

6ISEBE and IV CNTCA Complete Program



Instituto Tecnológico de Sonora

Ciudad Obregón, Sonora México

November 5 – 9, 2018

MONDAY, NOVEMBER 5		
Time	Activity	Place
8:00-13:00	Short-Courses	ITSON, campus Nainari
15:00-17:00	Registration	Room 4, CEEN (ITSON campus Centro)
17:00-18:30	Opening Ceremony Opening Conference: Dr. Octavio Paredes López. CINVESTAV – Irapuato, Mexico Agrobiotechnology – Beneficial aspects and ecological impacts.	ITSON Theater
18:30-19:00	Cultural Event: Deer Yaqui and Pascola Dance	ITSON Theater
19:00-19:30	Welcome Cocktail	Lobby of CEEN (ITSON campus Centro)

TUESDAY, NOVEMBER 6				
Time	Activity	Place		
08:00-09:00	Registration	Tutorias Rooms (ITSON Campus Nainari)		
		Oral Session (Tutorias Room)		
		Room 1 Moderator: Nidia Ríos	Room 2 Moderator: Reyna Sánchez	Room 3 Moderator: Aracely Correa
		Room 4 Moderator: Gustavo Curutchet		
09:00-09:05		Presentation		
09:05-09:20	Development of a crude glycerol valorization process obtained as a by product of the technology IPN-GBD-1000 of biodiesel production. Tiscareño Ferrer, V. Y. Mena Cervantes, R. Hernández Altamirano	Study of electrochemical nucleation of chromium from a deep eutectic solvent. M. I. García-Benítez, A.D. Cañas-Jardón, W. Sánchez-Ortiz, I. Mejía-Caballero, J. I. Aldana-González, Tu Le Manh, E. M. Arce-Estrada, M. Palomar-Pardavé	The metals reduction and bioelectricity production is controlled by the GSU1771 regulator in <i>Geobacter sulfurreducens</i> . S Martínez Bahena, Y Domínguez Fernández, V Almaza Rebollar, K Juárez López and J A Hernández Eligio.	<i>Debaryomyces hansenii</i> F39A as biosorbent for textile dyes removal. F Ruscasso, B Bezus, M Acosta, G Garmendia, S Vero, G Curutchet, I Cavello, S Cavalitto
09:20-09:35	Use of a microalgae consortium from a wastewater plant for the treatment of residual effluents and biodiesel production. J. Suastes Rivas, R. Hernández Altamirano, L. R. Tovar Gálvez and I. Chairez Oria	Synthesis of a based-crude glycerol catalyst. L. Díaz-Jiménez, S. Carlos-Hernández, A.E. Vega-González	Activity in vitro of halobacterias of <i>Lippia palmeri</i> W, nitrogen fixers, phosphate solubilizers and sideroforum producers. Méndez-Mayboca, F.R., Wong-Corral, F.J. & Rueda-Puente, E.O.	Characterization of microorganisms in suspended and immobilized biomasses in the anaerobic treatment of tequila vinasses. A. Serrano Meza, M. A. Garzón Zúñiga, B. E. Barragán Huerta, E. B. Estrada Arriaga, J. G. García Olivares, N. Almaraz Abarca
09:35-09:50	Optimization of process conditions for the biosynthesis of ligninolytic enzymes in solid state fermentation using agricultural residues. Sosa-Martínez, Jazel, Nagamani Balagurusamy, Montañez-Sáenz, Julio, Morales-Oyervides, Lourdes	Optimizing biohydrogen and volatile fatty acids by dark fermentation of sugarcane vinasse. Felipe Eng, Lucas Tadeo Fuess and Marcelo Zaiat	Composition and structure of the rhizospheric bacterial communities associated to wild and greenhouse "sweet biznagas". ME de la Torre-Hernández, LI Salinas-Virgen, JF Aguirre-Garrido, HC Ramírez-Saad	Use of <i>Chlamydomonas</i> and <i>Chlorella vulgaris</i> for the obtain of fatty acids using aquaculture wastewater. Morando-Grijalva, C. A., Vázquez-Larios, A. L., Alcántara-Hernández, R., Ortega-Clemente, L. A., Robledo-Narváez, P. N.

09:50-10:05	Combined alkaline-biological pretreatment on coffee pulp for sugar reducing production. Alarcón Gutiérrez E. , Osorio Sosa M. L., García Pérez J. A., Cerdan Cabrera A.	The inhibition of CO ₂ corrosion via sustainable germinal zwitterion compounds: effect of the length of the hydrocarbon chain from amines. E. Gómez Juárez, R. Hernández Altamirano, V. Y. Mena Cervantes, Jorge G. Vázquez Arenas		Inhibitory effects of benzotriazole in the nitrification ammonium and nitrite oxidizing processes. D. Maturano, D.I. Bejarano, F.M. Cuervo López, A.C. Texier
10:05-10:20		Efecto de la adición de subproductos orgánicos e inorgánicos en propiedades fisicoquímicas de abono orgánico. A. Graciano-Obeso, Pollorena-López G., Báez-Hernández G. E. y Humarán-Sarmiento V.		Nickel adsorption with chitosan hydrogels modified with tripolyphosphate of sodium. Martínez Meza R.G., Camalich Arvayo L. E., Certucha Barragán M.T.
10:30-11:30	PLENARY CONFERENCE: Dr. Cristobal Chaidez Quiroz. CIAD – Culiacán, México Fate, occurrence and risk assessment of waterborne pathogens in the environment.			
11:30-12:00	COFFE BREAK			
12:00-13:30	SYMPOSIUM (Tutorias Room)			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Risk Assessment and Environmental Impact (08)	Climate Change (11)	Sustainability and Environmental System Analysis (02)	Microbial Ecology and Molecular Biology Applications to Environmental Problems (06)
13:30-15:00	LUNCH TIME			
15:00-16:00	ORAL SESSION (Tutorias Room)			
	Room 1 Moderator: Rosario Martínez	Room 2 Moderator: Jorge Saldívar	Room 3 Moderator: Eduardo Dévora	Room 4 Moderator: Isabel Sastré
15:00-15:15	Electrofermentation of hydrolysate of the organic fraction of municipal solid waste for succinic acid production. E. Hernández-Correa, H. M. Poggi-Varaldo,	Production of hydrophobins from <i>Lecanicillium lecanii</i> : proteins with biosurfactant properties. José Luis Vázquez Sánchez, Andrea Ramírez de la O, Zaizy Rocha-Pino, Gabriel Viguera, Keiko Shirai	U(VI) removal by nanoscale zero-valent iron (nZVI) supported on raw and modified montmorillonite. Valiente, R., Marco Brown, J.L., Ramos, C.P., Torres Sánchez, R.M., Candal, R.	Identification of candidate genes for Arsenic tolerance using Genome-Wide Association Mapping in <i>Arabidopsis</i> . A.C. Delgado Chávez , C.E. López Ortiz , T. Saminathan , P. Nimmakayala , L.E.

	T. Ponce-Noyola, D. A. Estrada-Bárceñas, L. Romero-Cedillo, E. Ríos-Leal, A. Escalante-Sánchez			Montañez Hernández , U. Reddy , N. Balagurusamy
15:15-15:30	Semicontinuous culture of <i>Scenedesmus sp</i> in 200 and 2000 L RW under greenhpuse conditions using commercial liquid fertilizer. Fernández-Linares L., González Ambriz L.M.; García Cordero, J.M.; Guerreo Barajas C.	Typology and socio-economic logic of cropping systems in Sub-Saharan agro-ecosystems of Burkina Faso. Edmond HIEN, Koulibi Fidèle ZONGO, Jean Jacques DREVON, Didier BLAVET, Dominique MASSE, Cathy CLERMONT-DAUPHIN	Effect of pollution on the physicochemical, structural and surface characteristics of the sediments of the Reconquista River, Argentina. Ana E. Tufo, Natalia Porzionato, Agustina Ziliani, Celeste Grimolizzi, Gustavo Curutchet	Evaluation of different COD/SO ₄ 2-ratios on expression of mcrA and dsrA of a methanogenic and sulfidogenic consortia in lab scale reactors. G. Rafael Galindo , L.E. Montañez Hernández , I.O. Hernández De Lira , R. Oropeza Navarro , T. Espinosa Solares and N. Balagurusamy
15:30-15:45	Kinetics of biotransformation of crude glycerol to ethanol. V. Martínez-Bautista, L. Díaz-Jiménez, S. Carlos-Hernández, L. Ríos-Gonzáles	Determination of the degree of eutrophication in the Coastal Lagoon of Coyuca de Benítez, Guerrero, period 2016 – 2017. Raúl Arcos Ramos, Eduardo Méndez Ramírez	An electrogenic microbial community from the polluted Reconquista River as revealed by molecular and kinetic analysis. Prados MB, Vázquez, S, Lescano M, Porzionato, N, Ziliani, A, Fernandez Albanesi L, Pasquevich D, Curutchet G.	Methanotrophs and microalgae co-culture for greenhouse gases mitigation. P. Ruiz-Ruiz, T. L. Gómez-Borraz, M. Morales, S. Revah
15:45-16:00	Comparison of the lignin degrading activity of three recombinant laccases from <i>Pycnoporus sanguineus</i> . A. Cerdan-Cabrera, E. Alarcon, A. Camas, F. Ziarelli, L. Sanchez-Velasquez, M.L. Osorio	Evaluation of biodigester slurry application as an organic fertilizer on different crops of <i>Comarca Lagunera</i> and its effect on soil enzyme activities. D. A. Fraire García, C. E. López Ortiz, I. O. Hernández De Lira, N. Balagurusamy		Monitoring Ureolytic Biofilm formation from a microbial consortium on graphite surface. María C. Romero, Guadalupe Ramos, Ignacio González, Florina. Ramírez
16:10-17:10	PLENARY CONFERENCE: Dr. Charles P. Gerba. The University of Arizoan The importance of viral biodiversity in assessing virus removal by wastewater treatment processes and risk assessment.			
17:10-17:30	COFFE BREAK			
17:30-19:00	POSTER SESSION (Club ITSON Garden) Topic: Renewable and Alternative Energies and Biorefineries (01) Design of a Centralized Bioenergy Unit: Modeling strategy to optimize bioenergy production and reduce methane emissions. " J. A. Silva González, I. O. Hernández de Lira, L. E. Montañez Hernández, A. Rodríguez Martínez, N. Balagurusamy "			

Obtaining Renewable Diesel from castor oil. Adid Olaff Santoyo López, R. Hernández Altamirano, F.S. Mederos Nieto.

