



Instituto Tecnológico de Durango

Chemical Engineering International Symposium

in honor of "Ing. Carlos Alfonso Hernández Sotelo"

SYMPOSIUM AGENDA



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| | MONDAY Oct 22 | TUESDAY Oct 23 | WEDNESDAY Oct 24 | THURSDAY Oct 25 | FRIDAY Oct 26 |
|---------------|---|--|--|---|--------------------------------------|
| 8:00 – 9:00 | Registration | COURSES (simultaneous) | COURSES (simultaneous) | COURSES (simultaneous) | |
| 9:00 – 10:00 | | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | |
| 10:00 – 11:00 | Opening Ceremony | COURSES (simultaneous) | COURSES (simultaneous) | COURSES (simultaneous) | COURSES (simultaneous) |
| 11:00 – 12:00 | GROUP PICTURE Registration (cont'd) | COFFEE BREAK | COFFEE BREAK | COFFEE BREAK | |
| 12:00 – 13:00 | Technical Sessions | Technical Sessions | Technical Sessions | Plenary Lecture David Hackleman | Plenary Lecture Urel Bando |
| 13:00 – 14:00 | Plenary Lecture Albert Bartlett | Plenary Lecture Robert Hesketh | Plenary Lecture Miguel A. Romero | | Closing Ceremony |
| 14:00 – 15:00 | LUNCH BREAK | LUNCH BREAK | LUNCH BREAK | | |
| 15:00 – 16:00 | | | | | |
| 16:00 – 17:00 | | | | | |
| 17:00 – 18:00 | Cultural Festival | Sports Competitions | ChemE Rally | | |
| 18:00 – 19:00 | | | | | |
| 19:00 – 20:00 | | | | | |
| 21:00 – | | | | Grand Dinner and Dancing | |

| Activity | Room |
|---|-----------------------|
| Opening and closing ceremonies | Blue Sky |
| Plenary lectures | Blue Sky |
| Course: Systemic Engineering for Sustainability | Red Sunset |
| Course: Introduction to Green Engineering & Sustainable Development | Blue Sky |
| Course: Modeling of Chemical Reactors | Crystal River |
| Course: Plan de Vida | Green Forest |
| Technical Sessions | (listed separately) |
| Cultural Festival | Blue Sky |
| Sport competitions and ChemE Rally | Yards of the Hacienda |
| Gala Dinner and Dancing | El Paraíso |



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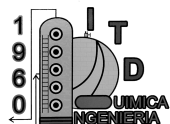
TECHNICAL SESSIONS SCHEDULE

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| Monday, October 22 nd , 2007 | | | |
|--|---------------|--|--------|
| Session | Time | Presentation | |
| Session 1 <i>Room</i> Blue Sky <i>Session Chair</i> Dr. Joaquín Pinto Espinoza | 12:00 - 12:15 | E. Medina-Herrera, M. E. Pérez-López, J. I. Valenzuela-Figueroa, and A. Martínez-Prado POTENTIAL POLLUTION SOURCES IN DURANGO'S CITY UNDERGROUND WATER | ENVE01 |
| | 12:15 - 12:30 | M. E. Pérez-López, J. Valenzuela-Figueroa, M. G. Vicencio-de La Rosa, A. Martínez-Prado, and G. González-Sánchez CLUSTER ANALYSIS TO ESTABLISH THE QUALITY OF SUPERFICIAL WATER | ENVE02 |
| | 12:30 - 12:45 | J. I. Valenzuela-Figueroa, M. E. Pérez-López, and E. Medina-Herrera QUALITY OF DIFFERENT BRANDS OF BOTTLED DRINKING WATER | ENVE03 |
| | 12:45 - 13:00 | M. G. Vicencio de la Rosa, I. Villanueva-Fierro, and M. E. Pérez-López WATER QUALITY OF THE MEZQUITAL RIVER, DURANGO MEXICO | ENVE04 |
| Session 2 <i>Room</i> Crystal River <i>Session Chair</i> Dr. Carlos Francisco Cruz Fierro | 12:00 - 12:15 | I. Mares Ochoa, B. García Caballero, J. Rodríguez Rosales, S. Valle Cervantes, and R. Muñoz Rios USE OF A PACKED COLUMN FOR THE BIOLOGICAL TREATMENT TO EFFLUENTS OF THE MILK INDUSTRY | ENVE05 |
| | 12:15 - 12:30 | E. Medina-Herrera, M. E. Pérez-López, M. G. Vicencio-de La Rosa, C. Valverde-Cisneros, and A. Martínez-Prado EFFLUENT CHARACTERIZATION OF A MENNONITE CHEESE FACTORY | ENVE06 |
| | 12:30 - 12:45 | S. A. Uribe-Grado, J. Rodríguez-Rosales, S. Valle-Cervantes, L. A. De La Peña-Arellano, B. E. García-Caballero, and C. T. Moorillón-Piedra EVALUATION OF A LABORATORY SCALE TRICKLING FILTER FOR THE DYNEA'S INDUSTRIAL EFFLUENTS TREATMENT | ENVE07 |
| | 12:45 - 13:00 | J. M. Viguera-Cortes, J. P. Flores-Hernández, M. E. Pérez-López, M. G. Vicencio-de la Rosa, I. Villanueva Fierro, A. Martínez Prado, and J. Pinto-Espinoza PRELIMINARY EVALUATION OF GREASE REMOVAL FROM WASTEWATER CHEESE FACTORY | ENVE08 |
| Session 3 <i>Room</i> Red Sunset <i>Session Chair</i> Dr. Felipe Samuel Hernández Rodarte | 12:00 - 12:15 | P. Hernández-Ruelas, C. F. Cruz-Fierro, and J. Pinto-Espinoza HYDRODYNAMIC STUDY OF THE FLUIDIZATION OF CYLINDRICAL PARTICLES | PROC01 |
| | 12:15 - 12:30 | E. D. Moreno, S. Valle, and J. Rodríguez CONTROL SYSTEM FOR NEUTRALIZACION PROCESS | SC01 |
| | 12:30 - 12:45 | J. M. Pensaben Esquivel EFFECTS OF VEGETABLE FAT EMULSIFIER IN TEXTURE AND FLAVOR: SWEET BREAD PROCESS | PROC02 |
| | 12:45 - 13:00 | O. H. Velasco-Gonzalez, S. Echavarría-Almeida, A. Sifuentes, and M. Casas-Valdez DEVELOPMENT OF CHOCOLATE COOKIES ADDED MARINE SEAWEED <i>Sargassum</i> spp. | PROC03 |



