behalf of the conference committee, we would like to welcome all participants to our EDM conference in Ohrid and wish them a successful conference with constructive discussions accompanied by traditional Macedonian food, beer and wine. We would like to take this opportunity to thank the keynote speakers, presenters and authors for contribution, and wish you all a fulfilling experience and very pleasant stay in Macedonia.

Danijela Mitic Kopanja, Dušica Zaova & Zlatko Levkov

**ORAL
PRESENTATIONS**

3D PRINTING OF DIATOMS

Ille C. Gebeshuber^{1*}, Richard W. van Nieuwenhoven¹, Thomas Petz¹
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The group of Ille C. Gebeshuber, physics professor at TU Wien in Austria, has more than a quarter of a century experience in diatom research and outreach. In the last millennium, they investigated live diatoms with atomic force microscopy in Santa Barbara, California, USA. Then they concentrated on diatom tribology and especially hinges and interlocking devices in diatoms, as biomimetic inspiration for 3D MEMS (minute components in electronics). This work was mainly done in South East Asia. Subsequently, listening to diatoms with hydrophones and the establishment of structure-function relationships (especially in *Corethron criophilum*) was the focus of their research at TU Wien. Nowadays the group concentrates on the development of scalable designs for 3D printing of diatoms, for use in science, outreach and art. Investigating mechanical properties of diatoms can be tedious due to their minute size. 3D printed models on a larger length scale increase the accessibility and promote understanding of complex functionalities. For biologists, digital repositories such as Thingiverse are of specific interest because of the possibility to provide and download 3D models of complex biological structures and custom laboratory equipment. Such platforms democratize access to customizable designs, fostering innovation in experimental methodologies and the development of specialized tools tailored to specific research needs in the biological sciences. By leveraging this repository, biologists can significantly accelerate the iterative process of design and testing, thereby enhancing the efficiency and precision of scientific inquiry and experimentation. In the course of the last years, our group developed designs of the diatoms *Ellerbeckia arenaria*, *Kittonia elaborata* and *Hyalodiscopsis plana*. These designs can be downloaded from <https://www.thingiverse.com/calopteryx92/collections/41458463/things>.

The presentation will support scientists in creating 3D models of their specific diatoms of interest on their own, by providing established protocols, and widens the pool of available designs for diatoms that can be utilized in science, art and outreach.

AUTHOR INDEX

Abarca Nélida	76, 89, 91, 127, 158	Blanco Saúl	108, 138, 169
Abresch Heidi	188	Bo Tiziano	161
Ács Éva	129	Bohunická Markéta	70
Ağaoğlu Cemre	210	Bona Francesca	161
Aktan Yelda	110	Bonačić Tina	143, 145
Aleksovski Boris	167	Bondar-Kunze Elisabeth	171
Alverson Andrew J.	65	Borrego-Ramos María	138, 169
Amaral Mailor Mailor Wellington		Borucinska Ewa	58
Wedig	188	Bosak Sunčica	73, 99, 141, 182
Andrade Luiz	175	Boshaleska Ana	191
Angeli Nicola	17, 123	Boski Tomasz	112
Arapov Jasna	46, 143, 145	Bouchez Agnès	15, 127
Araujo Cassandra	63	Bouhameur Mansour	194, 201
Arnaud Elena	163	Bourquin Massimo	82, 156
Arsad Sulastri	116	Brandani Jade	82
Ashworth Matt P.		Brighenti Stefano	173
	24, 26, 40, 65, 84, 141	Bruno Maria	173
Assaf Mahmud	197	Brytka Karolina	65
Audoor Sien	54	Buchner Dominik	71
Augustyniak Jakub	58	Buczek Krzysztof	199
Baciu Calin	169	Burfeid Castellanos Andrea M.	
Bąk Małgorzata	108, 115, 116		15, 31, 71, 134, 165, 179, 212
Bakrač Ana	46	Bušelić Garber Ivana	143
Barinova Sophia	111	Busi Susheel	82, 156
Battin Tom J.	82, 156	Bužančić Mia	46, 145
Beauger Aude	106	Čačković Andrea	42
Belisova Darja	54	Cahová Tereza	121
Bella Valentina	163	Calleja Eman	15
Ben Khelifa Leila	148	Cantonati Marco	17, 123, 171
Berezovska Viktoriia	159	Cantoral-Uriza Enrique	127
Bernal-Glen Daniel F.	148	Caput Mihalić Katarina	21
Bertoldi Walter	80	Cardoso Vera	19
Bešta Tomáš	70, 202	Carmona-Jiménez Javier	127
Beszteri Bánk		Cerasino Leonardo	80, 173
	31, 71, 134, 136, 165, 179, 189, 212	César Edgley A.	147
Beszteri Sára	134, 136	Cesarini Giulia	195
Bilcke Gust	54	Chang Aimee Caye G.	188
Bilous Olena	123, 171	Chattová Barbora	121
Bíró Tibor	129	Chavaux Rémi	97
Bjelica Vukašin	154	Chelly Hana	148