Simultaneous radiant and thermal energy collection with a parabolic cylindrical collector for biotechnological applications. **Ruelas-Ramírez EH, Velumani Subramanian, Reyna-Velarde R.**

Importance of chemical analysis of biomass for production of bioethanol. **A. Ramírez-Estrada, V. Y. Mena-Cervantes, R. Hernández-Altamirano**

Biohydrogen production from waste diapers: optimization by response surface methodology. **Perla X. Sotelo-Navarro, Héctor M. Poggi-Valardo, Sylvie J. Turpin-Marion**

Study of extracellular enzymatic activity in native fungi isolates from Yaqui Valley. **S.R. Maldonado Bustamante, I. Mondaca Fernández, E.A. Ciprián Uribe, R.A. Zúñiga Zamora, S. De los Santos Villalobos, P. Gortares Moroyoqui, J.J. Balderas Cortés, M.M. Meza Montenegro.**

Microalgal production with potential for obtaining omegas-3 and phycoremediation of aquaculture wastewater. **López-Carrillo Z., Robledo-Narváez P.N., Ortega-Clemente L.A., Vázquez-Larios A.L., Gutiérrez-Rivera B.**

Phenomenological model for the production of ethanol from a photosynthetic microbial consortium. **D.J. Hernández-Melchor, I.J. Rodríguez-Meléndez, J. Alarcón-Bonilla, J.E.S. Martínez-Calderón, J.C. Rosas-Aveldan, E. Ríos-Leal, P.A. López-Pérez**

Utilization of non-conventional media for the growth of four microalgae for biodiesel production. Fernández-Linares L.; González Ambriz L.M.; García Cordero, J.M.

Simultaneous fermentation and saccharification of sugar cane-bagasse for ethanol production by *S. cerevisiae* RP2-BGL. **Castro-Eddy Luis, Ramirez-Reyes Itzel, Poggi-Valardo Hector, Cristiani-Urbina Eliseo, Ponce-Noyola Teresa Poster**

Topic: Sustainability and Environmental System Analysis (02)

Enhanced oil recovery by hydrophobins from *Lecanicillium lecanii*. **Zaizy Rocha Pino, Jesús I. Ramos López, Miquel Gimeno, Fernando Barragán Aroche, Cecilia Durán Valencia, Simón López Ramírez, Keiko Shirai**

Novel design of biopesticide-fertilizer mixture using capsaicin and anaerobic digestion products. **M. Ortíz León, J. A. Mendoza Pérez, M. M. Monroy Medienta, T. A. Fregoso Aguilar, O. Gómez-Guzmán, G. Calva Calva, N. A. Rivera Casado**

A review on production of value-added compounds by microbial electrosynthesis. **H. M. Poggi Valardo; E. Hernández Correa**

Topic: Soil, Sediment, Groundwater and Aquifer Remediation (03)

Isotherm studies of the biosorption of manganese (Mn) from contaminated soils. **F. A. Davila Parra, O. Monge Amaya, F. J. Almendariz Tapia, A. R. Martín García, M. C. de la Cruz Leyva.**

Topic: Green Materials and Biomaterials (04)

Urease and Carbonic anhydrase activities of ureolytic bacteria in an enriched and unenriched concrete pore solution. **M.J. Castro Alonso, L.E. Montañez Hernández, M. A. Sánchez Muñoz, R. Narayanasamy, M.P. Luévanos Escareño, N. Balagurusamy**

Evaluation of the antibacterial in vitro activity of essential oils of oregano and thyme against *Ralstonia solanacearum*. **Rueda Puente, E. O., López Ahumada G. A. , Rodríguez Félix F. , Vargas Juan M. , López-Corona, B. E., Mondaca Fernández, I., Gortáres Moroyoqui, P. , Andrade Bustamante, G., and Martínez Ruíz, E.**

Application of cellulose of three pine species with recycled fibers to manufacture corrugated paperboard components. **Teófilo Escoto Garcia, Janet Jiménez Castro, Héctor Jesús Contreras Quiñones and Raul Vega Elvira.**

Filtration of aqueous systems using green-electrospun PVA membranes. **J. Cimadoro, L. Ribba , S. Estevez Areco, L. Guz, R. Candal, S. Goyanes**

Physical-Chemical characterization sábila biopolymer (Aloe vera). **Gálvez Chan R .A, Alvarez Sánchez J, Silva Encinas G. O , López Cuero I, Paredes Gálvez P. A**

Implementation of *Vetiveria Zizanoides* in the extraction of chrome on a contaminated site. **V Calbo , C de Armas , M C Baldo**

Protonated cross-linked chitosan to remove Cr (VI) from liquid residue generated in COD analysis. **Correa-Murrieta, M.A., Sánchez-Duarte, R.G., Martínez-Macías, M.R., Villegas-Peralta, Y., Villa-Coronado, K.A., Dévora-Isirdia, G.E., Álvarez-Sánchez, J.**

Evaluation of the radial growth and germination of toxigenic fungi in the presence of chitosan. **C.A., Sañudo-Ruiz , M.I., Estrada-Alvarado , L.A., Cira-Chávez , M., Plascencia-Jatomea.**

Microbial synthesis of bionanobioparticles using wastes from an OFMSW biorefinery. **Leticia Romero-Cedillo; Héctor Mario Poggi-Valardo; Yasuhiro Matsumoto Kuwabara; Miguel García-Rocha; Jaime Santoyo Salazar; Teresa Ponce Noyola; Luz Bretón-Deval; Carlos Escamilla Alvarado**

Topic: Microbial Ecology and Molecular Biology Applications to Environmental Problems (06)

Analysis of the expression of HMA domain containing proteins in certain Cucurbitaceae plants under arsenic stress. **C. V. Ochoa Bañuelos, A. R. Almeida Robles, C. E. López Ortiz, L. E. Montañez Hernández, M. P. Luévanos Escareño, P. Nimmakayala, U. Reddy, N. Balagurusamy.**

Molecular characterization of microbial consortia from selected stages in a biorefinery using a novel technique for primer design. **Carlos Alfredo Amaro-Aponte; Leticia Romero-Cedillo; Héctor Mario Poggi-Valardo; Daniel A. Estrada-Bárceñas ; Édgar Baldemar Sepúlveda-García ; Dulce María Delgadillo-Álvarez ; Teresa Ponce Noyola ; José Tapia Ramírez**

Screening for moderately halophilic bacteria producing keratinolytic exoenzymes using by-products of chicken feathers. **Ana Maria Felix-Velis, Juan Carlos Coronado-Corral, Maria Isabel Estrada-Alvarado, Luis Alberto Cira-Chavez**

Isolation of metallotolerant microorganisms from the San Pedro River, Cananea, Sonora, for use as Cu and Mn biosorbents. **A Alvarez Villa, F J Almendariz Tapia, A M Pat Espadas, M Plascencia Jatomea, M T Certucha Barragán**

Biofertilization with NFB to restore a contaminated soil of Tlaxcala. **K. Flores-Vazquez , J. Pérez Vargas, G. Calva-Calva , S. E. Viguera Carmona**

PGPR traits of isolates obtained from the rhizospheric bacterial community of *Echinocactus platyacanthus*. **LI Salinas-Virgen , ME de la Torre-Hernández , JF Aguirre-Garrido , HC Ramírez-Saad .**

Medium chain length polyhydroxyalkanoates biosynthesis in *Azotobacter vinelandii* OP from sucrose. **G. Morales-Flores, J. Guzmán-Aparicio , M.S. Moreno-Leon, A.R. Reyes-González , C.F. Peña-Malacara , C. Flores-Ocampo , D.G. Segura-González.**

Identification of chitinase genes in halophilic microorganisms for the treatment of shrimp waste. **Gutiérrez Sámano Pamela Susana, Cira Chavéz Luis Alberto, Estrada Alvarado Maria Isabel, De los Santos Villalobos Sergio.**

Genetic analysis of a halophilic bacteria with potential for the bioremediation of soils and solid waste. **Rodríguez-Franco D.A., Cira-Chávez L.A., Estrada-Alvarado M.I., de los Santos-Villalobos S., Gassos-Ortega L.E. and Shirai-Matsumoto C.K.**

Halocin and antibiotic resistance encoding genes in halophilic archaea isolated from Saltern of Uyuni, Bolivia. **Guachalla Alarcón Andrea, Gutiérrez Llave Francisca, Cárdenas Alegría Oscar, Medrano Medrano Beatriz, Laura Mejía Lizeth, Aliaga Rodríguez Jonatan, Hurtado Gil Camila, Romero Calle Danitza, Sánchez Montaña Rolando, Álvarez Aliaga María Teresa**

Topic: Wastewater Treatment (07)

Comparison between two electrochemical reactors based on their removal efficiency of atrazine in wastewater. **Juan Napoles-Armenta, Lilian Alejandra Salcedo-Gastelum, Luis Alonso Leyva-Soto, Celestino García-Gómez, Edgardo Martínez-Orozco, Pablo Gortáres-Moroyoqui**

Atrazine half-life determination in water. **Juan Napoles-Armenta, Luis Alonso Leyva-Soto, Celestino García-Gómez, Edgardo Martínez-Orozco, Pablo Gortáres Moroyoqui**

