

PRELIMINARY SCIENTIFIC PROGRAM

2011, April 17

Tuesday, May 10

09:00 - 10:00 **HURLBERT, Stuart: The salinity spectrum of inland waters**

10:00 - 10:20 **COLEMAN, Mark:** Alkalinity, pH and Carbon ions: some notes and implications for measurement in saline waters

10:20 - 10:40 **NIE, Zhen:** Progress in extraction of lithium resources from salt lakes in China

10:40 - 11:10 **Break**

11:10 - 11:30 **CORONEL, Jorge:** Salty lakes in the Bolivian high Andes: an ecological characterization

11:30 - 11:50 **LÓPEZ STEINMETZ, Romina L.:** Geochemistry of interstitial brines of Guayatayoc Playa lake, northern Argentina puna plateau.
Preliminary results

11:50 - 12:10 **SANDOVAL, Felipe:** The use of saline coastal wetlands as indicators of watersehd environmental state

12:10 - 12:30 **MELLADO, Claudia:** Systemic functioning model of a wetland-channel-salty lagoon in the high andean steppe region of Chile

12:30 - 13:30 **Lunch**

13:30 - 14:30 **FARIAS, María E.: From DNA to living Stromatolies: a world to discover in high altitude Puna lakes**

14:30 - 14:50 **ZHENG, Mianping:** Discovery of terminal late Pleistocene-early Holocene stromatolites on the Tibetan Plateau

14:50 - 15:10 **LITCHFIELD, Carol:** How Do Haloarchaea survive environmental stresses?

15:10 - 15:40 **Break**

15:40 - 16:00 **KONG, Fanjing:** Microbial biodiversity in Zabuye salt lake and lithium absorption by halophiles

16:00 - 16:20 **SCHMIDT, Nadja:** Hydrogeological and hydrochemical exploration of a lithium-brine deposit: the Salar de Uyuni, Bolivia

16:20 - 17:30 **Round table: Sustainable development of saline lakes** (see details at the end of this program *)

Wednesday, May 11

09:00 - 10:00 **PIOVANO, Eduardo: Laguna Mar Chiquita: a unique sensor of past and present hydroclimatic variability in south eastern South America**

10:00 - 10:20 **WURTHSBAUGH, Wayne:** Paleolimnological analysis of eutrophication and *Artemia* cryptobiology in the Great Salt Lake (USA)

10:20 - 10:40 **ZADEREEV, Egor:** Vertical stratification of physical, chemical and biological components in two saline meromictic lakes Shira and Shunet, (South Siberia, Russia)

10:40 - 11:10 **Break**

11:10 - 11:30 **QUILLAGUAMÁN, Jorge**: Carbohydrate transport and metabolism as derived from the genome sequence of *Halomonas boliviensis*: Influences on biopolyester production

11:30 - 11:50 **BIO, Ana**: Combined effects of salinity and temperature on survival of two populations of autochthonous brine shrimp *Artemia parthenogenetica* in Portugal (Rio Maior and Aveiro saltworks)

11:50 - 12:10 **CLARK, Jonathan**: Molecular population genetic analysis of the Brine Fly, *Ephydra gracilis*, from Great Salt Lake, Utah

12:10 - 12:30 **LÓPEZ STEINMETZ, Romina L.**: Water quality inferences from benthonic macroinvertebrates and hydrochemistry data in permanent tributaries of the Guayatayoc Playa lake. Preliminar - pluridisciplinary study.

