

**II Workshop Dense Energy Carriers (DEC)
February, 17-18th
(Instituto de Química - UNICAMP sala IQ-14 Bloco E)**

Monday, 17

8:45 - Welcome

09:00 - Prof. Juarez L. F. Da Silva São Carlos Institute of Chemistry - IQSC

"What can we learn from DFT calculations"

10:00 - Dr. Miguel Tayar Galante, P#5

"Mixed-valence copper tungstates as novel materials for photoelectrochemical applications"

10:30 - 11:10 - Coffee Break

11:10 - Dr. Mauricio A Melo, P#4

"Pseudobrookite Fe_2TiO_5 as a particulate iron-based oxygen-evolving photocatalyst in solar water splitting"

11:40 - Dr. Adriana C. Queiroz, P#3

"Investigation of (photo)electrochemical processes by electrochemical mass spectrometry"

12:10 - 14:00 - Lunch

14:00 - Prof. Flavio L Souza, LNano (CNPq) e UFABC

"Engineering Interfacial Modification on Nanocrystalline Metal-Oxides Photoanodes: A Close Look into the Efficiency Parameters for Water Splitting"

14:30 - Dr. Dyovani Coelho, P#1

"Bi-Electrodeposition on WO_3 Photoanode to Improve the Photoactivity of the $WO_3/BiVO_4$ Heterostructure to Water Splitting"

15:00 - Dr. Evaldo B. Carneiro Neto, P#1

"Simulation of electrochemical devices using numerical methods"

15:30 - Coffee Break & Poster Session

17:30 - Closing

Tuesday, 18

8:45 - Prof. Ana Flavia Nogueira, Institute of Chemistry - UNICAMP

"Perovskite materials: beyond solar cells"

9:30 - Prof. Pablo Sebastian Fernandez, Institute of Chemistry -UNICAMP

" FTIR: a versatile tool for fundamental studies in (photo)electrochemistry"

10:00 - Prof. Arnaldo Naves de Brito, Institute of Physics -UNICAMP

" Beating the complexity of clean energy production with core spectroscopies"

10:20 - Coffee Break

11:00 - Discussion in groups- Brain storm with new proposals

12:00- Closing

12:15 - 14:00 - Lunch