

19 <sup>th</sup> July	
9:00 AM	Opening Ceremony
9:30 AM	"Introduction of the group Management of chemical processes in the industrial chemistry / analytical chemistry" <i>Prof. Dr. Hans-Willi Kling (University of Wuppertal)</i>
10:00 AM	"Are advanced oxidation processes able to produce a safe effluent?" <i>Prof. Dr. Renato Falcão Dantas (School of Technology, UNICAMP)</i>
10:30 AM	Coffee Break/Poster Session
11:00 AM	"Processes based on Fenton reaction for the abatement of emerging contaminants" <i>Profa. Dra. Raquel F. Pupo Nogueira (Institute of Chemistry, UNESP)</i>
11:30 AM	"Analysis of halogenorganic degradation products formed due to the treatment of wastewater with advanced oxidation processes" <i>Prof. Dr. Marc Constapel (University of Wuppertal)</i>
12:00	Lunch
2:00 PM	"Sanitary wastewater disinfected with ozone and ozone/chlorine: Byproducts" <i>Prof. Dr. Gustavo Ribeiro (Bauru College of Engineering, UNESP)</i>
2:30 PM	"Ecotoxicological tests to assess the efficiency of advanced oxidation processes: suitability, sensitivity and perspectives" <i>Dra. Dania Mazzeo (Institute of Chemistry, UNESP)</i>
3:00 PM	"Layered double hydroxide as catalysts in heterogeneous photo Fenton degradation of the antibiotic sulfathiazole" <i>Nayara de Melo Costa – (Institute of Chemistry, UNESP)</i>
3:15 PM	"Photo-transformation of cephalosporin antimicrobials: speciation, matrix effects and ecotoxicological assessment" <i>Dr. Alyson R. Ribeiro (Institute of Chemistry, UNICAMP)</i>
3:30 PM	"Enrofloxacin degradation by a photo-Fenton-like process using irradiated Fe(III)-tartrate as an iron(II) source" <i>Dra. Cátia A. L. Graça – (Department of Chemical Engineering, USP)</i>
3:45 - 5:00 PM	Coffee Break/Poster Session
7:30 PM	Dinner

20th July	
9:00 AM	"Photo and electrocatalytic degradation of organics using TiO <sub>2</sub> -based electrodes" <i>Prof. Dr. Peterson Bueno de Moraes (School of Technology, UNICAMP)</i>
9:30 AM	"Flame retardants in waste and surface water: fate and challenges" <i>Dra. Joyce Cristale (School of Technology, UNICAMP)</i>
10:00 AM	"Continuous in situ H <sub>2</sub> O <sub>2</sub> production via electrochemical processes for applications in Advanced Oxidative Processes (POA)" <i>Prof. Dr. Marcos R. V. Lanza – (São Carlos Institute of Chemistry, USP)</i>
10:30 AM	Coffee Break/Poster Session
11:00 AM	"Reuse of water and the challenges to get a safe water" <i>Profa. Dra. Cassiana C. Montagner Raimundo (Institute of Chemistry, UNICAMP)</i>
11:30 AM	"Degradation of emerging micropollutants in aqueous media: case studies involving electron beam irradiation (EBI) and other advanced oxidation processes (AOP)" <i>Prof. Dr. Antonio Carlos S. C. Teixeira (Department of Chemical Engineering, USP)</i>
12:00	Lunch
2:00 PM	"Degradation of veterinary drugs by advanced oxidation processes: antimicrobial activity and acute toxicity" <i>Prof. Dr. José Roberto Guimarães (School of Civil Engineering, Architecture and Urban Design, UNICAMP)</i>
2:30 PM	"Broadband disinfection of wastewater with ClO <sub>2</sub> " <i>Prof. Dr. Helga Mölleken (University of Wuppertal)</i>
3:00 PM	"Zebrafish embryos bioassays as a tool for toxicity evaluation of advanced oxidation processes in water and wastewater treatment" <i>Dr. Rhaul Oliveira (School of Technology, UNICAMP)</i>
3:30 PM	Closing Ceremony
3:45 - 5:30 PM	Closing Cocktail