Evaluation of hydrogen production efficiency in a microbial electrolysis cell inoculated with *Shewanella oneidensis*. **Mendoza-Chávez E., Khosravanipour-Mostafazadeh A., Droguí P., Buelna G., Gortáres-Moroyoqui P.**

Kinetic coefficients from the anaerobic digestion of thermic pre-treated slaughterhouse wastewater. **Vianka Celina Hernández-Fydrych , Mónica Meraz-Rodríguez, Mónica L. Salazar-Peláez , María del Carmen Fajardo-Ortiz**

Multivariate analysis of wastewater treatment plants in Mexico: Cases of Oaxaca, Nuevo León and Mexico City. **Lilian E. Domínguez-Montero, Héctor M. Poggi-Varaldo, Blanca E. Jiménez Cisneros, Sergio Caffarel -Méndez, Eduard de la Cruz Burelo, Miguel A. Pérez-Angón, Rosa Olivia Cañizares-Villanueva, Eugenio Frixione-Garduño.**

	<p>Acid mine drainage remediation using sulfate reduction and sulfide oxidation. C.D. Loreto Muñoz, O. Monge Amaya, F.J. Almendariz, V. Ochoa-Herrera, R. Sierra.</p> <p>Comparison of regulations for wastewater discharge: The cases of Mexico, Brazil, United States and European Union. Lilian E. Domínguez-Montero, Héctor M. Poggi-Varaldo, Blanca E. Jiménez Cisneros, Sergio Caffarel -Méndez, Eduard de la Cruz Burelo, Miguel A. Pérez-Angón, Rosa Olivia Cañizares-Villanueva, Eugenio Frixione-Garduño</p> <p>Study of metal ions removal in aqueous solutions and industrial wastewater using low cost sorbents. P. M. Navarro Quintana, S.I. Sáez Elgueta, B.H. Quilodrán Toloza</p> <p>Hydrodynamic evaluation of a thin-layer photobioreactor for piggery wastewater treatment. Aguilera-Torres A., Serrano-Palacios D., Ulloa-Mercado G., Almazán-Ruiz F., Plascencia-Jatomea R.</p> <p style="text-align: center;">Topic: Climate Change (11)</p> <p>Effect of lovastatin on ruminal methanogenesis: a review. Amaury Ábrego-García , Hector M. Poggi-Varaldo , Vania Robles-González and Omar Hernández-Mendo</p> <p>Anaerobic methane oxidation linked to nitrous oxide reduction via humus mediated interspecies electron transfer in wetland sediment. Padilla Loma C., Valenzuela-Reyes E.I. , Cervantes Carrillo F.J.</p> <p>Comparison of DNA extraction methods for molecular analyses of the ticks <i>Rhipicephalus sanguineus</i>, a warm-favored infection. C.E. Aragón-López , V. Ortiz-Encinas , J.R. Reyna-Granados , P. Luna-Nevárez , Y.L. Caraveo-Gutierrez</p> <p>Social vulnerabilities analysis to climate extreme events through a knowledge system in Hermosillo. Fernando Tandazo-Bustamante, Agustín Robles-Morúa, Tischa Muñoz-Erickson, Robert Hobbins</p> <p>Single nucleotide polymorphism associated with a behavioral trait sensitive to warm weather conditions in replacement gilt vaccinated against PRRS virus infection. C. M. Aguilar-Trejo, J. A. Romo-Rubio G. Luna-Nevárez, J. R. Reyna-Granados, X. Zeng, R. M. Enns, S. E. Speidel, M. G. Thomas, and P. Luna-Nevárez.</p>
19:00-20:00	Visit to ITSON Art Gallery



WEDNESDAY, NOVEMBER 7				
Time	Activity			Place
08:00- 9:00	Registration			Tutorias Rooms (ITSON Náinari)
9:00 – 10:30	Oral sesión (Tutorias Room)			
	Room 1 Moderator: David Encinas	Room 2 Moderator: Héctor Poggi	Room 3 Moderator: Hervé Macarie	Room 4 Moderator: Denisse Serrano
09:00- 9:05	Presentations			
09:05- 9:20	Evaluation of acid and enzymatic pretreatments of <i>Opuntia ficus-indica</i> for the production of sugars assimilable to bioproducts. Abimael Iván Avila-Lara, José Antonio Pérez-Pimienta, Rubén Morones-Martínez, Julián Cano-Gómez, Elvira Ríos-Leal, Héctor M. Poggi-Varaldo, Carlos Escamilla-Alvarado.	Removal of cadmium and zinc in aqueous solution by electrocoagulation in FCER reactor. Moreno Romá E.J., Burboa Charis V.A. , Garcia Gomez C.	Enzymatic response in <i>Eisenia hortensis</i> and <i>Lumbricus terrestris</i> exposed to 3-, 4-, and 5-ring hydrocarbons amended with biosurfactant. S. Popoola. D. Purchase. H. Jones	Chitosan nano-onions: new production method. Y. Villegas Peralta, R.G. Sánchez Duarte, J. López Cervantes, D. I. Sánchez Machado, M. A. Correa-Murrieta, M.R Martínez Macías.
09:20- 9:35	Functional convergence of two diazinon microbial communities to a toxic shock by chlorpyrifos. Arias Ruiz Alfredo, Ambriz-Mexicano Isabel, Galíndez-Mayer Juvencio, Ruiz-Ordaz Nora, García-Mena Jaime	Technical feasibility of artificial wetlands inoculated with pesticide tolerant bacteria for the treatment of agroindustrial effluents: A Review. Cedillo-Herrera, C.I.G., Amabilis-Sosa, L.E., Rangel-Peraza, J.G., Rodríguez-Mata, A., Mendivil-García, K.	Removal of diesel by soil washing technologies using a non-ionic surfactant. Carolina Guatemala Hernández, Josefina Barrera-Cortés, Ma. Teresa Ponce Noyola, Mauricio Carbajal Tinoco.	Adsorption of Cu, Fe and Zn by an extruded matrix of biodegradable polymers. M. Martínez, J. Rangel, M. Gimeno, K. Shirai.
09:35- 9:50	Organic Solid Waste Anaerobic Digestion for Methane Production. B. G. Arellano, R. Campuzano, G. Trejo-Aguilar, A. Ferreira-Rolón, F. Ramírez-Vives and O. Monroy	Bioethanol generation during agro-industrial wastewater treatment. Gloria Isabel Peraza; Sait C-Sosa; Leonel Ernesto Amábilis-Sosa; Jesús Gabriel Rangel-Peraza	Polyacrylic-polyether-polyurethane coating biodegradation by the enriched microbial community BP8. I. Gaytán-Enríquez, M. J. Cruz-Gómez, H. Loza-Tavera.	Influence of nitrate reductase enzyme over the biosynthesis of silver nanoparticles by white rot fungi <i>Bjerkandera sp.</i> Anamorph R1. J. Osorio Echavarría, N.A. Gómez Venegas, J. Osorio Echavarría, C.P. Ossa Orozco.

9:50- 10:05	Comparison of the production of bioH ₂ between a microbial consortium photoheterotrophic and <i>Rhodospseudomonas palustris</i> . S.M. García-Solares; H.M. Poggi-Varaldo	Nutrient recovery and biogas generation from the anaerobic digestion of waste biomass from algal biofuel production. Pedro Ayala-Parra, Jim A. Field, Reyes Sierra-Álvarez	Biodegradation of potassium cyanide by two bacterial isolates from contaminated soil. Y. Maiga, S. Young, K.D. Orner, M. Peterson, J.R. Mihelcic, V.J. Harwood, A.S. Ouattara	
10:30- 11:30	PLENARY CONFERENCE: Dr. Francisco Javier Cervantes Carrillo. IPICYT, México Impact of humic substances on global biochemical cycles.			
11:30- 12:00	COFFEE BREAK			
	SYMPOSIUM			
	Room 1	Room 2	Room 3	Room 4
12:00- 13:00	Wastewater Treatment (07)	Environmental Biotechnology (10)	Environmental Engineering	Renewable and Alternative Energies and Biorefineries (01)
13:30- 15:00	LUNCH TIME			
	ORAL SESSION			
	Room 1 Moderator: Jorge Saldívar	Room 2 Moderator: Joseline Benítez	Room 3 Moderator: Georgia González	Room 4 Moderator: Karla Herrera
15:00- 15:15	Bibliometric analysis on emerging and persistent organic pollutants in wastewater in the period 1996-2017. Lilian E. Domínguez-Montero, Héctor M. Poggi-Varaldo, Blanca E. Jiménez Cisneros, Sergio Caffarel - Méndez, Eduard de la Cruz Burelo, Miguel A. Pérez-Angón, Rosa Olivia Cañizares-Villanueva, Eugenio Frixione-Garduño	Anaerobic digestate as a substrate for the semi-continuous culture of <i>Arthrospira</i> sp.: Protein production. Álvarez Montero Xavier Guillermo, Otero Casal Ana María	Ecological stoichiometry of Carbon, Nitrogen and Phosphorus in the leaf and soil of plant species from the Sonoran Desert. M.G. Alvarez Moreno, A.E. Castellanos Villegas, J.M. Llano Sotelo, J.R. Romo León, F. García Olivas.	Scale-up and production of a photosynthetic, nitrogen-fixing microbial consortium. Vargas-Valtierra V, Reyna-Velarde R, León-Tejera HP, Ramírez-López C.
15:15- 15:30	Ability of MCM-41-based sorbents to remove and reduce hexavalent chromium from different water matrices. P. P. Martin, M. F. Agosto and N. Fellenz	Effect of the chemical oxygen demand:sulfates ratio (COD/SO ₄ 2- ratio) of the flotation liquid effluent from a mining plant during its biological treatment. R. Cuellar-Briseño, M. Bernal-González, María-del-Carmen Durán-	Remote Sensing and covariance fluxes to evaluate productivity in Buffel Grass (<i>C. ciliaris</i>) and Subtropical Scrub in arid zones of Northwest Mexico. S. Chozá Farías, J. R. Romo León, A. E. Castellanos Villegas, M. C. Peñalba Garmendia, F. E. Molina Freaner.	Production of lovastating using agriculture wastes as substrates. Amaury Ábrego-García , Hector M. Poggi-Varaldo, T. Ponce-Noyola, G. Calva-Calva, E. Rios-Leal; D. Estrada-Bárceñas, V. Robles-Gonzales and J. Tapia-Ramirez

