

2nd 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 | |
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| 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 | J.S. Davis Solar Saltworks: Salt Manufacture from an Environmentally Friendly Industry |
| 11:50 – 12:05 | J.S. Davis worldwide work on Solar saltworks: Speech A. |
| 12:05 – 12:20 | J.S. Davis worldwide work on Solar saltworks: Speech B. |
| 12:20 – 12:40 | C.D. Litchfield, C. Buckham and S. Dalmet Microbial diversity in hypersaline environments |
| 12:40 – 13:00 | S. Sejourne and M. Matrat Managing Mediterranean saltworks as protected areas: the case of SALINS group in Europe |
| 13:00 – 13:20 | V.M. Sedivy The "missing link" between Saltworks biology and Solar Salt quality |
| 13:30 | <i>Lunch</i> |

| Session 2 – SOLAR SALTWORKS BIOLOGY continued | |
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| Thursday 26 March 2009, afternoon | |
| <i>Chairmen: A. Oren, G. Rivera-Munoz</i> | |
| 17:00 – 17:20 | A. Oren, D. Bína, D. Ionescu, O. Prášil, K. Reháková, R. Schumann, K. Sørensen, M. Warkentin, J. Woelfel and E. Zapomělová 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 | S.M. Ortiz-Milán and J.S. Davis 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 | J.B. Escamilla-Sánchez, S. Cabrera-López, J. Tello-Cetina, S. Solís, U. Ordóñez-López, S. Ortiz-Milán and G. Rivera-Muñoz Application of canonical correlation analysis in solar saltworks enzymatic activities evolution: Proteolytic activity case |
| 18:00 – 18:20 | M. Reginald and N.R. Laila Banu Role of microalgae for quality salt production in South Indian salt production |
| 18:20 – 18:40 | J.M. Bargarca and I. Furtado 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 | S. Golubkov and M. Golubkov Ecological regimes in saline shallow lakes: Mechanisms of stabilization and dynamics along a salinity gradient |
| 19:20 – 19:40 | A. Abdul Rahman and R. Jeyalakhmi Integration of <i>Artemia</i> in Indian Solar Saltworks - Economic opportunities |
| 19:40 – 20:00 | I. Hau-Heredia, M.J. Granados-Baeza, A. Cardos-Vidal, J.B. Escamilla-Sánchez, S. Solis, S. Ortiz-Milán and G. Rivera-Muñoz Chitinolytic bacterial isolation from Solar Saltworks |
| 20:00 – 20:20 | M.R. Kitto Disused shrimp ponds: Options for biosaline mariculture with <i>Dunaliella</i> and research needs |

| Session 3 – SOLAR SALTWORKS ECOLOGY | |
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| Friday 27 March 2009, morning | |
| <i>Chairmen: R. de M. Rocha, A. Marques, A.M. Wali</i> | |
| 09:00 – 09:20 | S.M. Ortiz-Milán 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 | M. Cognetti and C. Zeno 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 | A. Marques, R. Teixeira, A. Lorena, V. Del Pino, Y. Del Valle-Inclán, J. Navacho and T. Domingos Sustainability assessment of traditional Solar Salt |
| 10:00 – 10:20 | R. de M. Rocha, D.F.S. Costa, M.A. Lucena Filho and F.A.M. Santos Environmental education as practical tool in Environment Management of Tropical Solar Saltworks - Brazilian experience |
| 10:20 – 10:40 | A.M. Wali, A.A. Dardir and R.M. Elsheikh Economic utilization of the left-over residual brines: EMISAL Co. case, Egypt |
| 10:40 – 11:00 | S.P. Rastogi Kar Tso - A high altitude natural Salt-Pan in the Himalayas |
| 11:00 – 11:20 | <i>Coffee break</i> |
| 11:20 – 11:40 | D. Bloch 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 | M.H. Cobble Mono Lake - Possible futures |
| 12:00 – 12:20 | J-F. Carrasco and K. Hueso Inland salinas as tools for environmental education and interpretation |
| 12:20 – 12:40 | A. Solis Pimentel, S.R. Aquilar Escalante and E. Alvarez Del Rio Coastal Dune Reinforcement with Geotextile Tubes, for coastline regression control |
| 12:40 – 13:00 | R. de M. Rocha, D.F.S. Costa and M.A. Lucena Filho Models of environmental recovery in Ecosystems of Mangroves associated with Salt production in Brazilian Solar Saltworks |
| 13:00 – 13:20 | M.J. Tabasco Contreras, R.E. Migoya Von Bertrab and S.M. Ortiz-Milán 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> |

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