

EERA AMPEA meeting
9th Joint Programme Steering Committee
AMPEA workshop: From Power to Gas
Lorraine University, Nancy, June 20th – 21st, 2016
Updated agenda

- **Monday, June 20th 2016, morning:** Arrival of participants on an individual basis within the morning, hotel check-in (*list of suggested hotels in the practical information section*)



- **Location :** Lorraine University,
Web page : <http://www.univ-lorraine.fr>



Building/room: Bâtiment Présidence, Campus
Brabois Ingénierie, 54500 Vandoeuvre-lès-Nancy
– JPSC Monday: Room Emile Gallé; Tuesday
Room Daum - JPMB: LEMTA, Room Coriolis -
Access: see practical information



- **10:00-12:30:** *EERA AMPEA steering committee*
→ Welcome and opening (Fabrice Lemoine)
→ General information on the EERA and AMPEA actuality
- **12:30-14:00:** Lunch break

➤ **Monday, June 20th 2016, 14.00hr – 17.30hr:**

AMPEA Workshop on “Power to chemical technologies”, part 1– Room E.
Gallé, University of Lorraine, INPL.

Context: Massive introduction of variable renewable energies requires development of energy storage strategies which can supply more flexibility and help in balancing the electricity grid.

Power to chemicals belongs to this strategy and consists in the transformation of electrical energy into chemical energy carriers (hydrogen being an example).

Once the energy is transformed into chemicals, many usages are open: it includes re-electrification by using fuel cells, mobility (hydrogen or synthetic fuels) or production of higher value chemicals like methane, methanol, ethanol, particularly when using co-valorization of anthropic CO₂, which also help in the decarbonization of the chemical sector.

This quite broad topic embeds chemical processes, electrochemical transformation (e.g. H₂O and CO₂ co-electrolysis) and the related materials made of sustainable and non-critical raw materials.

→ 14:00-14:20: Opening words by Pierre Mutzenhardt President of Lorraine University

→ 14:20-15:00: Plenary talk - *Power to H₂* (tentative title)
Prof. Pierre Millet (Paris Sud University)

→ 15:00-15:30: Plenary lecture from an industrial Air liquide, research center Jouy en Josas

→ 15:30-16:00: Coffee break & Poster Session

→ 16:00-17:20: 4 contributed talks from AMPEA (20 min each talk including discussion)

- **Talk 1:** J.C. Conesa – CSIC – *“The in-gap band concept in photocatalysis: mimicking the photosynthesis Z scheme with a single material”*
- **Talk 2:** X. Guo – UCL – *“Electrochemical Reduction of CO₂ by N-Doped Graphene – Searching for highly effective binding sites and pathways to chemicals”*
- **Talk 3:** A. Montone – ENEA – *“Magnesium based materials for innovative hydrogen storage”*
- **Talk 4:** Thomas Gries – IJL – *“Metallic oxide nanostructures synthesized by plasma afterglow-assisted oxidation for water splitting applications”* & Vanessa Fierro – IJL – *“Hydrogen storage by adsorption on nanoporous solids”*

→ 17:20-18:30: Round table for the preparation of the WPs 2018-2020 with national representatives to the programme committee for ENERGY

- Pascal Newton (France): French representative at the ENERGY programme committee

➤ **18:30-19:15: EERA AMPEA Management board meeting (for AMPEA management board members only!)**

- **20:30: Social Dinner, Nancy downtown**

- **Tuesday, June 21st 2016: AMPEA Workshop on “Power to chemical technologies”, part 2** – Room A. Daum, University of Lorraine, INPL.
 - 8:20-10:20: 6 contributed talks from AMPEA (20 min each talk including discussion)
 - **Talk 5:** S. Fiechter – HZB – *“MoSx as hydrogen evolving electrocatalyst”*
 - **Talk 6:** J.R. Morante – IREC – *“Production of methane at low temperature under adiabatic conditions using plasma-catalysis”*
 - **Talk 7:** E. Ruiz – CIEMAT – *“Solid oxide electrolyte based technologies for power to chemicals applications”*
 - **Talk 8:** Gaël Maranzana – LEMTA – *“Characterizing working heterogeneities in Proton Exchange Membrane electrochemical systems: applications to fuel cells, electrolyzers, redox flow batteries and hydrogen electrochemical compression”*
 - **Talk 9:** M. Roeb – DLR – *“Solar power to chemical technologies”*
 - **Talk 10:** Michel Vilasi – IJL ; Laurent Falk – LRGP – *“Microstructured heat exchanger-reactors (HER) in energy sector. Illustration to hydrogen production via methane steam reforming”*