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| Tuesday, October 23 rd , 2007 | | | |
|---|---------------|---|--------|
| Session | Time | Presentation | |
| Session 4 <i>Room</i> Blue Sky <i>Session Chair</i> M.C. Ma. Guadalupe Vicencio de la Rosa | 12:00 - 12:15 | N. Flores Bolívar, K. Gurrola Gómez, T. Moorillón Piedra, F. S. Hernández Rodarte, G. Enríquez Flores, B. E. García Caballero REDUCTION OF CHROMIUM SIX CONTENT IN SEWAGE WATER BY MEANS OF BIOLOGICAL TREATMENT | ENVE09 |
| | 12:15 - 12:30 | E. Manriquez Reza, Z. Cardosa Villanueva, and R. Contreras Bustos Mn(II) OXIDATION BY OZONE IN THE PRESENCE OF ACTIVATED CARBON | ENVE10 |
| | 12:30 - 12:45 | E. Manriquez Reza and R. Contreras Bustos LEAD IONS ADSORPTION ON DIOXIDE MANGANESE-ACTIVATED CARBON MATERIAL | ENVE11 |
| | 12:45 - 13:00 | A. Meza-Pérez, M. E. Pérez-López, M. E. Burciaga-Siqueiros, M. G. Vicencio-de La Rosa, A. Martínez-Prado, and G. Gonzalez-Sanchez REMOVAL OF PHOSPHATE AND FLUORINE USING RIVER GRAVEL | ENVE12 |
| Session 5 <i>Room</i> Crystal River <i>Session Chair</i> Dra. Ma. Adriana Martínez Prado | 12:00 - 12:15 | B. A. Gurrola-Nevárez, A. Martínez-Prado, J. Pinto-Espinoza, and M. E. Pérez-López TREATMENT OF A TPH CONTAMINATED SOIL USING BIOSOLIDS AS NUTRIENT SOURCE | ENVE13 |
| | 12:15 - 12:30 | D. M. Nuñez-Ramírez, A. Solis-Soto, O. M. Rutiaga-Quifones, J. Lopez-Miranda, and H. Medrano-Roldán ELIMINATION OF POLLUTING AGENTS IN IRON CONCENTRATING, BY MEANS OF BIOLEACHING | ENVE14 |
| | 12:30 - 12:45 | M. E. Pérez-López, M. E. Burciaga-Siqueiros, M. G. Vicencio-de La Rosa, A. Martínez-Prado, and G. Gonzalez-Sanchez POTENTIAL OF <i>Eleocharis densa</i> FOR THE CONSTRUCTION OF WETLANDS | ENVE15 |
| | 12:45 - 13:00 | C. E. Soto-Álvarez, A. Martínez-Prado, J. Pinto-Espinoza, T. Moorillón-Piedra, J. Unzueta-Medina, and C. F. Cruz-Fierro REMOVAL OF TPH FROM A CONTAMINATED INDUSTRIAL SOIL: ELECTROKINETIC-BIOREMEDIATION APPROACH | ENVE16 |
| Session 6 <i>Room</i> Red Sunset <i>Session Chair</i> M.C. Ma. Elena Pérez López | 12:00 - 12:15 | F. S. Hernández-Rodarte, C. A. Castillo-Ordaz, A. Martínez-Prado, J. Pinto-Espinoza, and C. F. Cruz-Fierro NEURAL NETWORK MODELING OF AN ELECTROKINETIC REMEDIATION PROCESS OF HYDROCARBON-POLLUTED SOIL | ENVE17 |
| | 12:15 - 12:30 | J. Martínez Lara, M. C. Chávez Parga, J. A. Castro Montoya, and B. Hernández Méndez IMPLEMENTACIÓN DE TRISYL EN EL PROCESO DE REFINACIÓN Y PURIFICACIÓN DE BIODIESEL | ENVE18 |
| | 12:30 - 12:45 | J. Unzueta-Medina C. E. Soto-Álvarez, A. Martínez-Prado, J. Pinto-Espinoza, C. F. Cruz-Fierro, and F. S. Hernández-Rodarte ELECTROREMEDIATION: A NOVEL TECHNOLOGY FOR THE REMEDIATION OF CONTAMINATED SOILS | ENVE19 |
| | 12:45 - 13:00 | Villanueva-Fierro, J. M. Viguera-Cortés, and I. C. López-González MANUFACTURE OF CHEAP UV-VISIBLE AND FLUORESCENCE DETECTORS | FUND01 |



