

**Sunday, April 15**

18:00  
20:00 Registration

**Monday, April 16**

08:15  
08:45 Registration

**OPENING SESSION:**

09:00	Opening talk <i>Jean-Yves HIHN, Chairperson</i>	
09:10	General Concl, Town council	
09:30	University of Franche-Comté	
09:45	<b>ESS AWARD</b>	From Stokes to Thorneycroft to Rayleigh to Loomis to Here <i>Suslick K. - Award Program of European Sonochemistry Society</i>
10:15	Coffee break	

**Session 1: FUNDAMENTALS ASPECTS.**

10:45	<b>PL-1</b>	Dynamics of flashing bubbles in multi-bubble sonoluminescence <i>Mettin R., Cairós C.</i>
11:30	<b>OC-1</b>	Sonochemical hydrogenation of metallic microparticles <i>Troia A., Olivetti E., Martino L., Basso V.</i>
11:45	<b>OC-2</b>	Acoustic mapping of a liquid - solid fluidized bed under power ultrasound <i>Grosjean V., Julcour C., Louisnard O., Barthe L.</i>
12:00	<b>OC-3</b>	Acoustic Cavitation at 100 kHz: the Missing Link between Low- and High-Frequency Ultrasound <i>Ji R., Pflieger R., Virost M., Nikitenko S. I.</i>
12:15	<b>IL-1</b>	Sonoluminescence Spectroscopy in Ionic Liquids <i>Pflieger R., Lejeune M., Nikitenko S.I., Draye M.</i>
12:45	Lunch	

**Session 2: ULTRASONIC PROCESSING.**

14:00		Introduction to Chemical Engineering <i>Pandit A.</i>
14:15	<b>IL-2</b>	Mixed Metal Oxides and Metal-Metal Oxides Hetero Junctions for Efficient Sonophotocatalytic Degradation of Organic Pollutants <i>Karthik P., Ashokkumar M., Neppolian B.</i>
14:45	<b>OC-4</b>	Effectively coupling ultrasound with microchannel via a solid interface <i>John J.-J., Kuhn S., Van Gerven T.</i>
15:00	<b>OC-5</b>	Ultrasound assisted oxidative cleavage of fatty nitriles <i>Luisa Maria A., Couturier J.L., Dubois J.-L., Cravotto G., Dreyer T.</i>
15:15	<b>OC-6</b>	High Ultrasonic Frequencies for Selective Oxidation of Sugars: New Investigations and Insights <i>Chatel G., Amaniampong P.N., Karam A., Ortiz Mellet C., García Fernández J. M., Blériot Y., De Oliveira Vigier K., Jérôme F.</i>
15:30	<b>OC-7</b>	Heat Transfer Enhancement by Ultrasound in Forced Convection <i>Bulliard Sauret O., Poncet C., Ferrouillat S., Vignal L., Momponteil A., Gondrexon N.</i>
15:45	<b>OC-8</b>	Ultrasound-Enhanced Hair Dye Application for Natural Dyeing Formulations <i>Gonzalez V., Wood R., Lee J., Taylor S., Bussemaker M. J.</i>
16:00	<b>OC-9</b>	Effects of Ultrasound on Enzymatic Esterification <i>Vinatoru M., Calinescu I., Vartolomei A., Gavrila I. A.</i>
16:15	Coffee break	

**Session 3: SURFACE TREATMENTS / CLEANING / INTERFACES.**

16:30	<b>IL-3</b>	The Use of Power Ultrasound for the Fabrication of Energy Materials <i>Pollet B.G.</i>
16:45	<b>OC-10</b>	Electroless deposition of nickel-boron coatings using ultrasonic frequency to enable low temperature. <i>Bonin L., Vitry V.</i>
17:00	<b>OC-11</b>	Influence of the Pressure of Argon on Acoustic Cavitation Phenomenon in Ionic Liquids: Electrochemical Study <i>Naidji B., Hallez L., Et Taouil A., Rebetez M., Hihn J.-Y.</i>
17:15	<b>OC-12</b>	A Continuous Sono-Photochemical Reactor To Remove Pharmaceuticals In Wastewaters <i>Galli F., Sacchi B., Bianchi C.L., Capucci V.B.</i>
17:30	<b>OC-13</b>	Ultrasound assisted electrolytic codeposition of nano particles in zinc coatings <i>Baissac L., Buron C.C., Hihn J.-Y., Chantegrel L.</i>
17:45	<b>POSTER SESSION</b>	