		Domínguez, E. Rodolfo Bazúa-Rueda		
15:30- 15:45	TiO ₂ and N-TiO ₂ -photocatalytic degradation of salicylic acid in water: characterization of transformation products by HPLC-MSn. Bracco, Estefanía, Butler, Matías, Carnelli, Patricio, Alfano, Orlando, Candal, Roberto	Oxytetracycline biosorption and degradation by <i>Chlorella sp.</i> Burboa Charis, V. A., Ulloa Mercado, R.G., Hernández Chávez, J. F., Leyva Soto, L. A., Gortáres Moroyoqui, P., Serrano Palacios, D., Meza Escalante, E.R.	Barley-spent grain as carbon source in the sustainable production of DHA by <i>Aurantiochytrium limacinum</i> SR21. R. D. Múnera Soto, J. M. Delgado Naranjo , M. Peñuela Vásquez	Kinetics of carbendazim degradation by three axenic batch cultures. Alvarado Gutiérrez, M. L., Ruiz Ordaz, N. Galíndez Mayer, C. J. J.
15:45- 16:00	Optimization of biomass production and nutrients removal by <i>Chlorella vulgaris</i> from synthetic wastewater. Celestino García-Gómez, Karla Sofía Piedra-Alegría, Georgina Guadalupe Zamarripa-Segovia, Sanjuana Cecilia Galicia-Campos, Juan Antonio Vidales-Contreras	Multivariable Robust Regulation of Alkalinities and VFA in Continuous AD Processes against both Uncertain Kinetics and Operational Perturbations. V. Alcaraz-González, F. A. Fregoso-Sánchez, V. González-Álvarez, J.P. Steyer		Protease produced by the moderate halophilic strain LT14: Characterization and potential application in commercial detergents. Juan Carlos Coronado Corral, María Isabel Estrada Alvarado, Lilia Arely Prado Barragán, Luis Alberto Cira Chavez
16:10- 17:10	PLENARY CONFERENCE: Dr. Patrick Droguí. INRS, Canada Electro-technologies in Water and Wastewater treatment: Future trend for decentralized sanitation and water treatment in extreme conditions.			
17:10- 17:30	COFFEE BREAK			
	POSTER SESSION (Club ITSON Garden) Topic: Wastewater Treatment(7)			
17:30- 19:00	Removal efficiency of organic matter in a sequential batch activated sludge reactor for treatment of municipal wastewater. A. N. Salinas-Pacheco, C. Estrada-Vázquez, E. Peralta-Reyes, A. Regalado-Méndez	Biodegradation of benzotriazole under nitrifying conditions. R. Trejo Castillo, F.M. Cuervo López, A.-C. Texier	2-Chlorophenol consumption by cometabolism in nitrifying SBR reactors. Miguel Martínez-Jardines, Sergio Martínez-Hernández, Anne-Claire Texier, Flor Cuervo-López.	Benzotriazole mineralization by denitrifying sludge in presence of acetate. García-Camacho J., Romo-Gómez C., Texier A.C., Cuervo-López F.
	Isolation and application of microalgae on a microbial fuel cell employing aquaculture effluent. Morando-Grijalva, C. A., Vázquez-Larios, A. L., Alcántara-Hernández, R., Ortega-Clemente, L. A., Robledo-Narvaéz, P. N.			

Removal of chromium by an isolated microbial consortium of tannery effluents. **B. Reyes-Romero, J.I. Chairez-Oría, R. Hernández-Altamirano, R. Vázquez-Medina, D.A. Vivanco-Campos, J.A. Cruz-Peláez, S.M. García-Solares.**

Use of a submerged membrane bioreactor (SMBR) for synthetic fish meal processing wastewater treatment. : **G. López Avilés, F. J. Almendariz Tapia, O. Monge Amaya, M. T. Certucha Barragán, M. Plascencia Jatomea, E. R. Meza Escalante**

Quantification and removal of polyphenols in anaerobic biochemical systems. **J. A. Contreras-Contreras, A. Martínez-Cruz, Dra. M. Bernal-González, Dra. M. C. Durán-Domínguez-de-Bazúa**

Optimization of heterogeneous photocatalysis with ZnO as a low-cost catalyst. Case study: malathion degradation. : **Sait C-Sosa; Gloria Isabel Peraza; Abraham Efraim Rodríguez-Mata; Jesús Gabriel Rangel-Peraza; Leonel Ernesto Amabilis-Sosa**

Compliance with Mexican regulations in municipal wastewater treatment plants in Mexico. **Lilian E. Domínguez-Montero, Héctor M. Poggi-Varaldo, Blanca E. Jiménez Cisneros, Sergio Caffarel -Méndez, Eduard de la Cruz Burelo, Rosa Olivia Cañizarez-Villanueva, Eugenio Frixione-Garduño, Miguel A. Pérez-Angón**

Ampicillin biotransformation by a nitrifying consortium. **J.J. Ramírez Muñoz, D.I. Bejarano Ortiz, F.M. Cuervo López, A.C. Texier**

Bioremediation of red dye by halophilic strain isolated from saline soils of Sonora Mexico. **Avilés Saucedana Ana Isabel, Tabares Escamilla Luis, Estrada Alvarado María Isabel; Cira Chávez Luis Alberto.**

Grafting of activated montmorillonite with N-[3-(trimethoxysilyl)propyl]ethylenediamine for Cr(VI) removal. **F. Agosto, M. Muñoz, C. Cabello and N. Fellenz**

Oxidation of ammonium and benzotriazole in a sequencing batch reactor. **M.L. Aceves Zamora, F.M. Cuervo López, A.-C. Texier**

Effects of the expired drugs on activated sludge treatment of effluents. **Georgina Fernández Villagómez; Edson Matías González; Hector Mario Poggi Varaldo**

Copper adsorption test by marine microalgae. **M.R. Martínez-Macias, R.J. Aguilar-Ruiz, D. I. Sánchez-Machado, J. López-Cervantes. Y. Villegas-Peralta, M. A. Correa-Murrieta.**

Effect of enrofloxacin on the growth and biochemical composition of *Chlorella* sp. **Aguilar Alvarez, A. M., Burboa Charis, V. A., Ulloa Mercado, R. G., Gortáres Moroyoqui, P., Rentería Mexía, A. M., Leyva Soto, L. A., Hernández Chávez, J. F.**

Metal bioremediation performed by native algae isolated from the Reconquista River. **Ferraro G, Areco MM, Passucci V, Bagnato C, Toranzo R, Castiglioni D, Curutchet G**

Removal efficiency of organic matter in a sequential batch activated sludge. **A. N. Salinas-Pacheco, C. Estrada-Vázquez, E. Peralta-Reyes, A. Regalado-Mendez**

Topic: Environmental Biotechnology (10)

Heterologous expression of *Aspergillus niger* Phytase A in *Pichia pastoris*. **D. Niño-Gómez, V. González-Méndez, R. Poutou-Piñales, C. Rivera-Hoyos**

Development and evaluation of hybrids membranes to inactivate *E.coli* in a photocatalytic process. **López Vega, D. V, Pérez Rodríguez F. , Arriaga García, S.L, Acosta González, G.E.**

Evaluation of bioaerosols emitted by a biofilter treating ethyl acetate and toluene vapors. **Valdez, Mariana, Flores, Ana, Arriaga, Sonia**

CO₂ biomitigation from flue gas by *Scenedesmus obtusiusculus* using a hybrid photobioreactor. **Adrián Estrada, Sergio Hernández, Marcia Morales**

“Effective” microorganisms for sustainable development. **Pierre Christen, Anne Marie Farnet, Catherine Rébufa, Pascal Dantinne, Dorian Felix**

Improved use of an organic waste (urine) to increase the omega 9, 6 and 3 fractions in *Chlorella sp.* **Canino Gómez J C, Alcalá Rodríguez M M , Morones J R, Limón Rodríguez B**

Influence of assay conditions on the recombinant POXA 1B laccase activity detection. **L.D. Ardila-Leal , M.C. Ferrucho-Calle , C.M. Rivera-Hoyos, A.M. Pedroza-Rodriguez, B.E. Quevedo- Hidalgo, R.A. Poutou-Piñales, D.C Niño-Gómez.**

Rhamnolipid and pyocyanin metabolites produced by *Pseudomonas aeruginosa* in a stirred tank reactor. **Carolina Guatemala Hernández, Abdi Escalante Sánchez, Maricruz Hernández Cruz, Josefina Barrera-Cortés.**

Method Validation based on Capillary Electrophoresis for Extraction and Quantification of 17-β Estradiol in Biological Matrices. **Morales JM , Díaz CA , Ulloa-Mercado RG , Burboa-Charis VA , Hernandez-Chavez JF.**

Anthocyanins in the growth of *V. americana* in front of the unbalance C/N/P. **Hernández-Rodríguez, J.A., Ruiz-Carrera, V. , Salcedo-Meza, M.A., Sánchez, A.J.**

Mezcal vinasses as inducer of laccase enzyme from *Trametes versicolor* in batch submerged bioprocess. **VS Robles-González , IV Robles-González and S Castillejos-Márquez**

Response of biotized *Fouquieria splendens* callus to cadmium. **V.A. Salinas-Patiño , M. García-Pineda , M.R. Espinoza Mellado , A.V. Rodríguez-Tovar and A. Rodríguez-Dorantes**

Biotechnological potential of native strains of *Trichoderma* based on enzyme activities and biocontrol against *Fusarium*. **D.J. Hernández-Melchor, R. Ferrera-Cerrato , A. Alarcon**