 - 10:20-10:50: Coffee break & Poster session

 - 10:50-12:30: Round table on opened calls and networking
 - Paul Lucchese, CEA, President of the European association of hydrogen and fuel cell research, president of FutuRIS

 - 12:30-14:00: lunch

 - 14:00: departure of participants

Practical information

Coming to Nancy

- Coming by Train
 - National (TGV) and regional (TER) lines
 - Paris (Gare de l'Est) - Nancy : 1h30 (by TGV)
 - Lyon - Nancy : 4h00 (by TGV)
 - Strasbourg - Nancy : 1h15 (by TER or TGV)
 - Dijon - Nancy : 2h30 (by TGV)
 - Luxembourg - Nancy : 1h30 (by TER)

Nancy railway station (SNCF- 3, place Thiers) is at city center and directly connect to Tram line 1. It is 5 min walk to Place Stanislas (downtown) and 20 min by tram from the LEMTA – ENSEM. Opening hours: 5h30 - 22h30

Schedules and tickets reservations on: www.voyages-sncf.com

Remark: There is a direct connection at “TGV Lorraine railway station” with Roissy Charles de Gaulle airport, London, Stuttgart, Francfort, Roissy, Lille, Nantes, Bordeaux. The “TGV Lorraine railway station” is 40km from Nancy with shuttle buses or taxi (on demand) to Nancy. <http://www.gares-sncf.com/fr/gare/fream/lorraine-tgv>

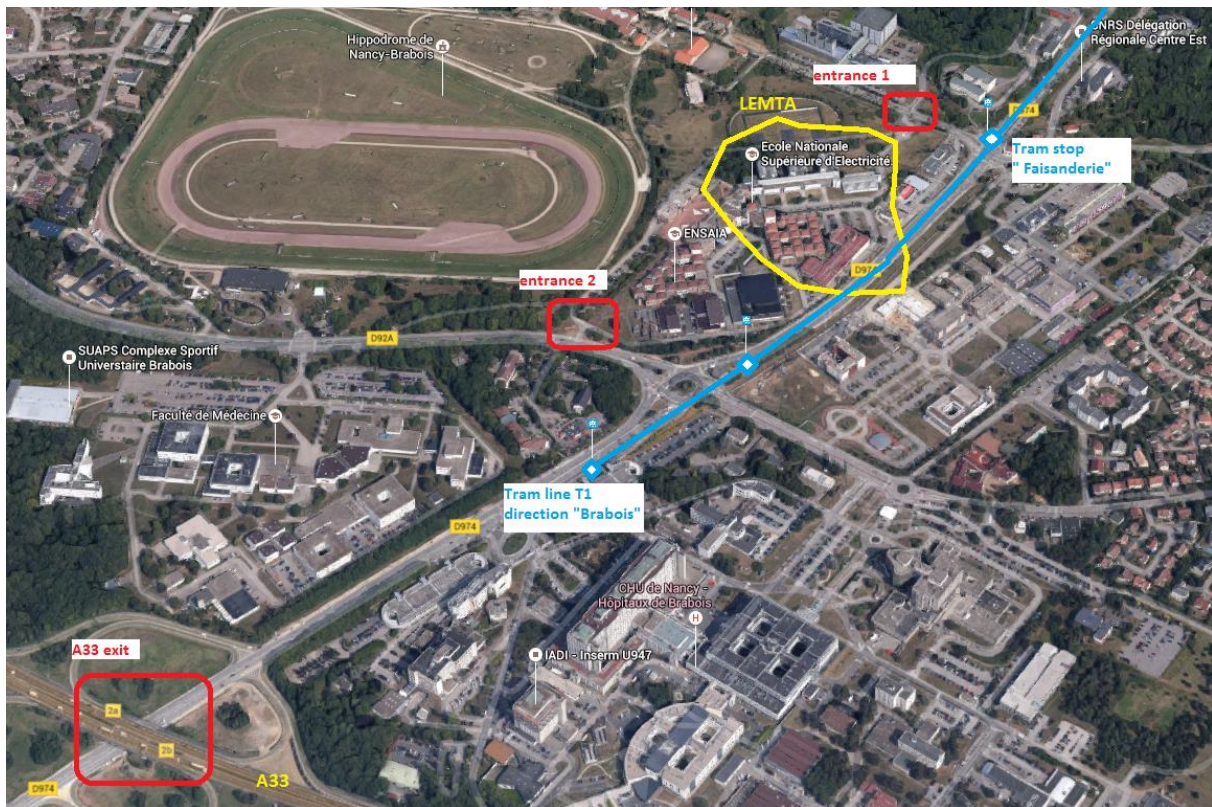
- Coming by Plane
 - Regional airport Metz-Nancy-Lorraine (30 min. from Nancy by car on A31), <http://www.metz-nancy-lorraine.aeroport.fr/>
 - Luxembourg International Airport (75 min. from Nancy by train or by car A31), many connections to Europe, <http://www.lux-airport.lu/>
- Coming by Car
 - A31 (E21): Brussels, Luxembourg or Dijon - North Europe and Spain via Lyon and Marseille.
 - A4 (E50/ E25): Paris, Berlin, Stuttgart, Vienna.
 - Expressway N4 Paris Strasbourg.