12:30 - 13:30 **Lunch**

13:30 - 14:30 **STEIN, Ariel**: Modeling studies of wind blown salt storms originated from the Mar Chiquita lake (Argentina)

14:30 - 14:50 **KOTTE, Karsten**: Saline environments as novel source for Volatile Organohalogens

14:50 - 15:10 **WANG, Hailei**: Grainsize composition from core deposits in Zabuye salt lake, Tibet, and its paleoenvironmental significance

15:10 - 15:40 **Break**

15:40 - 16:00 **URAOA, Toradji**: A spatial multi-scale approach for understanding the distribution patterns and habitat preferences of flamingos in brackish shallow lakes in southern Santa Fe, Argentina

16:00 - 16:20 **RIOSECO, Tomás**: Combining Remote Sensing techniques and field sampling data to study the spatial and temporal dynamics of aquatic ecosystems at the high andean salt flats and its relationship with Andean Flamingos (*Phoenicoparrus andinus*) habitat

16:20 - 16:40 **COSTA, Diógenes**: Spatial modeling of limnological parameters in solar saltponds

16:40 - 17:30 **Posters session**

Friday, May 13

9:00 - 10:00 **OREN, Aharon**: The Dead Sea and the Aral Sea: two disparate lakes with a similar history

10:00 - 10:20 **BUCHER, Enrique H.**: Early maps of the Mar Chiquita region (17th and 18th centuries) and their paleogeographical implications

10:20 - 10:40 **OREN, Aharon**: Dead Sea - Red Sea and Dead Sea - Mediterranean Sea connections on 17th-19th century maps of the holy land

10:40 - 11:10 **Break**

11:10 - 11:30 **WOOD, Isa**: Response of invertebrates and waterbirds to conversion of salt evaporation ponds in San Francisco bay, USA

11:30 - 11:50 **ROCHA, Renato**: Characterization and ecological importance of the brazilian solar saltwork ponds: a review

- 11:50 - 12:10 **Bucher, Enrique H.:** Mar Chiquita invasion by the silverside fish (*Odontesthes bonariensis*): a unique event in the lake history
- 12:10 - 12:30 **CABREIRA, Ariel Gustavo:** Hydroacoustic assessment of silverside (*Odontesthes bonariensis*) population in the Mar Chiquita Lagoon, Province of Cordoba, Argentina
- 12:30 - 13:30 **Lunch**
- 13:30 - 13:50 **KOPPRIO, Germán:** Unstable natural water reservoirs in semiarid regions: moving from fragmented to coordinated ecohydrological management
- 13:50 - 14:10 **LÓPEZ MUÑOZ, Matilde:** Total environmental management in surface waters at Salar de Atacama basin, Chile
- 14:10 - 14:30 **PINTO LEDESMA, Jesús Nazareno:** Determination of areas of special protection for the conservation of migrants shorebirds in the Mar Chiquita reserve
- 14:30 - 14:50 **RIVERO, Mary Laura:** The amphibians and reptiles of the salinas and bañados in Bolivian Chaco
- 14:50 - 15:20 **Break**
- 15:20 - 15:40 **BERTHELEMY, Nicole:** Relationships between physiological and biochemical changes following exposure to mercury chloride in the brine shrimp *Artemia*
- 15:40 - 16:00 **CARRASCO, Jesús:** The contribution of european funds to the creation and support of a sustainable saltscape-based tourism
- 16:00 - 16:20 **HUDSON, Peter:** Interim results of barcoding australian pogonine beetles (Carabidae: Pogoninae)
- 16:20 - 17:00 **Posters session**

Saturday, May 14

- 09:00 - 09:20 **OREN, Aharon:** Lourens Baas Becking - a pioneer of biological salt lake research
- 09:20 - 09:40 **QI, Wen:** Salt lake changes and their observation in China
- 09:40 - 10:00 **TIMMS, Brian:** A review of brine shrimps (Anostraca: Artemiina) in Australian saline lakes
- 10:00 - 10:20 **DATSON, Bindy:** Aquatic invertebrate fauna in western australian wetlands – species variation according to salinity, pH and turbidity
- 10:20 - 10:40 **CARRASCO, Jesús:** Iberian inland saline wetlands. A recent inventory and potential for local development as a tool for conservation
- 10:40 - 11:40 **ISSLR Business**
- 11:40 - 12:15 **Closing ceremony**

* Round table: Sustainable development of saline lakes

The round table will discuss present threats and alternatives for future sustainable development of saline lakes of the world.