## Posters

- 01 ENROFLOXACIN DEGRADATION BY A PHOTO-FENTON-LIKE PROCESS USING IRRADIATED FE(III)-TARTRATE AS AN IRON(II) SOURCE  
*Beatriz Dalle Lucca, Cátia A. L. Graça, Antonio C. S. C. Teixeira*
- 02 PHOTO-TRANSFORMATION OF CEPHALOSPORIN ANTIMICROBIALS: SPECIATION, MATRIX EFFECTS AND ECOTOXICOLOGICAL ASSESSMENT  
*Alyson R. Ribeiro, Holger V. Lutze, Bernd Sures, Torsten C. Schmidt*
- 03 USE OF IRON MODIFIED CLAY CATALYST AND LED-UV-VIS REACTOR IN PHOTO FENTON HETEROGENEOUS PROCESS  
*Hernán Dario Rojas Mantilla, Saidy Cristina Ayala Durán, Raquel Fernandes Pupo Nogueira*
- 04 AGRO INDUSTRIAL WASTE AT REMOVING DIURON FROM DRINKING WATER  
*Vanessa Takeshita, Ana Paula Justiniano Régo, Kassio Ferreira Mendes, Rodrigo Floriano Pimpinato, Valdemar Luiz Tornisielo*
- 05 PREPARATION, CHARACTERIZATION AND USE OF NANOSTRUCTURED TiO<sub>2</sub> ELECTRODES DECORATED WITH ZnO FOR ELECTRO-ASSISTED PHOTOCATALYTIC TREATMENT OF DICLOFENAC  
*Belisa Lima Soares, Peterson Bueno Moraes*
- 06 4-AMINOANTIPYRINE DEGRADATION AND MINERALIZATION BY PHOTOELECTRO-FENTON USING A BORON-DOPED DIAMOND ANODE: OPTIMIZATION, USE OF MUNICIPAL SECONDARY EFFLUENT AND TOXICITY  
*Lucas de Melo da Silva, Fábio Gozzi, Rodrigo Pereira Cavalcante, Ignasi Sirés, Enric Brillas, Silvio Cesar de Oliveira, Amilcar Machulek Junior*
- 07 H<sub>2</sub>O<sub>2</sub> ELECTROGENERATION IN SOLUTION USING CARBON BLACK BASED GAS DIFFUSION ELECTRODES (GDE) MODIFIED WITH REDUCED GRAPHENE  
*L. C. Trevelin, R. S. Rocha, M. R. V. Lanza*
- 08 PHOTOELECTROCATALYTIC DEGRADATION OF THE TRIMETHOPRIM ANTIBIOTIC USING ZnO FILM ELECTRODES  
*Lorena Athie Goulart, Thaís Tasso Guaraldo e Marcos R. V. Lanza*
- 09 PHOTOELECTROCATALYTIC TREATMENT OF ANTICANCER DRUG MITOXANTRONE USING CuO NANOSTRUCTURED FILMS: IDENTIFICATION OF BY-PRODUCTS AND TOXICITY EVALUATION  
*Rodrigo Pereira Cavalcante, Ana Paula Pereira da Rosa, Débora Antonio da Silva, Lucas de Melo da Silva, Thalita Ferreira da Silva, Fábio Gozzi, Heberton Wender, Anita Brady-Boyd, Enda McGlynn, Gleison Antonio Casagrande, Silvio César de Oliveira, Amilcar Machulek Junior*
- 10 ALTERNATIVE USE OF THE ALLIUM CEPA TEST AS BIOINDICATOR OF GENOTOXICITY IN PHOTODEGRADED SOLUTIONS OF ISONIAZID  
*Débora Antonio da Silva; Rodrigo Pereira Cavalcante; Lucas de Melo da Silva; Amilcar Machulek Júnior; Silvio César de Oliveira*
- 11 REMOVAL OF ION CROMATE AND DICROMATE FROM INDUSTRIAL WASTEWATER USING EGGSHELL AS ADSORBENT  
*Giovanna S. Grous, Janaína S. Ferreira, José Ricardo Turquetti, André Luis de Castro Peixoto, Morgana Bosio*
- 12 DEGRADATION BY ELECTROOXIDATION AND NEURONAL TOXICITY OF BENZODIAZEPINES AND CARBAMAZEPINE COMPOUNDS  
*Morgana Bosio, Janaína S. Ferreira, Saggiro Enrico, Marcia Dezzoti, João Paulo Bassin, Rui Martins, Emília M Quinta-Ferreira, Rosa M. Quinta-Ferreira*
- 13 PHOTO-FENTON PROCESS APPLIED IN THE DEGRADATION OF AMOXICILLIN PHARMACEUTICAL COMPOSITIONS IN AQUEOUS SUSPENSION  
*Barbara Paviotti, Janaína S. Ferreira, Ademir G.C. Costalonga, André Luis de Castro Peixoto*
- 14 LAYERED DOUBLE HYDROXIDE AS CATALYSTS IN HETEROGENEOUS PHOTO FENTON DEGRADATION OF THE ANTIBIOTIC SULFATHIAZOLE  
*Nayara de Melo Costa, Hernán Dario Rojas Mantilla, Rosembergue Gabriel Lima Gonçalves, Celso Valentim Santilli, Raquel F. Pupo Nogueira*
- 15 THE COMBINATION OF HYDRODYNAMIC CAVITATION AND OZONE APPLIED TO LEACHATE TREATMENT  
*Janaína Domingos, Gabriela dos Reis, Wilson Venâncio, Mylena Cruz-Spina, José Roberto Guimarães, André Henrique Rosa*
- 16 CURRENT RESEARCHES OF THE RESEARCH GROUP FOR OPTIMIZATION OF ANALYTICAL TECHNOLOGIES APPLIED TO ENVIRONMENTAL AND SANITARY SAMPLES - GOTAS  
*Paulo Eduardo dos Santos Soldera, Renato Falcão Dantas Enelton Fagnani*
- 17 HOW EFFLUENT MATRIX CAN INFLUENCE DISINFECTION BY UV/H<sub>2</sub>O<sub>2</sub>  
*Jacqueline Aparecida Malvestiti, Raissa Olivia Barbacena, Renato Falcão Dantas*
- 18 EFFECT OF NATURAL BIOCHAR ON DICLOSULAM SORPTION AND DESORPTION ON AGRICULTURAL SOIL  
*Glaucia Peregrina Olivatto, Kassio Ferreira Mendes, Cássio de Souza Almeida, Leonardo Vilela Junqueira, Valdemar Tornisielo*