Access to the LEMTA – site ENSEM

LEMTA is located within the ENSEM engineering school buildings. It can be accessed easily either by car or by tramway. The address is : ENSEM, 2 avenue de la Forêt de Haye, 54518 Vandoeuvre-lès-Nancy Cedex ; Tél : 03 83 59 55 19 (D. Lacroix phone).

- By car, there are two access to the site (entrances 1 & 2), parking places are freely accessible :
 - Coming from Nancy city center follow the direction of Brabois Hospital (CHRU Brabois).
 - Coming from A31-A33, take exit 2b (1km from the LEMTA)
- By tram, from Nancy city center takes line 1 in the direction “Vandoeuvre CHU Brabois”. Stop at “Faisanderie”, LEMTA is at 5 min walking.

Public transports in Nancy are described at : <http://www.reseau-stan.com/index.asp>



<https://www.google.com/maps/d/viewer?mid=zoR8Ay0k0qqw.k9si5aREnxRE&msa=0>

ACCOMMODATION

For organizing of your stay in Nancy, you may contact the Tourist Office of Nancy:

- by phone to +33 (0)3.83.35.84.71
- By internet : <http://en.nancy-tourisme.fr/stay/accommodation/>

You may download the brochure hotels Nancy with the full list of hotels in Nancy. Below you will find a list of suggested hotels located in the historical part of Nancy and close to the conference dinner location.

- 3 Stars
 - BEST WESTERN CRYSTAL ***, 5 Rue Chanzy, 54000 Nancy, Tél. +33 (0)3 83 17 54 00; <http://www.bestwestern-hotel-crystal.com/>
 - COEUR DE CITY NANCY STANISLAS ***, 61 Rue Pierre Semard, 54000 Nancy, Tél. +33 (0)3 83 32 28 53 ; <http://www.coeurdecity.com/coeur-de-city-hotel-nancy-stanislas-fr.php>
 - IBIS NANCY CENTRE GARE ***, 3 Rue Crampel, 54000 Nancy, Tél. +33 (0)3 83 32 90 16 ; <http://www.ibis.com/fr/hotel-0973-ibis-nancy-centre-gare-et-congres/index.shtml>
 - IBIS NANCY SAINTE-CATHERINE ***, 42 Avenue du XX^{ème} Corps, 54000 NANCY Nancy, Tél. +33 (0)3 83 37 10 10 ; <http://www.ibis.com/fr/hotel-1393-ibis-nancy-sainte-catherine/index.shtml>
 - PARK INN NANCY ***, 11 Rue Raymond Poincaré, 54000 Nancy, Tel. +33 (0)3 39 75 75 ; <http://www.parkinn.fr/hotel-nancy/contact>
 - HOTEL DE GUISE ***, 18 RUE DE GUISE - 54 000 Nancy, Tel. : +33 (0)3 83 32 24 68 ; <http://www.hoteldeguise.com/fr/index.php>

4 stars

- D'HAUSSONVILLE ****, 9 Rue Monseigneur Trouillet, 54000 Nancy, Tel. +33 (0)3 83 35 85 84 ; <http://www.hotel-haussonville.fr>
- MERCURE NANCY CENTRE STANISLAS ****, 5 Rue des Carmes, 54000 NANCY Nancy, Tél. +33 (0)3 83 30 92 60 ; <http://www.mercure.com/fr/hotel-1068-hotel-mercure-nancy-centre-place-stanislas/index.shtml>