Sulfate reduction and batch anaerobic digestion of olive oil wastewaters by an undefined mixed bacterial culture passively immobilized on crushed olive cores. **Abdel-Ilhah Qatibi , Fatima Chamkh, Radia Bouterfas and Rhizlane Bennisse**

Biotechnological approach for the treatment of industrial wastes with high metal content. **Rojas-Avelizapa Norma G, Moreno-Villanueva Fernanda , Gómez-Ramírez Marlene**

	<p>Effect of silver concentration and extracellular filtrates of <i>Alternaria alternata</i> on AgNP production. Martinez Diana G, Rojas-Avelizapa Norma G., , Gómez-Ramírez Marlene</p> <p>Antiviral activity of <i>Brazilian propoli</i> extract. Silva-Beltrán N.P., Encinas-Valenzuela K.L, Balderrama- Carmona A.P., Umsza Guez M.A, Souza Machado B.A, Barreto G.A</p> <p>Effect of fishmeal replacement with a vegetable protein mixture on the generation of residual compounds in shrimp culture <i>litopenaeus vannamei</i> in low salinity. J.C. Gil Núñez, R. Casillas Hernández, R. Servín Villegas, F.J. Magallon Barajas, R.A. Bórquez López, J.R. González Galaviz, M.B. Flores Pérez.</p> <p style="text-align: center;">Topic: Sustainability and Environmental System Analysis (02)</p> <p>Temporal and seasonal balance of nutrients in the Culiacan river basin: eutrophication effect in the lower basin. Mendivil-Garcia, K., Amabilis-Sosa, L.E., Rodríguez-Mata, A., Rangel-Peraza, J.G., Cedillo-Herrera, C.I.G.</p>
19:00- 19:30	<p style="text-align: center;">Dinner (Club ITSON, campus Nainari) Folk dance (Tosali Sewa Group) and Music Group (Aakame) (Club ITSON, campus Nainari)</p>

THURSDAY, NOVEMBER 8 th				
Time	Activity	Place		
08:00-09:00	Registration	Tutorias Room (ITSON Campus Nainari)		
Oral Session (Tutorias Room)				
	Room 1 Moderator: Juan F. Hernández	Room 2 Moderator: Ricardo Terminel	Room 3 Moderator: Luis Cira	Room 4 Moderator: Eduardo Dévora
09:00-09:05	Presentation			
09:05-09:20	Biogas production and characterization from different mixtures of agro-industrial wastes. I. Silva-Ortiz, A. Pérez-Hernández, I. Pérez-Reyes, S. B. Pérez-Vega, C.E. Molina-Guerrero, I. Salmerón.	Removal of oxytetracycline, enrofloxacin, and COD in aerobic biofilter packed with residue of cob. Romero-Soto I.C. , O. Dia, L.A. Leyva-Soto, P. Drogui, G. Buelna, L. M. Díaz-Tenorio, R. G. Ulloa-Mercado P. Gortáres-Moroyoqui,	Physicochemical changes and fatty acid profile during bioremediation of palm oil polluted soil using amendments. J.A. Rojas Alejo, M. Barajas Aceves, G. G. Medina Mendoza, E. Ríos Leal, O. Gómez-Guzmán, G. Calva Calva, N. A. Rivera Casado.	Health risk assessment for drinking water consumption in communities near from Cuitzeo Lake, Michoacán, México. L.N. Rodríguez- Cantú, M.M. Meza- Montenegro, M.A. Martínez-Cinco, M.M. Navarro-Farfán, R. Alfaro Cuevas-Villanueva.
09:20-09:35	Inhibition of hydrogen production by sodium polyacrylate from dark fermentation of a diaper-like substrate. Perla X. Sotelo-Navarro, Héctor M. Poggi-Varaldo, Sylvie J. Turpin-Marion	Chloramphenicol elimination in aquaculture wastewater using electrooxidation. Romero-Soto I.C., O. Dia, L.A. Leyva-Soto, P. Drogui, G. Buelna, L. M. Díaz-Tenorio, R. G. Ulloa-Mercado, P. Gortáres-Moroyoqui.	Isolation of biosurfactant producing microorganisms obtained from marine sediments and their application in biodegradation. Daniel Morales, Fernando Martinez, Maria del R. Trejo	Heavy Metals and Boron in Water, Sediments and Soils of the Ciénega de Chapala, Michoacán. An Environmental Risk Assessment. H. Andrade Prado, M. A. Velázquez Machuca, J. L. Pimentel Equihua.
09:35-09:50	Antibiotic resistance genes identification in bacteria isolated from Ciudad Obregon, Sonora, Mexico hospitals. Fregoso-Gómez J.A., Hernandez-Bautista F., Frías-Alcalá L.A., Ulloa-Mercado R.G., -, Gortares-Moroyoqui P.	Oxytetracycline removal in porcine wastewater through an electrooxidation system using a photovoltaic panel as power supply. Osuna-Lizárraga S.D.E., Romero-Soto I.C., L.A. Leyva-Soto, L. M. Díaz-Tenorio, R. G. Ulloa-Mercado P. Gortáres-Moroyoqui.	Biodegradation of hydrocarbon-contaminated sediments: Using microbial bioelectrochemical systems. B. Cruz sotelo, E. Alvizo, L. Vega-Alvarado, A. Álvarez Gallegos, K. Juárez Lopéz	Concentration of lead (pb) in muscle and hepatic tissues in estuarine fishes from the south of Sinaloa (gulf of california). Brigitte Gil-Manrique, Omar Nateras-Ramírez, Ana I. Martínez-Salcido, Jorge Ruelas-Inzunza, Felipe Amezcua.

09:50-10:05	Effect of cellulose acetate on the mechanical properties of thermoplastic corn starch molded by extrusion-injection. Miguel A. Pablo Calderón, Ángel Hernández Martínez, Miguel Chávez Gutiérrez	Evaluation of physiological development of <i>Salicornia bigelovii</i> exposed to antibiotics during the phytoremediation of shrimp aquaculture wastewater. Molina-Avila B., López-Heraldez V., Escoboza-Barceló D., Leyva-Soto L., Gortáres-Moroyoqui P.	Searching for proteins with capacity to break the urethane group in <i>Alicyclophilus</i> sp. BQ1, a bacterium capable to degrade polyurethane. J. Fuentes-Jaime, M. Vargas-Suárez and H. Loza-Tavera.	CO ₂ generated in the construction of a social housing by using regional materials in the city of Obregón Sonora, México. H. Aceves Gutierrez, O. López Chávez, J.L. Arévalo Razo, L. A. Cervantes García, G. Ayón Murrieta, J. M. Campoy Salguero, J. R. Osuna Corona
10:05-10:20	Evaluation of the culture of <i>Dunaliella tertiolecta</i> in f/2 Guillard and effluent of shrimp with variable temperature in biomass production. Hernández-Ferreira J.J., Ortega-Clemente L.A., Valadez-Rocha V., Pérez-Legaspi I.A., León-Rangel E	Evaluation of atrazine effect on <i>Salicornia bigelovii</i> growth indicators during agricultural wastewater remediation. López Heraldez, V., Escoboza Barceló, D. O., Molina Ávila, B. G., Leyva Soto, L. A., Gortáres Moroyoqui, P.		
10:30-11:30	PLENARY CONFERENCE: Dr. Gerardo Buelna. INRS, Canada Treatment of liquid and gaseous effluents with organic packing biofilters.			
11:30-12:00	COFFE BREAK			
12:00-13:30	SYMPOSIUM			
	ROOM 1	ROOM 2	ROOM 3	ROOM 4
	Soil, Sediment, Groundwater and Aquifer Remediation (03)	Solid and Hazardous Waste Management and Treatment (05)	Green Materials and Biomaterials (04)	
13:30-15:00	LUNCH TIME			
15:00-17:00	ORAL SESSION (Tutorias Room)			
	Room 1 Moderator: Reyna Sánchez	Room 2 Moderator: Roberto Candal	Room 3 Moderator: Carlos Escamilla	Room 4 Moderator: Georgía González
15:00-15:15	Evaluation of the consumption of glucose of <i>Chlorella</i> and <i>Scenedesmus</i> immobilized in alginate beads in synthetic wastewater. J. M. Jordán Esquer, L. A. Leyva Soto	Influence of toilet paper and food waste addition in anaerobic digestion of domestic SEWAGE. Devson Paulo Palma Gomes, Manuella Lopes Figueiras, Ana Carolina Santos Freire Bonfim, Simone Machado Santos, Sávia Gavazza	A SNP from the gene STAT5A associated to days open in lactating Holstein cows managed under the warm weather conditions of the Yaqui Valley. R. Zamorano-Algandar, M.A. Sánchez-Castro, J.C. Leyva-Corona, M.G. Thomas, R.M. Enns, S. E. Speidel, J. F.	Removal of mercury by <i>Scenedesmus sp</i> as an alternative bioremediation method. I.C. Guauque Díaz, M. Peñuela Vásquez, A. Villegas Quiceno