Chen Jianfang	148	Sónia Marisa	208
Chonova Teofana	127	Górecka Ewa	
Cias Renata	87		26, 40, 84, 116, 140, 204, 206
Cid-Rodríguez María	17, 123	Gourvil Priscillia	17
Conley Daniel J.	65	Grammer Markus	22
Crossetti Luciane O.	125	Greenwood Megan	188
Cruz Sónia	19, 36	Grego Michele	17
Csabai Zoltán	15	Grigorszky István	129
Dąbek Przemysław	26, 58, 204, 206	Guella Graziano	17
Dani Mimoza	71, 134, 212	Haan Myriam	95
Darling Joshua	32	Hamadai Ali	201
Davidovich Nikolai	26	Hamilton Paul B.	
Davidovich Olga	26		106, 108, 110, 111, 112, 114
de Haan Myriam	99	Hamrová Hana	202
de la Hoz Camino F.	138	Hamsher Sarah E.	188
de Sá Correia de Sousa Isabel	208	Hanžek Nikola	104
Demetrio Mora	127	Hasan Ozren	21
Dobosy Péter	129	Hauer Tomáš	202
Dohnalová Petra	202	Hauerová Radka	70
Dorrell Richard	10	Hein Thomas	171
Dreßler Mirko	44	Hinić-Jordanovska Jelena	167
Dulias Katharina	197	Hrbáček Filip	121
Dupčić Radić Iris	180, 184	Ikudaisi Catherine	188
Ekmanis Toms	141	Ilijanić Nikolina	21
Ertorun Nesil	112, 114, 194, 201	Jahn Regine	76, 89, 91, 127, 158
Ezzat Leïla	82, 156	Jakovljević Olga	150, 154
Falasco Elisa	161, 163	Janßen Marjan	27
Fernandes Pedro	19	Jasinski Christina	71, 136
Figus Cécile	67	Jasprica Nenad	180
Filek Klara	141	Jennings Anne	48
Frohn Alison	70	Jeon Yebin	69
Funk Andrea	171	Jimenez-Gomez Francisco	169
Galović Ines	21	Jin Jeong	131, 137
Gardin Silvia	148	Johansen Jeffrey	70
Gastineau Romain	26, 40, 84, 116, 140	Jovanovska Elena	103, 189
Gebeshuber Ille C.	22	Juanes José A.	138
Gladenkov Andrey Yu.	67	Junqueira Maria	125
Gligora Udovič Marija	104, 119, 141	Jurina Dunja	119
Goessling Johannes W.	19, 24, 36, 208	Jüttner Ingrid	93, 101, 117
Goia Goia	78	Kahlert Maria	28, 132
Golubeva Aleksandra	204	Kanjer Lucija	141
Gomes Ana	112	Karsten Ulf	27, 30, 43, 44
Gonçalves da Cruz		Kaštovský Jan	202

