USNC Proposal on Clean Energy for IUPAC Congress Istanbul 2013

Organizers: Hessy L.Taft, St Johns' University, USA
Guang Cao, ExxonMobil Corporation, USA

RATIONALE:

The major current worldwide concerns on sustainable resources are focused on water and energy. The United Nations has already held various conferences and set goals for equitable distribution of water and continues to seek and promote means of augmenting fresh water supplies for a rapidly growing world population. Likewise, the continued dependence on fossil fuels has already had an impact on global climate as well as environmental degradation and represents consumption of a non sustainable resource. Therefore we propose that the IUPAC Congress 2013 in Istanbul feature a symposium offering the state of the art that addresses these two key global issues :the sustainability of water and energy resources .

Following are the speakers for each symposium:

Preserving Water Resources :
Moderator : Hessy L.Taft, St. John's University, New York, USA

Dr. Michael M. Hightower, Sandia National Laboratories, New Mexico, USA
"Water Impacts on Clean Energy Considerations, Options, and Future Directions"

Prof. Antonio Guerreiro de Brito, Department of Biological Engineering, University of MInho, Braga, Portugal
"Restorative Water Technologies: an Old or a New Paradigm?"

Dr. Akissa Bahri, African Water Facilities, Tunis, Tunisia
"Hydroelectric Power and Water Resource Management in Africa"

Converting Biomass to Energy

Dr. Badal Saha, Agricultural Research Services, US Department of Agriculture, Peoria,Illinois,USA
"Fuel Ethanol production from Agricultural Residues"

Dr. Ohad Zuckerman, CEO, Univerve-biofuel, Tel-Aviv, Israel
"Economics of Microalgal Oil Production as Feedstock for Biofuel"

Dr. Jailson de Andrade, National Institute for Science & Technology for Energy & Environment, Federal University of Bahia, Salvador, Bahia, Brazil
"Are vehicular fuels based on diesel-biodiesel environmentally friendly? "

Funding: We propose applying for funding as follows : USD 550 IUPAC registration fee and USD 230 per diem for each of 7 participants (Dupont excluded) for 2 days except 3 days for speakers and moderator from USA and Brazil or $ 7760 total: $4000 from IUPAC , $2760 from ExxonMObil and $1000 from Division of Environmental Chemistry, ACS. In addition, speakers have been asked to raise their own contributions for travel expenses.

11/12/12

FUNDING: We propose applying for grants to IUPAC (has $4000 maximum) and to ExxonMObil (Guang can give realistic figure for possible funding). The IUPAC registration fee is $500,. Speakers would be allocated funds proportional to travel to Istanbul. No funding support for speakers from corporations .

HLTaft revised 4/28/12