			Medrano , G. Rincon , and P. Luna-Nevarez	
15:15-15:30	Effect of chlortetracycline on the growth and biochemical composition of <i>Chlorella sp.</i> Cortés Astengo, C., Burboa Charis, V. A., Ulloa Mercado, R. G., Gortáres Moroyoqui, P., Rentería Mexía, A.M. , Leyva Soto, L. A. ,Hernández Chávez, J. F.,	Removal of emerging pollutants (drugs) from hospital wastewater in organic bed biofiltration systems coupled to an electro-oxidation process. Javier Alejandro Navarro Franco, Marco Antonio Garzón Zúñiga, Patrick Drogui, Pablo Gortares Moroyoqui, Gerardo Buelna.	Preliminary study of bisphenol-A removal in water samples by a combined biocatalytic-ultrafiltration process at laboratory scale. Karen Avilez Cuahquentzi, Angélica Panohaya Rancho, Eduardo Torres Ramírez, Georgette Rebollar Pérez.	Bioremediation of metals from mine tailings by <i>A. thiooxidans</i> DSM 26636. Rivas-Castillo A. M., Gomez-Ramirez M. , Rojas Avelizapa N. G
15:30-15:45	Formation of aerobic granules in Sequential Batch Reactors (SBR) operated at different airflow velocity. Oucilane I. M. Alves, Julliana M. P. Araújo, Poliana M. J. Silva, Sávia Gavazza, Mário T. Kato, Lourdinha Florêncio	Removal of Hexavalent chromium by chromate tolerant halobacteria isolated from saline soils in Sonora, Mexico. Yépiz Gonzalez Armando, Estrada Alvarado María Isabel, Vásquez Murrieta Maria Soledad, Cira Chávez Luis Alberto.	Production of polyunsaturated fatty acids from crude glycerol, using strains of <i>thraustochytrium</i> Kinney. D. Silva Rodríguez and B. Quilodrán Toloza	Hyper-rhizogenesis <i>in vitro</i> in <i>Typha domingensis</i> . Hernández-Piedra, G., Ruiz-Carrera, V. , J. Sánchez A. , Calva-Calva, G.
15:45-16:00	Optimization of the malathion degradation process by advanced oxidation using an electrochemical reactor. Manuel Antonio Reyes-Prado, Jesús Gabriel Rangel-Peraza, Yaneth Alejandra Bustos-Terrones, Leonel Ernesto Amabilis Sosa, Sait Omar Cristerna Sosa	Radish production in soils amended with treated sewage sludge. Mancho C, Pinilla P, Gil-Díaz M, Sastre-Conde I, Alonso J, Gutiérrez A, Lobo MC.		Removal of copper from simulated wastewater using cross-linked chitosan beads with <i>Aspergillus australensis</i> biomass, alginate and TPP. Ana G. Contreras-Cortés, Francisco J. Almendáriz-Tapia, Armando Burgos-Hernández, Francisco Rodríguez-Félix, Manuel A. Quevedo-López, Agustín Gómez-Álvarez, Maribel Plascencia-Jatomea.
16:10-17:10	PLENARY CONFERENCE: Dr. Francisco Deive. Universidad de Vigo Designing novel biocompatible separation platforms for achieving more sustainable environmental and biotechnological processes.			
17:10-17:30	COFFE BREAK (Club ITSON Garden)			

POSTER SESSION (Club ITSON Garden)

Topic: Renewable and Alternative Energies and Biorefineries (01).

Environmentally relevant concentrations of glibenclamide induce oxidative stress in common carp (*Cyprinus carpio*). **Martínez-Viveros E.M.G., Dublán-García O., Gómez-Oliván L.M., Islas- Flores H. , Galar-Martínez M., Hernández-Navarro M.D.**

Valorization of microalgal biomass cultivated in 200 l raceway using piggery wastewater as substrate. **Fernández-Linares, L.; González Farfán, K.; Flores Aguilar, E.; Gutiérrez Márquez, A.**

Designing and Building Solar Concentrator Lineal Kind Fresnel. **J. Álvarez-Sánchez, J. Bernal-Tolano, C.A. Duarte-Ruiz, G.E. Dévora-Isiordia, J. Saldívar-Cabrales.**

Design of a low environmental impact prototype for the manufacture of bricks from lignocellulosic residues. **J. C. Paredes Rojas, B. Bravo Diaz , S. M. García Solares, A. Flores Vela, F. J. Márquez Rocha**

17:30-19:00

Physical-chemical Characterization of Wheat Straw during a Continuous Pretreatment Process. **C. E. Molina-Guerrero, G. de la Rosa, H. Castillo-Michel, A. Sánchez, C. García-Castañeda, A. Hernández-Rayas, I. Valdez-Vazquez, S. Suarez-Vázquez.**

Application of high gain non-linear observers in the estimation of inorganic carbon in photobioreactors. **A.E. Rodríguez-Mata, J.L. Robles Magdaleno, M. Farza, G. Flores-Colunga, L. Amabilis-Sosa . G. Rangel-Peraza and A. Roé-Sosa**

Aquaponic system for *Salicornia bigelovii* cultivation. **Escoboza-Barceló D. O., Gortáres-Moroyoqui P.**

Effect of *Nannochloris oculata* added in a commercial diet, on growth and survival of *Litopenaeus vannamei* infected with *Vibrio parahaemolyticus*. **García-Medel D.I., Luna-González A., Ortega-Clemente L.A., Álvarez-Ruiz P., Pérez-Rostro C.I.**

Effect of water depth and plant density in rooting of the energy crop *Arundo donax* L. for propagation by stems. **Cano-Ruiz J, Amorós M.C,Sáez-Marugán D, Montalvo S.G, Lobo M.C, Mauri P.V, Ruiz-Fernández, J.**

Removal of fermentation inhibitors from acid hydrolyzates of the organic fraction of municipal solid waste by adsorption with powdered eggshell waste. **H. M. Poggi-Valardo.; E. Hernández-Correa , M. T. Ponce-Noyola , G. Mercado; L. Romero-Cedillo, E. Ríos-Leal.**

Topic: Soil, Sediment, Groundwater and Aquifer Remediation (03)

Study of the relationship between the concentration of Pb, As and Hg with the pH in soils of mine tailings for phytostabilization in an area of Morelos-Zacatecas. **Luis Enrique Silva Aparicio, Consuelo Letechipía de León, Rebeca Basurto Gaytán, Héctor René Vega-Carrillo, Víctor Martín Hernández Dávila, Ana Isabel Veyna Gómez.**

Identification of native plant species from an area with mining history in Morelos-Zacatecas and possible potential for phytostabilization. **Rebeca Basurto Gaytan, Consuelo Letechipía de León, Luis Enrique Silva Aparicio, Ana Isabel Veyna Gómez, Héctor René Vega Carrillo., Miguel Ángel Salas Lúevano.**

Test of chlordecone dechlorination by chemical reduction using Fe(II)/Fe(III)-oxides coupling. **Jean-Pascal ANDRAUD, Stéven CRIQUET, Benjamin OURSEL, Stéphane GREEF, Thierry WOIGNIER, Hervé MACARIE.**

Evaluation of soil physical and chemical properties of degraded lands of Hermosillo Coast, Sonora Mexico. **H. Celaya Michel, M. A. Barrera Silva, R. F. Osuna Chávez, y J. Sosa Castañeda.**

Assessing long-term impact of zero-valent iron (nZVI) nanoparticles on soil microbial community function. **P. García-Gonzalo, M.M. Gil-Díaz, E. Arroyo, E. Rodríguez-Valdés, J.R. Gallego, M.C. Lobo.**

Metal removal capacity by microalgae and effect on growth. **R.J. Aguilar-Ruiz, M.R. Martínez-Macías, D.I. Sánchez-Machado, J. López-Cervantes, G. E. Dévora-Isiordia.**

Characterization and whole genome sequencing and analysis of a hydrocarbon-degrading negativicute isolated of sediment from the Gulf of México. **L Escobar, P Lara, K Juarez.**

Biodegradation of Aromatic Polycyclic Hydrocarbons by Endophytic Fungi of Ecuadorian Amazon Rainforest. **Marín F., Portero C., Narváez A.**

Production of glycolipid Biosurfactants by bacterial strains isolated from marine environments. **Curriel Maciel N.F Martínez Morales F., Rosas Galván N.S., Bertrand B., Morales Guzmán D., Trejo Hernández M.R.**

Impact of pesticides on environmental and perspectives of in silico bioremediation: Review. **B. Camacho-Perez, E. Andrade-Collantes, S. Montaña.**

Tolerance to Cd and As in barley plants enhanced by Sulphur. **Gil Diaz M, Pérez Rízquez C.A, Mancho C, Alonso J, González A, Lobo M.C.**

Tentative baseline values of less frequently regulated elements in urban park soils of Alcalá de Henares, Spain. **Antonio Peña-Fernández, Gevorg Tepanosyan, M. Carmen Lobo-Bedmar**

Topic: Green Materials and Biomaterials (4)

Evaluation of the antibacterial in vitro activity of essential oils of oregano and thyme against *Ralstonia solanacearum*. **Rueda Puente, E. O., López Ahumada G. A., Rodríguez Félix F., Vargas Juan M., López-Corona, B. E., Mondaca Fernández, I., Gortáres Moroyoqui, P., Andrade Bustamante, G., and Martínez Ruíz, E.**

Application of cellulose of three pine species with recycled fibers to manufacture corrugated paperboard components. **Teófilo Escoto Garcia, Janet Jiménez Castro, Héctor Jesús Contreras Quiñones and Raul Vega Elvira.**

Urease and Carbonic anhydrase activities of ureolytic bacteria in an enriched and unenriched concrete pore solution **M.J. Castro Alonso, L.E. Montañez Hernández, M. A. Sánchez Muñoz, R. Narayanasamy, M.P. Luévanos Escareño, N. Balagurusamy.**

Physical-Chemical characterization sabila biopolymer (Aloe vera). **Gálvez Chan R .A, Alvarez Sánchez J, Silva Encinas G. O , López Cuero I, Paredes Gálvez P. A.**

Implementation of *Vetiveria Zizanoides* in the extraction of chrome on a contaminated site. **V Calbo , C de Armas , M C Baldo**

Evaluation of the radial growth and germination of toxigenic fungi in the presence of chitosan. **C.A., Sañudo-Ruiz, M.I., Estrada-Alvarado , L.A., Cira-Chávez , M., Plascencia-Jatomea.**

Protonated cross-linked chitosan to remove Cr (VI) from liquid residue generated in COD analysis. **Correa-Murrieta, M.A., Sánchez-Duarte, R.G., Martínez-Macías, M.R. , Villegas-Peralta, Y., Villa-Coronado, K.A., Dévora-Isiordia, G.E., Álvarez-Sánchez, J.**

