Meeting of the
SIL Plankton Ecology Group
(PEG 2012)

February 12-18, 2012, Mexico City, Mexico

Programme & Additional Abstracts
12th February, 2012 (Sunday)
18:30 to 19:30 Informal get together at the hotel Mandarín Cárton (Av. Gustavo Baz no. 12, Xocoyahualco, Tlalnepantla, CP 54080, Tel. 51483030)

13th February (Monday)
9:00 to 10:30 Registration
Sala de Video Conferencia, 1° Piso, Torre de tutorías, en frente de la UIICSE, FES Iztacala

10:30 to 11:00 Opening of the Meeting

11:00 to 11:30

11:30 to 12:00 Coffee break

12:00 to 13:00
Key Note Address:
Climate change, plankton and freshwaters: about what should we be worried?
Brian Moss

Session 1
Chairperson: Ramesh D. Gulati

13:00 to 13:20
The response of zooplankton community composition, productivity and phytoplankton-zooplankton transfer efficiency to an experimentally deepened thermocline
Sastri A.R., Juneau P. and Beisner B.E.

13:20 to 13:40
Role of zooplankton in the food web of oligotrophic cenotes
Zambrano Luis and Santos Patricia

13:40 P.M. to 14:00 P.M.
Ecology of shallow reservoirs: strong effect of a dry-stand on subsequent cyanobacteria blooms and water clarity
Mekonen Teferi, De Bie T., Declerck S.A.J., Snoeks J., Abraha Gebrekidan, Tsehaye Asemelash, Tadesse Dejenie, Bauer H., Deckers J.S. and De Meester L.

14:00 P.M. to 15:30 P.M. Lunch Break

Session 2
Chairperson: Moshe Gophen

15:30 to 15:50
Destiny of autotrophic picoplankton in warm-monomictic and meromictic lakes?
Macek Miroslav, Peštová Dana, Šimek Karel, Bautista-Reyes Fernando, Hernández-Avilés Justo Salvador, Sánchez-Medina Ximena, Nixdorf Brigitte, Picazo Antonio, Camacho Antonio

15:50 to 16:10
Intraspecific differences in the demography of Asplanchna girodi (Rotifera) in relation to temperature regimes
García-García Gerardo, Jiménez-Contreras Jorge, Moreno-Gutierrez Rosa Martha, Nandini S. and Sarma S.S.S.

16:10 to 16:30
Evidence of cryptic speciation in some common rotifers (Rotifera) of Mexico
García Morales Alma Estrella and Elías Gutiérrez Manuel

16:30 to 16:50
Trophic relationships between plankton and chironomids in the canals of Xochimilco, Mexico
Merló Galianzi Angel and Zambrano Luis

16:50 to 17:00 coffee break

17:00 to 18:00 Cultural events
14th February (Tuesday)

9:30 to 10:30
Invited Talk:
**Impacts of environmental factors on the physiology of algae and cyanobacteria**
*Philippe Juneau*

**Session 3**
*Chairperson: Brian Moss*

10:30 to 10:50
**Genotype-genotype dependent interactions between the cyanobacterium *Microcystis* and its grazer, the waterflea of the genus *Daphnia***
*Lemaire V., Brusciotti S., van Gremberghhe I., Vyverman W., Vanoverbeke J., De Meester L.*

10:50 to 11:20
**The effect of a small-size omnivorous fish on the plankton assemblage in a shallow hypertrophic lake: a mesocosm study**
*Lugo Alfonso Vázquez, Sánchez María del Rosario, Oliva María Guadalupe, Peralta Laura, Morlán Josué, López S. Gabriel, Hernández Rosa Angélica and Alvarado Francisco*

11:20 to 11:50 Coffee Break

11:50 to 12:10
**On the sudden occurrence of *Microcystis* in Lake Rauwbraken (The Netherlands) after the novel ‘Flock & Lock’ lake restoration technique: do we understand what’s going on?**
*van Oosterhout Frank and Lürling Miquel*

12:10 to 12:30
**Development of crustacean plankton in shallow, polyhumic reservoir in the first 20 years after impoundment (NE Poland)**
*Górniaik A.S. and Karpowicz M.*

12:30 to 14:00 Lunch
14:00 to 15:00
Invited Talk:
**Planktonic stoichiometry needs more attention at the PEG workshops**  
*Ramesh D. Gulati*

**Session 4**  
*Chairperson: Z.M. Gliwicz*

15:00 to 15:20
**Preliminary study of the food content in tropical tadpoles (Ollotis valliceps) and their predator-prey relationship with zooplankton in an aquatic system in Cozumel, Mexico**  
*Jacobson Brianna, Cervantes Martinez Adrian and Gahona Fuller Michelle*