Kesbiç Işıl	108	Mamanazarova Karomat	114
Khim Jong Seong	69, 75	Mamos Tomasz	175
Kierzek Agnieszka	204	Mann David G.	34, 40, 56, 84, 140
Kim Byeol	131	Manning Schonna R.	24
Kim Byoung-Seok	131, 137	Marchetto Aldo	195
Kim Hyesuk	69	Markvartová Jana	202
Kim Minseop	69	Matek Antonija	141, 182
Kim So-Yeon	131, 137	Matić Frano	46
Kiss Keve T.	129	Maule Alfredo	173
Kloster Michael	31, 71, 165, 212	Mayombo Ntambwe Albert Serge	71, 165, 212
Kochoska Hristina	82, 156	McKenzie Caroline	186
Kociolek Patrick J.	188	McKnight Diane	32
Kohler Tyler J.	32, 82, 121, 132, 156	Mesić Saša	21
Kollár Jan	82, 132, 156	Michoud Grégoire	82, 156
Kopalová Kateřina	82, 121, 132, 156	Miguel Raquel São	36, 208
Kopanja Tamara	167	Miko Slobodan	21
Korponai János	129	Milan Manuela	50
Korzeń Katarzyna	199	Milić Roje Blanka	46, 143
Kotyzová Lucie	70	Miličević Ana	150, 154
Krizmanić Jelena	150, 152, 154	Miličić Maja	177
Krstić Svetislav	167	Miller Scott	188
Krzywda Marta	206	Milovanović Željka	150
Kulaš Antonija	119	Mitic-Kopanja Danijela	191
Kurzydowski Krzysztof J.	58	Mohamad Heba	76, 158
Kusber Wolf-Henning	52, 76, 89, 91, 93, 127, 158	Mora Demetrio	28
Lam Daryl W.	24	Morais Manuela	15
Lami Andrea	50	Moreira Anthony P.	19, 36, 208
Lange-Bertalot Horst	84, 123	Moser Marie-Christine	171
Laviale Martin	212	Moura Delminda	112
Ledinski Maja	21	Mucko Maja	141, 182
Lefnar Radek	202	Musazzi Simona	50, 195
Lemieux Claude	84	Nam Onyou	186
Lepen Pleić Ivana	143	Nesterovich Anna	48
Levkov Zlatko	103, 119, 123, 189, 191	Ninčević Gladan Živana	46, 143, 145
Li Jingchun	188	Noureddine Bachiri	194
Ljubešić Zrinka	141, 182	Novais Maria H.	15
Lopez-Garcia Martin	19, 24	Nývlt Daniel	121
Lorenz Armin	15	Ognjanova-Rumenova Nadja	38
Luthfi Oktiyas Muzaky	115	Olenici Adriana	169
Lüttjohann Lena	197	Olszyński Rafał M.	40
Mackay Anson W.	12	Oreshkina Tatyana V.	67
Mackinder Luke	186	Orlić Sandi	42

Özen Volkan	67	Schultz Konrad	44
Özkan Altan	210	Schuster Tanja	52
Pane Elya Putri	140	Schwalb Antje	197
Park Jinsoon	69, 75	Schwarz Anja	197
Park Jong-Gyu	131, 137	Šeiriene Vaida	193
Pasković Nika	180, 184	Sevindik Tuğba Ongun	106
Peeters Valérie	95	Sezgin Tuğçe	210
Pernecker Bálint	15	Sgro Gerald V.	70
Peszek Łukasz	111	Sims Patricia	147
Peter Hannes	82, 156	Skejić Sanda	46, 145
Petz Thomas	22	Skibbe Oliver	76, 89, 91, 127, 134, 158
Piana Lucia	123	Slavevska-Stamenković Valentina	167
Pickering Rebecca	65	Smirnov Pavel	67
Pimentel Iris	71	Snigirova Anastasiia	159
Pinseel Eveline	121	Solak Cüneyt Nadir	84, 106, 108, 110, 111, 112, 114, 140, 194, 201
Popović Slađana	150, 154	Sömek Haşim	106
Pottiez Margaux	52, 73, 97, 99, 101, 117	Somogyi Boglárka	49
Pradalier Cédric	212	Šoreva Irina	167
Prelle Lara R.	43, 44	Sosnina Irina	193
Prochnow Maximilian	197	Sousa Isabel	36
Puşçaş Mihai	78	Spaulding Sarah A.	48
Raposka Neda	103	Spitale Daniel	17, 123
Rehsen Philipp M.	71	Spyra Marzena A.	71, 134
Reichardt Erwin	97	Stancheva Rosalina	127
Renaudie Johan	67	Stanić Ivana	42
Rho Yangrae	69, 75	Stanish Lee	32
Richoz Sylvain	65	Stanković Igor	104
Rijdsdijk Nadine	54	Straka Maja	46
Rimet Frédéric	15, 56, 127	Subakov Simić Gordana	150
Risjani Yenny	115, 140	Šušnjara Mirela	104, 177
Rober Allison R.	63	Şuteu Anca-Mihaela	78
Rogora Michela	195	Tapolczai Kálmán	49
Roychoudhury Piya	204	Tenci Maria	80
Ruiz-Pino Diana	148	Thies Hansjörg	50
Rybak Mateusz	116	Toffolon Marco	80
Saber Abdullah A.	123	Tolotti Monica	50, 80, 173
Saci Mennad	194	Tomášek Petr	202
Salzburger Walter	9	Tomašević Tina	143, 145
Sánchez-Astráin Begoña	138	Tomášková Eva	202
Santolini Carlotta	50	Trajanovski Sašo	175
Sarreira Rita	19	Trenti Francesco	17
Schimani Katherina	76, 134, 158	Trobajo Rosa	40, 84, 140