Ozonation OF THE Emu oil for THE therapeutic purposes and its ANTI-inflammatory evaluation in vivo. **Daniel M. Márquez-López, Sergio O. Flores-Valle, Tatiana Poznyak, Tomás A. Fregoso-Aguilar, Ricardo E. Peralta-Robledo.**

Organic material (Food and loss waste) physicochemical characterization and quantification for uses in biotechnology". **Cordova- Flores, S., Toribio-Cuaya, H. , Pedraza-Segura, L. , García-Solares, S.M., Neri-Torres, E.E.**

Evaluation of alternative nitrogen sources in the production of polyhydroxybutyrate by *Halomonas boliviensis*. **DE Marsiglia López, NA Gómez Vanegas , AP Villegas Quiceno.**

Production of poly- β -hydroxybutyrate from whey fermentation and extraction of the biopolymer with green solvents. **A.B. Holguin-Loya , S.B. Perez-Vega , C. E. Molina-Guerrero, I. Pérez-Reyes , V. H. Ramos Sanchez , I. Salmerón.**

Rentability of water hyacinth in a biorefinery model. **Arnaud Darmuzey, Isabelle Gaime Ernesto Favela-Torres.**

Fluorescent protein from *Stomolophus* sp. 2: an extreme pH indicator protein. **Martínez-Peréz, R.B., Rodriguez, J., Rentería-Mexía, A.M., Díaz-Tenorio, L.M.**

Biological synthesis of iron nanoparticles: an overview. **Leticia Romero-Cedillo ⁽¹⁾, Héctor Mario Poggi-Valardo*⁽²⁾, Luz Bretón-Deval ⁽³⁾, Vania Shuhua Robles-González.**

PVA electrospun mats containing viable bacteria for water remediation. **C. Duca, L. Guz , S. Estévez-Areco, J. Cimadoro , S. Goyanes , R. Candal**

Topic: Solid and Hazardous Waste Management and Treatment (5)

Pedobacter sp.3.14.7 a keratinolytic bacteria that produces a feather protein hydrolysate with high antioxidant activity. **B Bezus, F Ruscasso, G Garmendia, S Vero, G Curutchet, S Cavalitto, I Cavallo.**

Organic Soil Fertility Management and Tool to Combat the Cumulative Effect of Pesticides and Chemical Fertilizers in Soil. **Attia. R , Chourabi.H , Sifaoui.K , Hajlaoui.H.**

Heavy metal and petroleum hydrocarbons removal efficiency of chitin powder and flakes. **M.E. Pérez-Cruz, A.C. De León-Cisneros, S. García-López, I.E. Jacobo-Herrera, A.C. Campa Mada, A.R. Toledo, M.A.G. Corella Madueño, K.G. Martinez- Robinson.**

Topic: Risk Assessment and Environmental Impact (8)

Hydrogeochemical and bacteriological assessment of potable water in Taxco de Alarcón, Guerrero, Mexico, a mining site. **G. Sánchez Montoya, O. Talavera Mendoza, G. Hernández-Flores, E. Díaz Villaseñor, A.H. Ramírez Guzmán, Z. Galarza Brito.**

An ethical and environmental perspective of technology that incorporates genetically modified organisms into food. **Yáñez-Vergara A.G., Sanabria-García, D. A., Carrasco-González, J. A., García-Moreno, T.N. , Poggi-Valardo, H. M.**

Comparison of the environmental impacts of wheat production using chemical versus biofertilizers using a Life Cycle Assessment. **Ismael Fragososa, Robert Handler, Sergio de los Santos-Villalobos, María Fernanda Lares-Orozco, Agustín Robles-Morúa.**

	<p>Environmental impact on the river water quality using multivariate statistical techniques. Elizabeth Ríos-Ramos, José A. de Diego, Luz Breton-Deval.</p> <p>CO2 generated in the construction of a social housing by using regional materials in the city of Obregón Sonora, México. H. Aceves Gutierrez, O. López Chávez, J.L. Arévalo Razo, L. A. Cervantes García, G. Ayón Murrieta, J. M. Campoy Salguero, J. R. Osuna Corona.</p> <p>Life Cycle Assessment of a biofertilizer production process from wasted fats. S. Carlos Hernández, L. Díaz Jiménez.</p> <p>Bioindicators of As, Pb and Hg in irrigation water, soil and chile (<i>Capsicum Annuum</i>) in an agricultural area near to mine tailings. D.M. Orozco Corona, C. Letechipía de León, H. R. Vega Carrillo, I. Gavilán García.</p> <p>Exposure to Glyphosate and Aminomethylphosphonic acid in Communities of Northwestern Mexico. Balderrama-Carmona A.P., Flores-Gil J.A., Leyva-Soto L.A., Morán-Palacio E.F.</p> <p>Germination toxicity tests in fireworks contaminated soils using seeds of radish (<i>Raphanus sativus</i>) and corn (<i>Zea mays</i>). IV Robles-González, VS Robles-González, J Zafra-Soto and A Ordaz-Cortés.</p> <p>Enviromental impact by extraction of marble rocks in the north part of the municipality of Ramos Arizpe. Joel Andrés Iglesias- Galván, Josué Raymundo Estrada-Arellano, Cecilio Arreola-Chapa, Ancelmo Orona-Espino, Jose Luis Estrada-Rodriguez.</p> <p style="text-align: center;">Topic: Environmental Biotechnology (10)</p> <p>Processing of marine derived chitosan for use as a biofertilizer and its influence on the lipid and growth capacity of <i>Salicornia bigelovii</i>. López-Corona, B. E. , Mondaca Fernández, I., Rueda Puente E. O. , Gortáres Moroyoqui, P. , Meza Montenegro, M. M. , Balderas Cortes J. de J. & Vargas López, J. M.</p>
19:00-20:00	<p>Visit to Museums: Sonora in the Revolution or Yaqui</p>

FRIDAY, NOVEMBER 9 th				
Time	Activity			Place
	Oral sesión (Tutorías Room)			
	Room 1 Moderator: Ana Renteria	Room 2 Moderator: Ma. Isabel Estrada	Room 3 Moderator: Erika Mendoza	Room 4 Moderator: Karla Herrera
09:00- 9:05	Presentation			
09:05- 9:20	Wastewater and acid mine drainage treatment by microbial fuel cells. L.S. Vélez-Pérez, G. Hernández-Flores, H.M. Poggi-Varaldo, O. Talavera Mendoza, O. Solorza-Feria, J.A. López-Díaz	PM2.5 concentration in the urban area of Aguascalientes, México, during winter and summer. J. A. González-Torres, E. M. Ramírez-López, J. J. Meraz-Jimenez, H. A. Balzen, D. Ramírez, Rangel-Jiménez	Removal of pharmaceuticals with a constructed wetland of subsurface flow and characterization of the bacterial communities at the rhizosphere. Zapata Morales A. , Alfaro de la Torre C., Garcia de la Cruz R., Hernandez Morales A.	Urban mines, recovering rare earth elements from waste printed circuit boards (WPCBs) through bioleaching. A. Gonzalez Baez, D. Purchase, H. Garelick, L. Pantoja Muñoz
09:20- 9:35	On site sanitation in Puerto Angel, Oaxaca, by anaerobic septic tanks. Luz. Dehni Acosta-Moyado, Alejandro Regalado-Méndez, Héctor Poggi-Varaldo, Carlos Estrada-Vázquez	Empowerment of communities for the use and exploitation of sanitation services. Julliana M. P. Araújo, María A. P. Cecílio, María V. R. Ramos	PGPR traits of isolates obtained from the rhizospheric bacterial community of <i>Echinocactus platyacanthus</i> . LI Salinas-Virgen, ME de la Torre-Hernández, JF Aguirre-Garrido, HC Ramírez-Saad.	Recovery of nickel cadmium and cobalt from lixiviates of disposal batteries through electrodeposit in a parallel plate reactor. Liliana Altamirano-García, Vianey González Romero, Edgar Pérez Díaz, Rosa María Luna Sánchez

09:35- 9:50	Evaluation of physicochemical changes on activated carbon fibers surface used as redox mediator in 4-nitrophenol biotransformation process. J. P. García-Rodríguez, H. J. Amezcuita-García, C. Escamilla-Alvarado, J. R. Rangel Mendez, P. Rivas-García, J. Cano-Gómez, M.M. Alcalá-Rodríguez	Water quality assessment in an aquatic ecosystem in Jalisco, Mexico. Edgardo Martínez-Orozco, Luz Stephanie Valadez-Romo, Irma Julieta González-Acuña, Juan Napoles-Armenta, Celia De La Mora-Orozco	Pitting and general corrosion generated by acetic and butyric acids produced by <i>Clostridium celerecrescens</i> on the api xl 52 steel surface. O.A. Ramos Monroy, N. Ruiz Ordaz, C. Juárez Ramírez, J. Galindez Mayer.	Pilot-scale evaluation of a phytoremediation process of mining soils using <i>Jatropha curcas</i> , in northern Colombia. M Viña Pico, S Burgos Nuñez, I Urango Cardenas, G Enamorado Montes, J Marrugo Negrete
9:50- 10:05	Wastewater as a substrate for the growth of <i>Thraustochytrid</i> native strain, VAL-B1.C. R. Navarro Oyarzo, S.I. Sáez Elgueta, B.H. Quilodrán Toloza	Distribution and fractionation of heavy metals in surface sediments of the Bacanuchi river, Sonora, Mexico. León-García, G.J. , Meza-Figueroa, D.M. , Valenzuela-García, J.L. , Encinas-Romero, M.A., Villalba-Atondo, A.I. , Encinas-Soto, K.K. , Gómez-Álvarez, A.		
10:30- 11:30	PLENARY CONFERENCE. Dr. Hervé Macarie. Aix Marseille Université, IRD, France Last news about the microbial biodegradability of the organochlorine insecticide chlordecone and the possibility to set up soil bioremediation.			
11:30- 11:50	COFFEE BREAK			
11:50- 12:40	PLENARY CONFERENCE. Dr. María Isabel Sastre Conde. SEMILLA – INAGEN, Spain <i>The water and carbon footprint in agriculture as partners in environmental sustainability</i>			
12:40-13:30	CLOSING CONFERENCE. Dr. Hector M. Poggi Valardo. CINVESTAV, México Microbial electrosynthesis cells: commodities or value added products?			
13:30- 14:00	Closing CEREMONY			
14:00	Lunch (Club ITSON, campus Nainari) ITSON TUNA Music Group (Club ITSON, campus Nainari)			

Plenary Conferences Program

Monday, November 5 (ITSON Theater)

17:30 – 18:30: Opening Conference. Dr. Octavio Paredes López. *Agrobiotechnology – Beneficial aspects and ecological impacts.* CINVESTAV, México.