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| Wednesday, October 24 th , 2007 | | | |
|--|---------------|--|--------|
| Session | Time | Presentation | |
| Session 7 <i>Room</i> Blue Sky <i>Session Chair</i> M.C. Rafael Lucho Chigo | 12:00 - 12:15 | F. J. Bradley-Álvarez, I. Lares-Asef, and I. Villanueva-Fierro MEASUREMENT OF DNA REPAIR CAPACITY, IN EXPOSED PERSONNEL TO POLLUTION AGENTS EMITTED BY BRICKMAKERS IN DURANGO, MEXICO | ENVE20 |
| | 12:15 - 12:30 | M. Madrid Del Palacio, L. A. de La Peña Arellano, J. Rodríguez Rosales, and R. Lucho Chigo USE OF AN EXTRACT OF LEAVES OF <i>Agave durangensis</i> LIKE COAGULANT NATURAL | ENVE21 |
| | 12:30 - 12:45 | J. Pinto-Espinoza, A. Martínez-Prado, C. F. Cruz-Fierro, J. G. Herrera-Gamboa, J. Borja-Aragón, S. M. Vargas-Caldera, and M. M. Frías-Rodríguez METALS CONCENTRATION IN SOIL BY DISPERSED MATERIAL FROM MINE TAILING DAM | ENVE22 |
| | 12:45 - 13:00 | M. G. Vicencio-de la Rosa, I. Villanueva-Fierro, and J. M. Viguera-Cortés LANDFILL SIZING OF POANAS COUNTY, DURANGO, MEXICO. | ENVE23 |
| Session 8 <i>Room</i> Crystal River <i>Session Chair</i> M.C. Elizabeth Medina Herrera | 12:00 - 12:15 | M. M. Acevedo Romero, J. Rodríguez Rosales, S. Valle Cervantes, R. Lucho Chigo, A. Gallegos Infante, J. Soria Escalier, and A. Loaiza Moran A BENCH SCALE PHYSICO-CHEMICAL TREATMENT APPLIED TO REMOVE PHENOL AND FORMALDEHYDE IN INDUSTRIAL WASTEWATER | ENVE24 |
| | 12:15 - 12:30 | L. Estrada-Mercado, D. J. Rodríguez Rosales, S. Valle Cervantes, L. A. De La Peña Arellano, and B. E. García Caballero OPTIMIZATION OF THE TRICKLE FILTER USED FOR THE EFFLUENTS TREATMENT OF A RESIN PROCESS INDUSTRY | ENVE25 |
| | 12:30 - 12:45 | M. A. Guerrero-Nevárez, J. Pinto-Espinoza, A. Martínez-Prado, and M. G. Vicencio-de La Rosa COMPOSTING OF WASTEWATER TREATMENT PLANT BIOSOLIDS | ENVE26 |
| | 12:45 - 13:00 | | |
| Session 9 <i>Room</i> Red Sunset <i>Session Chair</i> Dr. Sergio Valle Cervantes | 12:00 - 12:15 | C. F. Cruz-Fierro, B. P. Reed, and G. N. Jovanovic PARTICLE-X: THREE-DIMENSIONAL EULERIAN-LAGRANGIAN SIMULATIONS OF FLUIDIZED BEDS | SC02 |
| | 12:15 - 12:30 | D. A. García-Estrada, C. F. Cruz-Fierro, J. Pinto-Espinoza HYBRID MODEL 2D-CFD/3D-DPM FOR SIMULATION OF FLUIDIZED BEDS | SC03 |
| | 12:30 - 12:45 | B. P. Gómez Lozano and G. F. González Carranza SIMULATION OF A CONTINUOUS REACTOR TYPE SHAKEN TANK, LINEAR AND NONLINEAR MODEL WITH CONTROL | SC04 |
| | 12:45 - 13:00 | J. Martínez Lara, B. A. Martínez Lara, M. Serna González, and A. J. Castro Montoya SIMULATION OF SEPARATION OF TETRAHYDROFURAN-WATER BY EXTRACTIVE DISTILLATION WITH GLYCEROL | SC05 |