15:20 to 15:50 coffee break

15:50 to 16:00
**Direct and indirect effect of allelochemicals of Hydrilla verticillata on the life table Simocephalus spp. (Crustacea: Cladocera)**  
*Espinosa-Rodríguez Cristian Alberto, Rivera de la Parra Ligia, Martínez-Téllez Aurora, Gómez-Cabral Gisela Carmen, Sarma S.S.S. and Nandini S.*

16:00 to 16:20
**Prevalence of pelagic route in Lake Patzcuaro (Mexico)**  
*Córdova Tapia Fernando and Zambrano Luis*

16:20 to 16:40
**Is the water hyacinth an efficient refuge for zooplankton against visual predation?**  
*Montiel-Martínez Aideé and Ciros-Pérez Jorge*

16:40 to 17:00 coffee break

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15th February (Wednesday)
8:00 A.M. to 21:30 P.M. Mid-Conference Excursion to Valle de Bravo reservoir and Monarch Butterfly Natural Reserves
16th February (Thursday)

9:30 A.M. to 10:30 A.M.
Invited talk
Climate change and cyanobacterial nuisance
Lürling Miquel

Session 5
Chairperson: H.J. Dumont

10:30 to 10:50
Dispersion, local adaptation and insularity as determinants of zooplankton diversity patterns in Cuenca Oriental lakes, Mexico

10:50 to 11:10 coffee break

11:10 to 11:30
Light stress: A possible factor affecting Microcystis aeruginosa strains?
Deblois Charles P., Xu Kui and Juneau Philippe

11:30 to 11:50
Effect of temperature level and oscillation on some life history parameters and fatty acid profiles of Moina macrocopa (Cladocera)
Gama-Flores José Luis, Huidobro-Salas María Elena and Sarma S.S.S.

11:50 to 12:10
The light-dark bottle method: an option for the study of oxygen consumption of zooplankton in situ
Benítez-Díaz Mirón Marcela Ivonne, Garza-Mouriño Gabriela and Castellanos-Páez María Elena

12:10 to 12:30
Geographical distribution study of the Family Lecanidae (Rotifera: Monogononta) in Mexico
Serranía-Soto C. R. and Sarma S.S.S.
12:30 to 14:00 Lunch

14:00 to 14:30
Special Talk:
**Pelagic flatworm predation: different sensitivity of Daphnia galeata and Ceriodaphnia quadrangula to Rhynchosomostoma toxins, and auto-intoxication and self-castration of Mesostoma ehrenbergi**
Dumont Henri J., Han Bo-Ping and Rietzler Arnola C.

14:30 to 15:00
Special talk:
**Optimal foraging by planktivorous fish at patchy distribution of Daphnia prey: a global-warming perspective**
Gliwicz Z.M. and Maszczyk P.

Chairperson for special talks: Miquel Lürling

15:00 to 15:20 coffee break

15:20 to 16:00
Advertise your poster presentations; 2 minutes per participant

16:00 to 16:40
Group Photo

17th February (Friday)

9:30 to 12:30 Poster session

Chairpersons: Philippe Juneau & Marcelo Silva Briano

**Relation between microcystin-LR concentration and the potentially toxic cyanobateria in Valle de Bravo reservoir, Mexico State**
Alillo-Sánchez José Luis, Gaytán-Herrera Martha Leticia, Martínez-Almeida Victor Manuel and Ramírez-Garcia Pedro
Vertical flux of phytoplankton in a tropical, oligotrophic Mexican Lake
Ardiles Vilma, Alcocer Javier and Oseguera Luis A.

The physical and chemical behavior and phytoplankton biomass of an artificial aquatic system in Cozumel, Mexico
Arroyo Castro Jovana, Cervantes Martinez Adrian and Medina Palomo Carolina

Morphometric characterization of *Staurastrum gracile* Ralfs (Chlorophyta) from tropical reservoirs in Mexico
Calderón Eva and Tavera Rosaluz

Vertical migration of six rotifer species of the Brachionidae family in the Cuemanco Channel, Xochimilco
Castellanos-Páez María Elena, Contreras Tapia Rubén Alonso, Garza-Mouriño Gabriela, Zamora García Margarita, Benítez Díaz-Mirón Marcela Ivonne and Vázquez Romero María del Carmen

Zooplankton ecology and limnology of two dissolution lakes in the Yucatan Peninsula (Mexico)
Cervantes-Martínez Adrián and Gutiérrez-Aguirre Martha Angélica

A review on the effects of ultraviolet radiation on aquatic communities

Horizontal migration of zooplankton in a shallow, high-altitude reservoir (Isidro Fabela, Mexico)
Fernandez Rocío, Aguilar-Acosta Claudia Romina, Figueroa-Sánchez, Michael Anai, Gayosso-Morales Manuel Aaron, Zamora-Barrios Cesar Alejandro, Nandini S. and Sarma S.S.S.