18:45  
20:00

**Musical Aperitif : Nadamas**

Dinner

**Tuesday, April 17**

**Session 4: FOOD PROCESSING / ENVIRONMENTAL REMEDIATION.**

08:30	<b>PL-2</b>	Applications of Ultrasound in Food, Pharmaceutical and Cosmetic Processing: from Innovations to Industrial Applications <i>Chemat F.</i>
09:15	<b>OC-14</b>	High-frequency ultrasound and photocatalysis combination for the Degradation of cloxacillin in waters <i>Nieto-Juárez J.I., Torres-Palma, R.A.</i>
09:30	<b>OC-15</b>	Aqueous PAH degradation by ultrasonically activated persulfate: Synergisms and effects of bulk water temperature <i>Fagan W.P., Zhou J., Weavers L.K.</i>
09:45	<b>OC-16</b>	High intensity ultrasound improves quality characteristics of Longissimus dorsi in Oryctolagus <i>Salas-Carrasco J.L., Alarcón-Rojo A.D., Huerta-Jiménez M., Carrillo-López L.M., Reyes-Villagrana R., García-Galicia I.A.</i>
10:00	<b>OC-17</b>	Recent Applications of Ultrasound in Meat Industry <i>Cichoski A.J., Brasil C.C., Menezes C.R., Lopes E.J., Barin J.S., Zepka L.Q., Campagnol P.B., Wagner R., Flores E.M.M.</i>

10:15 Coffee break

**Session 5: MATERIALS / NANOPARTICLES.**

10:30	<b>IL-4</b>	A design journey for an ultrasound-assisted continuous solvent extractor <i>Van Gerven T.</i>
11:00	<b>OC-18</b>	Sonochemistry of Molten Metals <i>Gedanken A.</i>
11:15	<b>OC-19</b>	Role of the solvent in US-assisted preparation of TiO for the photocatalytic degradation of Sulfamethoxazole in water <i>Di Michele A., Vivani R., Sassi P., Pirola C., Bianchi C.L.</i>
11:30	<b>OC-20</b>	Sonochemically Produced Hollow Polymer Microspheres for Temperature Responsive Delivery <i>Price G.</i>
11:45	<b>OC-21</b>	Ultrasound Controlled Atom Transfer Radical Polymerization <i>Wang Z., Xia H., Matyjaszewski K.</i>
12:00		The floor to the exhibitors : SINAPTEC ó MEINHARDT

12:30 Lunch

**Session 6: ULTRASONIC PROCESSING.**

14:00	<b>PL-3</b>	Immersing Sonochemistry in Emerging and Greener Chemical Syntheses <i>Cintas P.</i>
14:45	<b>OC-22</b>	High Temperature and Pressure inside a Dissolving Air Nanobubble <i>Yasui K., Tuziuti T., Kanematsu W.</i>
15:00	<b>OC-23</b>	Cavitation Bubble Cluster Dynamics in Collective and Bubble Resolved Models <i>Stephens D., Eisener J., Mettin R.</i>
15:15	<b>OC-24</b>	Managing solids in micro/mini flow reactors by ultrasound <i>Dong Z., Kuhn S., Delacour C.</i>
15:30	<b>OC-25</b>	Sonochemistry and Bubble Dynamics in Small Channels <i>Sarac B.E., Eisener J., Mettin R.</i>

15:45 Coffee break

16:00	<b>Society round</b>	Ashokkumar M., Atobe M., Kobayashi T., Cravotto G., Hihn J.-Y. Proposals for next ESS location
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**Session 7: FOOD PROCESSING / ENVIRONMENTAL REMEDIATION.**

16:30	<b>IL-5</b>	Synergistic effects of hydrodynamic cavitation and ozonation <i>Wu Z., Cravotto G.</i>
17:00		The floor to the exhibitors : REUS ó SONOSYS

17:30  
19:00 Visit Museum of Time

20:00 Dinner

**Wednesday, April 18**

**Session 8: MATERIALS/NANOPARTICLES.**

08:30	<b>PL-4</b>	The Art of Sonocrystallisation <i>Lee J.</i>
09:15	<b>OC-26</b>	A Sol-Gel Method for Applying Nanosized Antibacterial Particles to the Surface of Textile Materials in an Ultrasonic Field <i>Abramova A., Abramov V., Straumal E., Braeutigam P., Weiße M.</i>
09:30	<b>OC-27</b>	Ultrasound Response to Hydrogel Viscoelastic Behavior by Using Rheometer Equipped with Sono-device <i>Kobayashi T., Noguchi S.</i>
09:45	<b>IL-6</b>	Sonocatalytic destruction of PPCPs in water using costless clay minerals <i>Ince N.H., Savun-Hekimo lu B.</i>
10:15	Coffee break	

