

1st FRANCO-AMSUD Energy and Environment Meeting

2019 March 18 - 21, Marseille

Preliminary Programme



Monday 18 March 2019

8h30-9h45

Registration and welcome

10h00-10h30

Openings :

Sylvie DAVIET, Olivier POULIQUEN, Romain LAFFONT

10h30-11h30

PLENARY LECTURE

Wolfgang CRAMER-Membre du GIEC

1st Session : Chairman N. ROCHE

11h30-11h50

JFA_N20 :

Miguel GALVEZ, Jorge CONTRERAS, Rodrigo BARRAZA, Daniela DÍAZ, Rocío HERNÁNDEZ and Pablo RIVERA : *Performance of an air radiative cooling system in a residential building in Chile*

11h50-12h10

JFA_N14 :

Alexandre de SÁ, Victor PIGOZZO, Lounès TADRIST and Júlio PASSOS : *Optical and Thermal Investigations of an Experimental Linear Fresnel Concentrator Workbench for Direct Steam Generation*

12h10-12h30

JFA_N13 :

Abilio Teixeira de SIQUEIRA NETO, Pedro Lo GIUDICE, Eduardo BURIN and Edson BAZZO: *Cogeneration Power Plant as an Alternative to Supply the Thermal and Electricity Demands of a Poultry Slaughterhouse*

12h30-14h00

LUNCH

2nd session - chairman: R. DEMARCO

14h00-14h20 **JFA_N25 :** **Francisco PATIÑO, Alejandro JEREZ, Jean-Louis CONSALVI and Rodrigo DEMARCO :** *Numerical study of soot production from laminar coflow non-premixed propane flames: effect of the chemical kinetic mechanism*

14h20-14h40 **JFA_N28 :** **José MORAN, Andrés FUENTES, Fengshan LIU and Jérôme YON:** *FracVAL: An Improved Tunable Algorithm for Generation of Fractal Aggregates Formed by Polydisperse Primary Particles and Subsequent Numerical Tilt Series TEM Images Generation*

14h40-15h00 **JFA_N36:** **Felipe ESCUDERO and Jean-Louis CONSALVI:** *Assessing The Capabilities Of Different Methods To Predict Soot Morphology In Laminar Axisymmetric Diffusion Flames*

15h00-16h00

COFFEE BREAK

16h00-16h20 **JFA_N40:** **Patricio BECERRA BARRIOS, Kevin VARRALL, Hugues PRETREL, Samuel VAUX and Olivier VAUQUELIN :** *Experiments on bidirectional flow through a ceiling vent in natural ventilation*

16h20-16h40 **JFA_N45 :** **Ying CHEN, Jingfu WANG and Peng ZHANG:** *Experimental Study On The Effect Of Diluted Gas On The Characterization Of Air/Ch4 Premixed Laminar Flame*

16h40-17h00 **JFA_N34:** **Guilherme FRAGA, Adriane PETRY, Pedro COELHO, Francis FRANÇA:** *A Report on Turbulence-Radiation Interaction Effects for Different Optical Thicknesses in Pool Fire Scenarios*

17h00-17h20 **JFA_N15 :** **William Corrêa RADÜNZ, Yoshiaki SAKAGAMI, Isadora Limas COIMBRA, Lucas Germano WILLRICH, Mônica Nassar MACHUCA, Reinaldo HAAS, Júlio César PASSOS, Mayara MIQUELETTI, Eduardo Victor DIAS :** *Wind profile observations in a complex terrain: Morrinhos wind farm case-study*

Tuesday 19 Mars 2019

9h00-10h00

Plenary lecture

Robert JACQMIN

3rd session chairman

10h00-10h20

JFA_N17 :

Denize KALEMPA Vinicius BRAGA LEITE and Irina GRAUR: *Numerical simulation of evaporation and condensation around a droplet via a kinetic model to the Boltzmann equation*

10h20-10h40

JFA_N27 :

Camilo F. SILVA, Philip BONNAIRE, Stephan SCHUSTER and Sebastian BARTL: *Towards efficient uncertainty quantification in computational fluid dynamics*

10h40-11h20

COFFEE BREAK

11h40-12h00

JFA_N31 :

Paul CHORIN, Juan Pablo ROBINSON, Florian MOREAU, Romain GERS, Olivier SKURTYS and Didier SAURY : *Experimental and numerical study of the influence of a cylindrical obstacle on the differentially-heated-cavity heat transfer*

12h00-12h20

JFA_N21 :

Ievgen MAZURENKO, Pascale INFOSSI, Frédéric TOPIN, Marie-Thérèse GIUDICI-ORTICONI, Nicolas MANO and Elisabeth LOJOU : *Electrochemical approach to study Substrate Diffusion and Enzyme Distribution in a Thermostable H₂/O₂ Enzymatic Fuel Cell*