Water dynamics and species richness of rotifers (Monogononta) in trout raceways in Xico, Veracruz
Garza-Mouriño Gabriela, Flores López Tello Josué, Contreras Tapia Rubén Alonso, Benítez Díaz-Mirón Marcela Ivonne, Vázquez Romero
María del Carmen, Zamora García Margarita and Castellanos-Páez María Elena

Phytoplankton composition, diversity and relation with water trophic condition of Valle de Bravo reservoir, Mexico
Gaytán-Herrera Martha Leticia, Martínez-Almeida Víctor M. and Ramírez-García Pedro
Long term patterns in the chlorophyll a concentration and vertical distribution in a tropical, deep lake
González Contreras Circe Guadalupe, Alcocer Javier and Oseguera Pérez Luis A.

Long-term variability of zooplankton in a mesotrophic lake - 90 years of Wigry Lake study in the Northeastern Poland
Gómiak A.S., Ejsmont-Karabin J. and Karpowicz M.

Zooplankton structure and its relationship with deep chlorophyll maximum in a sinkhole in Quintana Roo, Mexico
Gutiérrez-Aguirre M. A. and Cervantes-Martínez A.

Planktonic rotifers in hypertrophic conditions: is the N: P relationship important?

Heterogeneity of plankton distribution in a deep sub-alpine lake during summer (Lake Iseo – I)
Leoni Barbara, Huang Peisheng, Garibaldi Letizia, Marti Clelia Luisa and Imberger Jörg

Life cycle and ecological role of Durinskia baltica (Dinophyceae: Peridiniales) in urban lacustrine environments (Xochimilco, Mexico City, Mexico)
Lira Hernández Beatriz I. and Tavera Sierra Rosaluz
Particulate carbon and chlorophyll-a fluxes in a tropical, oligotrophic Lake
Pascoe Tania, Alcocer Javier and Oseguera Luis A.

Chlorophytes like indicators of functional diversity in Xochimilco lacustrine area
Ponce-Mendoza A., Figueroa G., Ramos M.G. and Ferrara M.J.

Relationship between positive associations in freshwater bryozoan and zooplankton
Reyes-Flores Montserrat Delfina, Silva-Briano Marcelo and Adabache-Ortiz Araceli
Zooplankton richness and diversity in the reservoir Valerio Trujano, Tepecoacuilco, Guerrero, Mexico
Reyes Vanegas Gladis, Vázquez Sánchez Aurora, Nandini S. and Sarma S.S.S.

Summary of species new to science that have been found in the State of Aguascalientes, Mexico
Silva Briano Marcelo and Adabache Ortiz Araceli

How water-level fluctuations affect phytoplankton assemblages in a high altitude, tropical reservoir, Valle de Bravo, Mexico
Valeriano Riveros Maria Elena, Vilalclara Gloria, Merino-Ibarra Martín and Castillo Fermin Sergio

12:30 to 2:00 Lunch Break

14:00 to 15:00
Invited talk:
Long term perspectives of zooplankton record: case study of the Lake Kinneret (Israel) copepod assemblages
Moshe Gophen

15:00 to 16:30
General Discussion, Proposals for Next PEG Meeting & Conclusion of the Symposium

19:30 to 22:30 Symposium Dinner
18th February (Saturday)

8:30 A.M. Post-Symposium Excursion (optional) or Departure
The *Journal of Plankton Research* publishes innovative papers that significantly advance the field of plankton research, and in particular, our understanding of plankton dynamics.

### 2011 highlights

- Richard J. Vogt and Beatrix E. Beisner
  *Assessing the impact of dispersal on zooplankton community structure*

- Shannon A. MacPhee, Shelley E. Arnott, and Wendel (Bill) Keller
  *Lake thermal structure influences macroinvertebrate predation on crustacean zooplankton*

- Feizhou Chen, Ramesh D. Gulati, Jing Li, and Zhengwen Liu
  *A comparison of the size distribution of the filamentous green alga Ulothrix in Daphnia guts and lake water from Lake Taihu, China*

- Nelson Aranguren-Riaño, Cástor Guisande, and Rodulfo Ospina
  *Factors controlling crustacean zooplankton species richness in Neotropical lakes*

- J. I. Allen and L. Polimene
  *Linking physiology to ecology: towards a new generation of plankton models*

- Thomas Kiørboe
  *What makes pelagic copepods so successful?*

- James P. Grover, Kenneth W. Crane, Jason W. Baker, Bryan W. Brooks, and Daniel L. Roelke
  *Spatial variation of harmful algae and their toxins in flowing-water habitats: a theoretical exploration*