

## 2<sup>nd</sup> INTERNATIONAL CONFERENCE ON THE ECOLOGICAL IMPORTANCE OF SOLAR SALTWORKS (CEISSA 2009)

26 – 28 March 2009  
Merida, Mexico  
Conference Center, Fiesta Americana Hotel

**DEDICATED TO PROF. JOSEPH (STEVE) DAVIS  
AND HIS PIONEERING WORLDWIDE WORK  
ON THE RELATION OF BIOLOGICAL PROCESSES AND SOLAR SALT  
MANUFACTURE**

### PROGRAM OF THE CONFERENCE

Wednesday 25 March 2009, afternoon	
17:00 – 20:00	Registration
20:00 – 21:00	Welcome drink
Session 1 – OPENING – SOLAR SALTWORKS BIOLOGY	
Thursday 26 March 2009, morning	
<i>Chairmen: N.A. Korovessis, S.M. Ortiz-Milan, T.L. Crisman</i>	
08:30 – 09:30	Registration
09:30 – 10:30	Opening of the conference
10:30 – 11:00	<i>Coffee break</i>
<i>Chairmen: J.S. Davis, V.M. Sedivy, C.D. Litchfield</i>	
11:00 – 11:50	<b>J.S. Davis</b> Solar Saltworks: Salt Manufacture from an Environmentally Friendly Industry
11:50 – 12:05	<b>J.S. Davis</b> worldwide work on Solar saltworks: Speech A.
12:05 – 12:20	<b>J.S. Davis</b> worldwide work on Solar saltworks: Speech B.
12:20 – 12:40	<b>C.D. Litchfield, C. Buckham and S. Dalmet</b> Microbial diversity in hypersaline environments
12:40 – 13:00	<b>S. Sejourne and M. Matrat</b> Managing Mediterranean saltworks as protected areas: the case of SALINS group in Europe
13:00 – 13:20	<b>V.M. Sedivy</b> The "missing link" between Saltworks biology and Solar Salt quality
13:30	<i>Lunch</i>

<b>Session 2 – SOLAR SALTWORKS BIOLOGY continued</b>	
<b>Thursday 26 March 2009, afternoon</b>	
<i>Chairmen: A. Oren, G. Rivera-Munoz</i>	
17:00 – 17:20	<b>A. Oren, D. Bina, D. Ionescu, O. Prášil, K. Reháková, R. Schumann, K. Sørensen, M. Warkentin, J. Woelfel and E. Zapomělová</b> Saltern evaporation ponds as model systems for the study of primary production processes hypersaline conditions – an interdisciplinary study of the salterns of Eilat, Israel
17:20 – 17:40	<b>S.M. Ortiz-Milán and J.S. Davis</b> Behaviour of the detrimental microorganisms for the Solar Salt production in the presence of a healthful population of brine shrimp in the ISYSA Solar Saltworks
17:40 – 18:00	<b>J.B. Escamilla-Sánchez, S. Cabrera-López, J. Tello-Cetina, S. Solís, U. Ordóñez-López, S. Ortiz-Milán and G. Rivera-Muñoz</b> Application of canonical correlation analysis in solar saltworks enzymatic activities evolution: Proteolytic activity case
18:00 – 18:20	<b>M. Reginald and N.R. Laila Banu</b> Role of microalgae for quality salt production in South Indian salt production
18:20 – 18:40	<b>J.M. Bargarca and I. Furtado</b> Isolation of Haloarchaea from low salinity coastal sediments and waters of Goa – India.
18:40 – 19:00	<i>Coffee break</i>
19:00 – 19:20	<b>S. Golubkov and M. Golubkov</b> Ecological regimes in saline shallow lakes: Mechanisms of stabilization and dynamics along a salinity gradient
19:20 – 19:40	<b>A. Abdul Rahman and R. Jeyalakhmi</b> Integration of <i>Artemia</i> in Indian Solar Saltworks - Economic opportunities
19:40 – 20:00	<b>I. Hau-Heredia, M.J. Granados-Baeza, A. Cardos-Vidal, J.B. Escamilla-Sánchez, S. Solis, S. Ortiz-Milán and G. Rivera-Muñoz</b> Chitinolytic bacterial isolation from Solar Saltworks
20:00 – 20:20	<b>M.R. Kitto</b> Disused shrimp ponds: Options for biosaline mariculture with <i>Dunaliella</i> and research needs

