

COMMON ISSUES ON ENVIRONMENT FOR TAIWAN AND SPAIN

NTU RESEARCH CENTER FOR FUTURE EARTH
 (NTURCFE)



About Workshop

Taiwanese and Spanish representatives of National Taiwan University (NTU), NTU Research Center for Future Earth (NTURCFE), Consejo Superior de Investigaciones Científicas (CSIC), University of Malaga (UMA), National Distance Education University (UNED) present their results about common problems of the environment.

The Bilateral Workshop is organized by the NTURCFE and it will aim to establish contacts intended to possible future collaboration on issues of common interest between Spanish

PROGRAM

8:50-9:00 Opening and welcome words.
 · **Prof. Luisa Shu-Ying Chang**, Vice President for International Affairs, NTU
 · **Prof. Shih-Tzung Liu**, Dean of College of Science, NTU
 · **MR. Jose Luis Echaniz Cobas**, Director General of Spanish Chamber of Commerce
 · **Prof. Ching-Hua Lo**, Director of NTURCFE

Morning Session I Chair: Prof. Shang Lien Lo (NTU)

9:00-9:10 **Prof. Maria Olga Guerrero Perez(UMA)**
 Erasmus Mundus EurasiaCat: an Sample fo a succesful European-Asiatic collaborations

9:10-9:30 **Prof. Rosa Maria Martin Aranda(UNED)**
 "Green Chemistry and mesoporous materials"

9:30-9:50 **Prof. Miguel Á. Bañares (CSIC)**
 "Spectroscopic operando and monitoring approaches to understand catalysts at work"

9:50-10:10 **Prof. Maria Olga Guerrero Perez(UMA)**
 "V-containing mixed oxide Catalysts for Reduction-Oxidation based Reactions with Environmental Applications"

10:10-10:30 **Round Table Discussion:Horizon 2020**

10:30-10:50 Coffee Break

Morning Session II Chair: Prof. Miguel Á. Bañares (CSIC)

10:50-11:10 **Prof. ShangLien Lo(NTU)**
 "Extraction of Indium from Waste Liquid Crystal Display by Supported Liquid Membrane with Strip

11:10-11:30 **Prof. Chia-Hung Hou(NTU)**
 "Capasitive Electrodes for Environmental Technology"

11:30-11:50 **Prof. Pei-Jen Chen(NTU)**
 "Establishing toxicity assays with medaka fish to assess the bioavailability and toxicity of heavy metal-contaminated sediment"

11:50-12:10 **Prof. Sofia YaHsuan Liou(NTU)**
 "Synthesis of high selectivity in the chlorine evolution reaction materials for ammonia transformation to nitrogen"

Academy of Sciences and NTU.

12:10-14:00

Lunch Break

ROUND TABLE DISCUSSION: Chair: Prof. Sofia YaHsuanLiou (NTU)

14:00-14:20

Dr. Li Cheng Kao

"Synthesis, characterization, and crystal nucleation pathway of heterogeneous phase TiO₂ nanorod arrays"

14:20-14:40

Wen Ta Yang

"A facile aerosol-assisted self-assembly synthesis of highly dispersed CuO-TiO₂ mesosphere to enhance Ethanol photoreforming"

14:40-15:00

Ren Wei Chang

"Enhancing CO₂ performance by tetraethylenepentamines introduced nitrogen doped mesoporous carbon"

15:00-15:20

Yu Thung Liaw

"Copper oxide nanoparticles supported on layered double hydroxide as catalyst for CO oxidation"

15:20-15:40

Ju Yen Shen

"The mechanism of chlorine evolution reactions for Pt-oxide-support electrodes"

15:40-16:00

Wan Jou Chang

"Removal kinetics of arsenic by nanoscale zerovalent iron"

Closing Remarks