**Session 9: FOOD PROCESSING / ENVIRONMENTAL REMEDIATION.**

10:30	<b>IL-7</b>	Treatment of real industrial effluent using hybrid treatment methods based on cavitation <i>Thanekar P.D., Parag R. Gogate P.R.</i>
11:00	<b>OC-28</b>	Ultrasound-Assisted Extraction: Ultrasound-induced physical impacts on Artichoke ( <i>Cynara scolymus</i> ) <i>Khadhraoui B., Petitcolas E., Tixier A-S., Imbert R., Robinet P., El Maâtaoui M., Chemat F.</i>
11:15	<b>OC-29</b>	Hybrid water disinfection system with silver ion in continuous flow ultrasonic reactor <i>Karaer F., Koparal A.S.</i>
11:30	<b>OC-30</b>	Kinetics Analysis for Sonochemical Degradation of Hazardous Organic Compounds in Water <i>Kobayashi D., Matsumoto H.</i>
11:45	<b>OC-31</b>	Possibilities of regulating antioxidant activity of plant extracts <i>Potoroko I., Kalinina I., Tsirulnichenko L.</i>
12:00	<b>OC-32</b>	Sonochemical Extraction and Encapsulation of Aromatic Herbs <i>Yusof N.S.M., Omer N., Choo Y.M., Ashokkumar M.</i>
12:15	<b>OC-33</b>	Combination of Cavitation and Fenton Process for Degradation of Water Pollutants <i>Deggelmann M., Tay T., Franke M., Stelter M., Braeutigam P.</i>
12:30	<b>OC-34</b>	Hydrodynamic-Acoustic-Cavitation - New developments and applications <i>Braeutigam P., Franke M., Ondruschka B., Stelter M.</i>
12:45	Lunch	
14:00	ESS	ESS as a shipyard for ultrasonics: from education and findings to technology transfer and new applications <i>Cravotto G - ESS GENERAL ASSEMBLY</i>
15:00	<b>POSTER SESSION</b>	
16:00	SOCIAL TOUR ó departure to the citadelle of Besançon	
19:45	Gala Dinner	

**Thursday, April 19**

**Session 10: FUNDAMENTALS ASPECTS.**

08:30	<b>IL-8</b>	Sonochemical Preparation of Electrocatalysts for Oxygen Reduction Reaction <i>Zuo L.X., Jiang. L.P., Zhu J.J.</i>
09:00	<b>OC-35</b>	Ultrasonic Assisted Biodiesel Production from non-edible <i>Callophyllum inophyllum</i> using Dicationic Acidic Ionic Liquid Catalyst <i>Masri A.N., Abdul Mutalib M.I., Aminuddin N.F., Yahya W.Z.N., Lévêque J.M.</i>
09:15	<b>OC-36</b>	Comparative Analysis of Cellular Disruption from Microalgae for Efficient Lipid Extraction with Ionic Liquid as Additive <i>Krishnan. S, Ghani. N. A., Aminuddin. N. F, Quraishi. K. S, Azman. N. S, Leveque. J. M.</i>
09:30	<b>OC-37</b>	GPU Accelerated Four Dimensional Parameter Scan of a Dual-Frequency Driven Single Gas Bubble <i>Heged s F., Lauterborn W., Parlitz U., Mettin R.</i>
09:45	<b>OC-38</b>	Ultrasonic Activity in Heterogeneous Media: Glass Beads Effect <i>Barchouchi A., Boisseau S., Gondrexon N., Baup S.</i>
10:00	<b>OC-39</b>	Shocked-induced cavitation physical and chemical characterization <i>Parizot L., Dutilleul H., Galvez M.E., Chave T., Da Costa P., Nikitenko S.I.</i>

10:15	Coffee break	
10:30	<b>Session 11: MATERIALS/NANOPARTICLES.</b>	
10:30	<b>OC-40</b>	Sonosynthesis of ZIF-8 in water: a systematic study <i>Nalesso S., Varlet G., Bussemaker M., Sear R., Hodnett M., Lee J.</i>
10:45	<b>OC-41</b>	Generation of Fine Particles from Ultrasonic Horn by Cavitation Erosion <i>Goshima T., Kei Mizuta K., Nii S.</i>
11:00	<b>OC-42</b>	Sonochemical Preparation and Characterization of Intrinsic Pu Colloids <i>Dalodière E., Virost M., Morosini V., Chave T., Dumas T., Hennig C., Wiss T., Dieste Blanco O., Shuh D. K., Tyliczszak T., Venault L., Moisy P., Nikitenko S. I.</i>
11:15	<b>OC-43</b>	Ultrasound assisted particle size control by continuous seed generation and batch growth <i>Jordens J., Canini E., Gielen B., Van Gerven T., Braeken L.</i>
11:30	<b>OC-44</b>	Ultrasonic transformation of tannic acid into biofunctional ellagic acid micro/nanocrystals with distinct morphologies <i>Bhangu S.K., Ashokkumar M.</i>
11:45	<b>OC-45</b>	Sonochemical Reduction of Noble Metal for the Preparation of Catalytic Materials with Original Design <i>Sierra Salazar A. F., Chave T., Nikitenko S. I., Ayrat A., Hulea V., Tichelaar F. D., Abate S., Perathoner S., Kooyman P. J., Lacroix-Desmazes P.</i>
12:00	<b>OC-46</b>	Intensive sonication as a dispersion method in an extrusion process <i>Bandelin J., Orth M., Jung R., Voßkämper S., Gries T.</i>
12:15	<b>OC-47</b>	Calcium phosphate powder synthesis by out-of-phase pulsed sonoelectrochemistry <i>Daltin A.L., Beaufils S., Bilik A., Millet P., Chopart J.P.</i>
12:30	<b>OC-48</b>	Study of the ultrasound effect on the synthesis of zeolite FAU (X) for its use in a continuous process <i>Ramirez H., Jordens J., Van Gerven T., Nicolas S., Lutz C.</i>
12:45	Closing remarks Jean-Yves HIHN	
13:00	Lunch	