Turan Ata	110	Witkowski Jakub	67, 147
Turmel Monique	84	Wojtal Agata Z.	199
Vacca Gianluca	161	Wyatt Kevin	63
Vadkertı Edit	129	Yedidađ Ferhan	111, 112, 114
Van de Vijver Bart	52, 56, 73, 93, 95, 97, 99, 101, 117, 121, 132, 163	Yeh Ping-Hung	58, 206
van Nieuwenhoven Richard W.	22	Yildiz Halil	110
Vandepoele Klaas	54	Yilmaz Elif	84, 106, 108, 140
Vasiljević Božica	154	Zagatová Iva	202
Venkataramanan Aishwarya	212	Zaova Dušica	189, 191
Vermiert Anna-Maria	71	Zech Roland	197
Vidakovic Danijela	71, 152, 165, 212	Želazna-Wieczorek Joanna	175
Viso Raquel	138	Zglobicka Izabela	58, 206
Vlaović Ljubica	152	Zidarova Ralitsa	73, 99
Vörös Lajos	49	Zimmermann Jonas	28, 76, 89, 91, 127, 132, 134, 158
Vošická Tereza	82	Žižek Marta	141
Voto Giulio	173	Žižek Slavko	59
Vyverman Wim	54	Žižić Nakić Antonija	177
Wetzel Carlos E.	56, 97, 125, 127, 163	Zorza Raffaella	163
Wilfert Katharina	95	Zsigmond Andreea Rebeka	78
Williams David M.	56, 117, 147	Zubíčková Kateřina	202
Witkowski Andrzej	26, 58, 84, 115, 140, 204, 206	Žutinić Petar	119

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 - publishes the international journal, *Diatom Research*
 - connects people around world to study the important roles of diatoms in ecosystems
- ISDR provided € 3,000 to reduce the registration fee for students and ECR scientists presenting at the 2024 European Diatom Meeting in Lake Ohrid, Macedonia.

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Kazuki Sugawara, Tokyo University of Marine Science and Technology, Japan
Host specificity in diatoms – a case study of the marine epiphytic diatom *Falcula rectangularis*


Oktiyas Lufthfi, University of Szczecin, Poland
Biodiversity of coral reef diatoms from Java and Bawean Island, Indonesia based on morphology approach

Deevena Elias, Forest Research Institute, Dehradun, India
Evaluation of health and management of Renuka wetland: A RAMSAR site Himachai Pradesh

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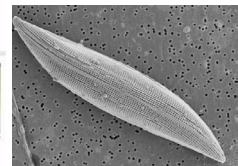
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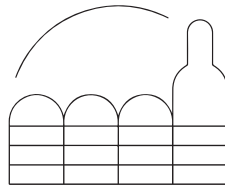
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