Conveener: Enrique H. Bucher

Participants:

- **Mr. Yaakov Akrish** (Dead Sea Tamar Regional Council, Israel)
- **Mr. Alberto Gut** (Mayor, Adolfo Alsina - Epecuén lake, Argentina)
- **Mr. Oscar Raúl Pernigotti** (Mayor, Melincué - Melincué lake, Argentina)
- **Mr. Adrián Walker** (Mayor, Miramar - Mar Chiquita lake, Argentina)
- **Mr. Daniel Costantino** (Mayor, Marull - Mar Chiquita lake, Argentina)
- **Ms. Ana Bucher** (World Bank)

POSTER SESSION (Wednesday, May 11)

ABATZOPOULOS, Theodore: Preliminary results on genetic characterization of *Artemia* from Mono Lake (USA)

AYCAN, Miyesser: Archaeal populations of Meke lake in Turkey

BATTAUZ, Yamila: Characterization of the zooplankton of the pampean saline shallow lakes and its importance for the conservation of andean flamingoes

ÇIRPAN, Ceyhun: Prokaryotic diversity of Çankiri salt mine in Turkey

DAGA, Romina: Indicators of recent environmental changes in a saline lacustrine sedimentary sequence recovered from lake El Toro, Neuquén sttepe, Argentina

ECHANIZ, Santiago: Population dynamics of the Brine Shrimp *Artemia persimilis* (Crustacea, Anostraca) in Utracán, a hypersaline lake of La Pampa, Argentina

JIA, Qinxian: Frame of autumnal carbon flux and contributions of carbon sequestration in Dagze Co lake, Tibet, China

KOPPRIO, Germán: Zooplankton dynamic in a salt lake of the semiarid Argentinean pampa

KOTTE, Karsten: Climatic effects on the emission of Volatile Organohalogens from saline soils

MA, Nina: Water chemistry and environmental isotopes of saline in the Badain Jaran desert, Inner Mongolia and their hydrological implications

OREN, Aharon: Oceanographic equipment used in Dead Sea explorations in the middle of the 19th century

PILATI, Alberto: Nutrient limitation in Mar Chiquita (Córdoba, Argentina)

SHI, Linfeng: Magnetostratigraphy of Saline Sediment in Dalangtan, Western Qaidam Basin, China

TIMMS, Brian: Preliminary results on Parartemia diversification in Australia

VIGNATTI, Alicia: Distribution of saline lakes and planktonic crustaceans in the province of La Pampa, Argentina

POSTER SESSION (Friday, May 13)

ALBAYRAK, Ece: Virus-Like Particles in Çamalti Saltern, Turkey

BASCHINI, Miria: Natural materials from Laguna Mar Chiquita and their possible use in human health

BRUNO, Gustavo: Education for the conservation of migratory birds in Mar Chiquita, Córdoba, Argentina

- BU, Lingzhong:** Study on quick extraction of lithium by heating carbonate-type brine at various temperatures
- CURTO, Erio:** Deforestation process around Mar Chiquita lake: a 30 years assessment
- ÇINAR, Seval:** Haloviruses from Çamalti Saltern, Turkey
- KOTTE, Karsten:** Rapid change detection and salt classification as a promising tool to estimate emission of organohalogens from saline ecosystems
- MONTOYA, Haydee:** Phenotypic plasticity of the cyanobacteria *Aphanothece stagnina* at central pacific coastal wetlands at Lima, Perú
- MUFARREGE, Mercedes:** Adaptability of *T. domingensis* to environments with high ph and salinity
- NAVARRO RAMOS, Silvia:** Characterization of the amount of water in a section of the Dulce river
- ORONÁ, Claudia:** Limnology of a salt lake endorheic: Laguna del Plata - Mar Chiquita, Córdoba
- SONDOSSI, Mohammad:** Genetic characterization of the bacterial endosymbiont, Wolbachia, in Shore Flies from Great Salt Lake in Utah, USA
- Wang, Yunsheng:** 5 °C- isothermal evaporation of autumn brines from the Zhabei salt lake, Tibet, China