<b>Session 3 – SOLAR SALTWORKS ECOLOGY</b>	
<b>Friday 27 March 2009, morning</b>	
<i>Chairmen: R. de M. Rocha, A. Marques, A.M. Wali</i>	
09:00 – 09:20	<b>S.M. Ortiz-Milán</b> Importance of an official Environmental Certification for the improvement in management of dangerous waste and waste water discharges in Industria Salinera de Yucatán S.A. de C.V. (ISYSA)
09:20 – 09:40	<b>M. Cognetti and C. Zeno</b> The need of the holistic approach in the management of the complex system called Solar Saltworks: The case of Margherita di Savoia (Apulia, Southern Italy)
09:40 – 10:00	<b>A. Marques, R. Teixeira, A. Lorena, V. Del Pino, Y. Del Valle-Inclán, J. Navacho and T. Domingos</b> Sustainability assessment of traditional Solar Salt
10:00 – 10:20	<b>R. de M. Rocha, D.F.S. Costa, M.A. Lucena Filho and F.A.M. Santos</b> Environmental education as practical tool in Environment Management of Tropical Solar Saltworks - Brazilian experience
10:20 – 10:40	<b>A.M. Wali, A.A. Dardir and R.M. Elsheikh</b> Economic utilization of the left-over residual brines: EMISAL Co. case, Egypt
10:40 – 11:00	<b>S.P. Rastogi</b> Kar Tso - A high altitude natural Salt-Pan in the Himalayas
11:00 – 11:20	<i>Coffee break</i>
11:20 – 11:40	<b>D. Bloch</b> Heavy saline streams in Salt driven wetlands, abandoned evaporation pans, domes and other salt deposits as the responsible hydraulic mechanisms causing the disappearance of heavy waste liquids, metals and other waste toxic sediments on land and in the Oceans
11:40 – 12:00	<b>M.H. Cobble</b> Mono Lake - Possible futures
12:00 – 12:20	<b>J-F. Carrasco and K. Hueso</b> Inland salinas as tools for environmental education and interpretation
12:20 – 12:40	<b>A. Solis Pimentel, S.R. Aquilar Escalante and E. Alvarez Del Rio</b> Coastal Dune Reinforcement with Geotextile Tubes, for coastline regression control
12:40 – 13:00	<b>R. de M. Rocha, D.F.S. Costa and M.A. Lucena Filho</b> Models of environmental recovery in Ecosystems of Mangroves associated with Salt production in Brazilian Solar Saltworks
13:00 – 13:20	<b>M.J. Tabasco Contreras, R.E. Migoya Von Bertrab and S.M. Ortiz-Milán</b> Monitoring of Aquatic and Terrestrial Birds within the Exploitation Zone of Industria Salinera de Yucatán S.A. de C.V.
13:30	<i>Lunch</i>

<b>Session 4 – SOLAR SALTWORKS ECOLOGY continued</b>	
<b>Friday 27 March 2009, afternoon</b>	
<i>Chairmen: D.S. Jhala, K. Hadjibiros, A.I. Al-Jubouri</i>	
17:00 – 17:20	<b>C.S. Laspidou, K. Hadjibiros and S.E. Gialis</b> Minimizing the environmental impact of sea brine disposal by coupling desalination plants with solar saltworks: a case study for Greece
17:20 – 17:40	<b>R. de M. Rocha, D.F.S. Costa and M.A. Lucena Filho</b> Tropical Solar Saltworks - Influence and challenges in the coexistence with traditional populations in the Brazilian northeast region
17:40 – 18:00	<b>M. Golubkov and S. Golubkov</b> Environmental factors influenced on primary production of shallow Saline Lakes of Crimea Peninsula (Black Sea)
18:00 – 18:20	<b>P.K. Birtsas and C. Sokos</b> Comparison of waterbirds communities in a coastal wetland: The importance of Salinas
18:20 – 18:40	<b>T.L. Crisman, G.C. Zalidis and V. Takavakoglou</b> Assessing ecological value of abandoned, active and restored Solar Saltworks
18:40 – 19:00	<i>Coffee break</i>
<b>Session 5 – GENERAL</b>	
<i>Chairmen: D.S. Jhala, K. Hadjibiros, A.I. Al-Jubouri</i>	
19:00 – 19:20	<b>A.I. Al-Jubouri, A.M. Al-Tarif, J.H. Aulaiwis and A. Al-Kaisy</b> Mineralogy and geochemistry of Meha Solar Salt Pond, Iraq
19:20 – 19:40	<b>D.S. Jhala</b> The Status of Salt Industry in India
19:40 – 19:50	<b>B. Moinier</b> Worth of their Salt ....
19:50 – 20:00	<b>U.A.E. Crisman and T.L. Crisman</b> An archaeological perspective on Salt Production and trade in Mexico
20:00 – 20:10	<b>R. Amdouni</b> Incidence of fluid inclusions on the chemical quality of Salt produced in Sfax Saline (E.S. of Tunisia)
21:00	<i>Conference dinner</i>
<b>Session 6 – Conference Closing</b>	
<b>Saturday 28 March 2009, morning</b>	
09:30 – 11:30	Round Table discussion – Conference closing
11:00 – 11:20	<i>Coffee break</i>