Tuesday, November 6 (Tutorias room)

10:30 – 11:30. Dr. Cristobal Chaidez Quiroz. *Fate, occurrence and risk assessment of waterborne pathogens in the environment.* CIAD, México

16:00 – 17:00. Dr. Charles P. Gerba. *The importance of viral biodiversity in assessing virus removal by wastewater treatment processes and risk assessment.* **The University of Arizona, USA.**

Wednesday, November 7 (Tutorias room)

10:30 – 11:30. Dr. Francisco Javier Cervantes Carrillo. *Impact of humic substances on global biochemical cycles.* IPICYT, México

16:00 – 17:00. Patrick Drogué. *Electro-technologies in Water and Wastewater treatment: Future trend for decentralized sanitation and water treatment in extreme conditions.* INRS, Canada

Thursday, November 8 (Tutorias room)

10:30 – 11:30. Gerardo Buelna. *Treatment of liquid and gaseous effluents with organic packing biofilters.* INRS, Canada

16:00 – 17:00. Francisco Deive. *Designing novel biocompatible separation platforms for achieving more sustainable environmental and biotechnological processes.* **Universidad de Vigo, Spain.**

Friday, November 9 (Tutorias room)

10:30 – 11:30. Hervé Macarie. Last news about the microbial biodegradability of the organochlorine insecticide chlordecone and the possibility to set up soil bioremediation. Aix Marseille Université, CNRS, IRD, France.

11:50 – 12:40. Dr. María Isabel Sastre Conde. *The water and carbon footprint in agriculture as partners in environmental sustainability. SEMILLA, INAGEA, Spain.*

12:40 – 13:30. Dr. Hector M. Poggi Varaldo. Microbial electrosynthesis cells: commodities or value added products. CINVESTAV, México.

All symposia will take place at Tutorias Room in Campus Nainari, ITSON

Tuesday, November 6, 12:00 – 13:30

Room 1

Risk Assessment and Environmental Impact (08)

Dr. Charles P. Gerba. Conference title to be announced soon. The University of Arizona

M.L Cinco Izquierdo, M.A. Martínez Cinco, M. M. Meza Montenegro, V.M. Ruiz García, R. Alfaro Cuevas-Villanueva, L.N. Rodríguez- Cantú. Health Risk Assessment for the consumption of Arsenic contained in fish in the Lake Communities of Cuitzeo Universidad Michoacana de San Nicolás de Hidalgo.

Cristobal Chaidez Quiroz, PhD. Conference title to be announced soon CIAD, México.

Room 2

Climate Change (11)

Francisco Javier Cervantes Carrillo, PhD. Emission of greenhouse gases from wastewater treatment plants and the way to prevent it. IPICYT, México

Jaime Garatuza Payán, PhD. Impacts of global warming on the wheat crop in the Yaqui Valley, Mexico. ITSON, México

Enrico A. Yépez González, PhD. Long term monitoring of ecosystem functional properties for climate change adaptability. ITSON, México

Room 3

Sustainability and Environmental System Analysis (02)

María Isabel Sastre Conde, PhD. Local soil salinization caused by irrigation of horticultural and fruit crops in Majorca, SEMILLA – INAGEN, Spain.

Nagamani Balagurusany, PhD. Whether seasonal and spatial variations of the microbial communities are linked to the efficiency of a lagoon type biodigester fed with animal manure? Universidad Autónoma de Coahuila, México.

Celia De La Mora-Orozco, Hugo Ernesto Flores-López, Álvaro Agustín Chávez-Durán, Irma Julieta González-Acuña, Juan Napoles-Armenta, Edgardo Martínez-Orozco. Levels and spatial distribution of pollutants in an aquatic ecosystem in western Mexico. Instituto Tecnológico José Mario Molina Pasquel y Henríquez, México.

Room 4

Microbial Ecology and Molecular Biology Applications to Environmental Problems (06)

Sergio de los Santos Villalobos PhD. Perspectives for understanding the microbial action modes involved in plant growth promotion. ITSON, México ITSON, México

P. García-Gonzalo, E. Arroyo, M.M. Gil-Díaz, M.C. Lobo, T. Martínez. Functional diversity of soil microbial communities in response to grazing intensity in a Mediterranean silvopastoral system

Enrique Navarro PhD. Organics Micropollutants in rivers of central high land of Mexico, Universidad Tecnológica de Izúcar de Matamoros, Puebla, México.

Wednesday, November 7, 12:00 – 13:30

Room 1

Wastewater Treatment (07)

Oscar Armando Monroy Hermosillo, PhD. Anaerobic digestion at the core of sustainable cities. Universidad Autónoma Metropolitana, México

María de Lourdes Florencio dos Santos, PhD. Aerobic granular sludge formation and nutrient removal in the treatment of low-strength wastewater under tropical condition. Federal University of Pernambuco, Brazil

Banda Y., Martínez S., Texier A.C. y Cuervo-López F.M. Evaluation of ampicillin mineralization in denitrifying sequencing batch reactors. Universidad Autónoma Metropolitana, México.

Room 2

Environmental Biotechnology (10)

Gerardo R. Buelna Acedo, PhD. Wastewater treatment in rural zones with organic packed biofilters case studies in Mexico and Canada INRS, Canada.

Ulises Durán Hinojosa, PhD. Conference title to be announced soon UNAM, México

Marco Antonio Garzón Zúñiga, PhD. Swine wastewater treatment for small farms by anaerobic-aerobic biofilters packed with volcanic rock and wood chips. CIIDIR-IPN, México

Room 3

Environmental Engineering

Herve Macarie, PhD. Anaerobic treatment of wastewater from chemical and petrochemical industry. Axe IRD, France

S Rodríguez-Valderrama, C Escamilla-Alvarado, P Rivas-García, M Alcalá-Rodríguez, J-P Magnin. A biorefinery using acid pretreatment, dark fermentation and anaerobic digestion for the production of biohydrogen and biomethane from fruit and vegetables wastes and corn stove. Universidad Autónoma de Nuevo León, México.

J. C. Paredes Rojas, F. J. Martínez Pineda, R. Vázquez Medina, R. A. Romero Merino, PhD. Analysis of pollutants emissions in a diesel engine using biodiesel as fuel. Centro Mexicano para la Producción más Limpia, IPN, México

Room 4

Renewable and Alternative Energies and Biorefineries (01)

Hector Poggi Varaldo, PhD. Conference title to be announced soon **CINVESTAV-IPN México.**

Bichot, A., Delgenès, J.P. , Méchin, V. , Radoiu, M., García-Bernet, D. Potential of microwave treatment in environmental biorefinery. INRA, France.

S. Carlos Hernández, L. Díaz Jiménez. Through a biorefinery concept to revalorize wastes fats, oil and greases. CINVESTAV-IPN-Salttillo, México.

Thursday November 8, 12:00 – 13:30

Room 1

Soil, Sediment, Groundwater and Aquifer Remediation (03)

P. García-Gonzalo, E. Arroyo, M.M. Gil-Díaz, M.C. Lobo, T. Martínez. Assessing long-term impact of zero-valent iron (nZVI) nanoparticles on soil microbial community function, el cual considerado en la modalidad de poster. IMIDRA, Spain.

A.A. Lopez Pacheco, M.V. Escárcega Bobadilla, L. Mondragón Camarillo, A.C. Hayano-Kanashiro, A. Varela-Romero, R. Vílchez-Vargas and K. Calderón. Nitrogen cycle function evaluation of an agricultural soil disturbed with Nickel and Zinc Salphen compounds. UNISON, México.

Room 2

Solid and Hazardous Waste Management and Treatment (05)

Natalia Porzionato, Agustina Ziliani, Celeste Grimolizzi, Ana E. Tufo, Susana Vázquez, Angela Cabezas Da Rosa, Gustavo Curutchet. Microbial diversity and contamination in Reconquista River

sediments: detection of bacteria with potential biotechnological applications. Universidad Nacional de San Martín.

Y. Maiga, S. Roussos, H. Macarie, A.S. Ouattara Isolation and characterization of fungal strains for the detoxification of Jatropha seed cakes by Solid State Fermentation. University of Ouagadougou, Burkina Faso.

K. Calderón, G. Bustamante-Noriega, V.M Reyes-Martínez, R.G Martínez-Meza, F.J Almendariz-Tapia and M.T Certucha-Barragán. Microbial community composition of biofilm developed on a zeolite fixed bed anaerobic bioreactor to treat nickel contaminated water. Departamento de Química e Ingeniería Metalúrgica, UNISON.

Room 3

Green Materials and Biomaterials (04)

Francisco Javier Deive Herva, PhD. Conference title to be announced soon. Universidad de Vigo, Spain.

Prados M.B., Lescano M.I., Barclay J.J., Sica M.P., Curutchet G. Biological production of graphene hydrogels for electrode applications in bioelectrochemical systems. Instituto de Energía y Desarrollo Sustentable, Centro Atómico Bariloche, Comisión Nacional de Energía Atómica, S. C. de Bariloche, Argentina.

Roberto Jorge Candal, PhD. Green and biodegradable materials for everyday applications. Universidad Nacional de San Martín, Argentina.