12h20-14h00

Lunch

4th session - chairman: Benjamin KADOCH

- 14h00-14h20 **JFA_N5 :** Mohamed Ahmed CHERIF, Damien BARAKEL, Saad TOUIHRI and Philippe TORCHIO: *New Indium-free electrodes for organic solar cells*
- 14h20-14h40 **JFA_N9 :** Luís Carlos WEBLER, Mario Henrique MACAGNAN and Jacqueline Biancon COPETTI : *Study of the geometric efficiency of a linear Fresnel reflector*
- 14h40-15h00 **JFA_N11 :** Maxim HAYES, Benoit MARTEL, Sébastien DUBOIS, Olivier PALAIS : *Study of non-fire through metallization processes of boron-doped polysilicon passivated contacts for high efficiency silicon solar cells*
- 15h00-15h20 **JFA_N18 :** Juan Sebastián ZULETA MARIN , Eduardo Konrad BURIN and Edson BAZZO
- 15h20-16h00 **COFFEE BREAK**
- 16h00-16h20 **JFA_N23 :** Luma CANTO, Lina Maria VARON and José Roberto SIMÕES-MOREIRA: *Design of a Secondary Concentrator For High Flux Solar Simulators*
- 16h20-16h40 **JFA_N26:** Jorge CONTRERAS, Rocío HERNANDEZ, Jorge BARRIOS, Felipe VILLALOBOS, Rodrigo BARRAZA and Miguel A. GALVEZ: *Evaluation of sky temperature correlations in the radiative cooling performance of a metallic flat-plate radiator*
- 16h40-17h00 **JFA_N35 :** Maike BECKER, Gabrielle REGULA, Guillaume REINHART, Elodie BOLLER, Alexander RACK, José BARUCHEL and Nathalie MANGELINCK-NOËL: *In situ X-ray Based Investigation of Grain Competition and Defects During Silicon Crystal Growth for Photovoltaic Applications*
- 17h00-17h20 **JFA_N37 :** Francisco ARAYA, Delfina MUÑOZ, Edward FUENTEALBA, Hervé COLIN, Rodrigo PALMA, Radovan KOPECEC and Bárbara SILVA : *Atacama Modules & System Technology Consortium*
- 17h20-17h40 **JFA_N44:** Arnaud LAPERTOT, Benjamin KADOCH and Olivier LE METAYER: *Development of optimization method for solar thermal systems*

Wednesday 20 March 2019

PLENARY LECTURE

9h00-10h00

Julio PASSOS

5th session - chairman: Pedro RESZKA

10h00-10h20

JFA_N30 :

R.H HERNANDEZ: *Energy and Scalar Dynamics during Vortex Ring Collisions*

10h20-10h40

JFA_N29 :

Gonzalo SEVERINO, Jorge CONTRERAS and Andrés FUENTES: *Soot Temperature Measurements Via Pyrometry in a Wildland Fuel Layer*

10h40-11h20

COFFEE BREAK

11h40-12h00

JFA_N33:

Luigi PESSOA, Francisca CATTANEO and Pedro RESZKA: *Experimental investigation of the influence of bulk properties on the ignition of surrogate porous fuel beds*

12h00-12h20

JFA_N39 :

Andrés ARRIAGADA, Jorge CONTRERAS and Aldonza JAQUES : *Chemical kinetics mechanisms evaluation for thermal degradation of Chilean forest fuel*

12h20-14h00

LUNCH

FREETIME

15H00-1800

MARSEILLE VISIT

19h30-22H00

GALA DINNER

Thursday 21 March 2019

9h00-10h00

PLENARY LECTURE

Andrés FUENTES

6th session of presentations: chairman: Pedro RESZKA

10h00-10h20

JFA_N41 :

C. BACKES , D. RANAVA , and Marie-Thérèse GIUDICI-ORTICONI: *Desulfovibrio vulgaris*, a metabolic engineer in consortia involved in the BioH₂ production

10h20-10h40

JFA_N42 :

K.M. LISBOA, J.R.B. SOUZA, C.P. NAVEIRA-COTTA and R.M. COTTA: *Hybrid Modeling of Water Desalination in Direct Contact Membrane Distillation*

11h40-12h00

JFA_N46:

Baptiste BOUILLOT, Son HO-VAN, Jérôme DOUZET and Jean-Michel HERRI: *Thermodynamics of Cyclopentane Hydrates for Water Treatment and Desalination: experimental and modelling study*

12h00-12h20

JFA_N43 :

Denis MAILLET, Vincent SCHICK, Waseem AL HADAD and Benjamin RÉMY: *Unsteady conduction and convection in linear thermal systems modeled with transfer functions: application to a heat exchanger*

12h20-14h00

LUNCH

PLENARY LECTURE

14H00-15h00

Philippe MARTY:

15H00-17h00

Round Table animated by Jean-Henri Ferrasse

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